

Environmental Product Declaration according to ISO 14025



Solar Gard[®] Architectural Solar-Control Window Film



0.1 Product classification and description

Product description

Architectural solar-control window film made primarily of polyethylene terephthalate (PET) with a cardboard box, polystyrene core, polyethylene sleeve, and polyethylene pad plugs.

Product styles

Solar Gard, a division of Saint-Gobain (S) produces films for a wide variety of applications, including automotive window films, industrial films, safety films, vanity films, and architectural solar-control window films. This EPD covers only the architectural solar-control window films. There are 32 types of architectural solar-control window films, each with their own solar-thermal properties. In addition to the 32 types of films, there are four widths available, and two options for adhering the film, pressure sensitive (PS) and clear dry adhesive (CDA). The table below details exactly which products, widths, and adhesive methods are covered in this EPD.

Product Name	36 inch		48 inch		60 inch		72 inch	
	CDA	PS	CDA	PS	CDA	PS	CDA	PS
Autumn Bronze 30	x		x		x		x	
Bronze Silver 15	x		x		x		x	
Bronze Silver 20		x	x	x	x	x		
Bronze Silver Bronze 10			x		x			
Grey Silver 15	x		x		x			
Grey Silver Grey 10	x	x	x	x	x	x		
Hilite 70 (LX70)			x	x	x	x		
Quantum Silver Quantum 10	x		x		x		x	
Quantum Silver Quantum 20	x		x		x		x	
Silver 20	x	x	x	x	x	x	x	x
Silver 35	x	x	x	x	x	x	x	
Silver 50	x		x		x		x	
Silver AG 25 Low-e	x		x		x			
Slate 10	x		x		x		x	
Slate 20	x		x		x		x	
Slate 30	x		x		x		x	
Slate 40	x		x		x		x	
Slate 50	x		x		x		x	
Solar Bronze 20	x	x	x	x	x	x	x	
Solar Bronze 35	x	x	x	x	x	x	x	
Solar Bronze 50	x		x		x	x	x	
Stainless Steel 10		x		x		x		
Stainless Steel 20	x	x		x	x	x	x	
Stainless Steel 30		x		x		x		
Stainless Steel 35	x				x		x	
Stainless Steel 50	x	x		x	x	x	x	
Sterling 20	x	x	x	x	x	x	x	x
Sterling 40	x	x	x	x	x	x	x	x
Sterling 50	x	x	x	x	x	x	x	x
Sterling 60	x	x	x	x	x	x	x	x
Sterling 70	x	x	x	x	x	x	x	x

TABLE 1: PRODUCTS INCLUDED IN SCOPE OF LCA

0.2 Range of Application

Architectural solar-control window films can be applied to any building with windows, including commercial and residential facilities.

0.3 Product Standard

- | | |
|--|--------------|
| • National Fenestration Rating Council | NFRC 100-300 |
| • Solar Heat Gain Coefficient Range | 0.2 - 0.67 |
| • Visible Light Transmission Range | 0.06 - 0.73 |
| • U-Factor Range (BTUhr/SqFt F) | 0.39 - 1.07 |

0.4 Accreditation

- ISO9001 Quality Management System
- ISO14001 Environmental Management System
- California Climate Action Leader
- Clinton Climate Initiative



1 Material Content

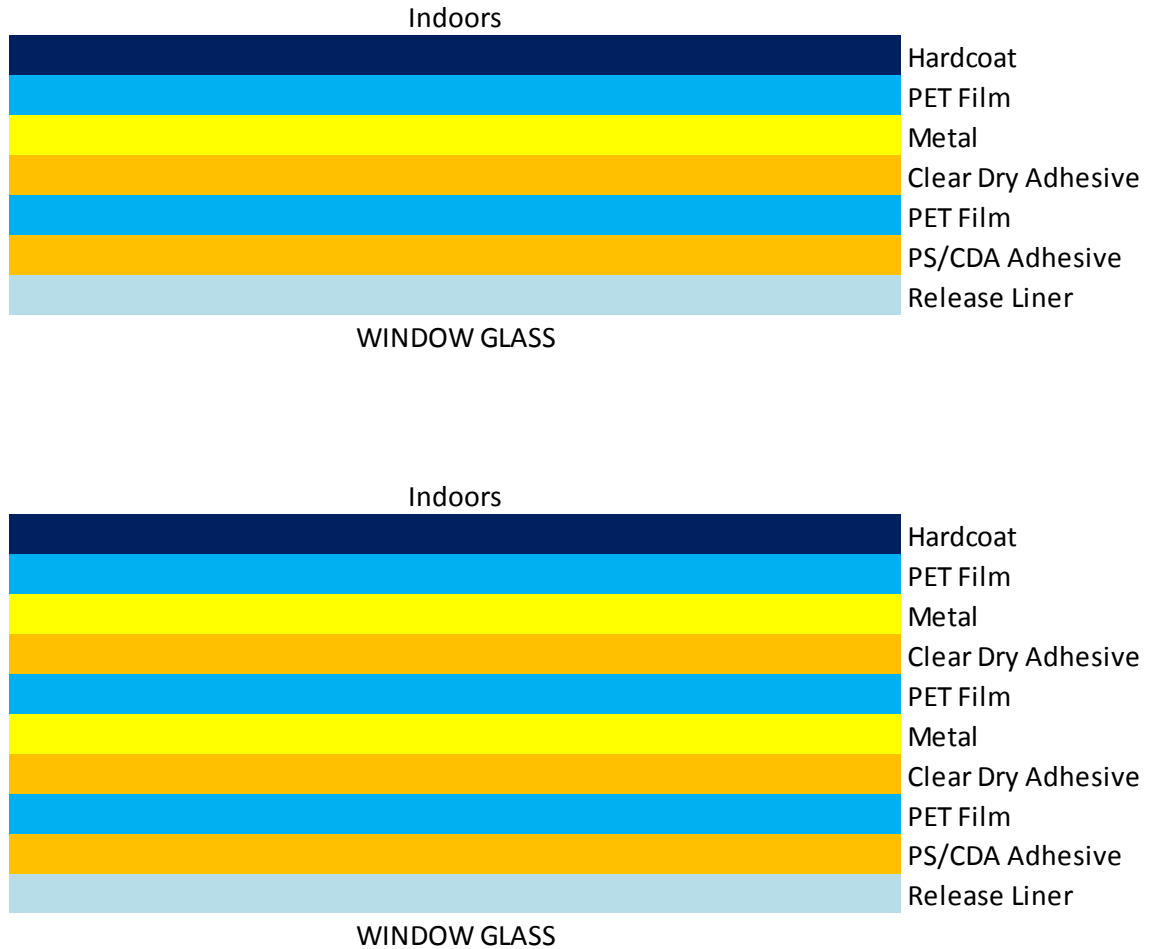


FIGURE 1: MATERIAL CONTENT OF 2-PLY AND 3-PLY WINDOW FILMS

Definitions

- **Clear Dry Adhesive** – A visibly clear adhesive that is used to combine multiple plies of PET film together.
- **Hardcoat** – A scratch resistant chemical coating that is placed on the exposed surface of the window film.
- **Metal** – Thin layer of one or more metals that is sputtered onto the window film.
- **PET Film** – Visibly clear thin film of PET which is the major component of the window film.
- **PS/CDA Adhesive** – Pressure sensitive (PS) adhesive, or clear dry adhesive (CDA) are used to adhere the window film to the window
- **Release Liner** – Used to protect the PS/CDA adhesive during storage and transportation. The release liner is removed immediately prior to installation

Product	PET	Box	Core	Pad Plug (x2)	Polytube Sleeve	Adhesives	Metal
Autum Bronze 30 CDA	66.6%	18.0%	13.2%	1.5%	< 1%	< 1%	< 1%
Bronze Silver 15 CDA	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Bronze Silver 20 CDA	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Bronze Silver Bronze 10 CDA	61.7%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Grey Silver 15 CDA	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Grey Silver Grey 10 CDA	61.7%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Hilite 70 (LX70) CDA	60.8%	20.8%	15.2%	1.7%	< 1%	< 1%	< 1%
Quantum Silver Quantum 10 CDA	61.5%	20.6%	15.1%	1.7%	< 1%	< 1%	< 1%
Quantum Silver Quantum 20 CDA	61.6%	20.6%	15.1%	1.7%	< 1%	< 1%	< 1%
Silver 20 CDA	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Silver 35 CDA	61.3%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Silver 50 CDA	61.3%	20.9%	15.4%	1.7%	< 1%	< 1%	< 1%
Silver AG 25 Low-e CDA	60.8%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Slate 10 CDA	66.0%	17.9%	13.1%	1.5%	< 1%	< 1%	< 1%
Slate 20 CDA	66.2%	18.0%	13.2%	1.5%	< 1%	< 1%	< 1%
Slate 30 CDA	66.3%	18.0%	13.2%	1.5%	< 1%	< 1%	< 1%
Slate 40 CDA	66.4%	18.0%	13.2%	1.5%	< 1%	< 1%	< 1%
Slate 50 CDA	61.3%	20.9%	15.4%	1.7%	< 1%	< 1%	< 1%
Solar Bronze 20 CDA	60.8%	20.8%	15.2%	1.7%	< 1%	< 1%	< 1%
Solar Bronze 35 CDA	60.9%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Solar Bronze 50 CDA	61.1%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 10 CDA	-	-	-	-	-	-	-
Stainless Steel 20 CDA	60.9%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 30 CDA	-	-	-	-	-	-	-
Stainless Steel 35 CDA	61.0%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 50 CDA	61.1%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 20 CDA	60.8%	20.8%	15.2%	1.7%	< 1%	< 1%	< 1%
Sterling 40 CDA	61.0%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 50 CDA	61.0%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 60 CDA	61.1%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 70 CDA	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%

TABLE 2: PRODUCT CONTENT SHOWN AS A PERCENTAGE OF FINAL PRODUCT WEIGHT (CDA)

Product	PET Film	Box	Core	Pad Plug (x2)	Polytube Sleeve	Adhesives	Metal
Autum Bronze 30 PS	-	-	-	-	-	-	-
Bronze Silver 15 PS	-	-	-	-	-	-	-
Bronze Silver 20 PS	61.3%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Bronze Silver Bronze 10 PS	-	-	-	-	-	-	-
Grey Silver 15 PS	-	-	-	-	-	-	-
Grey Silver Grey 10 PS	61.7%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Hilite 70 (LX70) PS	60.8%	20.8%	15.2%	1.7%	< 1%	< 1%	< 1%
Quant Slvr Quant 10 PS	-	-	-	-	-	-	-
Quant Slvr Quant 20 PS	-	-	-	-	-	-	-
Silver 20 PS	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Silver 35 PS	61.3%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Silver 50 PS	-	-	-	-	-	-	-
Silver AG 25 Low-e PS	-	-	-	-	-	-	-
Slate 10 PS	-	-	-	-	-	-	-
Slate 20 PS	-	-	-	-	-	-	-
Slate 30 PS	-	-	-	-	-	-	-
Slate 40 PS	-	-	-	-	-	-	-
Slate 50 PS	-	-	-	-	-	-	-
Solar Bronze 20 PS	60.8%	20.8%	15.2%	1.7%	< 1%	< 1%	< 1%
Solar Bronze 35 PS	60.9%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Solar Bronze 50 PS	60.6%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 10 PS	60.7%	20.7%	15.2%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 20 PS	60.9%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 30 PS	61.0%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Stainless Steel 35 PS	-	-	-	-	-	-	-
Stainless Steel 50 PS	61.1%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 20 PS	60.8%	20.8%	15.2%	1.7%	< 1%	< 1%	< 1%
Sterling 40 PS	61.0%	20.8%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 50 PS	61.0%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 60 PS	61.1%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%
Sterling 70 PS	61.2%	20.9%	15.3%	1.7%	< 1%	< 1%	< 1%

TABLE 3: PRODUCT CONTENT SHOWN AS A PERCENTAGE OF FINAL PRODUCT WEIGHT (PS)

Sterling 40 CDA Final Product Weight Breakdown

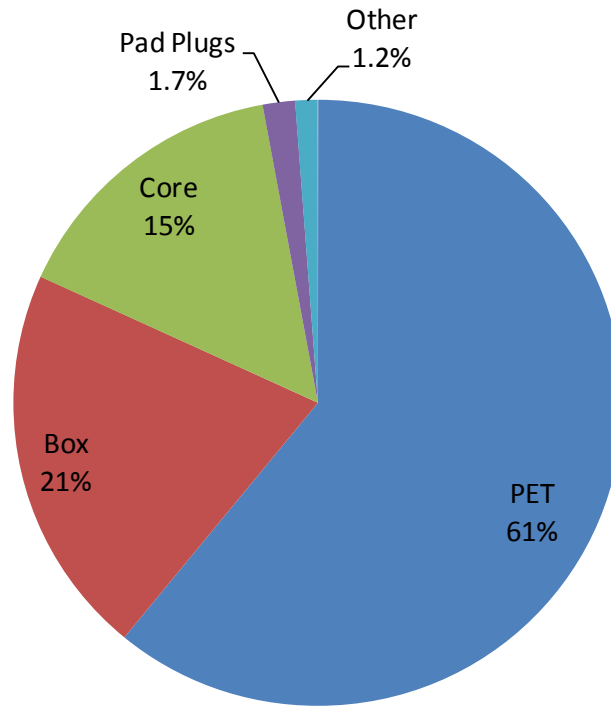


FIGURE 2: STERLING 40 CDA PRODUCT CONTENT SHOWN AS A PERCENTAGE OF FINAL PRODUCT

1.1 Production of main materials

PET Film: PET film is manufactured out of polyethylene terephthalate (PET), a thermoplastic polymer resin of the polyester family, which is derived from petroleum. PET film is often formed through extruding and stretching processes. PET is most commonly seen in plastic beverage containers.

Box: The corrugated paper box is comprised of 60% recycled fiber and 40% virgin fiber.

Core: The core, which the final film is wrapped around, is composed of high density polystyrene (HIPS). The HIPS is processed by injection molding.

Pad Plug: Pad plugs are used to cap either end of the box. The plugs are made of high density polyethylene (HDPE) and are processed by injection molding.

2 Production of the Window Film

2.1 Production Process

The films are produced by taking one or more layers of PET film, and coating one side with a variety of metals (sputtering). Each film has a very specific amount and type of metal associated with it. The coated films are then laminated together to form a single composite film. Thick films will incorporate many layers, while thin films are comprised of only a few layers. Next, the films are coated with a variety of chemicals to ensure durability and scratch resiliency. Lastly, an adhesive and a liner are applied to the film. There are two types of adhesive, a pressure-sensitive adhesive (PS), and a clear dry adhesive (CDA). The liner protects the adhesive during storage and transportation, and is removed prior to installation.

2.2 Health, safety and environmental aspects during production

- ISO 9001 Quality Management System
- ISO 14004 Environmental Management System
- BEARS Safety Program (Because Employees are Responsible for Safety)

3 Delivery and installation of window film

3.1 Delivery

Records of customer sales were used to generate the transportation data for the use stage. Materials were either transported directly to the customer, or transported to a distribution center and then to customers. Sales data was broken down in three ways – regions in the United States, countries, and general regions. General regions combine countries with similar climates and locations. The sales data contains the origin of the product, so it is known whether the product originated from SGSG San Diego, or from one of the regional service/distribution centers. Solar Gard used FedEx Ground for all of its domestic product transportation, and DHL for its international product transportation.

3.2 Installation

The product is installed by first removing the release liner, which exposes the adhesive side of the film. The film is then placed on the inside surface of a window, and any bubbles are smoothed out.

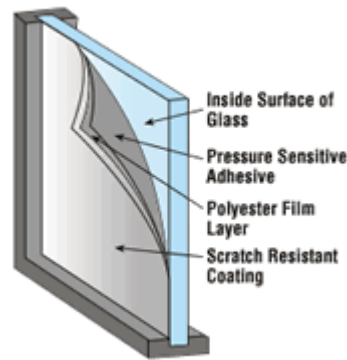


FIGURE 3: DIAGRAM OF WINDOW FILM INSTALLATION

3.3 Health, safety and environmental aspects during installation

As the release liner is removed from the window film, a small amount of VOCs are released into the atmosphere. The amount of VOCs released is very small when compared to the emissions from the entire lifecycle, and were not included in this EPD

3.4 Waste

During the manufacturing, solvents are reclaimed at a rate of 7.2%, while the remaining solvent is sent to an oxidizer to be incinerated. Scrap PET from the manufacturing process is sent back to the distributors for recycling.

3.5 Packaging

The packaging is made up of four components: core, sleeve, box, and pad plugs. The core, a tube made of high impact polystyrene (HIPS), is what the finished film is wrapped around. The sleeve covers and protects the roll of film, and is made from low density polyethylene (LDPE). A box of 60% recycled cardboard and 40% virgin, recyclable, fiber is used to protect the film, and indicates the film type. Pad plugs, made from high density polyethylene (HDPE), are used to close the box at each end.

4 Use Stage

4.1 Use of the floor covering

The product is warranted for life, however, for the purposes of this EPD, the assumed lifetime for SGSG architectural solar-control window film is 15 years.

4.1.1 Cleaning and maintenance

During the lifetime of the window film, there is no cleaning or maintenance necessary. Window cleaning practices utilized prior to the installation of window film can be carried out as usual. The scratch resilient hardcode on the exposed surface of the film products it form premature wear.

4.1.2 Prevention of structural damage

Product is intended for commercial and residential applications, and is intended to last for the life of the window

4.2 Health aspects during usage

Product conforms to CRI Green Label Plus indoor air quality testing program.

<http://www.carpet-rug.org/commercial-customers/green-building-and-the-environment/green-label-plus/carpet-and-adhesive>

5 Singular Effects

5.1 Fire

NFPA Fire Rating ASTM E-84 Class A
 ASTM D-1929 Ignition Properties
 Flash Ignition 373C/704F
 Self Ignition 445C/834F
 Melt Point 249C

5.2 Water Damage

The product coatings are impervious to moisture when applied properly, sustaining no damage from water or cleaning.

5.3 Mechanical damage

The durable film hardcoat is tested to Taber abrasion test, according to ASTM D-1044 with a haze change result of <5%. Normal contact and cleaning of applied solar control films will not affect the product during its useful fifteen year life.

6 End of Life

6.1 Disposal

The product may be recycled, or disposed of by more traditional methods, such as landfill or incineration. Data is not available on the breakdown of which disposal methods are actually applied, therefore disposal scenarios were used. The table below details the breakdown of recycling and non-recycling disposal methods.

Country	Recyclable Disposal								Non-Recycling Disposal	
	Paper	Glass	Textile	Organic Waste	Plastics	Ferrous Metals	Non Ferrous	Rubber	INCINERATION	LANDFILL
US	51.6%	21.8%	15.3%	40.9%	6.9%	35.7%	71.5%	13.3%	20.0%	80.0%
UK	33.0%	46.5%	13.3%	28.8%	2.7%	46.6%	10.3%	-	16.9%	83.1%
France	34.0%	65.0%	-	-	20.0%	45.0%	9.0%	-	53.0%	47.0%
Netherlands	72.0%	68.0%	32.0%	50.0%	-	78.0%	35.0%	-	92.1%	7.9%
Switzerland	69.3%	91.7%	-	-	82.4%	-	27.0%	-	88.0%	12.0%

TABLE 4: BREAKDOWN OF WASTE SCENARIOS

7 Life Cycle Assessment

7.1 Functional Unit

The functional unit (FU) is one normalized square meter (m²) of film. The film is installed on an existing window with thermal properties averaged over the four orientations (north, east, south, west), and has a lifetime of 15 years.

7.2 Cut-off criteria

The cut-off criteria established for the study include materials, energy, and emissions data. For the purposes of this study, the criteria are as follows:

- Mass – Chemicals with a combined weight less than 1% of the mass of the modeled product may be excluded, providing its environmental relevance is not a concern.
- Data Gaps – Data gaps include the following:
 - One chemical, which composed of 0.5% of the total weight, was not included in this study because environmental impact information was not available from the supplier or from the EcoInvent v2.1 database.
 - Data deemed proprietary to some of SGSG’s suppliers were unavailable, and thus not included in this study.
 - Data deemed proprietary to SGSG (such as the metals used) were made available for the analysis and the peer review; however that information has been excluded from this report.
 - Refrigerant leakage was not included in the scope of this study
 - Human toxicity impact factors were not included in the scope of this study

When inventory data was unavailable for use in this study, inventory data for a substitute product that is known to have a similar environmental impact was used, or the product was excluded altogether. The majority of unavailable inventory data fell below the 1% by weight cutoff, and was simply excluded from the study.

7.3 Allocation

Upstream: Resource use allocation is based on SGSG’s ‘Bills of Material’ (BOMs) for a period of two calendar years (2007-2008). These BOMs list and quantify all the materials used for the production of master rolls (60 and 72 inches wide) for each one of the SGSG window films, including scrap. The supplier transportation assessment is based on standard truck delivery scenarios provided by EcoInvent v2.1.

Core: General purpose equipment and supporting departments, such as administrative office spaces, R&D, and marketing, allocation has been based on the assumption that architectural solar-control window films represent 15.5% of the production of the facility where the film is manufactured. For specific equipment involved in the manufacturing process (e.g. slitting, sputtering, metalizing, bonding, etc.), environmental impact allocations have been deducted from the buildings energy use, and were calculated on the basis of equipment electrical capacity as well as duration of use per functional unit, and were differentiated for each type of product.

End-of-Life: The proportion of film that is disposed of by each method differs depending on the country in which the film is disposed. Only five countries’ recycling and disposal profiles were available at the time of this study creating the necessity to use proxy data for the remaining countries.

7.4 Background data

SimaPro v7.1.8 software system and the EcoInvent v2.1 database were used for modeling the life cycle of the SGSG architectural solar-control window film. A report put out by I Boustead for PlasticsEurope entitled, *Eco-profiles of the European Plastics Industry – PET FILM PRODUCTION (including Packaging)*, from March 2005 was also referenced.

7.5 Data Quality

The table below shows the data quality assessment for the LCA. Definitions of the quality indicators used in this table come from the referenced product category rules (PCR) for building materials, published by the International EPD Consortium.

Data Quality Criteria	Life Cycle Stage			
	Raw Materials	Manufacturing	Use	End-of-Life
Representativeness	Class 3	Class 1	Class 2	Class 3
Completeness	Class 1	Class 1	Class 1	Class 1
Precision	Class 3	Class 2	Class 3	Class 3
Consistent Allocation Method	Class 1	Class 1	Class 1	Class 1

TABLE 5: DATA QUALITY MATRIX

The poorest quality data (Class 3) are due to the following:

- Representativeness and precision of raw material data are never better than class 2 due to the fact that several SGSG suppliers were not able to provide lifecycle data for their products.
- Lack of precision of the data for the use stage of the products, and the heterogeneity of the buildings where they are installed.
- Lack of representativeness and precision regarding the end-of-life, conservatively assumed to be disposal in a landfill.

7.6 System Boundaries

The LCA for this EPD encompasses the whole product life cycle, from upstream extraction of the raw materials, to manufacturing, transportation, use stage, and end-of-life. Environmental impacts from infrastructure, construction, production equipment, and tools that are not directly consumed in the production process, personnel-related impacts, such as transportation to and from work, and water use are not accounted for in the LCIA.

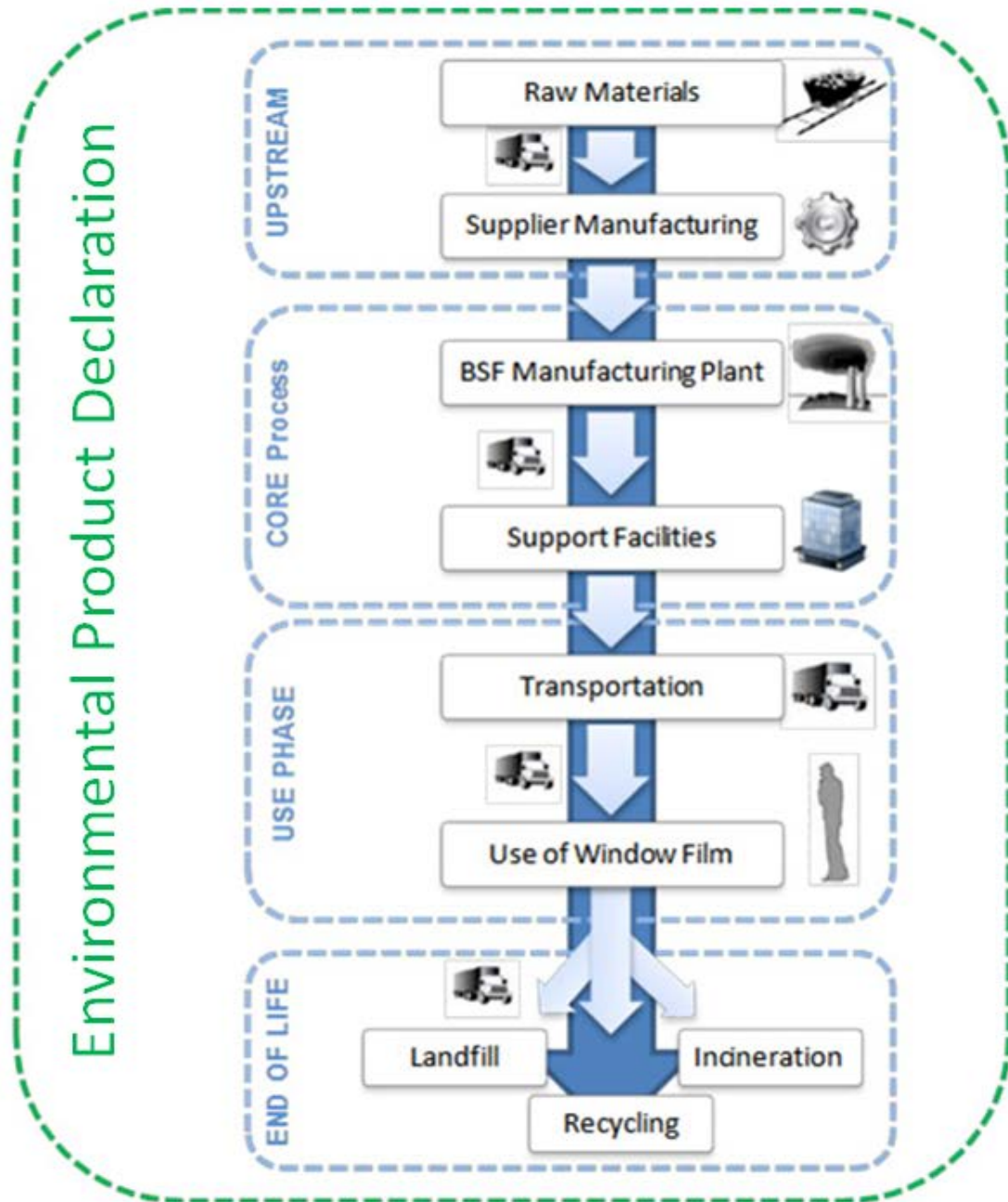


FIGURE 4: ENVIRONMENTAL PRODUCT DECLARATION SYSTEM BOUNDARY

7.7 Notes on use stage

The presence of solar-control window film reduces the Solar Heat Gain (SHG) through the windows where it is installed, reducing the need for cooling in summer, which corresponds to the reduction of use of electricity by the air conditioning systems, and increasing the need for heating in winter, which typically represents natural gas space heating.

7.8 Life cycle inventory assessment

Data collection for the life cycle inventory (LCI) was conducted between November 2009 and March 2010, and began with an audit of the San Diego facility in December 2009. During this audit, the inventory of all equipment used for the manufacturing of architectural window films was compiled, including capacity, emissions, and productivity (square meter of film per unit of time).

The inventory of all the materials and components incorporated in the products is the result of a comprehensive analysis of the BOMs and other auditable records maintained in the SAP Enterprise Resource Planning (ERP) system used by SGSG. The data set used for this analysis corresponds to procurement, production, transportation, and sales data for SGSG's operations in the calendar years 2007 and 2008. The tables below shows the LCI for this analysis with a 1% cutoff, by final product weight, on the materials, and a 1% cutoff, by total energy use, of the energy sources.

Stock Resources	Flowing Resources	Use of Natural Resources	Use of Recycled Materials	Materials for Recycling
Ethyl acetate	Air	Natural Gas	60% Corrugated Board	Polyester Resin
Polyester resin	Water, Fresh	Diesel		Corrugated Board
Polystyrene, high impact	Water, Ocean	Light Fuel Oil		Methyl Ethyl Ketone
Corrugated board, recycling fibre	Water, River	US Grid Electricity		Toluene
Methyl ethyl ketone	Water, Well			
Toluene				
Corrugated board, fresh fibre				
Heptane				
4-methyl-2-pentanone				
Ethanol from ethylene				
Isopropanol				
Methanol				
Polyethylene, High Density				
Propane/butane				
Benzene				
Polyethylene, Low Density				

TABLE 6: LIFECYCLE INVENTORY WITH 1% CUTOFF ON MATERIAL AND ENERGY

7.9 Life cycle impact assessment

ACIDIFICATION:

Tables 7 to 22 below show the SO₂e emissions embodied in one m² of film, and the acidification reductions in kg of SO₂e for all the types of window films sold in each of the 24 geographic regions where SGSG window films are distributed.

TABLE 7: EMBODIED SO2E & NET SO2E IN NORTH AMERICA

15 Year Lifecycle (kg SO2e / Meter ²)			All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	
North America	ASHRAE Climate Zone 1,2	36"	3.50E-04	0.02	2.36E-05	6.64E+00	0.018	2.36E-05	6.46E+00	2.02E-02	2.36E-05	5.88E+00	1.87E-02	2.36E-05	5.79E+00	1.83E-02	2.36E-05	6.13E+00	1.87E-02	2.36E-05	5.79E+00	-	-	-	1.87E-02	2.36E-05	6.07E+00	
		48"	2.85E-04	0.02	1.86E-05	6.64E+00	0.016	1.86E-05	6.46E+00	1.70E-02	1.86E-05	5.88E+00	1.41E-02	1.86E-05	5.80E+00	1.55E-02	1.86E-05	6.14E+00	1.41E-02	1.86E-05	5.80E+00	5.09E-02	1.86E-05	4.10E+00	1.41E-02	1.86E-05	6.07E+00	
		60"	2.48E-04	0.01	1.60E-05	6.64E+00	0.014	1.60E-05	6.47E+00	1.50E-02	1.60E-05	5.89E+00	1.27E-02	1.60E-05	5.80E+00	1.39E-02	1.60E-05	6.14E+00	1.27E-02	1.60E-05	5.80E+00	4.20E-02	1.60E-05	4.11E+00	1.27E-02	1.60E-05	6.07E+00	
		72"	2.57E-04	0.02	1.61E-05	6.64E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05
	ASHRAE Climate Zone 3	36"	3.50E-04	0.02	2.36E-05	6.44E+00	0.018	2.36E-05	1.03E+01	2.02E-02	2.36E-05	8.58E+00	1.87E-02	2.36E-05	9.22E+00	1.83E-02	2.36E-05	9.79E+00	1.87E-02	2.36E-05	9.20E+00	-	-	-	1.87E-02	2.36E-05	9.65E+00	
		48"	2.85E-04	0.02	1.86E-05	6.44E+00	0.016	1.86E-05	1.03E+01	1.70E-02	1.86E-05	8.58E+00	1.41E-02	1.86E-05	9.23E+00	1.55E-02	1.86E-05	9.79E+00	1.41E-02	1.86E-05	9.20E+00	5.09E-02	1.86E-05	6.47E+00	1.41E-02	1.86E-05	9.65E+00	
		60"	2.48E-04	0.01	1.60E-05	6.44E+00	0.014	1.60E-05	1.03E+01	1.50E-02	1.60E-05	8.59E+00	1.27E-02	1.60E-05	9.23E+00	1.39E-02	1.60E-05	9.79E+00	1.27E-02	1.60E-05	9.21E+00	4.20E-02	1.60E-05	6.48E+00	1.27E-02	1.60E-05	9.65E+00	
		72"	2.57E-04	0.02	1.61E-05	6.44E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05
	ASHRAE Climate Zone 4	36"	3.50E-04	0.02	2.36E-05	4.10E+00	0.018	2.36E-05	6.46E+00	2.02E-02	2.36E-05	5.88E+00	1.87E-02	2.36E-05	5.79E+00	1.83E-02	2.36E-05	6.13E+00	1.87E-02	2.36E-05	5.79E+00	-	-	-	1.87E-02	2.36E-05	6.07E+00	
		48"	2.85E-04	0.02	1.86E-05	4.10E+00	0.016	1.86E-05	6.46E+00	1.70E-02	1.86E-05	5.88E+00	1.41E-02	1.86E-05	5.80E+00	1.55E-02	1.86E-05	6.14E+00	1.41E-02	1.86E-05	5.80E+00	5.09E-02	1.86E-05	4.10E+00	1.41E-02	1.86E-05	6.07E+00	
		60"	2.48E-04	0.01	1.60E-05	4.10E+00	0.014	1.60E-05	6.47E+00	1.50E-02	1.60E-05	5.89E+00	1.27E-02	1.60E-05	5.80E+00	1.39E-02	1.60E-05	6.14E+00	1.27E-02	1.60E-05	5.80E+00	4.20E-02	1.60E-05	4.11E+00	1.27E-02	1.60E-05	6.07E+00	
		72"	2.57E-04	0.02	1.61E-05	4.10E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05
	ASHRAE Climate Zone 5	36"	3.50E-04	0.02	2.36E-05	4.95E+00	0.018	2.36E-05	5.09E+00	2.02E-02	2.36E-05	4.24E+00	1.87E-02	2.36E-05	4.45E+00	1.83E-02	2.36E-05	4.73E+00	1.87E-02	2.36E-05	4.41E+00	-	-	-	1.87E-02	2.36E-05	4.50E+00	
		48"	2.85E-04	0.02	1.86E-05	4.95E+00	0.016	1.86E-05	5.10E+00	1.70E-02	1.86E-05	4.24E+00	1.41E-02	1.86E-05	4.46E+00	1.55E-02	1.86E-05	4.74E+00	1.41E-02	1.86E-05	4.42E+00	5.09E-02	1.86E-05	3.78E+00	1.41E-02	1.86E-05	4.50E+00	
		60"	2.48E-04	0.01	1.60E-05	4.95E+00	0.014	1.60E-05	5.10E+00	1.50E-02	1.60E-05	4.24E+00	1.27E-02	1.60E-05	4.46E+00	1.39E-02	1.60E-05	4.74E+00	1.27E-02	1.60E-05	4.42E+00	4.20E-02	1.60E-05	3.79E+00	1.27E-02	1.60E-05	4.51E+00	
		72"	2.57E-04	0.02	1.61E-05	4.95E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05
	ASHRAE Climate Zone 6,7	36"	3.50E-04	0.02	2.36E-05	4.50E+00	0.018	2.36E-05	5.25E+00	2.02E-02	2.36E-05	4.57E+00	1.87E-02	2.36E-05	4.36E+00	1.83E-02	2.36E-05	4.63E+00	1.87E-02	2.36E-05	4.32E+00	-	-	-	1.87E-02	2.36E-05	4.40E+00	
		48"	2.85E-04	0.02	1.86E-05	4.50E+00	0.016	1.86E-05	5.26E+00	1.70E-02	1.86E-05	4.57E+00	1.41E-02	1.86E-05	4.37E+00	1.55E-02	1.86E-05	4.64E+00	1.41E-02	1.86E-05	4.32E+00	5.09E-02	1.86E-05	3.69E+00	1.41E-02	1.86E-05	4.40E+00	
		60"	2.48E-04	0.01	1.60E-05	4.50E+00	0.014	1.60E-05	5.26E+00	1.50E-02	1.60E-05	4.57E+00	1.27E-02	1.60E-05	4.37E+00	1.39E-02	1.60E-05	4.64E+00	1.27E-02	1.60E-05	4.32E+00	4.20E-02	1.60E-05	3.70E+00	1.27E-02	1.60E-05	4.40E+00	
		72"	2.57E-04	0.02	1.61E-05	4.50E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05
	Canada	36"	5.81E-04	0.02	2.36E-05	3.50E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.11E-04	0.02	1.86E-05	3.53E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.82E-04	0.01	1.60E-05	3.55E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.86E-04	0.02	1.61E-05	3.53E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	36"	3.45E-04	-	-	-	0.018	2.36E-05	4.42E+00	2.02E-02	2.36E-05	3.69E+00	-	-	-	1.83E-02	2.36E-05	4.18E+00	1.87E-02	2.36E-05	4.00E+00	-	-	-	-	-	-	-	
	48"	2.80E-04	-	-	-	0.016	1.86E-05	4.42E+00	1.70E-02	1.86E-05	3.69E+00	-	-	-	1.55E-02	1.86E-05	4.18E+00	1.41E-02	1.86E-05	4.01E+00	5.09E-02	1.86E-05	2.75E+00	-	-	-		
	60"	2.45E-04	-	-	-	0.014	1.60E-05	4.42E+00	1.50E-02	1.60E-05	3.69E+00	-	-	-	1.39E-02	1.60E-05	4.18E+00	1.27E-02	1.60E-05	4.01E+00	4.20E-02	1.60E-05	2.76E+00	-	-	-		
	72"	2.51E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 8: EMBODIED SO2E & NET SO2E IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg SO2e / Meter^2)			All Films		Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	
North America	ASHRAE Climate Zone 1,2	36"	3.50E-04	2.02E-02	2.36E-05	4.74E+00	2.02E-02	2.36E-05	6.08E+00	1.82E-02	2.36E-05	5.26E+00	1.87E-02	2.36E-05	3.79E+00	2.10E-02	2.36E-05	6.07E+00	2.43E-02	3.03E-05	6.76E+00	2.29E-02	3.03E-05	6.30E+00	2.23E-02	3.03E-05	5.53E+00	
		48"	2.85E-04	1.70E-02	1.86E-05	4.74E+00	1.70E-02	1.86E-05	6.08E+00	1.53E-02	1.86E-05	5.26E+00	1.59E-02	1.86E-05	3.79E+00	1.76E-02	1.86E-05	6.07E+00	2.01E-02	2.37E-05	6.76E+00	1.90E-02	2.37E-05	6.30E+00	1.85E-02	2.37E-05	5.54E+00	
		60"	2.48E-04	1.50E-02	1.60E-05	4.74E+00	1.50E-02	1.60E-05	6.08E+00	1.37E-02	1.60E-05	5.26E+00	1.42E-02	1.60E-05	3.80E+00	1.55E-02	1.60E-05	6.07E+00	1.75E-02	2.00E-05	6.76E+00	1.66E-02	2.00E-05	6.31E+00	1.63E-02	2.00E-05	5.54E+00	
		72"	2.57E-04	1.50E-02	1.61E-05	4.74E+00	1.50E-02	1.61E-05	6.08E+00	1.50E-02	1.61E-05	5.26E+00	1.43E-02	1.61E-05	3.80E+00	-	-	-	1.64E-02	1.73E-05	6.76E+00	1.56E-02	1.73E-05	6.31E+00	1.53E-02	1.73E-05	5.54E+00	
	ASHRAE Climate Zone 3	36"	3.50E-04	2.02E-02	2.36E-05	7.45E+00	2.02E-02	2.36E-05	9.87E+00	1.82E-02	2.36E-05	8.32E+00	1.87E-02	2.36E-05	5.94E+00	2.10E-02	2.36E-05	9.76E+00	2.43E-02	3.03E-05	1.08E+01	2.29E-02	3.03E-05	9.29E+00	2.23E-02	3.03E-05	8.16E+00	
		48"	2.85E-04	1.70E-02	1.86E-05	7.46E+00	1.70E-02	1.86E-05	9.88E+00	1.53E-02	1.86E-05	8.32E+00	1.59E-02	1.86E-05	5.94E+00	1.76E-02	1.86E-05	9.76E+00	2.01E-02	2.37E-05	1.08E+01	1.90E-02	2.37E-05	9.30E+00	1.85E-02	2.37E-05	8.16E+00	
		60"	2.48E-04	1.50E-02	1.60E-05	7.46E+00	1.50E-02	1.60E-05	9.88E+00	1.37E-02	1.60E-05	8.32E+00	1.42E-02	1.60E-05	5.95E+00	1.55E-02	1.60E-05	9.76E+00	1.75E-02	2.00E-05	1.08E+01	1.66E-02	2.00E-05	9.30E+00	1.63E-02	2.00E-05	8.16E+00	
		72"	2.57E-04	1.50E-02	1.61E-05	7.46E+00	1.50E-02	1.61E-05	9.88E+00	1.50E-02	1.61E-05	8.32E+00	1.43E-02	1.61E-05	5.95E+00	-	-	-	1.64E-02	1.73E-05	1.09E+01	1.56E-02	1.73E-05	9.30E+00	1.53E-02	1.73E-05	8.16E+00	
	ASHRAE Climate Zone 4	36"	3.50E-04	2.02E-02	2.36E-05	4.74E+00	2.02E-02	2.36E-05	6.08E+00	1.82E-02	2.36E-05	5.26E+00	1.87E-02	2.36E-05	3.79E+00	2.10E-02	2.36E-05	6.07E+00	2.43E-02	3.03E-05	6.76E+00	2.29E-02	3.03E-05	6.30E+00	2.23E-02	3.03E-05	5.53E+00	
		48"	2.85E-04	1.70E-02	1.86E-05	4.74E+00	1.70E-02	1.86E-05	6.08E+00	1.53E-02	1.86E-05	5.26E+00	1.59E-02	1.86E-05	3.79E+00	1.76E-02	1.86E-05	6.07E+00	2.01E-02	2.37E-05	6.76E+00	1.90E-02	2.37E-05	6.30E+00	1.85E-02	2.37E-05	5.54E+00	
		60"	2.48E-04	1.50E-02	1.60E-05	4.74E+00	1.50E-02	1.60E-05	6.08E+00	1.37E-02	1.60E-05	5.26E+00	1.42E-02	1.60E-05	3.80E+00	1.55E-02	1.60E-05	6.07E+00	1.75E-02	2.00E-05	6.76E+00	1.66E-02	2.00E-05	6.31E+00	1.63E-02	2.00E-05	5.54E+00	
		72"	2.57E-04	1.50E-02	1.61E-05	4.74E+00	1.50E-02	1.61E-05	6.08E+00	1.50E-02	1.61E-05	5.26E+00	1.43E-02	1.61E-05	3.80E+00	-	-	-	1.64E-02	1.73E-05	6.76E+00	1.56E-02	1.73E-05	6.31E+00	1.53E-02	1.73E-05	5.54E+00	
	ASHRAE Climate Zone 5	36"	3.50E-04	2.02E-02	2.36E-05	3.42E+00	2.02E-02	2.36E-05	5.52E+00	1.82E-02	2.36E-05	4.47E+00	1.87E-02	2.36E-05	3.40E+00	2.10E-02	2.36E-05	5.13E+00	2.43E-02	3.03E-05	5.44E+00	2.29E-02	3.03E-05	4.71E+00	2.23E-02	3.03E-05	4.19E+00	
		48"	2.85E-04	1.70E-02	1.86E-05	3.42E+00	1.70E-02	1.86E-05	5.53E+00	1.53E-02	1.86E-05	4.47E+00	1.59E-02	1.86E-05	3.40E+00	1.76E-02	1.86E-05	5.13E+00	2.01E-02	2.37E-05	5.45E+00	1.90E-02	2.37E-05	4.71E+00	1.85E-02	2.37E-05	4.19E+00	
		60"	2.48E-04	1.50E-02	1.60E-05	3.42E+00	1.50E-02	1.60E-05	5.53E+00	1.37E-02	1.60E-05	4.47E+00	1.42E-02	1.60E-05	3.41E+00	1.55E-02	1.60E-05	5.13E+00	1.75E-02	2.00E-05	5.45E+00	1.66E-02	2.00E-05	4.72E+00	1.63E-02	2.00E-05	4.19E+00	
		72"	2.57E-04	1.50E-02	1.61E-05	3.42E+00	1.50E-02	1.61E-05	5.53E+00	1.50E-02	1.61E-05	4.47E+00	1.43E-02	1.61E-05	3.41E+00	-	-	-	1.64E-02	1.73E-05	5.45E+00	1.56E-02	1.73E-05	4.72E+00	1.53E-02	1.73E-05	4.19E+00	
	ASHRAE Climate Zone 6,7	36"	3.50E-04	2.02E-02	2.36E-05	3.32E+00	2.02E-02	2.36E-05	5.44E+00	1.82E-02	2.36E-05	4.38E+00	1.87E-02	2.36E-05	3.32E+00	2.10E-02	2.36E-05	5.04E+00	2.43E-02	3.03E-05	5.36E+00	2.29E-02	3.03E-05	4.61E+00	2.23E-02	3.03E-05	4.09E+00	
		48"	2.85E-04	1.70E-02	1.86E-05	3.32E+00	1.70E-02	1.86E-05	5.44E+00	1.53E-02	1.86E-05	4.38E+00	1.59E-02	1.86E-05	3.32E+00	1.76E-02	1.86E-05	5.04E+00	2.01E-02	2.37E-05	5.36E+00	1.90E-02	2.37E-05	4.62E+00	1.85E-02	2.37E-05	4.10E+00	
		60"	2.48E-04	1.50E-02	1.60E-05	3.33E+00	1.50E-02	1.60E-05	5.45E+00	1.37E-02	1.60E-05	4.38E+00	1.42E-02	1.60E-05	3.32E+00	1.55E-02	1.60E-05	5.05E+00	1.75E-02	2.00E-05	5.36E+00	1.66E-02	2.00E-05	4.62E+00	1.63E-02	2.00E-05	4.10E+00	
		72"	2.57E-04	1.50E-02	1.61E-05	3.33E+00	1.50E-02	1.61E-05	5.45E+00	1.50E-02	1.61E-05	4.38E+00	1.43E-02	1.61E-05	3.32E+00	-	-	-	1.64E-02	1.73E-05	5.36E+00	1.56E-02	1.73E-05	4.62E+00	1.53E-02	1.73E-05	4.10E+00	
	Canada	36"	5.81E-04	-	-	-	2.02E-02	2.36E-05	4.04E-01	1.82E-02	2.36E-05	3.48E-01	1.87E-02	2.36E-05	2.74E-01	2.10E-02	2.36E-05	4.28E-01	2.43E-02	3.03E-05	3.88E-01	2.29E-02	3.03E-05	3.49E-01	2.23E-02	3.03E-05	3.21E-01	
		48"	5.11E-04	-	-	-	1.70E-02	1.86E-05	4.07E-01	1.53E-02	1.86E-05	3.51E-01	1.59E-02	1.86E-05	2.77E-01	1.76E-02	1.86E-05	4.31E-01	2.01E-02	2.37E-05	3.92E-01	1.90E-02	2.37E-05	3.53E-01	1.85E-02	2.37E-05	3.25E-01	
		60"	4.82E-04	-	-	-	1.50E-02	1.60E-05	4.09E-01	1.37E-02	1.60E-05	3.53E-01	1.42E-02	1.60E-05	2.78E-01	1.55E-02	1.60E-05	4.33E-01	1.75E-02	2.00E-05	3.95E-01	1.66E-02	2.00E-05	3.55E-01	1.63E-02	2.00E-05	3.27E-01	
		72"	4.86E-04	-	-	-	1.50E-02	1.61E-05	4.09E-01	1.50E-02	1.61E-05	3.51E-01	1.43E-02	1.61E-05	2.78E-01	-	-	-	1.64E-02	1.73E-05	3.96E-01	1.56E-02	1.73E-05	3.56E-01	1.53E-02	1.73E-05	3.28E-01	
Mexico	36"	3.45E-04	-	-	-	2.02E-02	2.36E-05	4.12E+00	1.82E-02	2.36E-05	3.54E+00	1.87E-02	2.36E-05	2.61E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	48"	2.80E-04	-	-	-	1.70E-02	1.86E-05	4.13E+00	1.53E-02	1.86E-05	3.55E+00	1.59E-02	1.86E-05	2.61E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	60"	2.45E-04	-	-	-	1.50E-02	1.60E-05	4.13E+00	1.37E-02	1.60E-05	3.55E+00	1.42E-02	1.60E-05	2.61E+00	-	-	-	-	-	-	-	-	-	-	-			
	72"	2.51E-04	-	-	-	1.50E-02	1.61E-05	4.13E+00	1.50E-02	1.61E-05	3.55E+00	1.43E-02	1.61E-05	2.61E+00	-	-	-	-	-	-	-	-	-	-	-			

TABLE 9: EMBODIED SO2E & NET SO2E IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)			All Films		Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	
North America	ASHRAE Climate Zone 1,2	36"	2.85E-04	2.17E-02	3.03E-05	4.06E+00	1.87E-02	2.36E-05	4.07E+00	2.02E-02	2.36E-05	6.55E+00	1.82E-02	2.36E-05	5.71E+00	1.87E-02	2.36E-05	4.93E+00	1.87E-02	2.36E-05	6.35E+00	2.02E-02	2.36E-05	5.02E+00	1.80E-02	2.36E-05	4.17E+00	
		48"	2.48E-04	1.81E-02	2.37E-05	4.06E+00	1.59E-02	1.86E-05	4.07E+00	1.70E-02	1.86E-05	6.55E+00	1.53E-02	1.86E-05	5.72E+00	1.59E-02	1.86E-05	4.93E+00	1.41E-02	1.86E-05	6.35E+00	1.70E-02	1.86E-05	5.02E+00	1.53E-02	1.86E-05	4.18E+00	
		60"	2.57E-04	1.59E-02	2.00E-05	4.07E+00	1.42E-02	1.60E-05	4.08E+00	1.50E-02	1.60E-05	6.55E+00	1.37E-02	1.60E-05	5.72E+00	1.42E-02	1.60E-05	4.93E+00	1.27E-02	1.60E-05	6.35E+00	1.50E-02	1.60E-05	5.02E+00	1.37E-02	1.60E-05	4.18E+00	
	ASHRAE Climate Zone 3	36"	2.85E-04	2.17E-02	3.03E-05	6.38E+00	1.87E-02	2.36E-05	6.39E+00	2.02E-02	2.36E-05	1.05E+01	1.82E-02	2.36E-05	9.09E+00	1.87E-02	2.36E-05	7.83E+00	1.87E-02	2.36E-05	1.01E+01	2.02E-02	2.36E-05	7.93E+00	1.80E-02	2.36E-05	6.70E+00	
		48"	2.48E-04	1.81E-02	2.37E-05	6.38E+00	1.59E-02	1.86E-05	6.39E+00	1.70E-02	1.86E-05	1.05E+01	1.53E-02	1.86E-05	9.10E+00	1.59E-02	1.86E-05	7.83E+00	1.41E-02	1.86E-05	1.01E+01	1.70E-02	1.86E-05	7.94E+00	1.53E-02	1.86E-05	6.70E+00	
		60"	2.57E-04	1.59E-02	2.00E-05	6.38E+00	1.42E-02	1.60E-05	6.39E+00	1.50E-02	1.60E-05	1.05E+01	1.37E-02	1.60E-05	9.10E+00	1.42E-02	1.60E-05	7.84E+00	1.27E-02	1.60E-05	1.01E+01	1.50E-02	1.60E-05	7.94E+00	1.37E-02	1.60E-05	6.70E+00	
	ASHRAE Climate Zone 4	36"	2.85E-04	2.17E-02	3.03E-05	4.06E+00	1.87E-02	2.36E-05	4.07E+00	2.02E-02	2.36E-05	6.55E+00	1.82E-02	2.36E-05	5.71E+00	1.87E-02	2.36E-05	4.93E+00	1.87E-02	2.36E-05	6.35E+00	2.02E-02	2.36E-05	5.02E+00	1.80E-02	2.36E-05	4.17E+00	
		48"	2.48E-04	1.81E-02	2.37E-05	4.06E+00	1.59E-02	1.86E-05	4.07E+00	1.70E-02	1.86E-05	6.55E+00	1.53E-02	1.86E-05	5.72E+00	1.59E-02	1.86E-05	4.93E+00	1.41E-02	1.86E-05	6.35E+00	1.70E-02	1.86E-05	5.02E+00	1.53E-02	1.86E-05	4.18E+00	
		60"	2.57E-04	1.59E-02	2.00E-05	4.07E+00	1.42E-02	1.60E-05	4.08E+00	1.50E-02	1.60E-05	6.55E+00	1.37E-02	1.60E-05	5.72E+00	1.42E-02	1.60E-05	4.93E+00	1.27E-02	1.60E-05	6.35E+00	1.50E-02	1.60E-05	5.02E+00	1.37E-02	1.60E-05	4.18E+00	
	ASHRAE Climate Zone 5	36"	2.85E-04	2.17E-02	3.03E-05	3.46E+00	1.87E-02	2.36E-05	3.53E+00	2.02E-02	2.36E-05	5.43E+00	1.82E-02	2.36E-05	4.85E+00	1.87E-02	2.36E-05	4.31E+00	1.87E-02	2.36E-05	4.98E+00	2.02E-02	2.36E-05	3.98E+00	1.80E-02	2.36E-05	3.40E+00	
		48"	2.48E-04	1.81E-02	2.37E-05	3.47E+00	1.59E-02	1.86E-05	3.53E+00	1.70E-02	1.86E-05	5.44E+00	1.53E-02	1.86E-05	4.85E+00	1.59E-02	1.86E-05	4.32E+00	1.41E-02	1.86E-05	4.98E+00	1.70E-02	1.86E-05	3.98E+00	1.53E-02	1.86E-05	3.40E+00	
		60"	2.57E-04	1.59E-02	2.00E-05	3.47E+00	1.42E-02	1.60E-05	3.53E+00	1.50E-02	1.60E-05	5.44E+00	1.37E-02	1.60E-05	4.86E+00	1.42E-02	1.60E-05	4.32E+00	1.27E-02	1.60E-05	4.99E+00	1.50E-02	1.60E-05	3.98E+00	1.37E-02	1.60E-05	3.40E+00	
	ASHRAE Climate Zone 6,7	36"	2.85E-04	2.17E-02	3.03E-05	3.38E+00	1.87E-02	2.36E-05	3.44E+00	2.02E-02	2.36E-05	5.36E+00	1.82E-02	2.36E-05	4.76E+00	1.87E-02	2.36E-05	4.23E+00	1.87E-02	2.36E-05	4.88E+00	2.02E-02	2.36E-05	3.88E+00	1.80E-02	2.36E-05	3.31E+00	
		48"	2.48E-04	1.81E-02	2.37E-05	3.38E+00	1.59E-02	1.86E-05	3.45E+00	1.70E-02	1.86E-05	5.36E+00	1.53E-02	1.86E-05	4.76E+00	1.59E-02	1.86E-05	4.23E+00	1.41E-02	1.86E-05	4.89E+00	1.70E-02	1.86E-05	3.88E+00	1.53E-02	1.86E-05	3.32E+00	
		60"	2.57E-04	1.59E-02	2.00E-05	3.39E+00	1.42E-02	1.60E-05	3.45E+00	1.50E-02	1.60E-05	5.36E+00	1.37E-02	1.60E-05	4.77E+00	1.42E-02	1.60E-05	4.23E+00	1.27E-02	1.60E-05	4.89E+00	1.50E-02	1.60E-05	3.88E+00	1.37E-02	1.60E-05	3.32E+00	
	Canada	36"	5.81E-04	1.54E-02	1.73E-05	3.39E+00	1.43E-02	1.61E-05	3.45E+00	1.50E-02	1.61E-05	5.36E+00	1.50E-02	1.61E-05	4.76E+00	1.43E-02	1.61E-05	4.23E+00	1.30E-02	1.61E-05	4.89E+00	1.50E-02	1.61E-05	3.88E+00	1.50E-02	1.61E-05	3.32E+00	
		48"	5.11E-04	2.17E-02	3.03E-05	2.74E-01	1.87E-02	2.36E-05	2.84E-01	2.02E-02	2.36E-05	4.03E-01	1.82E-02	2.36E-05	3.72E-01	1.87E-02	2.36E-05	3.43E-01	1.87E-02	2.36E-05	3.73E-01	2.02E-02	2.36E-05	3.10E-01	1.80E-02	2.36E-05	2.72E-01	
		60"	4.82E-04	1.81E-02	2.37E-05	2.77E-01	1.59E-02	1.86E-05	2.87E-01	1.70E-02	1.86E-05	4.07E-01	1.53E-02	1.86E-05	3.75E-01	1.59E-02	1.86E-05	3.45E-01	1.41E-02	1.86E-05	3.78E-01	1.70E-02	1.86E-05	3.14E-01	1.53E-02	1.86E-05	2.75E-01	
	Mexico	36"	4.86E-04	1.59E-02	2.00E-05	2.79E-01	1.42E-02	1.60E-05	2.89E-01	1.50E-02	1.60E-05	4.09E-01	1.37E-02	1.60E-05	3.77E-01	1.42E-02	1.60E-05	3.47E-01	1.27E-02	1.60E-05	3.79E-01	1.50E-02	1.60E-05	3.16E-01	1.37E-02	1.60E-05	2.77E-01	
		48"	3.45E-04	1.54E-02	1.73E-05	2.80E-01	1.43E-02	1.61E-05	2.89E-01	1.50E-02	1.61E-05	4.09E-01	1.50E-02	1.61E-05	3.75E-01	1.43E-02	1.61E-05	3.47E-01	1.30E-02	1.61E-05	3.79E-01	1.50E-02	1.61E-05	3.16E-01	1.50E-02	1.61E-05	2.75E-01	
		60"	2.80E-04	-	-	-	-	-	-	2.02E-02	2.36E-05	4.44E+00	1.82E-02	2.36E-05	3.84E+00	1.87E-02	2.36E-05	3.29E+00	1.87E-02	2.36E-05	4.38E+00	2.02E-02	2.36E-05	3.44E+00	1.80E-02	2.36E-05	2.85E+00	
		36"	2.45E-04	-	-	-	-	-	-	1.70E-02	1.86E-05	4.45E+00	1.53E-02	1.86E-05	3.84E+00	1.59E-02	1.86E-05	3.30E+00	1.41E-02	1.86E-05	4.39E+00	1.70E-02	1.86E-05	3.45E+00	1.53E-02	1.86E-05	2.86E+00	
		48"	2.51E-04	-	-	-	-	-	-	1.50E-02	1.60E-05	4.45E+00	1.37E-02	1.60E-05	3.85E+00	1.42E-02	1.60E-05	3.30E+00	1.27E-02	1.60E-05	4.39E+00	1.50E-02	1.60E-05	3.45E+00	1.37E-02	1.60E-05	2.86E+00	
		60"	0.00E+00	-	-	-	-	-	-	1.50E-02	1.61E-05	4.45E+00	1.50E-02	1.61E-05	3.84E+00	1.43E-02	1.61E-05	3.30E+00	1.30E-02	1.61E-05	4.39E+00	1.50E-02	1.61E-05	3.45E+00	1.50E-02	1.61E-05	2.86E+00	

TABLE 10: EMBODIED SO2E & NET SO2E IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)			All Films		Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	
North America	ASHRAE Climate Zone 1,2	36"	2.48E-04	1.82E-02	2.36E-05	3.44E+00	1.87E-02	2.36E-05	3.04E+00	2.02E-02	2.36E-05	6.79E+00	1.92E-02	2.36E-05	5.52E+00	1.87E-02	2.36E-05	4.81E+00	1.84E-02	2.36E-05	3.59E+00	1.80E-02	2.36E-05	2.74E+00	
		48"	2.57E-04	1.53E-02	1.86E-05	3.45E+00	1.59E-02	1.86E-05	3.04E+00	1.70E-02	1.86E-05	6.79E+00	1.62E-02	1.86E-05	5.53E+00	1.59E-02	1.86E-05	4.81E+00	1.56E-02	1.86E-05	3.59E+00	1.53E-02	1.86E-05	2.74E+00	
		60"	3.50E-04	1.37E-02	1.60E-05	3.45E+00	1.42E-02	1.60E-05	3.04E+00	1.50E-02	1.60E-05	6.80E+00	1.44E-02	1.60E-05	5.53E+00	1.42E-02	1.60E-05	4.81E+00	1.39E-02	1.60E-05	3.60E+00	1.37E-02	1.60E-05	2.74E+00	
		72"	2.85E-04	1.50E-02	1.61E-05	3.45E+00	1.43E-02	1.61E-05	3.04E+00	1.50E-02	1.61E-05	6.80E+00	1.45E-02	1.61E-05	5.53E+00	1.43E-02	1.61E-05	4.81E+00	1.41E-02	1.61E-05	3.60E+00	1.39E-02	1.61E-05	2.74E+00	
	ASHRAE Climate Zone 3	36"	2.48E-04	1.82E-02	2.36E-05	5.37E+00	1.87E-02	2.36E-05	4.73E+00	2.02E-02	2.36E-05	9.99E+00	1.92E-02	2.36E-05	7.84E+00	1.87E-02	2.36E-05	6.68E+00	1.84E-02	2.36E-05	4.52E+00	1.80E-02	2.36E-05	3.33E+00	
		48"	2.57E-04	1.53E-02	1.86E-05	5.38E+00	1.59E-02	1.86E-05	4.74E+00	1.70E-02	1.86E-05	9.99E+00	1.62E-02	1.86E-05	7.84E+00	1.59E-02	1.86E-05	6.68E+00	1.56E-02	1.86E-05	4.52E+00	1.53E-02	1.86E-05	3.33E+00	
		60"	3.50E-04	1.37E-02	1.60E-05	5.38E+00	1.42E-02	1.60E-05	4.74E+00	1.50E-02	1.60E-05	9.99E+00	1.44E-02	1.60E-05	7.85E+00	1.42E-02	1.60E-05	6.68E+00	1.39E-02	1.60E-05	4.52E+00	1.37E-02	1.60E-05	3.33E+00	
		72"	2.85E-04	1.50E-02	1.61E-05	5.38E+00	1.43E-02	1.61E-05	4.74E+00	1.50E-02	1.61E-05	9.99E+00	1.45E-02	1.61E-05	7.85E+00	1.43E-02	1.61E-05	6.68E+00	1.41E-02	1.61E-05	4.52E+00	1.39E-02	1.61E-05	3.33E+00	
	ASHRAE Climate Zone 4	36"	2.48E-04	1.82E-02	2.36E-05	3.44E+00	1.87E-02	2.36E-05	3.04E+00	2.02E-02	2.36E-05	6.79E+00	1.92E-02	2.36E-05	5.52E+00	1.87E-02	2.36E-05	4.81E+00	1.84E-02	2.36E-05	3.59E+00	1.80E-02	2.36E-05	2.74E+00	
		48"	2.57E-04	1.53E-02	1.86E-05	3.45E+00	1.59E-02	1.86E-05	3.04E+00	1.70E-02	1.86E-05	6.79E+00	1.62E-02	1.86E-05	5.53E+00	1.59E-02	1.86E-05	4.81E+00	1.56E-02	1.86E-05	3.59E+00	1.53E-02	1.86E-05	2.74E+00	
		60"	3.50E-04	1.37E-02	1.60E-05	3.45E+00	1.42E-02	1.60E-05	3.04E+00	1.50E-02	1.60E-05	6.80E+00	1.44E-02	1.60E-05	5.53E+00	1.42E-02	1.60E-05	4.81E+00	1.39E-02	1.60E-05	3.60E+00	1.37E-02	1.60E-05	2.74E+00	
		72"	2.85E-04	1.50E-02	1.61E-05	3.45E+00	1.43E-02	1.61E-05	3.04E+00	1.50E-02	1.61E-05	6.80E+00	1.45E-02	1.61E-05	5.53E+00	1.43E-02	1.61E-05	4.81E+00	1.41E-02	1.61E-05	3.60E+00	1.39E-02	1.61E-05	2.74E+00	
	ASHRAE Climate Zone 5	36"	2.48E-04	1.82E-02	2.36E-05	2.92E+00	1.87E-02	2.36E-05	2.69E+00	2.02E-02	2.36E-05	5.22E+00	1.92E-02	2.36E-05	4.33E+00	1.87E-02	2.36E-05	3.82E+00	1.84E-02	2.36E-05	2.96E+00	1.80E-02	2.36E-05	2.36E+00	
		48"	2.57E-04	1.53E-02	1.86E-05	2.93E+00	1.59E-02	1.86E-05	2.69E+00	1.70E-02	1.86E-05	5.23E+00	1.62E-02	1.86E-05	4.33E+00	1.59E-02	1.86E-05	3.83E+00	1.56E-02	1.86E-05	2.96E+00	1.53E-02	1.86E-05	2.36E+00	
		60"	3.50E-04	1.37E-02	1.60E-05	2.93E+00	1.42E-02	1.60E-05	2.69E+00	1.50E-02	1.60E-05	5.23E+00	1.44E-02	1.60E-05	4.34E+00	1.42E-02	1.60E-05	3.83E+00	1.39E-02	1.60E-05	2.97E+00	1.37E-02	1.60E-05	2.36E+00	
		72"	2.85E-04	1.50E-02	1.61E-05	2.93E+00	1.43E-02	1.61E-05	2.69E+00	1.50E-02	1.61E-05	5.23E+00	1.45E-02	1.61E-05	4.34E+00	1.43E-02	1.61E-05	3.83E+00	1.41E-02	1.61E-05	2.97E+00	1.39E-02	1.61E-05	2.36E+00	
	ASHRAE Climate Zone 6,7	36"	2.48E-04	1.82E-02	2.36E-05	2.84E+00	1.87E-02	2.36E-05	2.61E+00	2.02E-02	2.36E-05	5.14E+00	1.92E-02	2.36E-05	4.24E+00	1.87E-02	2.36E-05	3.73E+00	1.84E-02	2.36E-05	2.89E+00	1.80E-02	2.36E-05	2.29E+00	
		48"	2.57E-04	1.53E-02	1.86E-05	2.84E+00	1.59E-02	1.86E-05	2.62E+00	1.70E-02	1.86E-05	5.14E+00	1.62E-02	1.86E-05	4.24E+00	1.59E-02	1.86E-05	3.73E+00	1.56E-02	1.86E-05	2.89E+00	1.53E-02	1.86E-05	2.29E+00	
		60"	5.81E-04	1.37E-02	1.60E-05	2.84E+00	1.42E-02	1.60E-05	2.62E+00	1.50E-02	1.60E-05	5.14E+00	1.44E-02	1.60E-05	4.25E+00	1.42E-02	1.60E-05	3.73E+00	1.39E-02	1.60E-05	2.90E+00	1.37E-02	1.60E-05	2.29E+00	
		72"	5.11E-04	1.50E-02	1.61E-05	2.84E+00	1.43E-02	1.61E-05	2.62E+00	1.50E-02	1.61E-05	5.14E+00	1.45E-02	1.61E-05	4.25E+00	1.43E-02	1.61E-05	3.73E+00	1.41E-02	1.61E-05	2.90E+00	1.39E-02	1.61E-05	2.29E+00	
	Canada	36"	4.82E-04	1.82E-02	2.36E-05	2.36E-01	1.87E-02	2.36E-05	2.16E-01	2.02E-02	2.36E-05	3.92E-01	1.92E-02	2.36E-05	3.44E-01	1.87E-02	2.36E-05	3.09E-01	1.84E-02	2.36E-05	2.40E-01	1.80E-02	2.36E-05	1.95E-01	
		48"	4.86E-04	1.53E-02	1.86E-05	2.39E-01	1.59E-02	1.86E-05	2.18E-01	1.70E-02	1.86E-05	3.95E-01	1.62E-02	1.86E-05	3.47E-01	1.59E-02	1.86E-05	3.12E-01	1.56E-02	1.86E-05	2.43E-01	1.53E-02	1.86E-05	1.98E-01	
		60"	3.45E-04	1.37E-02	1.60E-05	2.41E-01	1.42E-02	1.60E-05	2.20E-01	1.50E-02	1.60E-05	3.97E-01	1.44E-02	1.60E-05	3.49E-01	1.42E-02	1.60E-05	3.14E-01	1.39E-02	1.60E-05	2.45E-01	1.37E-02	1.60E-05	1.99E-01	
		72"	2.80E-04	1.50E-02	1.61E-05	2.40E-01	1.43E-02	1.61E-05	2.20E-01	1.50E-02	1.61E-05	3.97E-01	1.45E-02	1.61E-05	3.49E-01	1.43E-02	1.61E-05	3.14E-01	1.41E-02	1.61E-05	2.44E-01	1.39E-02	1.61E-05	1.99E-01	
Mexico	36"	2.45E-04	1.82E-02	2.36E-05	2.36E+00	1.87E-02	2.36E-05	2.08E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	48"	2.51E-04	1.53E-02	1.86E-05	2.37E+00	1.59E-02	1.86E-05	2.08E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	60"	0.00E+00	1.37E-02	1.60E-05	2.37E+00	1.42E-02	1.60E-05	2.08E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	72"	0.00E+00	1.50E-02	1.61E-05	2.37E+00	1.43E-02	1.61E-05	2.08E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 11: EMBODIED SO2E & NET SO2E SAVINGS IN EUROPE

15 Year Lifecycle (kg SO2e / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10				
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved		
Europe	France	36"	3.95E-04	-	-	-	-	-	-	2.02E-02	2.36E-05	6.16E-01	-	-	-	-	-	-	1.87E-02	2.36E-05	6.53E-01	-	-	-	-	-	-	
		48"	3.82E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	6.16E-01	-	-	-	-	-	-	-	1.41E-02	1.86E-05	6.54E-01	5.09E-02	1.86E-05	4.35E-01	-	-	-
		60"	3.88E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	6.18E-01	-	-	-	-	-	-	-	1.27E-02	1.60E-05	6.55E-01	4.20E-02	1.60E-05	4.44E-01	-	-	-
		72"	3.84E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Northern Europe	36"	3.98E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	3.85E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.09E-02	1.86E-05	1.34E+00	-	-	-
		60"	3.90E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20E-02	1.60E-05	1.35E+00	-	-	-
		72"	3.84E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Scandinavia	36"	3.88E-03	1.80E-02	2.36E-05	1.12E-01	1.83E-02	2.36E-05	1.28E-01	2.02E-02	2.36E-05	1.14E-01	1.87E-02	2.36E-05	1.30E-01	1.83E-02	2.36E-05	1.28E-01	1.87E-02	2.36E-05	9.76E-02	-	-	-	1.87E-02	2.36E-05	9.67E-02	
		48"	3.74E-03	1.53E-02	1.86E-05	1.15E-01	1.55E-02	1.86E-05	1.31E-01	1.70E-02	1.86E-05	1.17E-01	1.41E-02	1.86E-05	1.35E-01	1.55E-02	1.86E-05	1.31E-01	1.41E-02	1.86E-05	1.02E-01	5.09E-02	1.86E-05	6.97E-02	1.41E-02	1.86E-05	1.01E-01	
		60"	3.79E-03	1.37E-02	1.60E-05	1.17E-01	1.39E-02	1.60E-05	1.32E-01	1.50E-02	1.60E-05	1.19E-01	1.27E-02	1.60E-05	1.36E-01	1.39E-02	1.60E-05	1.32E-01	1.27E-02	1.60E-05	1.04E-01	4.20E-02	1.60E-05	7.85E-02	1.27E-02	1.60E-05	1.03E-01	
		72"	3.75E-03	1.50E-02	1.61E-05	1.15E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Southern Europe	36"	3.98E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	6.05E+00	-	-	-	-	-	-	-	1.87E-02	2.36E-05	6.47E+00	-	-	-	-	-	-
		48"	3.85E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	6.05E+00	-	-	-	-	-	-	-	1.41E-02	1.86E-05	6.48E+00	5.09E-02	1.86E-05	4.57E+00	-	-	-
		60"	3.90E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	6.05E+00	-	-	-	-	-	-	-	1.27E-02	1.60E-05	6.48E+00	4.20E-02	1.60E-05	4.58E+00	-	-	-
		72"	3.86E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Kingdom	36"	3.80E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	1.12E+00	-	-	-	-	-	-	-	1.87E-02	2.36E-05	1.17E+00	-	-	-	-	-	-
		48"	3.66E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	1.12E+00	-	-	-	-	-	-	-	1.41E-02	1.86E-05	1.17E+00	5.09E-02	1.86E-05	9.67E-01	-	-	-
		60"	3.70E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	1.12E+00	-	-	-	-	-	-	-	1.27E-02	1.60E-05	1.17E+00	4.20E-02	1.60E-05	9.76E-01	-	-	-
		72"	3.66E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 12: EMBODIED SO2e & NET SO2e SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)		All Films				Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30						
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved				
Europe	France	36"	3.95E-04	2.02E-02	2.36E-05	6.16E-01	-	-	-	-	-	-	-	-	-	-	2.10E-02	2.36E-05	7.12E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	3.82E-03	1.70E-02	1.86E-05	6.16E-01	-	-	-	-	-	-	-	-	-	-	-	1.76E-02	1.86E-05	7.12E-01	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	3.88E-03	1.50E-02	1.60E-05	6.18E-01	-	-	-	-	-	-	-	-	-	-	-	1.55E-02	1.60E-05	7.14E-01	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	3.84E-03	1.50E-02	1.61E-05	6.18E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Northern Europe	36"	3.98E-03	-	-	-	2.02E-02	2.36E-05	2.03E+00	1.82E-02	2.36E-05	1.62E+00	-	-	-	-	-	2.10E-02	2.36E-05	1.89E+00	2.43E-02	3.03E-05	2.00E+00	-	-	-	-	-	-	-	-	-	
		48"	3.85E-03	-	-	-	1.70E-02	1.86E-05	2.04E+00	1.53E-02	1.86E-05	1.62E+00	-	-	-	-	-	1.76E-02	1.86E-05	1.89E+00	2.01E-02	2.37E-05	2.00E+00	-	-	-	-	-	-	-	-	-	
		60"	3.90E-03	-	-	-	1.50E-02	1.60E-05	2.04E+00	1.37E-02	1.60E-05	1.62E+00	-	-	-	-	-	1.55E-02	1.60E-05	1.89E+00	1.75E-02	2.00E-05	2.00E+00	-	-	-	-	-	-	-	-	-	
		72"	3.84E-03	-	-	-	1.50E-02	1.61E-05	2.04E+00	1.50E-02	1.61E-05	1.62E+00	-	-	-	-	-	-	-	-	1.64E-02	1.73E-05	2.00E+00	-	-	-	-	-	-	-	-	-	
	Scandinavia	36"	3.88E-03	2.02E-02	2.36E-05	8.79E-02	2.02E-02	2.36E-05	1.35E-01	1.82E-02	2.36E-05	1.24E-01	1.87E-02	2.36E-05	9.53E-02	2.10E-02	2.36E-05	2.46E-01	2.43E-02	3.03E-05	1.65E-01	2.29E-02	3.03E-05	1.47E-01	2.23E-02	3.03E-05	1.32E-01	2.23E-02	3.03E-05	1.32E-01			
		48"	3.74E-03	1.70E-02	1.86E-05	9.13E-02	1.70E-02	1.86E-05	1.39E-01	1.53E-02	1.86E-05	1.27E-01	1.59E-02	1.86E-05	9.83E-02	1.76E-02	1.86E-05	2.49E-01	2.01E-02	2.37E-05	1.69E-01	1.90E-02	2.37E-05	1.51E-01	1.85E-02	2.37E-05	1.36E-01	1.85E-02	2.37E-05	1.36E-01			
		60"	3.79E-03	1.50E-02	1.60E-05	9.32E-02	1.50E-02	1.60E-05	1.41E-01	1.37E-02	1.60E-05	1.29E-01	1.42E-02	1.60E-05	1.00E-01	1.55E-02	1.60E-05	2.51E-01	1.75E-02	2.00E-05	1.72E-01	1.66E-02	2.00E-05	1.53E-01	1.63E-02	2.00E-05	1.39E-01	1.63E-02	2.00E-05	1.39E-01			
		72"	3.75E-03	1.50E-02	1.61E-05	9.32E-02	1.50E-02	1.61E-05	1.41E-01	1.50E-02	1.61E-05	1.27E-01	1.43E-02	1.61E-05	9.99E-02	-	-	-	1.64E-02	1.73E-05	1.73E-01	1.56E-02	1.73E-05	1.54E-01	1.53E-02	1.73E-05	1.40E-01	1.53E-02	1.73E-05	1.40E-01			
	Southern Europe	36"	3.98E-03	-	-	-	2.02E-02	2.36E-05	6.79E+00	1.82E-02	2.36E-05	5.84E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	3.85E-03	-	-	-	1.70E-02	1.86E-05	6.79E+00	1.53E-02	1.86E-05	5.84E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	3.90E-03	-	-	-	1.50E-02	1.60E-05	6.79E+00	1.37E-02	1.60E-05	5.84E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	3.86E-03	-	-	-	1.50E-02	1.61E-05	6.79E+00	1.50E-02	1.61E-05	5.84E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Kingdom	36"	3.80E-03	-	-	-	2.02E-02	2.36E-05	1.47E+00	1.82E-02	2.36E-05	1.18E+00	1.87E-02	2.36E-05	8.89E-01	2.10E-02	2.36E-05	1.37E+00	2.43E-02	3.03E-05	1.44E+00	-	-	-	2.23E-02	3.03E-05	1.10E+00	2.23E-02	3.03E-05	1.10E+00			
		48"	3.66E-03	-	-	-	1.70E-02	1.86E-05	1.47E+00	1.53E-02	1.86E-05	1.19E+00	1.59E-02	1.86E-05	8.92E-01	1.76E-02	1.86E-05	1.38E+00	2.01E-02	2.37E-05	1.45E+00	-	-	-	1.85E-02	2.37E-05	1.10E+00	1.85E-02	2.37E-05	1.10E+00			
		60"	3.70E-03	-	-	-	1.50E-02	1.60E-05	1.48E+00	1.37E-02	1.60E-05	1.19E+00	1.42E-02	1.60E-05	8.93E-01	1.55E-02	1.60E-05	1.38E+00	1.75E-02	2.00E-05	1.45E+00	-	-	-	1.63E-02	2.00E-05	1.11E+00	1.63E-02	2.00E-05	1.11E+00			
		72"	3.66E-03	-	-	-	1.50E-02	1.61E-05	1.48E+00	1.50E-02	1.61E-05	1.19E+00	1.43E-02	1.61E-05	8.93E-01	-	-	-	1.64E-02	1.73E-05	1.45E+00	-	-	-	1.53E-02	1.73E-05	1.11E+00	1.53E-02	1.73E-05	1.11E+00			

TABLE 13: EMBODIED SO2E & NET SO2E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	
Europe	France	36"	3.95E-04	-	-	-	-	-	2.02E-02	2.36E-05	7.40E-01	1.82E-02	2.36E-05	6.51E-01	-	-	-	1.87E-02	2.36E-05	7.14E-01	2.02E-02	2.36E-05	5.68E-01	1.80E-02	2.36E-05	4.74E-01	
		48"	3.82E-03	-	-	-	-	-	1.70E-02	1.86E-05	7.40E-01	1.53E-02	1.86E-05	6.51E-01	-	-	-	1.41E-02	1.86E-05	7.15E-01	1.70E-02	1.86E-05	5.68E-01	1.53E-02	1.86E-05	4.74E-01	
		60"	3.88E-03	-	-	-	-	-	1.50E-02	1.60E-05	7.42E-01	1.37E-02	1.60E-05	6.52E-01	-	-	-	1.27E-02	1.60E-05	7.17E-01	1.50E-02	1.60E-05	5.70E-01	1.37E-02	1.60E-05	4.75E-01	
	Northern Europe	72"	3.84E-03	-	-	-	-	-	1.50E-02	1.61E-05	7.42E-01	1.50E-02	1.61E-05	6.51E-01	-	-	-	1.30E-02	1.61E-05	7.16E-01	1.50E-02	1.61E-05	5.70E-01	1.50E-02	1.61E-05	4.74E-01	
		36"	3.98E-03	2.17E-02	3.03E-05	1.23E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.02E-02	2.36E-05	1.42E+00	1.80E-02	2.36E-05	1.20E+00	
		48"	3.85E-03	1.81E-02	2.37E-05	1.24E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70E-02	1.86E-05	1.42E+00	1.53E-02	1.86E-05	1.20E+00	
	Scandinavia	60"	3.90E-03	1.59E-02	2.00E-05	1.24E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-02	1.60E-05	1.42E+00	1.37E-02	1.60E-05	1.21E+00	
		72"	3.84E-03	1.54E-02	1.73E-05	1.24E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-02	1.61E-05	1.42E+00	1.50E-02	1.61E-05	1.20E+00	
		36"	3.88E-03	2.17E-02	3.03E-05	1.12E-01	1.87E-02	2.36E-05	1.22E-01	2.02E-02	2.36E-05	1.41E-01	1.82E-02	2.36E-05	1.39E-01	1.87E-02	2.36E-05	1.45E-01	1.87E-02	2.36E-05	1.64E-01	2.02E-02	2.36E-05	1.28E-01	1.80E-02	2.36E-05	1.09E-01
	Southern Europe	48"	3.74E-03	1.81E-02	2.37E-05	1.16E-01	1.59E-02	1.86E-05	1.25E-01	1.70E-02	1.86E-05	1.44E-01	1.53E-02	1.86E-05	1.42E-01	1.59E-02	1.86E-05	1.48E-01	1.41E-02	1.86E-05	1.69E-01	1.70E-02	1.86E-05	1.31E-01	1.53E-02	1.86E-05	1.12E-01
		60"	3.79E-03	1.59E-02	2.00E-05	1.18E-01	1.42E-02	1.60E-05	1.27E-01	1.50E-02	1.60E-05	1.46E-01	1.37E-02	1.60E-05	1.43E-01	1.42E-02	1.60E-05	1.50E-01	1.27E-02	1.60E-05	1.70E-01	1.50E-02	1.60E-05	1.33E-01	1.37E-02	1.60E-05	1.13E-01
		72"	3.75E-03	1.54E-02	1.73E-05	1.18E-01	1.43E-02	1.61E-05	1.27E-01	1.50E-02	1.61E-05	1.46E-01	1.50E-02	1.61E-05	1.42E-01	1.43E-02	1.61E-05	1.50E-01	1.30E-02	1.61E-05	1.70E-01	1.50E-02	1.61E-05	1.33E-01	1.50E-02	1.61E-05	1.12E-01
	United Kingdom	36"	3.98E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	7.12E+00	2.02E-02	2.36E-05	5.63E+00	1.80E-02	2.36E-05	5.18E+00
		48"	3.85E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	7.13E+00	1.70E-02	1.86E-05	5.63E+00	1.53E-02	1.86E-05	5.18E+00
		60"	3.90E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	7.13E+00	1.50E-02	1.60E-05	5.64E+00	1.37E-02	1.60E-05	5.18E+00
	United Kingdom	72"	3.86E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	7.13E+00	1.50E-02	1.61E-05	5.64E+00	1.50E-02	1.61E-05	5.18E+00
		36"	3.80E-03	2.17E-02	3.03E-05	9.06E-01	-	-	-	2.02E-02	2.36E-05	1.45E+00	1.82E-02	2.36E-05	1.29E+00	1.87E-02	2.36E-05	1.14E+00	1.87E-02	2.36E-05	1.29E+00	2.02E-02	2.36E-05	1.05E+00	1.80E-02	2.36E-05	8.89E-01
		48"	3.66E-03	1.81E-02	2.37E-05	9.10E-01	-	-	-	1.70E-02	1.86E-05	1.45E+00	1.53E-02	1.86E-05	1.29E+00	1.59E-02	1.86E-05	1.14E+00	1.41E-02	1.86E-05	1.29E+00	1.70E-02	1.86E-05	1.05E+00	1.53E-02	1.86E-05	8.92E-01
	United Kingdom	60"	3.70E-03	1.59E-02	2.00E-05	9.12E-01	-	-	-	1.50E-02	1.60E-05	1.45E+00	1.37E-02	1.60E-05	1.29E+00	1.42E-02	1.60E-05	1.14E+00	1.27E-02	1.60E-05	1.29E+00	1.50E-02	1.60E-05	1.05E+00	1.37E-02	1.60E-05	8.93E-01
		72"	3.66E-03	1.54E-02	1.73E-05	9.13E-01	-	-	-	1.50E-02	1.61E-05	1.45E+00	1.50E-02	1.61E-05	1.29E+00	1.43E-02	1.61E-05	1.14E+00	1.30E-02	1.61E-05	1.29E+00	1.50E-02	1.61E-05	1.05E+00	1.50E-02	1.61E-05	8.92E-01

TABLE 14: EMBODIED SO2E & NET SO2E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)		All Films			Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved		
Europe	France	36"	3.95E-04	1.82E-02	2.36E-05	3.88E-01	1.87E-02	2.36E-05	3.39E-01	2.02E-02	2.36E-05	5.74E-01	1.92E-02	2.36E-05	5.67E-01	1.87E-02	2.36E-05	4.87E-01	1.84E-02	2.36E-05	3.39E-01	1.80E-02	2.36E-05	2.41E-01	
		48"	3.82E-03	1.53E-02	1.86E-05	3.88E-01	1.59E-02	1.86E-05	3.39E-01	1.70E-02	1.86E-05	5.74E-01	1.62E-02	1.86E-05	5.67E-01	1.59E-02	1.86E-05	4.86E-01	1.56E-02	1.86E-05	3.38E-01	1.53E-02	1.86E-05	2.41E-01	
		60"	3.88E-03	1.37E-02	1.60E-05	3.89E-01	1.42E-02	1.60E-05	3.40E-01	1.50E-02	1.60E-05	5.76E-01	1.44E-02	1.60E-05	5.69E-01	1.42E-02	1.60E-05	4.88E-01	1.39E-02	1.60E-05	3.40E-01	1.37E-02	1.60E-05	2.42E-01	
		72"	3.84E-03	1.50E-02	1.61E-05	3.88E-01	1.43E-02	1.61E-05	3.40E-01	1.50E-02	1.61E-05	5.76E-01	1.45E-02	1.61E-05	5.69E-01	1.43E-02	1.61E-05	4.88E-01	1.41E-02	1.61E-05	3.40E-01	1.39E-02	1.61E-05	2.42E-01	
	Northern Europe	36"	3.98E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	1.92E+00	1.92E-02	2.36E-05	1.57E+00	-	-	-	1.84E-02	2.36E-05	1.05E+00	1.80E-02	2.36E-05	8.24E-01	
		48"	3.85E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	1.92E+00	1.62E-02	1.86E-05	1.57E+00	-	-	-	1.56E-02	1.86E-05	1.05E+00	1.53E-02	1.86E-05	8.27E-01	
		60"	3.90E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	1.92E+00	1.44E-02	1.60E-05	1.57E+00	-	-	-	1.39E-02	1.60E-05	1.06E+00	1.37E-02	1.60E-05	8.28E-01	
		72"	3.84E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	1.92E+00	1.45E-02	1.61E-05	1.57E+00	-	-	-	1.41E-02	1.61E-05	1.06E+00	1.39E-02	1.61E-05	8.28E-01	
	Scandinavia	36"	3.88E-03	1.82E-02	2.36E-05	9.52E-02	1.87E-02	2.36E-05	8.06E-02	2.02E-02	2.36E-05	1.82E-01	1.92E-02	2.36E-05	1.58E-01	1.87E-02	2.36E-05	1.40E-01	1.84E-02	2.36E-05	9.98E-02	1.80E-02	2.36E-05	8.22E-02	
		48"	3.74E-03	1.53E-02	1.86E-05	9.83E-02	1.59E-02	1.86E-05	8.37E-02	1.70E-02	1.86E-05	1.86E-01	1.62E-02	1.86E-05	1.61E-01	1.59E-02	1.86E-05	1.43E-01	1.56E-02	1.86E-05	1.03E-01	1.53E-02	1.86E-05	8.51E-02	
		60"	3.79E-03	1.37E-02	1.60E-05	9.99E-02	1.42E-02	1.60E-05	8.53E-02	1.50E-02	1.60E-05	1.88E-01	1.44E-02	1.60E-05	1.62E-01	1.42E-02	1.60E-05	1.44E-01	1.39E-02	1.60E-05	1.04E-01	1.37E-02	1.60E-05	8.66E-02	
	Southern Europe	36"	3.75E-03	1.50E-02	1.61E-05	9.85E-02	1.43E-02	1.61E-05	8.53E-02	1.50E-02	1.61E-05	1.88E-01	1.45E-02	1.61E-05	1.62E-01	1.43E-02	1.61E-05	1.44E-01	1.41E-02	1.61E-05	1.04E-01	1.39E-02	1.61E-05	8.65E-02	
		48"	3.98E-03	1.82E-02	2.36E-05	3.83E+00	1.87E-02	2.36E-05	3.36E+00	2.02E-02	2.36E-05	6.97E+00	-	-	-	1.87E-02	2.36E-05	5.07E+00	1.84E-02	2.36E-05	3.90E+00	1.80E-02	2.36E-05	1.94E+00	
		60"	3.85E-03	1.53E-02	1.86E-05	3.83E+00	1.59E-02	1.86E-05	3.36E+00	1.70E-02	1.86E-05	6.98E+00	-	-	-	1.59E-02	1.86E-05	5.08E+00	1.56E-02	1.86E-05	3.90E+00	1.53E-02	1.86E-05	1.95E+00	
		72"	3.90E-03	1.37E-02	1.60E-05	3.84E+00	1.42E-02	1.60E-05	3.36E+00	1.50E-02	1.60E-05	6.98E+00	-	-	-	1.42E-02	1.60E-05	5.08E+00	1.39E-02	1.60E-05	3.90E+00	1.37E-02	1.60E-05	1.95E+00	
	United Kingdom	36"	3.86E-03	1.50E-02	1.61E-05	3.83E+00	1.43E-02	1.61E-05	3.36E+00	1.50E-02	1.61E-05	6.98E+00	-	-	-	1.43E-02	1.61E-05	5.08E+00	1.41E-02	1.61E-05	3.90E+00	1.39E-02	1.61E-05	1.95E+00	
		48"	3.80E-03	1.82E-02	2.36E-05	7.64E-01	1.87E-02	2.36E-05	6.99E-01	2.02E-02	2.36E-05	1.39E+00	1.92E-02	2.36E-05	1.14E+00	1.87E-02	2.36E-05	1.00E+00	1.84E-02	2.36E-05	7.75E-01	1.80E-02	2.36E-05	6.11E-01	
		60"	3.66E-03	1.53E-02	1.86E-05	7.67E-01	1.59E-02	1.86E-05	7.02E-01	1.70E-02	1.86E-05	1.39E+00	1.62E-02	1.86E-05	1.15E+00	1.59E-02	1.86E-05	1.01E+00	1.56E-02	1.86E-05	7.78E-01	1.53E-02	1.86E-05	6.14E-01	
		72"	3.70E-03	1.37E-02	1.60E-05	7.68E-01	1.42E-02	1.60E-05	7.03E-01	1.50E-02	1.60E-05	1.39E+00	1.44E-02	1.60E-05	1.15E+00	1.42E-02	1.60E-05	1.01E+00	1.39E-02	1.60E-05	7.80E-01	1.37E-02	1.60E-05	6.15E-01	
	72"	3.66E-03	1.50E-02	1.61E-05	7.67E-01	1.43E-02	1.61E-05	7.03E-01	1.50E-02	1.61E-05	1.39E+00	1.45E-02	1.61E-05	1.15E+00	1.43E-02	1.61E-05	1.01E+00	1.41E-02	1.61E-05	7.80E-01	1.39E-02	1.61E-05	6.15E-01		

TABLE 15: EMBODIED SO2E AND NET SO2E SAVINGS IN ASIA

15 Year Lifecycle (kg SO2e / Meter^2)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved
Asia	North-East China	36"	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	4.17E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.24E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	South-East China	36"	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.17E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.24E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	India	36"	5.42E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.25E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.34E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.27E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	3.80E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	3.69E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	3.72E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	3.68E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	5.60E-03	-	-	-	1.83E-02	2.36E-05	7.11E+00	-	-	-	-	-	1.83E-02	2.36E-05	6.69E+00	1.87E-02	2.36E-05	6.18E+00	-	-	-	-	-	-	-
		48"	5.41E-03	-	-	-	1.55E-02	1.86E-05	7.12E+00	-	-	-	-	-	1.55E-02	1.86E-05	6.70E+00	1.41E-02	1.86E-05	6.18E+00	5.09E-02	1.86E-05	4.33E+00	-	-	-	-
		60"	5.49E-03	-	-	-	1.39E-02	1.60E-05	7.12E+00	-	-	-	-	-	1.39E-02	1.60E-05	6.70E+00	1.27E-02	1.60E-05	6.19E+00	4.20E-02	1.60E-05	4.34E+00	-	-	-	-
		72"	5.42E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Russia	36"	4.20E-03	-	-	-	1.83E-02	2.36E-05	5.42E-01	2.02E-02	2.36E-05	4.49E-01	1.87E-02	2.36E-05	7.16E-01	1.83E-02	2.36E-05	6.97E-01	1.87E-02	2.36E-05	7.49E-01	-	-	-	1.87E-02	2.36E-05	7.05E-01
		48"	4.04E-03	-	-	-	1.55E-02	1.86E-05	5.45E-01	1.70E-02	1.86E-05	4.53E-01	1.41E-02	1.86E-05	7.21E-01	1.55E-02	1.86E-05	6.99E-01	1.41E-02	1.86E-05	7.54E-01	-	-	-	1.41E-02	1.86E-05	7.10E-01
		60"	4.09E-03	-	-	-	1.39E-02	1.60E-05	5.46E-01	1.50E-02	1.60E-05	4.55E-01	1.27E-02	1.60E-05	7.23E-01	1.39E-02	1.60E-05	7.01E-01	1.27E-02	1.60E-05	7.55E-01	-	-	-	1.27E-02	1.60E-05	7.11E-01
		72"	4.04E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	7.11E-01
	China, Mid-East Coast	36"	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.17E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.24E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	4.77E-03	-	-	-	-	-	-	-	-	-	-	-	1.83E-02	2.36E-05	1.71E+00	-	-	-	-	-	-	-	-	-	-
		48"	4.60E-03	-	-	-	-	-	-	-	-	-	-	-	1.55E-02	1.86E-05	1.71E+00	-	-	-	-	-	-	-	-	-	-
		60"	4.69E-03	-	-	-	-	-	-	-	-	-	-	-	1.39E-02	1.60E-05	1.72E+00	-	-	-	-	-	-	-	-	-	-
		72"	4.61E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 16: EMBODIED SO2E & NET SO2E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)			All Films		Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer		Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved
			36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"
Asia	North-East China	36"	4.31E-03	-	-	-	2.02E-02	2.36E-05	1.46E+01	1.82E-02	2.36E-05	1.21E+01	1.87E-02	2.36E-05	9.02E+00	2.10E-02	2.36E-05	1.39E+01	-	-	-	-	-	-	-	-	-	-
		48"	4.17E-03	-	-	-	1.70E-02	1.86E-05	1.46E+01	1.53E-02	1.86E-05	1.21E+01	1.59E-02	1.86E-05	9.02E+00	1.76E-02	1.86E-05	1.39E+01	-	-	-	-	-	-	-	-	-	-
		60"	4.24E-03	-	-	-	1.50E-02	1.60E-05	1.46E+01	1.37E-02	1.60E-05	1.21E+01	1.42E-02	1.60E-05	9.03E+00	1.55E-02	1.60E-05	1.39E+01	-	-	-	-	-	-	-	-	-	-
		72"	4.18E-03	-	-	-	1.50E-02	1.61E-05	1.46E+01	1.50E-02	1.61E-05	1.21E+01	1.43E-02	1.61E-05	9.03E+00	-	-	-	-	-	-	-	-	-	-	-	-	-
	South-East China	36"	4.31E-03	-	-	-	2.02E-02	2.36E-05	1.46E+01	1.82E-02	2.36E-05	1.21E+01	1.87E-02	2.36E-05	9.02E+00	2.10E-02	2.36E-05	1.39E+01	-	-	-	-	-	-	-	-	-	-
		48"	4.17E-03	-	-	-	1.70E-02	1.86E-05	1.46E+01	1.53E-02	1.86E-05	1.21E+01	1.59E-02	1.86E-05	9.02E+00	1.76E-02	1.86E-05	1.39E+01	-	-	-	-	-	-	-	-	-	-
		60"	4.24E-03	-	-	-	1.50E-02	1.60E-05	1.46E+01	1.37E-02	1.60E-05	1.21E+01	1.42E-02	1.60E-05	9.03E+00	1.55E-02	1.60E-05	1.39E+01	-	-	-	-	-	-	-	-	-	-
		72"	4.18E-03	-	-	-	1.50E-02	1.61E-05	1.46E+01	1.50E-02	1.61E-05	1.21E+01	1.43E-02	1.61E-05	9.03E+00	-	-	-	-	-	-	-	-	-	-	-	-	-
	India	36"	5.42E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.25E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.34E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.27E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	3.80E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29E-02	3.03E-05	2.20E+00	-
		48"	3.69E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90E-02	2.37E-05	2.20E+00	-	
		60"	3.72E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.66E-02	2.00E-05	2.20E+00	-	
		72"	3.68E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.56E-02	1.73E-05	2.20E+00	-	
	Middle East	36"	5.60E-03	-	-	-	2.02E-02	2.36E-05	7.26E+00	1.82E-02	2.36E-05	6.22E+00	1.87E-02	2.36E-05	5.32E+00	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	5.41E-03	-	-	-	1.70E-02	1.86E-05	7.27E+00	1.53E-02	1.86E-05	6.23E+00	1.59E-02	1.86E-05	5.32E+00	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	5.49E-03	-	-	-	1.50E-02	1.60E-05	7.27E+00	1.37E-02	1.60E-05	6.23E+00	1.42E-02	1.60E-05	5.32E+00	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	5.42E-03	-	-	-	1.50E-02	1.61E-05	7.27E+00	1.50E-02	1.61E-05	6.23E+00	1.43E-02	1.61E-05	5.32E+00	-	-	-	-	-	-	-	-	-	-	-	-	
	Russia	36"	4.20E-03	-	-	-	2.02E-02	2.36E-05	6.08E+01	1.82E-02	2.36E-05	4.92E-01	1.87E-02	2.36E-05	4.91E-01	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	4.04E-03	-	-	-	1.70E-02	1.86E-05	6.11E-01	1.53E-02	1.86E-05	4.96E-01	1.59E-02	1.86E-05	4.94E-01	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	4.09E-03	-	-	-	1.50E-02	1.60E-05	6.13E-01	1.37E-02	1.60E-05	4.97E-01	1.42E-02	1.60E-05	4.96E-01	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	4.04E-03	-	-	-	1.50E-02	1.61E-05	6.13E-01	1.50E-02	1.61E-05	4.96E-01	1.43E-02	1.61E-05	4.96E-01	-	-	-	-	-	-	-	-	-	-	-	-	
China, Mid-East Coast	36"	4.31E-03	-	-	-	2.02E-02	2.36E-05	1.21E+01	1.82E-02	2.36E-05	1.04E+01	1.87E-02	2.36E-05	7.51E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	48"	4.17E-03	-	-	-	1.70E-02	1.86E-05	1.21E+01	1.53E-02	1.86E-05	1.04E+01	1.59E-02	1.86E-05	7.52E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	60"	4.24E-03	-	-	-	1.50E-02	1.60E-05	1.21E+01	1.37E-02	1.60E-05	1.04E+01	1.42E-02	1.60E-05	7.52E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	72"	4.18E-03	-	-	-	1.50E-02	1.61E-05	1.21E+01	1.50E-02	1.61E-05	1.04E+01	1.43E-02	1.61E-05	7.52E+00	-	-	-	-	-	-	-	-	-	-	-	-		
Turkey	36"	4.77E-03	-	-	-	2.02E-02	2.36E-05	3.48E+00	1.82E-02	2.36E-05	3.08E+00	1.87E-02	2.36E-05	2.35E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	48"	4.60E-03	-	-	-	1.70E-02	1.86E-05	3.49E+00	1.53E-02	1.86E-05	3.09E+00	1.59E-02	1.86E-05	2.36E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	60"	4.69E-03	-	-	-	1.50E-02	1.60E-05	3.49E+00	1.37E-02	1.60E-05	3.09E+00	1.42E-02	1.60E-05	2.36E+00	-	-	-	-	-	-	-	-	-	-	-	-		
	72"	4.61E-03	-	-	-	1.50E-02	1.61E-05	3.49E+00	1.50E-02	1.61E-05	3.09E+00	1.43E-02	1.61E-05	2.36E+00	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 17: EMBODIED SO2E & NET SO2E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)		All Films			Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30				
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved				
Asia	North-East China	36"	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	1.40E+01	2.02E-02	2.36E-05	1.11E+01	1.80E-02	2.36E-05	9.34E+00	
		48"	4.17E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	1.40E+01	1.70E-02	1.86E-05	1.11E+01	1.53E-02	1.86E-05	9.35E+00
		60"	4.24E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	1.40E+01	1.50E-02	1.60E-05	1.11E+01	1.37E-02	1.60E-05	9.35E+00
		72"	4.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	1.40E+01	1.50E-02	1.61E-05	1.11E+01	1.50E-02	1.61E-05	9.35E+00
	South-East China	36"	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	1.40E+01	2.02E-02	2.36E-05	1.11E+01	1.80E-02	2.36E-05	9.34E+00
		48"	4.17E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	1.40E+01	1.70E-02	1.86E-05	1.11E+01	1.53E-02	1.86E-05	9.35E+00
		60"	4.24E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	1.40E+01	1.50E-02	1.60E-05	1.11E+01	1.37E-02	1.60E-05	9.35E+00
		72"	4.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	1.40E+01	1.50E-02	1.61E-05	1.11E+01	1.50E-02	1.61E-05	9.35E+00
	India	36"	5.42E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.25E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.34E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.27E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	3.80E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	3.69E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	3.72E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	3.68E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	5.60E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	7.26E+00	1.82E-02	2.36E-05	6.22E+00	1.87E-02	2.36E-05	5.32E+00	1.87E-02	2.36E-05	6.91E+00	2.02E-02	2.36E-05	6.91E+00	2.02E-02	2.36E-05	5.29E+00	1.80E-02	2.36E-05	4.31E+00
		48"	5.41E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	7.27E+00	1.53E-02	1.86E-05	6.23E+00	1.59E-02	1.86E-05	5.32E+00	1.41E-02	1.86E-05	6.91E+00	1.70E-02	1.86E-05	6.91E+00	1.70E-02	1.86E-05	5.29E+00	1.53E-02	1.86E-05	4.32E+00
		60"	5.49E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	7.27E+00	1.37E-02	1.60E-05	6.23E+00	1.42E-02	1.60E-05	5.32E+00	1.27E-02	1.60E-05	6.91E+00	1.50E-02	1.60E-05	6.91E+00	1.50E-02	1.60E-05	5.29E+00	1.37E-02	1.60E-05	4.32E+00
		72"	5.42E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	7.27E+00	1.50E-02	1.61E-05	6.23E+00	1.43E-02	1.61E-05	5.32E+00	1.30E-02	1.61E-05	6.91E+00	1.50E-02	1.61E-05	6.91E+00	1.50E-02	1.61E-05	5.29E+00	1.50E-02	1.61E-05	4.32E+00
	Russia	36"	4.20E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	7.95E-01	2.02E-02	2.36E-05	6.27E-01	1.80E-02	2.36E-05	3.93E-01
		48"	4.04E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	8.00E-01	1.70E-02	1.86E-05	6.30E-01	1.53E-02	1.86E-05	3.96E-01
		60"	4.09E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	8.02E-01	1.50E-02	1.60E-05	6.32E-01	1.37E-02	1.60E-05	3.97E-01
		72"	4.04E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	8.01E-01	1.50E-02	1.61E-05	6.32E-01	1.50E-02	1.61E-05	3.96E-01
	China, Mid-East Coast	36"	4.31E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	1.26E+01	2.02E-02	2.36E-05	9.88E+00	1.80E-02	2.36E-05	8.21E+00
		48"	4.17E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	1.26E+01	1.70E-02	1.86E-05	9.88E+00	1.53E-02	1.86E-05	8.21E+00
		60"	4.24E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	1.26E+01	1.50E-02	1.60E-05	9.88E+00	1.37E-02	1.60E-05	8.21E+00
		72"	4.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	1.26E+01	1.50E-02	1.61E-05	9.88E+00	1.50E-02	1.61E-05	8.21E+00
Turkey	36"	4.77E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	3.71E+00	-	-	-	-	-	-	-	-	-	2.02E-02	2.36E-05	2.97E+00	-	-	-	-	-		
	48"	4.60E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	3.71E+00	-	-	-	-	-	-	-	-	-	1.70E-02	1.86E-05	2.98E+00	-	-	-	-	-		
	60"	4.69E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	3.71E+00	-	-	-	-	-	-	-	-	-	1.50E-02	1.60E-05	2.98E+00	-	-	-	-	-		
	72"	4.61E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	3.71E+00	-	-	-	-	-	-	-	-	-	1.50E-02	1.61E-05	2.98E+00	-	-	-	-	-		

TABLE 18: EMBODIED SO2E & NET SO2E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)		All Films			Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved			
Asia	North-East China	36"	4.31E-03	1.82E-02	2.36E-05	7.92E+00	1.87E-02	2.36E-05	7.16E+00	-	-	-	-	-	-	-	-	1.84E-02	2.36E-05	7.58E+00	1.80E-02	2.36E-05	5.79E+00			
		48"	4.17E-03	1.53E-02	1.86E-05	7.92E+00	1.59E-02	1.86E-05	7.16E+00	-	-	-	-	-	-	-	-	-	1.56E-02	1.86E-05	7.58E+00	1.53E-02	1.86E-05	5.80E+00		
		60"	4.24E-03	1.37E-02	1.60E-05	7.92E+00	1.42E-02	1.60E-05	7.17E+00	-	-	-	-	-	-	-	-	-	1.39E-02	1.60E-05	7.59E+00	1.37E-02	1.60E-05	5.80E+00		
		72"	4.18E-03	1.50E-02	1.61E-05	7.92E+00	1.43E-02	1.61E-05	7.17E+00	-	-	-	-	-	-	-	-	-	1.41E-02	1.61E-05	7.59E+00	1.39E-02	1.61E-05	5.80E+00		
	South-East China	36"	4.31E-03	1.82E-02	2.36E-05	7.92E+00	1.87E-02	2.36E-05	7.16E+00	-	-	-	-	-	-	-	-	-	1.84E-02	2.36E-05	7.58E+00	1.80E-02	2.36E-05	5.79E+00		
		48"	4.17E-03	1.53E-02	1.86E-05	7.92E+00	1.59E-02	1.86E-05	7.16E+00	-	-	-	-	-	-	-	-	-	1.56E-02	1.86E-05	7.58E+00	1.53E-02	1.86E-05	5.80E+00		
		60"	4.24E-03	1.37E-02	1.60E-05	7.92E+00	1.42E-02	1.60E-05	7.17E+00	-	-	-	-	-	-	-	-	-	1.39E-02	1.60E-05	7.59E+00	1.37E-02	1.60E-05	5.80E+00		
		72"	4.18E-03	1.50E-02	1.61E-05	7.92E+00	1.43E-02	1.61E-05	7.17E+00	-	-	-	-	-	-	-	-	-	1.41E-02	1.61E-05	7.59E+00	1.39E-02	1.61E-05	5.80E+00		
	India	36"	5.42E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	3.45E+00	-	-	-	1.80E-02	2.36E-05	1.71E+00
		48"	5.25E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.59E-02	1.86E-05	3.45E+00	-	-	-	1.53E-02	1.86E-05	1.71E+00
		60"	5.34E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.42E-02	1.60E-05	3.45E+00	-	-	-	1.37E-02	1.60E-05	1.72E+00
		72"	5.27E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-02	1.61E-05	3.45E+00	-	-	-	1.39E-02	1.61E-05	1.72E+00
	Japan	36"	3.80E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	2.15E+00	1.92E-02	2.36E-05	1.74E+00	-	-	1.87E-02	2.36E-05	1.51E+00	1.84E-02	2.36E-05	1.12E+00	1.80E-02	2.36E-05	8.55E-01
		48"	3.69E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	2.15E+00	1.62E-02	1.86E-05	1.74E+00	1.59E-02	1.86E-05	1.51E+00	1.56E-02	1.86E-05	1.12E+00	1.53E-02	1.86E-05	8.58E-01		
		60"	3.72E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	2.15E+00	1.44E-02	1.60E-05	1.75E+00	1.42E-02	1.60E-05	1.51E+00	1.39E-02	1.60E-05	1.12E+00	1.37E-02	1.60E-05	8.59E-01		
		72"	3.68E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	2.15E+00	1.45E-02	1.61E-05	1.75E+00	1.43E-02	1.61E-05	1.51E+00	1.41E-02	1.61E-05	1.12E+00	1.39E-02	1.61E-05	8.59E-01		
	Middle East	36"	5.60E-03	1.82E-02	2.36E-05	3.52E+00	1.87E-02	2.36E-05	3.07E+00	2.02E-02	2.36E-05	6.88E+00	1.92E-02	2.36E-05	5.35E+00	1.87E-02	2.36E-05	4.54E+00	1.84E-02	2.36E-05	3.12E+00	1.80E-02	2.36E-05	2.24E+00		
		48"	5.41E-03	1.53E-02	1.86E-05	3.52E+00	1.59E-02	1.86E-05	3.08E+00	1.70E-02	1.86E-05	6.89E+00	1.62E-02	1.86E-05	5.35E+00	1.59E-02	1.86E-05	4.54E+00	1.56E-02	1.86E-05	3.13E+00	1.53E-02	1.86E-05	2.24E+00		
		60"	5.49E-03	1.37E-02	1.60E-05	3.52E+00	1.42E-02	1.60E-05	3.08E+00	1.50E-02	1.60E-05	6.89E+00	1.44E-02	1.60E-05	5.35E+00	1.42E-02	1.60E-05	4.54E+00	1.39E-02	1.60E-05	3.13E+00	1.37E-02	1.60E-05	2.24E+00		
		72"	5.42E-03	1.50E-02	1.61E-05	3.52E+00	1.43E-02	1.61E-05	3.08E+00	1.50E-02	1.61E-05	6.89E+00	1.45E-02	1.61E-05	5.35E+00	1.43E-02	1.61E-05	4.54E+00	1.41E-02	1.61E-05	3.13E+00	1.39E-02	1.61E-05	2.24E+00		
	Russia	36"	4.20E-03	1.82E-02	2.36E-05	3.43E-01	1.87E-02	2.36E-05	2.90E-01	2.02E-02	2.36E-05	5.80E-01	1.92E-02	2.36E-05	4.88E-01	-	-	-	1.84E-02	2.36E-05	3.26E-01	1.80E-02	2.36E-05	2.65E-01		
		48"	4.04E-03	1.53E-02	1.86E-05	3.46E-01	1.59E-02	1.86E-05	2.93E-01	1.70E-02	1.86E-05	5.83E-01	1.62E-02	1.86E-05	4.92E-01	-	-	-	1.56E-02	1.86E-05	3.29E-01	1.53E-02	1.86E-05	2.67E-01		
		60"	4.09E-03	1.37E-02	1.60E-05	3.48E-01	1.42E-02	1.60E-05	2.95E-01	1.50E-02	1.60E-05	5.85E-01	1.44E-02	1.60E-05	4.93E-01	-	-	-	1.39E-02	1.60E-05	3.31E-01	1.37E-02	1.60E-05	2.69E-01		
		72"	4.04E-03	1.50E-02	1.61E-05	3.46E-01	1.43E-02	1.61E-05	2.95E-01	1.50E-02	1.61E-05	5.85E-01	1.45E-02	1.61E-05	4.93E-01	-	-	-	1.41E-02	1.61E-05	3.31E-01	1.39E-02	1.61E-05	2.69E-01		
	China, Mid-East Coast	36"	4.31E-03	1.82E-02	2.36E-05	6.75E+00	1.87E-02	2.36E-05	5.97E+00	-	-	-	-	-	-	-	-	-	1.84E-02	2.36E-05	5.99E+00	1.80E-02	2.36E-05	4.28E+00		
		48"	4.17E-03	1.53E-02	1.86E-05	6.75E+00	1.59E-02	1.86E-05	5.97E+00	-	-	-	-	-	-	-	-	-	1.56E-02	1.86E-05	5.99E+00	1.53E-02	1.86E-05	4.28E+00		
		60"	4.24E-03	1.37E-02	1.60E-05	6.75E+00	1.42E-02	1.60E-05	5.97E+00	-	-	-	-	-	-	-	-	-	1.39E-02	1.60E-05	5.99E+00	1.37E-02	1.60E-05	4.28E+00		
		72"	4.18E-03	1.50E-02	1.61E-05	6.75E+00	1.43E-02	1.61E-05	5.97E+00	-	-	-	-	-	-	-	-	-	1.41E-02	1.61E-05	5.99E+00	1.39E-02	1.61E-05	4.28E+00		
Turkey	36"	4.77E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	2.57E+00	1.84E-02	2.36E-05	1.95E+00	-	-	-	
	48"	4.60E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.59E-02	1.86E-05	2.58E+00	1.56E-02	1.86E-05	1.96E+00	-	-	-	
	60"	4.69E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.42E-02	1.60E-05	2.58E+00	1.39E-02	1.60E-05	1.96E+00	-	-	-	
	72"	4.61E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-02	1.61E-05	2.58E+00	1.41E-02	1.61E-05	1.96E+00	-	-	-	

TABLE 19: EMBODIED SO2E & NET SO2E SAVINGS IN THE SOUTHERN HEMISPHERE

15 Year Lifecycle (kg SO2e / Meter^2)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved
Southern Hemisphere	Southern Africa	36"	6.64E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.43E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.09E-02	1.86E-05	4.33E+00	-	-	-
		60"	6.57E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20E-02	1.60E-05	4.33E+00	-	-	-
		72"	6.46E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	4.09E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	1.30E+00	1.87E-02	2.36E-05	1.37E+00	-	-	-	1.87E-02	2.36E-05	1.36E+00	-	-	-	1.87E-02	2.36E-05	1.41E+00
		48"	3.93E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	1.31E+00	1.41E-02	1.86E-05	1.38E+00	-	-	-	1.41E-02	1.86E-05	1.37E+00	5.09E-02	1.86E-05	9.48E-01	1.41E-02	1.86E-05	1.41E+00
		60"	3.98E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	1.31E+00	1.27E-02	1.60E-05	1.38E+00	-	-	-	1.27E-02	1.60E-05	1.37E+00	4.20E-02	1.60E-05	9.56E-01	1.27E-02	1.60E-05	1.41E+00
		72"	3.95E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	1.41E+00
	Australia	36"	5.35E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.19E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.27E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.20E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Brazil	36"	3.84E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	5.19E-01	1.87E-02	2.36E-05	5.47E-01	-	-	-	1.87E-02	2.36E-05	5.50E-01	-	-	-	1.87E-02	2.36E-05	5.69E-01
		48"	3.68E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	5.22E-01	1.41E-02	1.86E-05	5.52E-01	-	-	-	1.41E-02	1.86E-05	5.55E-01	5.09E-02	1.86E-05	3.64E-01	1.41E-02	1.86E-05	5.74E-01
		60"	3.79E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	5.24E-01	1.27E-02	1.60E-05	5.53E-01	-	-	-	1.27E-02	1.60E-05	5.56E-01	4.20E-02	1.60E-05	3.73E-01	1.27E-02	1.60E-05	5.76E-01
		72"	3.71E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	5.75E-01

TABLE 20: EMBODIED SO2E & NET SO2E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg SO2e / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30				
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	
Southern Hemisphere	Southern Africa	36"	6.64E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	6.43E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	6.57E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.46E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	4.09E-03	2.02E-02	2.36E-05	1.20E+00	-	-	-	-	-	-	-	-	-	-	-	-	2.43E-02	3.03E-05	1.42E+00	2.29E-02	3.03E-05	1.20E+00	-	-	-	
		48"	3.93E-03	1.70E-02	1.86E-05	1.20E+00	-	-	-	-	-	-	-	-	-	-	-	-	2.01E-02	2.37E-05	1.42E+00	1.90E-02	2.37E-05	1.20E+00	-	-	-	
		60"	3.98E-03	1.50E-02	1.60E-05	1.20E+00	-	-	-	-	-	-	-	-	-	-	-	-	1.75E-02	2.00E-05	1.43E+00	1.66E-02	2.00E-05	1.20E+00	-	-	-	
		72"	3.95E-03	1.50E-02	1.61E-05	1.20E+00	-	-	-	-	-	-	-	-	-	-	-	-	1.64E-02	1.73E-05	1.43E+00	1.56E-02	1.73E-05	1.20E+00	-	-	-	
	Australia	36"	5.35E-03	-	-	-	2.02E-02	2.36E-05	5.26E+00	1.82E-02	2.36E-05	4.53E+00	-	-	-	-	-	-	2.43E-02	3.03E-05	5.86E+00	2.29E-02	3.03E-05	5.07E+00	-	-	-	
		48"	5.19E-03	-	-	-	1.70E-02	1.86E-05	5.26E+00	1.53E-02	1.86E-05	4.53E+00	-	-	-	-	-	-	2.01E-02	2.37E-05	5.86E+00	1.90E-02	2.37E-05	5.07E+00	-	-	-	
		60"	5.27E-03	-	-	-	1.50E-02	1.60E-05	5.26E+00	1.37E-02	1.60E-05	4.53E+00	-	-	-	-	-	-	1.75E-02	2.00E-05	5.87E+00	1.66E-02	2.00E-05	5.07E+00	-	-	-	
		72"	5.20E-03	-	-	-	1.50E-02	1.61E-05	5.26E+00	1.50E-02	1.61E-05	4.53E+00	-	-	-	-	-	-	1.64E-02	1.73E-05	5.87E+00	1.56E-02	1.73E-05	5.07E+00	-	-	-	
Brazil	36"	3.84E-03	-	-	-	2.02E-02	2.36E-05	5.95E-01	-	-	-	-	-	-	-	-	-	2.43E-02	3.03E-05	5.68E-01	-	-	-	-	-	-		
	48"	3.68E-03	-	-	-	1.70E-02	1.86E-05	5.98E-01	-	-	-	-	-	-	-	-	-	2.01E-02	2.37E-05	5.72E-01	-	-	-	-	-	-		
	60"	3.79E-03	-	-	-	1.50E-02	1.60E-05	6.00E-01	-	-	-	-	-	-	-	-	-	1.75E-02	2.00E-05	5.75E-01	-	-	-	-	-	-		
	72"	3.71E-03	-	-	-	1.50E-02	1.61E-05	6.00E-01	-	-	-	-	-	-	-	-	-	1.64E-02	1.73E-05	5.76E-01	-	-	-	-	-	-		

TABLE 21: EMBODIED SO2E & NET SO2E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg SO2e / Meter^2)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30					
			Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved		
Southern Hemisphere	Southern Africa	36"	6.64E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.02E-02	2.36E-05	5.39E+00	-	-	-			
		48"	6.43E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70E-02	1.86E-05	5.40E+00	-	-	-		
		60"	6.57E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-02	1.60E-05	5.40E+00	-	-	-		
		72"	6.46E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-02	1.61E-05	5.40E+00	-	-	-		
	Argentina	36"	4.09E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	1.47E+00	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	1.48E+00	2.02E-02	2.36E-05	1.23E+00	1.80E-02	2.36E-05	9.92E-01
		48"	3.93E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	1.47E+00	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	1.48E+00	1.70E-02	1.86E-05	1.23E+00	1.53E-02	1.86E-05	9.95E-01
		60"	3.98E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	1.47E+00	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	1.49E+00	1.50E-02	1.60E-05	1.23E+00	1.37E-02	1.60E-05	9.97E-01
		72"	3.95E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	1.47E+00	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	1.49E+00	1.50E-02	1.61E-05	1.23E+00	1.50E-02	1.61E-05	9.95E-01
	Australia	36"	5.35E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	5.65E+00	1.82E-02	2.36E-05	4.92E+00	-	-	-	-	-	-	2.02E-02	2.36E-05	4.36E+00	-	-	-		
		48"	5.19E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	5.65E+00	1.53E-02	1.86E-05	4.93E+00	-	-	-	-	-	-	1.70E-02	1.86E-05	4.36E+00	-	-	-		
		60"	5.27E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	5.66E+00	1.37E-02	1.60E-05	4.93E+00	-	-	-	-	-	-	1.50E-02	1.60E-05	4.36E+00	-	-	-		
		72"	5.20E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	5.66E+00	1.50E-02	1.61E-05	4.93E+00	-	-	-	-	-	-	1.50E-02	1.61E-05	4.36E+00	-	-	-		
Brazil	36"	3.84E-03	-	-	-	-	-	-	2.02E-02	2.36E-05	5.99E-01	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	6.00E-01	2.02E-02	2.36E-05	4.88E-01	1.80E-02	2.36E-05	3.93E-01	
	48"	3.68E-03	-	-	-	-	-	-	1.70E-02	1.86E-05	6.03E-01	-	-	-	-	-	-	-	-	1.41E-02	1.86E-05	6.05E-01	1.70E-02	1.86E-05	4.91E-01	1.53E-02	1.86E-05	3.96E-01	
	60"	3.79E-03	-	-	-	-	-	-	1.50E-02	1.60E-05	6.05E-01	-	-	-	-	-	-	-	-	1.27E-02	1.60E-05	6.06E-01	1.50E-02	1.60E-05	4.93E-01	1.37E-02	1.60E-05	3.98E-01	
	72"	3.71E-03	-	-	-	-	-	-	1.50E-02	1.61E-05	6.05E-01	-	-	-	-	-	-	-	-	1.30E-02	1.61E-05	6.06E-01	1.50E-02	1.61E-05	4.93E-01	1.50E-02	1.61E-05	3.97E-01	

TABLE 22: EMBODIED SO2E & NET SO2E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg SO2e / Meter^2)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70				
		Transportation to Customer	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved	Manufacturing	End-of-Life	Net SO2e Saved		
Southern Hemisphere	Southern Africa	36"	6.64E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	6.43E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	6.57E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.46E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	4.09E-03	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	1.05E+00	-	-	-	1.80E-02	2.36E-05	5.15E-01	-	-
		48"	3.93E-03	-	-	-	-	-	-	-	-	-	-	-	1.59E-02	1.86E-05	1.05E+00	-	-	-	1.53E-02	1.86E-05	5.18E-01	-	-
		60"	3.98E-03	-	-	-	-	-	-	-	-	-	-	-	1.42E-02	1.60E-05	1.05E+00	-	-	-	1.37E-02	1.60E-05	5.19E-01	-	-
		72"	3.95E-03	-	-	-	-	-	-	-	-	-	-	-	1.43E-02	1.61E-05	1.05E+00	-	-	-	1.39E-02	1.61E-05	5.19E-01	-	-
	Australia	36"	5.35E-03	1.82E-02	2.36E-05	3.01E+00	1.87E-02	2.36E-05	2.66E+00	2.02E-02	2.36E-05	5.44E+00	1.92E-02	2.36E-05	4.31E+00	1.87E-02	2.36E-05	3.64E+00	1.84E-02	2.36E-05	2.60E+00	1.80E-02	2.36E-05	1.84E+00	-
		48"	5.19E-03	1.53E-02	1.86E-05	3.01E+00	1.59E-02	1.86E-05	2.66E+00	1.70E-02	1.86E-05	5.45E+00	1.62E-02	1.86E-05	4.31E+00	1.59E-02	1.86E-05	3.65E+00	1.56E-02	1.86E-05	2.60E+00	1.53E-02	1.86E-05	1.84E+00	-
		60"	5.27E-03	1.37E-02	1.60E-05	3.01E+00	1.42E-02	1.60E-05	2.66E+00	1.50E-02	1.60E-05	5.45E+00	1.44E-02	1.60E-05	4.31E+00	1.42E-02	1.60E-05	3.65E+00	1.39E-02	1.60E-05	2.60E+00	1.37E-02	1.60E-05	1.84E+00	-
		72"	5.20E-03	1.50E-02	1.61E-05	3.01E+00	1.43E-02	1.61E-05	2.66E+00	1.50E-02	1.61E-05	5.45E+00	1.45E-02	1.61E-05	4.31E+00	1.43E-02	1.61E-05	3.65E+00	1.41E-02	1.61E-05	2.60E+00	1.39E-02	1.61E-05	1.84E+00	-
	Brazil	36"	3.84E-03	-	-	-	-	-	-	-	-	-	-	-	1.87E-02	2.36E-05	4.57E-01	-	-	-	1.80E-02	2.36E-05	2.03E-01	-	-
		48"	3.68E-03	-	-	-	-	-	-	-	-	-	-	-	1.59E-02	1.86E-05	4.61E-01	-	-	-	1.53E-02	1.86E-05	2.06E-01	-	-
		60"	3.79E-03	-	-	-	-	-	-	-	-	-	-	-	1.42E-02	1.60E-05	4.62E-01	-	-	-	1.37E-02	1.60E-05	2.08E-01	-	-
		72"	3.71E-03	-	-	-	-	-	-	-	-	-	-	-	1.43E-02	1.61E-05	4.62E-01	-	-	-	1.39E-02	1.61E-05	2.08E-01	-	-

EUTROPHICATION:

Tables 23 to 38 below show the PO₄e emissions embodied in one m² of film, and the eutrophication reductions in kg of PO₄e for all the types of window films sold in each of the 24 geographic regions where SGSG window films are distributed.

TABLE 23: EMBODIED PO4E & NET PO4E SAVINGS IN NORTH AMERICA

15 Year Lifecycle (kg PO4e / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			Highlite 70			Quantum Silver Quantum 10				
		Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved		
North America	ASHRAE Climate Zone 1,2	36"	6.78E-05	1.13E-03	3.17E-04	2.68E-01	1.15E-03	3.17E-04	4.39E-01	1.26E-03	3.17E-04	3.60E-01	1.15E-03	3.17E-04	3.89E-01	1.15E-03	3.17E-04	4.14E-01	1.15E-03	3.17E-04	3.86E-01	-	-	-	1.15E-03	3.17E-04	4.06E-01	
		48"	5.52E-05	9.36E-04	2.54E-04	2.69E-01	9.46E-04	2.54E-04	4.39E-01	9.72E-04	2.54E-04	3.61E-01	7.49E-04	2.54E-04	3.89E-01	9.46E-04	2.54E-04	4.14E-01	7.49E-04	2.54E-04	3.86E-01	3.72E-03	2.54E-04	2.71E-01	7.49E-04	2.54E-04	4.06E-01	
		60"	4.82E-05	8.20E-04	2.20E-04	2.69E-01	8.28E-04	2.20E-04	4.39E-01	8.93E-04	2.20E-04	3.61E-01	7.68E-04	2.20E-04	3.89E-01	8.28E-04	2.20E-04	4.14E-01	7.68E-04	2.20E-04	3.86E-01	3.06E-03	2.20E-04	2.72E-01	7.68E-04	2.20E-04	4.06E-01	
	ASHRAE Climate Zone 3	72"	4.97E-05	1.04E-03	2.22E-04	2.69E-01	-	-	-	8.75E-04	2.22E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	4.06E-01	
		36"	6.78E-05	1.13E-03	3.17E-04	3.40E-01	1.15E-03	3.17E-04	5.49E-01	1.26E-03	3.17E-04	4.55E-01	1.15E-03	3.17E-04	4.89E-01	1.15E-03	3.17E-04	5.20E-01	1.15E-03	3.17E-04	4.90E-01	-	-	-	1.15E-03	3.17E-04	5.14E-01	
		48"	5.52E-05	9.36E-04	2.54E-04	3.41E-01	9.46E-04	2.54E-04	5.50E-01	9.72E-04	2.54E-04	4.56E-01	7.49E-04	2.54E-04	4.89E-01	9.46E-04	2.54E-04	5.20E-01	7.49E-04	2.54E-04	4.90E-01	3.72E-03	2.54E-04	3.42E-01	7.49E-04	2.54E-04	5.14E-01	
	ASHRAE Climate Zone 4	60"	4.82E-05	8.20E-04	2.20E-04	3.41E-01	8.28E-04	2.20E-04	5.50E-01	8.93E-04	2.20E-04	4.56E-01	7.68E-04	2.20E-04	4.89E-01	8.28E-04	2.20E-04	5.20E-01	7.68E-04	2.20E-04	4.90E-01	3.06E-03	2.20E-04	3.43E-01	7.68E-04	2.20E-04	5.14E-01	
		72"	4.97E-05	1.04E-03	2.22E-04	3.40E-01	-	-	-	8.75E-04	2.22E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	5.14E-01
		36"	6.78E-05	1.13E-03	3.17E-04	1.59E-01	1.15E-03	3.17E-04	2.50E-01	1.26E-03	3.17E-04	2.29E-01	1.15E-03	3.17E-04	2.25E-01	1.15E-03	3.17E-04	2.37E-01	1.15E-03	3.17E-04	2.23E-01	-	-	-	1.15E-03	3.17E-04	2.34E-01	
	ASHRAE Climate Zone 5	48"	5.52E-05	9.36E-04	2.54E-04	1.60E-01	9.46E-04	2.54E-04	2.50E-01	9.72E-04	2.54E-04	2.29E-01	7.49E-04	2.54E-04	2.25E-01	9.46E-04	2.54E-04	2.38E-01	7.49E-04	2.54E-04	2.24E-01	3.72E-03	2.54E-04	1.58E-01	7.49E-04	2.54E-04	2.34E-01	
		60"	4.82E-05	8.20E-04	2.20E-04	1.60E-01	8.28E-04	2.20E-04	2.50E-01	8.93E-04	2.20E-04	2.29E-01	7.68E-04	2.20E-04	2.25E-01	8.28E-04	2.20E-04	2.38E-01	7.68E-04	2.20E-04	2.24E-01	3.06E-03	2.20E-04	1.59E-01	7.68E-04	2.20E-04	2.34E-01	
		72"	4.97E-05	1.04E-03	2.22E-04	1.60E-01	-	-	-	8.75E-04	2.22E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	2.34E-01
	ASHRAE Climate Zone 6,7	36"	6.78E-05	1.13E-03	3.17E-04	1.90E-01	1.15E-03	3.17E-04	1.95E-01	1.26E-03	3.17E-04	1.63E-01	1.15E-03	3.17E-04	1.71E-01	1.15E-03	3.17E-04	1.81E-01	1.15E-03	3.17E-04	1.69E-01	-	-	-	1.15E-03	3.17E-04	1.72E-01	
		48"	5.52E-05	9.36E-04	2.54E-04	1.91E-01	9.46E-04	2.54E-04	1.95E-01	9.72E-04	2.54E-04	1.63E-01	7.49E-04	2.54E-04	1.72E-01	9.46E-04	2.54E-04	1.82E-01	7.49E-04	2.54E-04	1.69E-01	3.72E-03	2.54E-04	1.44E-01	7.49E-04	2.54E-04	1.73E-01	
		60"	4.82E-05	8.20E-04	2.20E-04	1.91E-01	8.28E-04	2.20E-04	1.95E-01	8.93E-04	2.20E-04	1.63E-01	7.68E-04	2.20E-04	1.72E-01	8.28E-04	2.20E-04	1.82E-01	7.68E-04	2.20E-04	1.69E-01	3.06E-03	2.20E-04	1.45E-01	7.68E-04	2.20E-04	1.73E-01	
	Canada	72"	4.97E-05	1.04E-03	2.22E-04	1.91E-01	-	-	-	8.75E-04	2.22E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	1.73E-01
		36"	1.13E-04	1.13E-03	3.17E-04	2.98E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	9.96E-05	9.36E-04	2.54E-04	3.00E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.72E-03	2.54E-04	2.32E-02	-	-	-	
	Mexico	60"	9.39E-05	8.20E-04	2.20E-04	3.02E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.06E-03	2.20E-04	2.39E-02	-	-	-	
		72"	9.44E-05	1.04E-03	2.22E-04	3.00E-02	-	-	-	8.75E-04	2.22E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		36"	6.71E-05	-	-	-	1.15E-03	3.17E-04	2.69E-01	1.26E-03	3.17E-04	2.25E-01	-	-	-	1.15E-03	3.17E-04	2.55E-01	1.15E-03	3.17E-04	2.44E-01	-	-	-	-	-	-	
	Mexico	48"	5.44E-05	-	-	-	9.46E-04	2.54E-04	2.70E-01	9.72E-04	2.54E-04	2.25E-01	-	-	-	9.46E-04	2.54E-04	2.55E-01	7.49E-04	2.54E-04	2.45E-01	3.72E-03	2.54E-04	1.67E-01	-	-	-	
		60"	4.78E-05	-	-	-	8.28E-04	2.20E-04	2.70E-01	8.93E-04	2.20E-04	2.25E-01	-	-	-	8.28E-04	2.20E-04	2.55E-01	7.68E-04	2.20E-04	2.45E-01	3.06E-03	2.20E-04	1.68E-01	-	-	-	
	Mexico	72"	4.88E-05	-	-	-	-	-	-	8.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 24: EMBODIED PO4E & NET PO4E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)			All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved
North America	ASHRAE Climate Zone 1,2	36"	6.78E-05	1.26E-03	3.17E-04	3.10E-01	1.26E-03	3.17E-04	4.11E-01	1.13E-03	3.17E-04	3.50E-01	1.18E-03	3.17E-04	2.48E-01	1.29E-03	3.17E-04	4.21E-01	1.40E-03	4.02E-04	4.60E-01	1.33E-03	4.02E-04	3.90E-01	1.30E-03	4.02E-04	3.41E-01
		48"	5.52E-05	9.72E-04	2.54E-04	3.11E-01	9.72E-04	2.54E-04	4.11E-01	9.36E-04	2.54E-04	3.50E-01	9.71E-04	2.54E-04	2.48E-01	1.05E-03	2.54E-04	4.22E-01	1.13E-03	5.06E-04	4.60E-01	1.08E-03	5.06E-04	3.90E-01	1.06E-03	5.06E-04	3.41E-01
		72"	4.97E-05	8.75E-04	2.22E-04	3.11E-01	8.75E-04	2.22E-04	4.11E-01	1.04E-03	2.22E-04	3.50E-01	8.35E-04	2.22E-04	2.48E-01	-	-	-	9.32E-04	2.37E-04	4.61E-01	8.96E-04	2.37E-04	3.91E-01	8.80E-04	2.37E-04	3.41E-01
	ASHRAE Climate Zone 3	36"	6.78E-05	1.26E-03	3.17E-04	3.96E-01	1.26E-03	3.17E-04	5.22E-01	1.13E-03	3.17E-04	4.41E-01	1.18E-03	3.17E-04	4.14E-01	1.29E-03	3.17E-04	5.10E-01	1.40E-03	4.02E-04	5.79E-01	1.33E-03	4.02E-04	4.95E-01	1.30E-03	4.02E-04	4.34E-01
		48"	5.52E-05	9.72E-04	2.54E-04	3.96E-01	9.72E-04	2.54E-04	5.22E-01	9.36E-04	2.54E-04	4.41E-01	9.71E-04	2.54E-04	4.14E-01	1.05E-03	2.54E-04	5.10E-01	1.13E-03	5.06E-04	5.79E-01	1.08E-03	5.06E-04	4.95E-01	1.06E-03	5.06E-04	4.34E-01
		72"	4.97E-05	8.75E-04	2.22E-04	3.96E-01	8.75E-04	2.22E-04	5.22E-01	8.20E-04	2.20E-04	4.41E-01	7.77E-04	2.20E-04	4.14E-01	9.12E-04	2.20E-04	5.10E-01	9.79E-04	2.71E-04	5.79E-01	9.36E-04	2.71E-04	4.96E-01	9.19E-04	2.71E-04	4.34E-01
	ASHRAE Climate Zone 4	36"	6.78E-05	1.26E-03	3.17E-04	1.83E-01	1.26E-03	3.17E-04	2.35E-01	1.13E-03	3.17E-04	2.04E-01	1.18E-03	3.17E-04	1.47E-01	1.29E-03	3.17E-04	2.40E-01	1.40E-03	4.02E-04	2.60E-01	1.33E-03	4.02E-04	2.38E-01	1.30E-03	4.02E-04	2.14E-01
		48"	5.52E-05	9.72E-04	2.54E-04	1.84E-01	9.72E-04	2.54E-04	2.36E-01	9.36E-04	2.54E-04	2.04E-01	9.71E-04	2.54E-04	1.48E-01	1.05E-03	2.54E-04	2.40E-01	1.13E-03	5.06E-04	2.60E-01	1.08E-03	5.06E-04	2.38E-01	1.06E-03	5.06E-04	2.14E-01
		72"	4.97E-05	8.75E-04	2.22E-04	1.84E-01	8.75E-04	2.22E-04	2.36E-01	8.20E-04	2.20E-04	2.05E-01	7.77E-04	2.20E-04	1.48E-01	9.12E-04	2.20E-04	2.40E-01	9.79E-04	2.71E-04	2.60E-01	9.36E-04	2.71E-04	2.38E-01	9.19E-04	2.71E-04	2.14E-01
	ASHRAE Climate Zone 5	36"	6.78E-05	1.26E-03	3.17E-04	1.31E-01	1.26E-03	3.17E-04	2.10E-01	1.13E-03	3.17E-04	1.71E-01	1.18E-03	3.17E-04	1.31E-01	1.29E-03	3.17E-04	1.98E-01	1.40E-03	4.02E-04	2.07E-01	1.33E-03	4.02E-04	1.80E-01	1.30E-03	4.02E-04	1.60E-01
		48"	5.52E-05	9.72E-04	2.54E-04	1.32E-01	9.72E-04	2.54E-04	2.11E-01	9.36E-04	2.54E-04	1.71E-01	9.71E-04	2.54E-04	1.31E-01	1.05E-03	2.54E-04	1.98E-01	1.13E-03	5.06E-04	2.07E-01	1.08E-03	5.06E-04	1.80E-01	1.06E-03	5.06E-04	1.60E-01
		72"	4.97E-05	8.75E-04	2.22E-04	1.32E-01	8.75E-04	2.22E-04	2.11E-01	8.20E-04	2.20E-04	1.72E-01	7.77E-04	2.20E-04	1.31E-01	9.12E-04	2.20E-04	1.98E-01	9.79E-04	2.71E-04	2.07E-01	9.36E-04	2.71E-04	1.80E-01	9.19E-04	2.71E-04	1.61E-01
	ASHRAE Climate Zone 6,7	36"	6.78E-05	1.26E-03	3.17E-04	1.26E-01	1.26E-03	3.17E-04	2.05E-01	1.13E-03	3.17E-04	1.66E-01	1.18E-03	3.17E-04	1.26E-01	1.29E-03	3.17E-04	1.93E-01	1.40E-03	4.02E-04	2.01E-01	1.33E-03	4.02E-04	1.74E-01	1.30E-03	4.02E-04	1.55E-01
		48"	5.52E-05	9.72E-04	2.54E-04	1.26E-01	9.72E-04	2.54E-04	2.05E-01	9.36E-04	2.54E-04	1.66E-01	9.71E-04	2.54E-04	1.26E-01	1.05E-03	2.54E-04	1.93E-01	1.13E-03	5.06E-04	2.01E-01	1.08E-03	5.06E-04	1.74E-01	1.06E-03	5.06E-04	1.55E-01
		72"	4.97E-05	8.75E-04	2.22E-04	1.27E-01	8.75E-04	2.22E-04	2.05E-01	8.20E-04	2.20E-04	1.66E-01	7.77E-04	2.20E-04	1.26E-01	9.12E-04	2.20E-04	1.93E-01	9.79E-04	2.71E-04	2.01E-01	9.36E-04	2.71E-04	1.74E-01	9.19E-04	2.71E-04	1.55E-01
	Canada	36"	1.13E-04	-	-	-	1.26E-03	3.17E-04	3.41E-02	1.13E-03	3.17E-04	2.97E-02	1.18E-03	3.17E-04	2.35E-02	1.29E-03	3.17E-04	3.71E-02	1.40E-03	4.02E-04	3.27E-02	1.33E-03	4.02E-04	2.96E-02	1.30E-03	4.02E-04	2.74E-02
		48"	9.96E-05	-	-	-	9.72E-04	2.54E-04	3.45E-02	9.36E-04	2.54E-04	3.00E-02	9.71E-04	2.54E-04	2.38E-02	1.05E-03	2.54E-04	3.74E-02	1.13E-03	5.06E-04	3.29E-02	1.08E-03	5.06E-04	2.98E-02	1.06E-03	5.06E-04	2.76E-02
		72"	9.44E-05	-	-	-	8.75E-04	2.22E-04	3.46E-02	8.20E-04	2.20E-04	3.01E-02	7.77E-04	2.20E-04	2.40E-02	9.12E-04	2.20E-04	3.76E-02	9.79E-04	2.71E-04	3.33E-02	9.36E-04	2.71E-04	3.02E-02	9.19E-04	2.71E-04	2.80E-02
	Mexico	36"	6.71E-05	-	-	-	1.26E-03	3.17E-04	2.51E-01	1.13E-03	3.17E-04	2.16E-01	1.18E-03	3.17E-04	1.59E-01	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.44E-05	-	-	-	9.72E-04	2.54E-04	2.52E-01	9.36E-04	2.54E-04	2.16E-01	9.71E-04	2.54E-04	1.59E-01	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.78E-05	-	-	-	8.93E-04	2.20E-04	2.52E-01	8.20E-04	2.20E-04	2.16E-01	7.77E-04	2.20E-04	1.60E-01	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 25: EMBODIED PO4E & NET PO4E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg PO4e / Meter^2)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved
North America	ASHRAE Climate Zone 1,2	36"	5.52E-05	1.27E-03	4.02E-04	2.66E-01	1.18E-03	3.17E-04	2.66E-01	1.26E-03	3.17E-04	4.47E-01	1.13E-03	3.17E-04	3.86E-01	1.18E-03	3.17E-04	3.28E-01	1.15E-03	3.17E-04	4.29E-01	1.26E-03	3.17E-04	3.31E-01	1.13E-03	3.17E-04	2.71E-01
		48"	4.82E-05	1.04E-03	5.06E-04	2.66E-01	9.71E-04	2.54E-04	2.66E-01	9.72E-04	2.54E-04	4.48E-01	9.36E-04	2.54E-04	3.87E-01	9.71E-04	2.54E-04	3.29E-01	7.49E-04	2.54E-04	4.29E-01	9.72E-04	2.54E-04	3.31E-01	9.36E-04	2.54E-04	2.72E-01
		60"	4.97E-05	8.99E-04	2.71E-04	2.66E-01	7.77E-04	2.20E-04	2.66E-01	8.93E-04	2.20E-04	4.48E-01	8.20E-04	2.20E-04	3.87E-01	7.77E-04	2.20E-04	3.29E-01	7.68E-04	2.20E-04	4.29E-01	8.93E-04	2.20E-04	3.31E-01	8.20E-04	2.20E-04	2.72E-01
	ASHRAE Climate Zone 3	36"	5.52E-05	1.27E-03	4.02E-04	3.39E-01	1.18E-03	3.17E-04	3.39E-01	1.26E-03	3.17E-04	5.57E-01	1.13E-03	3.17E-04	4.82E-01	1.18E-03	3.17E-04	4.14E-01	1.15E-03	3.17E-04	5.40E-01	1.26E-03	3.17E-04	4.22E-01	1.13E-03	3.17E-04	3.54E-01
		48"	4.82E-05	1.04E-03	5.06E-04	3.39E-01	9.71E-04	2.54E-04	3.39E-01	9.72E-04	2.54E-04	5.58E-01	9.36E-04	2.54E-04	4.82E-01	9.71E-04	2.54E-04	4.14E-01	7.49E-04	2.54E-04	5.40E-01	9.72E-04	2.54E-04	4.22E-01	9.36E-04	2.54E-04	3.54E-01
		60"	4.97E-05	8.99E-04	2.71E-04	3.39E-01	7.77E-04	2.20E-04	3.39E-01	8.93E-04	2.20E-04	5.58E-01	8.20E-04	2.20E-04	4.82E-01	7.77E-04	2.20E-04	4.14E-01	7.68E-04	2.20E-04	5.40E-01	8.93E-04	2.20E-04	4.22E-01	8.20E-04	2.20E-04	3.55E-01
	ASHRAE Climate Zone 4	36"	5.52E-05	1.27E-03	4.02E-04	1.57E-01	1.18E-03	3.17E-04	1.58E-01	1.26E-03	3.17E-04	2.53E-01	1.13E-03	3.17E-04	2.22E-01	1.18E-03	3.17E-04	1.92E-01	1.15E-03	3.17E-04	2.45E-01	1.26E-03	3.17E-04	1.94E-01	1.13E-03	3.17E-04	1.61E-01
		48"	4.82E-05	1.04E-03	5.06E-04	1.57E-01	9.71E-04	2.54E-04	1.58E-01	9.72E-04	2.54E-04	2.54E-01	9.36E-04	2.54E-04	2.22E-01	9.71E-04	2.54E-04	1.92E-01	7.49E-04	2.54E-04	2.45E-01	9.72E-04	2.54E-04	1.94E-01	9.36E-04	2.54E-04	1.62E-01
		60"	4.97E-05	8.99E-04	2.71E-04	1.58E-01	7.77E-04	2.20E-04	1.58E-01	8.93E-04	2.20E-04	2.54E-01	8.20E-04	2.20E-04	2.22E-01	7.77E-04	2.20E-04	1.92E-01	7.68E-04	2.20E-04	2.45E-01	8.93E-04	2.20E-04	1.94E-01	8.20E-04	2.20E-04	1.62E-01
	ASHRAE Climate Zone 5	36"	5.52E-05	1.27E-03	4.02E-04	1.33E-01	1.18E-03	3.17E-04	1.36E-01	1.26E-03	3.17E-04	2.07E-01	1.13E-03	3.17E-04	1.86E-01	1.18E-03	3.17E-04	1.66E-01	1.15E-03	3.17E-04	1.90E-01	1.26E-03	3.17E-04	1.52E-01	1.13E-03	3.17E-04	1.31E-01
		48"	4.82E-05	1.04E-03	5.06E-04	1.33E-01	9.71E-04	2.54E-04	1.36E-01	9.72E-04	2.54E-04	2.08E-01	9.36E-04	2.54E-04	1.86E-01	9.71E-04	2.54E-04	1.66E-01	7.49E-04	2.54E-04	1.91E-01	9.72E-04	2.54E-04	1.53E-01	9.36E-04	2.54E-04	1.31E-01
		60"	4.97E-05	8.99E-04	2.71E-04	1.34E-01	7.77E-04	2.20E-04	1.36E-01	8.93E-04	2.20E-04	2.08E-01	8.20E-04	2.20E-04	1.86E-01	7.77E-04	2.20E-04	1.66E-01	7.68E-04	2.20E-04	1.91E-01	8.93E-04	2.20E-04	1.53E-01	8.20E-04	2.20E-04	1.31E-01
	ASHRAE Climate Zone 6,7	36"	5.52E-05	1.27E-03	4.02E-04	1.28E-01	1.18E-03	3.17E-04	1.31E-01	1.26E-03	3.17E-04	2.02E-01	1.13E-03	3.17E-04	1.80E-01	1.18E-03	3.17E-04	1.60E-01	1.15E-03	3.17E-04	1.84E-01	1.26E-03	3.17E-04	1.47E-01	1.13E-03	3.17E-04	1.26E-01
		48"	4.82E-05	1.04E-03	5.06E-04	1.28E-01	9.71E-04	2.54E-04	1.31E-01	9.72E-04	2.54E-04	2.02E-01	9.36E-04	2.54E-04	1.80E-01	9.71E-04	2.54E-04	1.61E-01	7.49E-04	2.54E-04	1.85E-01	9.72E-04	2.54E-04	1.47E-01	9.36E-04	2.54E-04	1.26E-01
		60"	4.97E-05	8.99E-04	2.71E-04	1.29E-01	7.77E-04	2.20E-04	1.31E-01	8.93E-04	2.20E-04	2.02E-01	8.20E-04	2.20E-04	1.81E-01	7.77E-04	2.20E-04	1.61E-01	7.68E-04	2.20E-04	1.85E-01	8.93E-04	2.20E-04	1.47E-01	8.20E-04	2.20E-04	1.26E-01
	Canada	36"	9.96E-05	1.27E-03	4.02E-04	2.35E-02	1.18E-03	3.17E-04	2.44E-02	1.26E-03	3.17E-04	3.42E-02	1.13E-03	3.17E-04	3.17E-02	1.18E-03	3.17E-04	2.93E-02	1.15E-03	3.17E-04	3.16E-02	1.26E-03	3.17E-04	2.66E-02	1.13E-03	3.17E-04	2.33E-02
		48"	9.39E-05	1.04E-03	5.06E-04	2.37E-02	9.71E-04	2.54E-04	2.47E-02	9.72E-04	2.54E-04	3.45E-02	9.36E-04	2.54E-04	3.19E-02	9.71E-04	2.54E-04	2.96E-02	7.49E-04	2.54E-04	3.21E-02	9.72E-04	2.54E-04	2.69E-02	9.36E-04	2.54E-04	2.36E-02
		60"	9.44E-05	8.99E-04	2.71E-04	2.41E-02	7.77E-04	2.20E-04	2.49E-02	8.93E-04	2.20E-04	3.47E-02	8.20E-04	2.20E-04	3.21E-02	7.77E-04	2.20E-04	2.98E-02	7.68E-04	2.20E-04	3.21E-02	8.93E-04	2.20E-04	2.70E-02	8.20E-04	2.20E-04	2.38E-02
	Mexico	36"	5.52E-05	1.27E-03	4.02E-04	1.28E-01	1.18E-03	3.17E-04	1.31E-01	1.26E-03	3.17E-04	2.02E-01	1.13E-03	3.17E-04	1.80E-01	1.18E-03	3.17E-04	1.60E-01	1.15E-03	3.17E-04	1.84E-01	1.26E-03	3.17E-04	1.47E-01	1.13E-03	3.17E-04	1.26E-01
		48"	4.82E-05	1.04E-03	5.06E-04	1.28E-01	9.71E-04	2.54E-04	1.31E-01	9.72E-04	2.54E-04	2.02E-01	9.36E-04	2.54E-04	1.80E-01	9.71E-04	2.54E-04	1.61E-01	7.49E-04	2.54E-04	1.85E-01	9.72E-04	2.54E-04	1.47E-01	9.36E-04	2.54E-04	1.26E-01
		60"	4.88E-05	-	-	-	-	-	-	8.93E-04	2.20E-04	2.71E-01	8.20E-04	2.20E-04	2.35E-01	7.77E-04	2.20E-04	2.01E-01	7.68E-04	2.20E-04	2.68E-01	8.93E-04	2.20E-04	2.10E-01	8.20E-04	2.20E-04	1.74E-01
		72"	0.00E+00	-	-	-	-	-	-	8.75E-04	2.22E-04	2.71E-01	1.04E-03	2.22E-04	2.34E-01	8.35E-04	2.22E-04	2.01E-01	7.40E-04	2.22E-04	2.68E-01	8.75E-04	2.22E-04	2.10E-01	1.04E-03	2.22E-04	1.74E-01

TABLE 26: EMBODIED PO4E & NET PO4E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)			All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	
North America	ASHRAE Climate Zone 1,2	36"	4.82E-05	1.13E-03	3.17E-04	2.22E-01	1.18E-03	3.17E-04	1.95E-01	1.26E-03	3.17E-04	4.24E-01	1.20E-03	3.17E-04	3.30E-01	1.18E-03	3.17E-04	2.80E-01	1.16E-03	3.17E-04	1.95E-01	1.14E-03	2.99E-04	1.39E-01	
		48"	4.97E-05	9.36E-04	2.54E-04	2.22E-01	9.71E-04	2.54E-04	1.95E-01	9.72E-04	2.54E-04	4.24E-01	9.87E-04	2.54E-04	3.31E-01	9.71E-04	2.54E-04	2.81E-01	9.57E-04	2.54E-04	1.95E-01	9.38E-04	2.54E-04	1.39E-01	
		60"	6.78E-05	8.20E-04	2.20E-04	2.22E-01	7.77E-04	2.20E-04	1.96E-01	8.93E-04	2.20E-04	4.25E-01	8.61E-04	2.20E-04	3.31E-01	7.77E-04	2.20E-04	2.81E-01	8.37E-04	2.20E-04	1.95E-01	8.22E-04	2.20E-04	1.39E-01	
	ASHRAE Climate Zone 3	36"	4.82E-05	1.13E-03	3.17E-04	2.86E-01	1.18E-03	3.17E-04	2.51E-01	1.26E-03	3.17E-04	5.30E-01	1.20E-03	3.17E-04	4.15E-01	1.18E-03	3.17E-04	3.52E-01	1.16E-03	3.17E-04	2.41E-01	1.14E-03	2.99E-04	1.75E-01	
		48"	4.97E-05	9.36E-04	2.54E-04	2.86E-01	9.71E-04	2.54E-04	2.52E-01	9.72E-04	2.54E-04	5.30E-01	9.87E-04	2.54E-04	4.15E-01	9.71E-04	2.54E-04	3.53E-01	9.57E-04	2.54E-04	2.41E-01	9.38E-04	2.54E-04	1.75E-01	
		60"	6.78E-05	8.20E-04	2.20E-04	2.86E-01	7.77E-04	2.20E-04	2.52E-01	8.93E-04	2.20E-04	5.30E-01	8.61E-04	2.20E-04	4.15E-01	7.77E-04	2.20E-04	3.53E-01	8.37E-04	2.20E-04	2.42E-01	8.22E-04	2.20E-04	1.75E-01	
	ASHRAE Climate Zone 4	36"	4.82E-05	1.13E-03	3.17E-04	1.33E-01	1.18E-03	3.17E-04	1.17E-01	1.26E-03	3.17E-04	2.56E-01	1.20E-03	3.17E-04	2.08E-01	1.18E-03	3.17E-04	1.81E-01	1.16E-03	3.17E-04	1.33E-01	1.14E-03	2.99E-04	1.00E-01	
		48"	4.97E-05	9.36E-04	2.54E-04	1.33E-01	9.71E-04	2.54E-04	1.18E-01	9.72E-04	2.54E-04	2.57E-01	9.87E-04	2.54E-04	2.09E-01	9.71E-04	2.54E-04	1.81E-01	9.57E-04	2.54E-04	1.33E-01	9.38E-04	2.54E-04	1.01E-01	
		60"	6.78E-05	8.20E-04	2.20E-04	1.34E-01	7.77E-04	2.20E-04	1.18E-01	8.93E-04	2.20E-04	2.57E-01	8.61E-04	2.20E-04	2.09E-01	7.77E-04	2.20E-04	1.81E-01	8.37E-04	2.20E-04	1.34E-01	8.22E-04	2.20E-04	1.01E-01	
	ASHRAE Climate Zone 5	36"	4.82E-05	1.13E-03	3.17E-04	1.12E-01	1.18E-03	3.17E-04	1.03E-01	1.26E-03	3.17E-04	2.00E-01	1.20E-03	3.17E-04	1.66E-01	1.18E-03	3.17E-04	1.47E-01	1.16E-03	3.17E-04	1.14E-01	1.14E-03	2.99E-04	9.09E-02	
		48"	4.97E-05	9.36E-04	2.54E-04	1.13E-01	9.71E-04	2.54E-04	1.04E-01	9.72E-04	2.54E-04	2.00E-01	9.87E-04	2.54E-04	1.67E-01	9.71E-04	2.54E-04	1.47E-01	9.57E-04	2.54E-04	1.14E-01	9.38E-04	2.54E-04	9.12E-02	
		60"	6.78E-05	8.20E-04	2.20E-04	1.13E-01	7.77E-04	2.20E-04	1.04E-01	8.93E-04	2.20E-04	2.00E-01	8.61E-04	2.20E-04	1.67E-01	7.77E-04	2.20E-04	1.48E-01	8.37E-04	2.20E-04	1.14E-01	8.22E-04	2.20E-04	9.13E-02	
	ASHRAE Climate Zone 6,7	36"	4.82E-05	1.13E-03	3.17E-04	1.07E-01	1.18E-03	3.17E-04	9.90E-02	1.26E-03	3.17E-04	1.94E-01	1.20E-03	3.17E-04	1.61E-01	1.18E-03	3.17E-04	1.42E-01	1.16E-03	3.17E-04	1.10E-01	1.14E-03	2.99E-04	8.71E-02	
		48"	4.97E-05	9.36E-04	2.54E-04	1.08E-01	9.71E-04	2.54E-04	9.93E-02	9.72E-04	2.54E-04	1.94E-01	9.87E-04	2.54E-04	1.61E-01	9.71E-04	2.54E-04	1.42E-01	9.57E-04	2.54E-04	1.10E-01	9.38E-04	2.54E-04	8.73E-02	
		60"	1.13E-04	8.20E-04	2.20E-04	1.08E-01	7.77E-04	2.20E-04	9.95E-02	8.93E-04	2.20E-04	1.95E-01	8.61E-04	2.20E-04	1.61E-01	7.77E-04	2.20E-04	1.42E-01	8.37E-04	2.20E-04	1.10E-01	8.22E-04	2.20E-04	8.75E-02	
	Canada	36"	9.39E-05	1.13E-03	3.17E-04	2.03E-02	1.18E-03	3.17E-04	1.85E-02	1.26E-03	3.17E-04	3.33E-02	1.20E-03	3.17E-04	2.95E-02	1.18E-03	3.17E-04	2.66E-02	1.16E-03	3.17E-04	2.07E-02	1.14E-03	2.99E-04	1.69E-02	
		48"	9.44E-05	9.36E-04	2.54E-04	2.06E-02	9.71E-04	2.54E-04	1.88E-02	9.72E-04	2.54E-04	3.36E-02	9.87E-04	2.54E-04	2.97E-02	9.71E-04	2.54E-04	2.69E-02	9.57E-04	2.54E-04	2.09E-02	9.38E-04	2.54E-04	1.72E-02	
		60"	6.71E-05	8.20E-04	2.20E-04	2.07E-02	7.77E-04	2.20E-04	1.91E-02	8.93E-04	2.20E-04	3.37E-02	8.61E-04	2.20E-04	2.99E-02	7.77E-04	2.20E-04	2.71E-02	8.37E-04	2.20E-04	2.11E-02	8.22E-04	2.20E-04	1.73E-02	
	Mexico	36"	4.78E-05	1.13E-03	3.17E-04	1.44E-01	1.18E-03	3.17E-04	1.27E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	4.88E-05	9.36E-04	2.54E-04	1.44E-01	9.71E-04	2.54E-04	1.27E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	0.00E+00	8.20E-04	2.20E-04	1.44E-01	7.77E-04	2.20E-04	1.27E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			72"	5.42E-05	1.04E-03	2.22E-04	2.05E-02	8.35E-04	2.22E-04	1.90E-02	8.75E-04	2.22E-04	3.38E-02	8.46E-04	2.22E-04	2.99E-02	8.35E-04	2.22E-04	2.70E-02	8.26E-04	2.22E-04	2.11E-02	8.15E-04	2.22E-04	1.73E-02

TABLE 27: EMBODIED PO4E & NET PO4E SAVINGS IN EUROPE

15 Year Lifecycle (kg PO4e / Meter^2)			All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10		
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved
Europe	France	36"	6.85E-04	-	-	-	-	-	1.26E-03	3.17E-04	3.72E-02	-	-	-	-	-	-	1.15E-03	3.17E-04	3.91E-02	-	-	-	-	-	-	
		48"	6.62E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	3.76E-02	-	-	-	-	-	-	7.49E-04	2.54E-04	3.96E-02	3.72E-03	2.54E-04	2.59E-02	-	-	-
		60"	6.67E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	3.77E-02	-	-	-	-	-	-	7.68E-04	2.20E-04	3.96E-02	3.06E-03	2.20E-04	2.66E-02	-	-	-
		72"	6.60E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Northern Europe	36"	6.82E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.57E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.72E-03	2.54E-04	8.67E-02	-	-	-
		60"	6.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.06E-03	2.20E-04	8.74E-02	-	-	-
		72"	6.57E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scandinavia	36"	6.71E-04	1.13E-03	3.17E-04	1.01E-02	1.15E-03	3.17E-04	1.14E-02	1.26E-03	3.17E-04	1.03E-02	1.15E-03	3.17E-04	1.18E-02	1.15E-03	3.17E-04	1.15E-02	1.15E-03	3.17E-04	8.65E-03	-	-	-	1.15E-03	3.17E-04	8.52E-03
		48"	6.43E-04	9.36E-04	2.54E-04	1.04E-02	9.46E-04	2.54E-04	1.17E-02	9.72E-04	2.54E-04	1.07E-02	7.49E-04	2.54E-04	1.23E-02	9.46E-04	2.54E-04	1.18E-02	7.49E-04	2.54E-04	9.14E-03	3.72E-03	2.54E-04	6.78E-03	7.49E-04	2.54E-04	9.01E-03
		60"	6.52E-04	8.20E-04	2.20E-04	1.06E-02	8.28E-04	2.20E-04	1.19E-02	8.93E-04	2.20E-04	1.08E-02	7.68E-04	2.20E-04	1.23E-02	8.28E-04	2.20E-04	1.19E-02	7.68E-04	2.20E-04	9.14E-03	3.06E-03	2.20E-04	7.47E-03	7.68E-04	2.20E-04	9.02E-03
		72"	6.42E-04	1.04E-03	2.22E-04	1.04E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	9.05E-03
	Southern Europe	36"	6.82E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	3.02E-01	-	-	-	-	-	-	1.15E-03	3.17E-04	3.23E-01	-	-	-	-	-	-
		48"	6.57E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	3.02E-01	-	-	-	-	-	-	7.49E-04	2.54E-04	3.23E-01	3.72E-03	2.54E-04	2.28E-01	-	-	-
		60"	6.65E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	3.03E-01	-	-	-	-	-	-	7.68E-04	2.20E-04	3.23E-01	3.06E-03	2.20E-04	2.28E-01	-	-	-
		72"	6.58E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	United Kingdom	36"	6.53E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	7.84E-02	-	-	-	-	-	-	1.15E-03	3.17E-04	8.15E-02	-	-	-	-	-	-
		48"	6.27E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	7.88E-02	-	-	-	-	-	-	7.49E-04	2.54E-04	8.20E-02	3.72E-03	2.54E-04	6.74E-02	-	-	-
		60"	6.35E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	7.89E-02	-	-	-	-	-	-	7.68E-04	2.20E-04	8.20E-02	3.06E-03	2.20E-04	6.81E-02	-	-	-
		72"	6.26E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 28: EMBODIED PO4E & NET PO4E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg PO4e / Meter^2)			All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30					
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved			
Europe	France	36"	6.85E-04	1.26E-03	3.17E-04	3.69E-02	-	-	-	-	-	-	-	-	-	-	1.29E-03	3.17E-04	4.46E-02	-	-	-	-	-	-	-	-	-	-	
		48"	6.62E-04	9.72E-04	2.54E-04	3.73E-02	-	-	-	-	-	-	-	-	-	-	-	1.05E-03	2.54E-04	4.49E-02	-	-	-	-	-	-	-	-	-	-
		60"	6.67E-04	8.93E-04	2.20E-04	3.74E-02	-	-	-	-	-	-	-	-	-	-	-	9.12E-04	2.20E-04	4.51E-02	-	-	-	-	-	-	-	-	-	-
	72"	6.60E-04	8.75E-04	2.22E-04	3.74E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Northern Europe	36"	6.82E-04	-	-	-	1.26E-03	3.17E-04	1.32E-01	1.13E-03	3.17E-04	1.06E-01	-	-	-	-	-	1.29E-03	3.17E-04	1.24E-01	1.40E-03	4.02E-04	1.30E-01	-	-	-	-	-	-	-
		48"	6.57E-04	-	-	-	9.72E-04	2.54E-04	1.33E-01	9.36E-04	2.54E-04	1.06E-01	-	-	-	-	-	1.05E-03	2.54E-04	1.25E-01	1.13E-03	5.06E-04	1.30E-01	-	-	-	-	-	-	-
		60"	6.65E-04	-	-	-	8.93E-04	2.20E-04	1.33E-01	8.20E-04	2.20E-04	1.06E-01	-	-	-	-	-	9.12E-04	2.20E-04	1.25E-01	9.79E-04	2.71E-04	1.30E-01	-	-	-	-	-	-	-
		72"	6.57E-04	-	-	-	8.75E-04	2.22E-04	1.33E-01	1.04E-03	2.22E-04	1.06E-01	-	-	-	-	-	-	-	-	9.32E-04	2.37E-04	1.30E-01	-	-	-	-	-	-	-
	Scandinavia	36"	6.71E-04	1.26E-03	3.17E-04	7.91E-03	1.26E-03	3.17E-04	1.22E-02	1.13E-03	3.17E-04	1.12E-02	1.18E-03	3.17E-04	8.67E-03	1.29E-03	3.17E-04	2.32E-02	1.40E-03	4.02E-04	1.52E-02	1.33E-03	4.02E-04	1.36E-02	1.30E-03	4.02E-04	1.36E-02	1.30E-03	4.02E-04	1.23E-02
		48"	6.43E-04	9.72E-04	2.54E-04	8.29E-03	9.72E-04	2.54E-04	1.26E-02	9.36E-04	2.54E-04	1.15E-02	9.71E-04	2.54E-04	8.97E-03	1.05E-03	2.54E-04	2.35E-02	1.13E-03	5.06E-04	1.54E-02	1.08E-03	5.06E-04	1.38E-02	1.06E-03	5.06E-04	1.38E-02	1.06E-03	5.06E-04	1.24E-02
		60"	6.52E-04	8.93E-04	2.20E-04	8.39E-03	8.93E-04	2.20E-04	1.27E-02	8.20E-04	2.20E-04	1.17E-02	7.77E-04	2.20E-04	9.19E-03	9.12E-04	2.20E-04	2.37E-02	9.79E-04	2.71E-04	1.58E-02	9.36E-04	2.71E-04	1.41E-02	9.19E-04	2.71E-04	1.41E-02	9.19E-04	2.71E-04	1.28E-02
		72"	6.42E-04	8.75E-04	2.22E-04	8.42E-03	8.75E-04	2.22E-04	1.28E-02	1.04E-03	2.22E-04	1.15E-02	8.35E-04	2.22E-04	9.14E-03	-	-	-	9.32E-04	2.37E-04	1.59E-02	8.96E-04	2.37E-04	1.42E-02	8.80E-04	2.37E-04	1.42E-02	8.80E-04	2.37E-04	1.29E-02
	Southern Europe	36"	6.82E-04	-	-	-	1.26E-03	3.17E-04	3.39E-01	1.13E-03	3.17E-04	2.92E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.57E-04	-	-	-	9.72E-04	2.54E-04	3.40E-01	9.36E-04	2.54E-04	2.92E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	6.65E-04	-	-	-	8.93E-04	2.20E-04	3.40E-01	8.20E-04	2.20E-04	2.92E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.58E-04	-	-	-	8.75E-04	2.22E-04	3.40E-01	1.04E-03	2.22E-04	2.92E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	United Kingdom	36"	6.53E-04	-	-	-	1.26E-03	3.17E-04	1.03E-01	1.13E-03	3.17E-04	8.29E-02	1.18E-03	3.17E-04	6.22E-02	1.29E-03	3.17E-04	9.71E-02	1.40E-03	4.02E-04	1.01E-01	-	-	-	-	-	-	1.30E-03	4.02E-04	7.70E-02
		48"	6.27E-04	-	-	-	9.72E-04	2.54E-04	1.03E-01	9.36E-04	2.54E-04	8.32E-02	9.71E-04	2.54E-04	6.25E-02	1.05E-03	2.54E-04	9.74E-02	1.13E-03	5.06E-04	1.01E-01	-	-	-	-	-	-	1.06E-03	5.06E-04	7.72E-02
		60"	6.35E-04	-	-	-	8.93E-04	2.20E-04	1.03E-01	8.20E-04	2.20E-04	8.34E-02	7.77E-04	2.20E-04	6.27E-02	9.12E-04	2.20E-04	9.76E-02	9.79E-04	2.71E-04	1.01E-01	-	-	-	-	-	-	9.19E-04	2.71E-04	7.75E-02
		72"	6.26E-04	-	-	-	8.75E-04	2.22E-04	1.03E-01	1.04E-03	2.22E-04	8.32E-02	8.35E-04	2.22E-04	6.27E-02	-	-	-	9.32E-04	2.37E-04	1.01E-01	-	-	-	-	-	-	8.80E-04	2.37E-04	7.76E-02

TABLE 29: EMBODIED PO4E & NET PO4E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)			All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30					
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved			
Europe	France	36"	6.85E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	4.47E-02	1.13E-03	3.17E-04	3.95E-02	-	-	-	1.15E-03	3.17E-04	4.28E-02	1.26E-03	3.17E-04	3.41E-02	1.13E-03	3.17E-04	2.84E-02			
		48"	6.62E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	4.51E-02	9.36E-04	2.54E-04	3.98E-02	-	-	-	7.49E-04	2.54E-04	4.32E-02	9.72E-04	2.54E-04	3.45E-02	9.36E-04	2.54E-04	2.87E-02			
		60"	6.67E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	4.52E-02	8.20E-04	2.20E-04	3.99E-02	-	-	-	7.68E-04	2.20E-04	4.33E-02	8.93E-04	2.20E-04	3.46E-02	8.20E-04	2.20E-04	2.88E-02			
		72"	6.60E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	4.52E-02	1.04E-03	2.22E-04	3.97E-02	-	-	-	7.40E-04	2.22E-04	4.33E-02	8.75E-04	2.22E-04	3.46E-02	1.04E-03	2.22E-04	2.86E-02			
	Northern Europe	36"	6.82E-04	1.27E-03	4.02E-04	8.03E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.26E-03	3.17E-04	9.23E-02	1.13E-03	3.17E-04	7.81E-02			
		48"	6.57E-04	1.04E-03	5.06E-04	8.05E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.72E-04	2.54E-04	9.27E-02	9.36E-04	2.54E-04	7.84E-02			
		60"	6.65E-04	8.99E-04	2.71E-04	8.08E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.93E-04	2.20E-04	9.28E-02	8.20E-04	2.20E-04	7.85E-02			
		72"	6.57E-04	8.66E-04	2.37E-04	8.09E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.75E-04	2.22E-04	9.28E-02	1.04E-03	2.22E-04	7.83E-02			
	Scandinavia	36"	6.71E-04	1.27E-03	4.02E-04	1.04E-02	1.18E-03	3.17E-04	1.12E-02	1.26E-03	3.17E-04	1.27E-02	1.13E-03	3.17E-04	1.26E-02	1.18E-03	3.17E-04	1.33E-02	1.15E-03	3.17E-04	1.51E-02	1.26E-03	3.17E-04	1.18E-02	1.13E-03	3.17E-04	9.95E-03			
		48"	6.43E-04	1.04E-03	5.06E-04	1.05E-02	9.71E-04	2.54E-04	1.15E-02	9.72E-04	2.54E-04	1.31E-02	9.36E-04	2.54E-04	1.29E-02	9.71E-04	2.54E-04	1.36E-02	7.49E-04	2.54E-04	1.55E-02	9.72E-04	2.54E-04	1.22E-02	9.36E-04	2.54E-04	1.02E-02			
		60"	6.52E-04	8.99E-04	2.71E-04	1.09E-02	7.77E-04	2.20E-04	1.18E-02	8.93E-04	2.20E-04	1.32E-02	8.20E-04	2.20E-04	1.30E-02	7.77E-04	2.20E-04	1.38E-02	7.68E-04	2.20E-04	1.55E-02	8.93E-04	2.20E-04	1.23E-02	8.20E-04	2.20E-04	1.04E-02			
		72"	6.42E-04	8.66E-04	2.37E-04	1.10E-02	8.35E-04	2.22E-04	1.17E-02	8.75E-04	2.22E-04	1.32E-02	1.04E-03	2.22E-04	1.28E-02	8.35E-04	2.22E-04	1.38E-02	7.40E-04	2.22E-04	1.56E-02	8.75E-04	2.22E-04	1.23E-02	1.04E-03	2.22E-04	1.02E-02			
	Southern Europe	36"	6.82E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	3.56E-01	1.26E-03	3.17E-04	2.81E-01	1.13E-03	3.17E-04	2.59E-01
		48"	6.57E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	3.57E-01	9.72E-04	2.54E-04	2.82E-01	9.36E-04	2.54E-04	2.60E-01
		60"	6.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	3.57E-01	8.93E-04	2.20E-04	2.82E-01	8.20E-04	2.20E-04	2.60E-01
		72"	6.58E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	3.57E-01	8.75E-04	2.22E-04	2.82E-01	1.04E-03	2.22E-04	2.59E-01
	United Kingdom	36"	6.53E-04	1.27E-03	4.02E-04	6.34E-02	-	-	-	1.26E-03	3.17E-04	1.01E-01	1.13E-03	3.17E-04	9.02E-02	1.18E-03	3.17E-04	7.99E-02	1.15E-03	3.17E-04	8.98E-02	1.26E-03	3.17E-04	7.33E-02	1.13E-03	3.17E-04	6.21E-02			
		48"	6.27E-04	1.04E-03	5.06E-04	6.36E-02	-	-	-	9.72E-04	2.54E-04	1.02E-01	9.36E-04	2.54E-04	9.05E-02	9.71E-04	2.54E-04	8.02E-02	7.49E-04	2.54E-04	9.03E-02	9.72E-04	2.54E-04	7.36E-02	9.36E-04	2.54E-04	6.24E-02			
		60"	6.35E-04	8.99E-04	2.71E-04	6.39E-02	-	-	-	8.93E-04	2.20E-04	1.02E-01	8.20E-04	2.20E-04	9.06E-02	7.77E-04	2.20E-04	8.04E-02	7.68E-04	2.20E-04	9.03E-02	8.93E-04	2.20E-04	7.37E-02	8.20E-04	2.20E-04	6.25E-02			
		72"	6.26E-04	8.66E-04	2.37E-04	6.40E-02	-	-	-	8.75E-04	2.22E-04	1.02E-01	1.04E-03	2.22E-04	9.04E-02	8.35E-04	2.22E-04	8.04E-02	7.40E-04	2.22E-04	9.03E-02	8.75E-04	2.22E-04	7.38E-02	1.04E-03	2.22E-04	6.23E-02			

TABLE 30: EMBODIED PO4E & NET PO4E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)			All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved
Europe	France	36"	6.85E-04	1.13E-03	3.17E-04	2.31E-02	1.18E-03	3.17E-04	2.01E-02	1.26E-03	3.17E-04	2.96E-02	1.20E-03	3.17E-04	3.45E-02	1.18E-03	3.17E-04	2.96E-02	1.16E-03	3.17E-04	2.03E-02	1.14E-03	2.99E-04	1.44E-02
		48"	6.62E-04	9.36E-04	2.54E-04	2.34E-02	9.71E-04	2.54E-04	2.04E-02	9.72E-04	2.54E-04	3.00E-02	9.87E-04	2.54E-04	3.48E-02	9.71E-04	2.54E-04	2.99E-02	9.57E-04	2.54E-04	2.06E-02	9.38E-04	2.54E-04	1.46E-02
		60"	6.67E-04	8.20E-04	2.20E-04	2.35E-02	7.77E-04	2.20E-04	2.06E-02	8.93E-04	2.20E-04	3.01E-02	8.61E-04	2.20E-04	3.50E-02	7.77E-04	2.20E-04	3.02E-02	8.37E-04	2.20E-04	2.07E-02	8.22E-04	2.20E-04	1.48E-02
	Northern Europe	36"	6.60E-04	1.04E-03	2.22E-04	2.33E-02	8.35E-04	2.22E-04	2.05E-02	8.75E-04	2.22E-04	3.01E-02	8.46E-04	2.22E-04	3.50E-02	8.35E-04	2.22E-04	3.01E-02	8.26E-04	2.22E-04	2.07E-02	8.15E-04	2.22E-04	1.48E-02
		48"	6.82E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	1.25E-01	1.20E-03	3.17E-04	1.02E-01	-	-	-	1.16E-03	3.17E-04	6.84E-02	1.14E-03	2.99E-04	5.37E-02
		60"	6.57E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	1.26E-01	9.87E-04	2.54E-04	1.03E-01	-	-	-	9.57E-04	2.54E-04	6.87E-02	9.38E-04	2.54E-04	5.39E-02
	Scandinavia	36"	6.65E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	1.26E-01	8.61E-04	2.20E-04	1.03E-01	-	-	-	8.37E-04	2.20E-04	6.88E-02	8.22E-04	2.20E-04	5.41E-02
		48"	6.57E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	1.26E-01	8.46E-04	2.22E-04	1.03E-01	-	-	-	8.26E-04	2.22E-04	6.89E-02	8.15E-04	2.22E-04	5.41E-02
		72"	6.71E-04	1.13E-03	3.17E-04	8.74E-03	1.18E-03	3.17E-04	7.37E-03	1.26E-03	3.17E-04	1.68E-02	1.20E-03	3.17E-04	1.46E-02	1.18E-03	3.17E-04	1.29E-02	1.16E-03	3.17E-04	9.17E-03	1.14E-03	2.99E-04	7.59E-03
	Southern Europe	36"	6.43E-04	9.36E-04	2.54E-04	9.03E-03	9.71E-04	2.54E-04	7.67E-03	9.72E-04	2.54E-04	1.72E-02	9.87E-04	2.54E-04	1.49E-02	9.71E-04	2.54E-04	1.32E-02	9.57E-04	2.54E-04	9.47E-03	9.38E-04	2.54E-04	7.86E-03
		48"	6.52E-04	8.20E-04	2.20E-04	9.17E-03	7.77E-04	2.20E-04	7.89E-03	8.93E-04	2.20E-04	1.73E-02	8.61E-04	2.20E-04	1.50E-02	7.77E-04	2.20E-04	1.34E-02	8.37E-04	2.20E-04	9.61E-03	8.22E-04	2.20E-04	8.01E-03
		60"	6.42E-04	1.04E-03	2.22E-04	8.96E-03	8.35E-04	2.22E-04	7.84E-03	8.75E-04	2.22E-04	1.73E-02	8.46E-04	2.22E-04	1.51E-02	8.35E-04	2.22E-04	1.34E-02	8.26E-04	2.22E-04	9.63E-03	8.15E-04	2.22E-04	8.02E-03
	United Kingdom	36"	6.82E-04	1.13E-03	3.17E-04	1.91E-01	1.18E-03	3.17E-04	1.67E-01	1.26E-03	3.17E-04	3.49E-01	-	-	-	1.18E-03	3.17E-04	2.54E-01	1.16E-03	3.17E-04	1.95E-01	1.14E-03	2.99E-04	9.69E-02
		48"	6.57E-04	9.36E-04	2.54E-04	1.91E-01	9.71E-04	2.54E-04	1.68E-01	9.72E-04	2.54E-04	3.49E-01	-	-	-	9.71E-04	2.54E-04	2.55E-01	9.57E-04	2.54E-04	1.95E-01	9.38E-04	2.54E-04	9.71E-02
		60"	6.65E-04	8.20E-04	2.20E-04	1.91E-01	7.77E-04	2.20E-04	1.68E-01	8.93E-04	2.20E-04	3.49E-01	-	-	-	7.77E-04	2.20E-04	2.55E-01	8.37E-04	2.20E-04	1.95E-01	8.22E-04	2.20E-04	9.73E-02
	United Kingdom	36"	6.58E-04	1.04E-03	2.22E-04	1.91E-01	8.35E-04	2.22E-04	1.68E-01	8.75E-04	2.22E-04	3.49E-01	-	-	-	8.35E-04	2.22E-04	2.55E-01	8.26E-04	2.22E-04	1.95E-01	8.15E-04	2.22E-04	9.73E-02
		48"	6.53E-04	1.13E-03	3.17E-04	5.33E-02	1.18E-03	3.17E-04	4.87E-02	1.26E-03	3.17E-04	9.73E-02	1.20E-03	3.17E-04	8.02E-02	1.18E-03	3.17E-04	7.04E-02	1.16E-03	3.17E-04	5.42E-02	1.14E-03	2.99E-04	4.27E-02
		60"	6.27E-04	9.36E-04	2.54E-04	5.36E-02	9.71E-04	2.54E-04	4.90E-02	9.72E-04	2.54E-04	9.77E-02	9.87E-04	2.54E-04	8.05E-02	9.71E-04	2.54E-04	7.07E-02	9.57E-04	2.54E-04	5.45E-02	9.38E-04	2.54E-04	4.30E-02
	United Kingdom	36"	6.35E-04	8.20E-04	2.20E-04	5.37E-02	7.77E-04	2.20E-04	4.92E-02	8.93E-04	2.20E-04	9.78E-02	8.61E-04	2.20E-04	8.07E-02	7.77E-04	2.20E-04	7.09E-02	8.37E-04	2.20E-04	5.47E-02	8.22E-04	2.20E-04	4.31E-02
		72"	6.26E-04	1.04E-03	2.22E-04	5.35E-02	8.35E-04	2.22E-04	4.92E-02	8.75E-04	2.22E-04	9.78E-02	8.46E-04	2.22E-04	8.07E-02	8.35E-04	2.22E-04	7.09E-02	8.26E-04	2.22E-04	5.47E-02	8.15E-04	2.22E-04	4.32E-02

TABLE 31: EMBODIED PO4E & NET PO4E SAVINGS IN ASIA

15 Year Lifecycle (kg PO4e / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10				
		Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved		
Asia	North-East China	36"	7.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	7.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.23E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	7.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	South-East China	36"	7.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	7.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.23E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	7.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	India	36"	9.29E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.96E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.11E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	8.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	6.53E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.30E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	6.37E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.28E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	9.54E-04	-	-	-	1.15E-03	3.17E-04	3.47E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	9.20E-04	-	-	-	9.46E-04	2.54E-04	3.47E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.39E-04	-	-	-	8.28E-04	2.20E-04	3.47E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	9.24E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Russia	36"	7.18E-04	-	-	-	1.15E-03	3.17E-04	3.84E-02	1.26E-03	3.17E-04	3.17E-02	1.15E-03	3.17E-04	5.21E-02	1.15E-03	3.17E-04	5.05E-02	1.15E-03	3.17E-04	5.46E-02	-	-	-	1.15E-03	3.17E-04	5.07E-02	
		48"	6.92E-04	-	-	-	9.46E-04	2.54E-04	3.87E-02	9.72E-04	2.54E-04	3.20E-02	7.49E-04	2.54E-04	5.26E-02	9.46E-04	2.54E-04	5.08E-02	7.49E-04	2.54E-04	5.51E-02	-	-	-	7.49E-04	2.54E-04	5.12E-02	
		60"	7.00E-04	-	-	-	8.28E-04	2.20E-04	3.88E-02	8.93E-04	2.20E-04	3.21E-02	7.68E-04	2.20E-04	5.26E-02	8.28E-04	2.20E-04	5.10E-02	7.68E-04	2.20E-04	5.51E-02	-	-	-	7.68E-04	2.20E-04	5.12E-02	
		72"	6.89E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	5.13E-02	
	China, Mid-East Coast	36"	7.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	7.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	7.23E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	7.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turkey	36"	8.18E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	48"	7.88E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	60"	7.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	72"	7.88E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 32: EMBODIED PO4E & NET PO4E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)			All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved
Asia	North-East China	36"	7.39E-04	-	-	-	1.26E-03	3.17E-04	4.00E-01	1.13E-03	3.17E-04	3.26E-01	1.18E-03	3.17E-04	2.48E-01	1.29E-03	3.17E-04	3.86E-01	-	-	-	-	-	-	-	-	-
		48"	7.13E-04	-	-	-	9.72E-04	2.54E-04	4.00E-01	9.36E-04	2.54E-04	3.27E-01	9.71E-04	2.54E-04	2.48E-01	1.05E-03	2.54E-04	3.87E-01	-	-	-	-	-	-	-	-	-
		60"	7.23E-04	-	-	-	8.93E-04	2.20E-04	4.00E-01	8.20E-04	2.20E-04	3.27E-01	7.77E-04	2.20E-04	2.48E-01	9.12E-04	2.20E-04	3.87E-01	-	-	-	-	-	-	-	-	-
		72"	7.14E-04	-	-	-	8.75E-04	2.22E-04	4.00E-01	1.04E-03	2.22E-04	3.26E-01	8.35E-04	2.22E-04	2.48E-01	-	-	-	-	-	-	-	-	-	-	-	-
	South-East China	36"	7.39E-04	-	-	-	1.26E-03	3.17E-04	3.83E-01	1.13E-03	3.17E-04	3.39E-01	1.18E-03	3.17E-04	3.27E-01	1.29E-03	3.17E-04	3.85E-01	-	-	-	-	-	-	-	-	-
		48"	7.13E-04	-	-	-	9.72E-04	2.54E-04	3.83E-01	9.36E-04	2.54E-04	3.40E-01	9.71E-04	2.54E-04	3.27E-01	1.05E-03	2.54E-04	3.86E-01	-	-	-	-	-	-	-	-	-
		60"	7.23E-04	-	-	-	8.93E-04	2.20E-04	3.83E-01	8.20E-04	2.20E-04	3.40E-01	7.77E-04	2.20E-04	3.27E-01	9.12E-04	2.20E-04	3.86E-01	-	-	-	-	-	-	-	-	-
		72"	7.14E-04	-	-	-	8.75E-04	2.22E-04	3.83E-01	1.04E-03	2.22E-04	3.40E-01	8.35E-04	2.22E-04	3.27E-01	-	-	-	-	-	-	-	-	-	-	-	-
	India	36"	9.29E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.96E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.11E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	8.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	6.53E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.30E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	6.37E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.28E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	9.54E-04	-	-	-	1.26E-03	3.17E-04	3.24E-01	1.13E-03	3.17E-04	2.75E-01	1.18E-03	3.17E-04	1.93E-01	-	-	-	-	-	-	-	-	-	-	-	-
		48"	9.20E-04	-	-	-	9.72E-04	2.54E-04	3.25E-01	9.36E-04	2.54E-04	2.75E-01	9.71E-04	2.54E-04	1.94E-01	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.39E-04	-	-	-	8.93E-04	2.20E-04	3.25E-01	8.20E-04	2.20E-04	2.76E-01	7.77E-04	2.20E-04	1.94E-01	-	-	-	-	-	-	-	-	-	-	-	-
		72"	9.24E-04	-	-	-	8.75E-04	2.22E-04	3.25E-01	1.04E-03	2.22E-04	2.75E-01	8.35E-04	2.22E-04	1.94E-01	-	-	-	-	-	-	-	-	-	-	-	-
	Russia	36"	7.18E-04	-	-	-	1.26E-03	3.17E-04	4.36E-02	1.13E-03	3.17E-04	3.53E-02	1.18E-03	3.17E-04	3.58E-02	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.92E-04	-	-	-	9.72E-04	2.54E-04	4.40E-02	9.36E-04	2.54E-04	3.55E-02	9.71E-04	2.54E-04	3.61E-02	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.00E-04	-	-	-	8.93E-04	2.20E-04	4.41E-02	8.20E-04	2.20E-04	3.57E-02	7.77E-04	2.20E-04	3.64E-02	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.89E-04	-	-	-	8.75E-04	2.22E-04	4.41E-02	1.04E-03	2.22E-04	3.55E-02	8.35E-04	2.22E-04	3.63E-02	-	-	-	-	-	-	-	-	-	-	-	-
	China, Mid-East Coast	36"	7.39E-04	-	-	-	1.26E-03	3.17E-04	3.22E-01	1.13E-03	3.17E-04	2.78E-01	1.18E-03	3.17E-04	2.02E-01	-	-	-	-	-	-	-	-	-	-	-	-
		48"	7.13E-04	-	-	-	9.72E-04	2.54E-04	3.23E-01	9.36E-04	2.54E-04	2.79E-01	9.71E-04	2.54E-04	2.02E-01	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.23E-04	-	-	-	8.93E-04	2.20E-04	3.23E-01	8.20E-04	2.20E-04	2.79E-01	7.77E-04	2.20E-04	2.02E-01	-	-	-	-	-	-	-	-	-	-	-	-
		72"	7.14E-04	-	-	-	8.75E-04	2.22E-04	3.23E-01	1.04E-03	2.22E-04	2.79E-01	8.35E-04	2.22E-04	2.02E-01	-	-	-	-	-	-	-	-	-	-	-	-
Turkey	36"	8.18E-04	-	-	-	1.26E-03	3.17E-04	2.12E-01	1.13E-03	3.17E-04	1.89E-01	1.18E-03	3.17E-04	1.45E-01	-	-	-	-	-	-	-	-	-	-	-	-	
	48"	7.88E-04	-	-	-	9.72E-04	2.54E-04	2.13E-01	9.36E-04	2.54E-04	1.89E-01	9.71E-04	2.54E-04	1.46E-01	-	-	-	-	-	-	-	-	-	-	-	-	
	60"	7.99E-04	-	-	-	8.93E-04	2.20E-04	2.13E-01	8.20E-04	2.20E-04	1.89E-01	7.77E-04	2.20E-04	1.46E-01	-	-	-	-	-	-	-	-	-	-	-	-	
	72"	7.88E-04	-	-	-	8.75E-04	2.22E-04	2.13E-01	1.04E-03	2.22E-04	1.89E-01	8.35E-04	2.22E-04	1.46E-01	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 33: EMBODIED PO4E & NET PO4E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	
Asia	North-East China	36"	7.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	3.61E-01	1.26E-03	3.17E-04	2.89E-01	1.13E-03	3.17E-04	2.46E-01	
		48"	7.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	3.61E-01	9.72E-04	2.54E-04	2.89E-01	9.36E-04	2.54E-04	2.46E-01
		60"	7.23E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	3.61E-01	8.93E-04	2.20E-04	2.89E-01	8.20E-04	2.20E-04	2.46E-01
		72"	7.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	3.61E-01	8.75E-04	2.22E-04	2.89E-01	1.04E-03	2.22E-04	2.46E-01
	South-East China	36"	7.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	3.94E-01	1.26E-03	3.17E-04	3.16E-01	1.13E-03	3.17E-04	2.67E-01
		48"	7.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	3.95E-01	9.72E-04	2.54E-04	3.17E-01	9.36E-04	2.54E-04	2.67E-01
		60"	7.23E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	3.95E-01	8.93E-04	2.20E-04	3.17E-01	8.20E-04	2.20E-04	2.67E-01
		72"	7.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	3.95E-01	8.75E-04	2.22E-04	3.17E-01	1.04E-03	2.22E-04	2.67E-01
	India	36"	9.29E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.96E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.11E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	8.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	6.53E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.30E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	6.37E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.28E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	9.54E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	3.54E-01	1.13E-03	3.17E-04	3.03E-01	1.18E-03	3.17E-04	2.59E-01	1.15E-03	3.17E-04	3.37E-01	1.26E-03	3.17E-04	2.58E-01	1.13E-03	3.17E-04	2.10E-01
		48"	9.20E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	3.55E-01	9.36E-04	2.54E-04	3.04E-01	9.71E-04	2.54E-04	2.59E-01	7.49E-04	2.54E-04	3.38E-01	9.72E-04	2.54E-04	2.58E-01	9.36E-04	2.54E-04	2.10E-01
		60"	9.39E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	3.55E-01	8.20E-04	2.20E-04	3.04E-01	7.77E-04	2.20E-04	2.60E-01	7.68E-04	2.20E-04	3.38E-01	8.93E-04	2.20E-04	2.58E-01	8.20E-04	2.20E-04	2.10E-01
		72"	9.24E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	3.55E-01	1.04E-03	2.22E-04	3.04E-01	8.35E-04	2.22E-04	2.60E-01	7.40E-04	2.22E-04	3.38E-01	8.75E-04	2.22E-04	2.58E-01	1.04E-03	2.22E-04	2.10E-01
	Russia	36"	7.18E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	5.80E-02	1.26E-03	3.17E-04	4.56E-02	1.13E-03	3.17E-04	2.79E-02
		48"	6.92E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	5.84E-02	9.72E-04	2.54E-04	4.59E-02	9.36E-04	2.54E-04	2.82E-02
		60"	7.00E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	5.84E-02	8.93E-04	2.20E-04	4.60E-02	8.20E-04	2.20E-04	2.83E-02
		72"	6.89E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	5.85E-02	8.75E-04	2.22E-04	4.61E-02	1.04E-03	2.22E-04	2.81E-02
	China, Mid-East Coast	36"	7.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	3.32E-01	1.26E-03	3.17E-04	2.63E-01	1.13E-03	3.17E-04	2.19E-01
		48"	7.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	3.32E-01	9.72E-04	2.54E-04	2.63E-01	9.36E-04	2.54E-04	2.19E-01
		60"	7.23E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	3.32E-01	8.93E-04	2.20E-04	2.63E-01	8.20E-04	2.20E-04	2.19E-01
		72"	7.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	3.32E-01	8.75E-04	2.22E-04	2.63E-01	1.04E-03	2.22E-04	2.19E-01
Turkey	36"	8.18E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	2.26E-01	-	-	-	-	-	-	-	-	-	1.26E-03	3.17E-04	1.82E-01	-	-	-	
	48"	7.88E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	2.26E-01	-	-	-	-	-	-	-	-	-	9.72E-04	2.54E-04	1.82E-01	-	-	-	
	60"	7.99E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	2.26E-01	-	-	-	-	-	-	-	-	-	8.93E-04	2.20E-04	1.82E-01	-	-	-	
	72"	7.88E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	2.26E-01	-	-	-	-	-	-	-	-	-	8.75E-04	2.22E-04	1.82E-01	-	-	-	

TABLE 34: EMBODIED PO4E & NET PO4E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)		All Films		Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70				
		Transportation to Customer		Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved		
		36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	
Asia	North-East China	36"	7.39E-04	1.13E-03	3.17E-04	2.11E-01	1.18E-03	3.17E-04	1.94E-01	-	-	-	-	-	-	-	-	1.16E-03	3.17E-04	2.15E-01	1.14E-03	2.99E-04	1.71E-01			
		48"	7.13E-04	9.36E-04	2.54E-04	2.11E-01	9.71E-04	2.54E-04	1.94E-01	-	-	-	-	-	-	-	-	-	9.57E-04	2.54E-04	2.15E-01	9.38E-04	2.54E-04	1.72E-01		
		60"	7.23E-04	8.20E-04	2.20E-04	2.12E-01	7.77E-04	2.20E-04	1.94E-01	-	-	-	-	-	-	-	-	-	8.37E-04	2.20E-04	2.15E-01	8.22E-04	2.20E-04	1.72E-01		
		72"	7.14E-04	1.04E-03	2.22E-04	2.11E-01	8.35E-04	2.22E-04	1.94E-01	-	-	-	-	-	-	-	-	-	8.26E-04	2.22E-04	2.15E-01	8.15E-04	2.22E-04	1.72E-01		
	South-East China	36"	7.39E-04	1.13E-03	3.17E-04	2.23E-01	1.18E-03	3.17E-04	1.97E-01	-	-	-	-	-	-	-	-	-	1.16E-03	3.17E-04	2.03E-01	1.14E-03	2.99E-04	1.44E-01		
		48"	7.13E-04	9.36E-04	2.54E-04	2.23E-01	9.71E-04	2.54E-04	1.97E-01	-	-	-	-	-	-	-	-	-	9.57E-04	2.54E-04	2.03E-01	9.38E-04	2.54E-04	1.44E-01		
		60"	7.23E-04	8.20E-04	2.20E-04	2.23E-01	7.77E-04	2.20E-04	1.97E-01	-	-	-	-	-	-	-	-	-	8.37E-04	2.20E-04	2.03E-01	8.22E-04	2.20E-04	1.44E-01		
		72"	7.14E-04	1.04E-03	2.22E-04	2.23E-01	8.35E-04	2.22E-04	1.97E-01	-	-	-	-	-	-	-	-	-	8.26E-04	2.22E-04	2.03E-01	8.15E-04	2.22E-04	1.44E-01		
	India	36"	9.29E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18E-03	3.17E-04	2.32E-01	-	-	-	1.14E-03	2.99E-04	1.15E-01
		48"	8.96E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.71E-04	2.54E-04	2.33E-01	-	-	-	9.38E-04	2.54E-04	1.15E-01
		60"	9.11E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.77E-04	2.20E-04	2.33E-01	-	-	-	8.22E-04	2.20E-04	1.15E-01
		72"	8.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.35E-04	2.22E-04	2.33E-01	-	-	-	8.15E-04	2.22E-04	1.15E-01
	Japan	36"	6.53E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	1.46E-01	1.20E-03	3.17E-04	1.18E-01	1.18E-03	3.17E-04	1.03E-01	1.16E-03	3.17E-04	7.59E-02	1.14E-03	2.99E-04	5.81E-02		
		48"	6.30E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	1.46E-01	9.87E-04	2.54E-04	1.19E-01	9.71E-04	2.54E-04	1.03E-01	9.57E-04	2.54E-04	7.62E-02	9.38E-04	2.54E-04	5.83E-02		
		60"	6.37E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	1.46E-01	8.61E-04	2.20E-04	1.19E-01	7.77E-04	2.20E-04	1.03E-01	8.37E-04	2.20E-04	7.64E-02	8.22E-04	2.20E-04	5.85E-02		
		72"	6.28E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	1.46E-01	8.46E-04	2.22E-04	1.19E-01	8.35E-04	2.22E-04	1.03E-01	8.26E-04	2.22E-04	7.64E-02	8.15E-04	2.22E-04	5.85E-02		
	Middle East	36"	9.54E-04	1.13E-03	3.17E-04	1.71E-01	1.18E-03	3.17E-04	1.49E-01	1.26E-03	3.17E-04	3.36E-01	1.20E-03	3.17E-04	2.61E-01	1.18E-03	3.17E-04	2.21E-01	1.16E-03	3.17E-04	1.52E-01	1.14E-03	2.99E-04	1.08E-01		
		48"	9.20E-04	9.36E-04	2.54E-04	1.71E-01	9.71E-04	2.54E-04	1.50E-01	9.72E-04	2.54E-04	3.36E-01	9.87E-04	2.54E-04	2.61E-01	9.71E-04	2.54E-04	2.21E-01	9.57E-04	2.54E-04	1.52E-01	9.38E-04	2.54E-04	1.09E-01		
		60"	9.39E-04	8.20E-04	2.20E-04	1.71E-01	7.77E-04	2.20E-04	1.50E-01	8.93E-04	2.20E-04	3.36E-01	8.61E-04	2.20E-04	2.61E-01	7.77E-04	2.20E-04	2.21E-01	8.37E-04	2.20E-04	1.52E-01	8.22E-04	2.20E-04	1.09E-01		
		72"	9.24E-04	1.04E-03	2.22E-04	1.71E-01	8.35E-04	2.22E-04	1.50E-01	8.75E-04	2.22E-04	3.36E-01	8.46E-04	2.22E-04	2.61E-01	8.35E-04	2.22E-04	2.21E-01	8.26E-04	2.22E-04	1.52E-01	8.15E-04	2.22E-04	1.09E-01		
	Russia	36"	7.18E-04	1.13E-03	3.17E-04	2.44E-02	1.18E-03	3.17E-04	2.04E-02	1.26E-03	3.17E-04	4.14E-02	1.20E-03	3.17E-04	3.51E-02	-	-	-	1.16E-03	3.17E-04	2.32E-02	1.14E-03	2.99E-04	1.90E-02		
		48"	6.92E-04	9.36E-04	2.54E-04	2.46E-02	9.71E-04	2.54E-04	2.07E-02	9.72E-04	2.54E-04	4.18E-02	9.87E-04	2.54E-04	3.54E-02	-	-	-	9.57E-04	2.54E-04	2.35E-02	9.38E-04	2.54E-04	1.92E-02		
		60"	7.00E-04	8.20E-04	2.20E-04	2.48E-02	7.77E-04	2.20E-04	2.09E-02	8.93E-04	2.20E-04	4.19E-02	8.61E-04	2.20E-04	3.55E-02	-	-	-	8.37E-04	2.20E-04	2.37E-02	8.22E-04	2.20E-04	1.94E-02		
		72"	6.89E-04	1.04E-03	2.22E-04	2.46E-02	8.35E-04	2.22E-04	2.08E-02	8.75E-04	2.22E-04	4.19E-02	8.46E-04	2.22E-04	3.56E-02	-	-	-	8.26E-04	2.22E-04	2.37E-02	8.15E-04	2.22E-04	1.94E-02		
	China, Mid-East Coast	36"	7.39E-04	1.13E-03	3.17E-04	1.80E-01	1.18E-03	3.17E-04	1.60E-01	-	-	-	-	-	-	-	-	-	1.16E-03	3.17E-04	1.62E-01	1.14E-03	2.99E-04	1.16E-01		
		48"	7.13E-04	9.36E-04	2.54E-04	1.81E-01	9.71E-04	2.54E-04	1.60E-01	-	-	-	-	-	-	-	-	-	9.57E-04	2.54E-04	1.62E-01	9.38E-04	2.54E-04	1.17E-01		
		60"	7.23E-04	8.20E-04	2.20E-04	1.81E-01	7.77E-04	2.20E-04	1.60E-01	-	-	-	-	-	-	-	-	-	8.37E-04	2.20E-04	1.62E-01	8.22E-04	2.20E-04	1.17E-01		
		72"	7.14E-04	1.04E-03	2.22E-04	1.81E-01	8.35E-04	2.22E-04	1.60E-01	-	-	-	-	-	-	-	-	-	8.26E-04	2.22E-04	1.62E-01	8.15E-04	2.22E-04	1.17E-01		
	Turkey	36"	8.18E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18E-03	3.17E-04	1.59E-01	1.16E-03	3.17E-04	1.22E-01	-	-	
		48"	7.88E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.71E-04	2.54E-04	1.59E-01	9.57E-04	2.54E-04	1.22E-01	-	-	
		60"	7.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.77E-04	2.20E-04	1.59E-01	8.37E-04	2.20E-04	1.22E-01	-	-	
		72"	7.88E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.35E-04	2.22E-04	1.59E-01	8.26E-04	2.22E-04	1.22E-01	-	-	

TABLE 35: EMBODIED PO4E & NET PO4E SAVINGS IN THE SOUTHERN HEMISPHERE

15 Year Lifecycle (kg PO4e / Meter^2)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	
Southern Hemisphere	Southern Africa	36"	1.13E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.12E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	7.00E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	1.30E-01	1.15E-03	3.17E-04	1.37E-01	-	-	-	1.15E-03	3.17E-04	1.36E-01	-	-	-	1.15E-03	3.17E-04	1.41E-01
		48"	6.73E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	1.31E-01	7.49E-04	2.54E-04	1.38E-01	-	-	-	7.49E-04	2.54E-04	1.37E-01	3.72E-03	2.54E-04	9.56E-02	7.49E-04	2.54E-04	1.41E-01
		60"	6.82E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	1.31E-01	7.68E-04	2.20E-04	1.38E-01	-	-	-	7.68E-04	2.20E-04	1.37E-01	3.06E-03	2.20E-04	9.63E-02	7.68E-04	2.20E-04	1.41E-01
		72"	6.73E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	1.41E-01
	Australia	36"	9.29E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.99E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	9.01E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	36"	6.60E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	4.28E-02	1.15E-03	3.17E-04	4.52E-02	-	-	-	1.15E-03	3.17E-04	4.54E-02	-	-	-	1.15E-03	3.17E-04	4.70E-02	
	48"	6.38E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	4.32E-02	7.49E-04	2.54E-04	4.57E-02	-	-	-	7.49E-04	2.54E-04	4.59E-02	3.72E-03	2.54E-04	3.02E-02	7.49E-04	2.54E-04	4.75E-02	
	60"	6.46E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	4.33E-02	7.68E-04	2.20E-04	4.57E-02	-	-	-	7.68E-04	2.20E-04	4.59E-02	3.06E-03	2.20E-04	3.08E-02	7.68E-04	2.20E-04	4.75E-02	
	72"	6.35E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	4.75E-02	

TABLE 36: EMBODIED PO4E & NET PO4E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30			
			Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved
Southern Hemisphere	Southern Africa	36"	1.13E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.12E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Argentina	36"	7.00E-04	1.26E-03	3.17E-04	1.20E-01	-	-	-	-	-	-	-	-	-	-	-	-	1.40E-03	4.02E-04	1.42E-01	1.33E-03	4.02E-04	1.20E-01	-	-	-
		48"	6.73E-04	9.72E-04	2.54E-04	1.20E-01	-	-	-	-	-	-	-	-	-	-	-	-	1.13E-03	5.06E-04	1.42E-01	1.08E-03	5.06E-04	1.20E-01	-	-	-
		60"	6.82E-04	8.93E-04	2.20E-04	1.21E-01	-	-	-	-	-	-	-	-	-	-	-	-	9.79E-04	2.71E-04	1.43E-01	9.36E-04	2.71E-04	1.21E-01	-	-	-
		72"	6.73E-04	8.75E-04	2.22E-04	1.21E-01	-	-	-	-	-	-	-	-	-	-	-	-	9.32E-04	2.37E-04	1.43E-01	8.96E-04	2.37E-04	1.21E-01	-	-	-
	Australia	36"	9.29E-04	-	-	-	1.26E-03	3.17E-04	2.06E-01	1.13E-03	3.17E-04	1.77E-01	-	-	-	-	-	-	1.40E-03	4.02E-04	2.28E-01	1.33E-03	4.02E-04	1.97E-01	-	-	-
		48"	8.99E-04	-	-	-	9.72E-04	2.54E-04	2.06E-01	9.36E-04	2.54E-04	1.78E-01	-	-	-	-	-	-	1.13E-03	5.06E-04	2.28E-01	1.08E-03	5.06E-04	1.98E-01	-	-	-
		60"	9.13E-04	-	-	-	8.93E-04	2.20E-04	2.06E-01	8.20E-04	2.20E-04	1.78E-01	-	-	-	-	-	-	9.79E-04	2.71E-04	2.29E-01	9.36E-04	2.71E-04	1.98E-01	-	-	-
		72"	9.01E-04	-	-	-	8.75E-04	2.22E-04	2.06E-01	1.04E-03	2.22E-04	1.78E-01	-	-	-	-	-	-	9.32E-04	2.37E-04	2.29E-01	8.96E-04	2.37E-04	1.98E-01	-	-	-
Brazil	36"	6.60E-04	-	-	-	1.26E-03	3.17E-04	4.92E-02	-	-	-	-	-	-	-	-	-	1.40E-03	4.02E-04	4.70E-02	-	-	-	-	-	-	
	48"	6.38E-04	-	-	-	9.72E-04	2.54E-04	4.95E-02	-	-	-	-	-	-	-	-	-	1.13E-03	5.06E-04	4.72E-02	-	-	-	-	-	-	
	60"	6.46E-04	-	-	-	8.93E-04	2.20E-04	4.96E-02	-	-	-	-	-	-	-	-	-	9.79E-04	2.71E-04	4.76E-02	-	-	-	-	-	-	
	72"	6.35E-04	-	-	-	8.93E-04	2.22E-04	4.97E-02	-	-	-	-	-	-	-	-	-	9.32E-04	2.37E-04	4.77E-02	-	-	-	-	-	-	

TABLE 37: EMBODIED PO4E & NET PO4E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)		All Films			Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30				
		Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved				
Southern Hemisphere	Southern Africa	36"	1.13E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.12E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Argentina	36"	7.00E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	1.47E-01	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	1.48E-01	1.26E-03	3.17E-04	1.23E-01	1.13E-03	3.17E-04	9.93E-02
		48"	6.73E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	1.47E-01	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	1.49E-01	9.72E-04	2.54E-04	1.23E-01	9.36E-04	2.54E-04	9.96E-02
		60"	6.82E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	1.48E-01	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	1.49E-01	8.93E-04	2.20E-04	1.23E-01	8.20E-04	2.20E-04	9.97E-02
		72"	6.73E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	1.48E-01	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	1.49E-01	8.75E-04	2.22E-04	1.23E-01	1.04E-03	2.22E-04	9.95E-02
	Australia	36"	9.29E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	2.21E-01	1.13E-03	3.17E-04	1.93E-01	-	-	-	-	-	-	-	-	-	1.26E-03	3.17E-04	1.70E-01	-	-	-
		48"	8.99E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	2.22E-01	9.36E-04	2.54E-04	1.94E-01	-	-	-	-	-	-	-	-	-	9.72E-04	2.54E-04	1.70E-01	-	-	-
		60"	9.13E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	2.22E-01	8.20E-04	2.20E-04	1.94E-01	-	-	-	-	-	-	-	-	-	8.93E-04	2.20E-04	1.70E-01	-	-	-
		72"	9.01E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	2.22E-01	1.04E-03	2.22E-04	1.93E-01	-	-	-	-	-	-	-	-	-	8.75E-04	2.22E-04	1.70E-01	-	-	-
	Brazil	36"	6.60E-04	-	-	-	-	-	-	1.26E-03	3.17E-04	4.95E-02	-	-	-	-	-	-	-	-	-	1.15E-03	3.17E-04	4.96E-02	1.26E-03	3.17E-04	4.02E-02	1.13E-03	3.17E-04	3.24E-02
		48"	6.38E-04	-	-	-	-	-	-	9.72E-04	2.54E-04	4.99E-02	-	-	-	-	-	-	-	-	-	7.49E-04	2.54E-04	5.00E-02	9.72E-04	2.54E-04	4.06E-02	9.36E-04	2.54E-04	3.26E-02
		60"	6.46E-04	-	-	-	-	-	-	8.93E-04	2.20E-04	5.00E-02	-	-	-	-	-	-	-	-	-	7.68E-04	2.20E-04	5.01E-02	8.93E-04	2.20E-04	4.07E-02	8.20E-04	2.20E-04	3.28E-02
		72"	6.35E-04	-	-	-	-	-	-	8.75E-04	2.22E-04	5.00E-02	-	-	-	-	-	-	-	-	-	7.40E-04	2.22E-04	5.01E-02	8.75E-04	2.22E-04	4.07E-02	1.04E-03	2.22E-04	3.26E-02

TABLE 38: EMBODIED PO4E & NET PO4E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg PO4e / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70					
		Transportation to Customer	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved	Manufacturing	End-of-Life	Net PO4 Saved			
Southern Hemisphere	Southern Africa	36"	1.13E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.12E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Argentina	36"	7.00E-04	-	-	-	-	-	-	-	-	-	-	-	1.18E-03	3.17E-04	1.05E-01	-	-	-	1.14E-03	2.99E-04	5.16E-02	-	-	
		48"	6.73E-04	-	-	-	-	-	-	-	-	-	-	-	9.71E-04	2.54E-04	1.05E-01	-	-	-	9.38E-04	2.54E-04	5.18E-02	-	-	
		60"	6.82E-04	-	-	-	-	-	-	-	-	-	-	-	7.77E-04	2.20E-04	1.05E-01	-	-	-	8.22E-04	2.20E-04	5.20E-02	-	-	
		72"	6.73E-04	-	-	-	-	-	-	-	-	-	-	-	8.35E-04	2.22E-04	1.05E-01	-	-	-	8.15E-04	2.22E-04	5.20E-02	-	-	
	Australia	36"	9.29E-04	1.13E-03	3.17E-04	1.17E-01	1.18E-03	3.17E-04	1.03E-01	1.26E-03	3.17E-04	2.16E-01	1.20E-03	3.17E-04	1.71E-01	1.18E-03	3.17E-04	1.43E-01	1.16E-03	3.17E-04	1.01E-01	1.14E-03	2.99E-04	7.19E-02	-	-
		48"	8.99E-04	9.36E-04	2.54E-04	1.17E-01	9.71E-04	2.54E-04	1.03E-01	9.72E-04	2.54E-04	2.17E-01	9.87E-04	2.54E-04	1.72E-01	9.71E-04	2.54E-04	1.43E-01	9.57E-04	2.54E-04	1.02E-01	9.38E-04	2.54E-04	7.22E-02	-	-
		60"	9.13E-04	8.20E-04	2.20E-04	1.17E-01	7.77E-04	2.20E-04	1.04E-01	8.93E-04	2.20E-04	2.17E-01	8.61E-04	2.20E-04	1.72E-01	7.77E-04	2.20E-04	1.44E-01	8.37E-04	2.20E-04	1.02E-01	8.22E-04	2.20E-04	7.23E-02	-	-
		72"	9.01E-04	1.04E-03	2.22E-04	1.17E-01	8.35E-04	2.22E-04	1.04E-01	8.75E-04	2.22E-04	2.17E-01	8.46E-04	2.22E-04	1.72E-01	8.35E-04	2.22E-04	1.44E-01	8.26E-04	2.22E-04	1.02E-01	8.15E-04	2.22E-04	7.23E-02	-	-
	Brazil	36"	6.60E-04	-	-	-	-	-	-	-	-	-	-	-	1.18E-03	3.17E-04	3.77E-02	-	-	-	1.14E-03	2.99E-04	1.66E-02	-	-	
		48"	6.38E-04	-	-	-	-	-	-	-	-	-	-	-	9.71E-04	2.54E-04	3.80E-02	-	-	-	9.38E-04	2.54E-04	1.69E-02	-	-	
		60"	6.46E-04	-	-	-	-	-	-	-	-	-	-	-	7.77E-04	2.20E-04	3.82E-02	-	-	-	8.22E-04	2.20E-04	1.70E-02	-	-	
		72"	6.35E-04	-	-	-	-	-	-	-	-	-	-	-	8.35E-04	2.22E-04	3.82E-02	-	-	-	8.15E-04	2.22E-04	1.70E-02	-	-	

FOSSIL FUEL USE:

Tables 39 to 54 below show the energy in MegaJoules (MJ) from fossil fuels embodied (MJe) in one m² of film, and the fossil fuel use reductions in MegaJoules for all the types of window films sold in each of the 24 geographic regions where SGSG window films are distributed.

TABLE 39: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN NORTH AMERICA

15 Year Lifecycle (MJe / Meter ²)			All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			HighLite 70			Quantum Silver Quantum 10		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
North America	ASHRAE Climate Zone 1,2	36"	9.97E-01	6.31E+01	4.66E-02	1.49E+04	6.51E+01	4.66E-02	2.43E+04	6.59E+01	4.66E-02	1.99E+04	6.22E+01	4.66E-02	2.15E+04	6.51E+01	4.66E-02	2.29E+04	6.22E+01	4.66E-02	2.13E+04	-	-	-	6.22E+01	4.66E-02	2.24E+04
		48"	8.10E-01	5.39E+01	3.50E-02	1.49E+04	5.44E+01	3.50E-02	2.43E+04	5.49E+01	3.50E-02	2.00E+04	4.80E+01	3.50E-02	2.15E+04	5.44E+01	3.50E-02	2.29E+04	4.80E+01	3.50E-02	2.13E+04	1.32E+02	3.50E-02	1.51E+04	4.80E+01	3.50E-02	2.24E+04
		72"	7.30E-01	5.42E+01	3.03E-02	1.49E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02
	ASHRAE Climate Zone 3	36"	9.97E-01	6.31E+01	4.66E-02	1.41E+04	6.51E+01	4.66E-02	2.23E+04	6.59E+01	4.66E-02	1.87E+04	6.22E+01	4.66E-02	2.00E+04	6.51E+01	4.66E-02	2.12E+04	6.22E+01	4.66E-02	1.99E+04	-	-	-	6.22E+01	4.66E-02	2.08E+04
		48"	8.10E-01	5.39E+01	3.50E-02	1.41E+04	5.44E+01	3.50E-02	2.23E+04	5.49E+01	3.50E-02	1.87E+04	4.80E+01	3.50E-02	2.01E+04	5.44E+01	3.50E-02	2.12E+04	4.80E+01	3.50E-02	1.99E+04	1.32E+02	3.50E-02	1.41E+04	4.80E+01	3.50E-02	2.08E+04
		72"	7.30E-01	5.42E+01	3.03E-02	1.41E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02
	ASHRAE Climate Zone 4	36"	9.97E-01	6.31E+01	4.66E-02	7.28E+03	6.51E+01	4.66E-02	1.09E+04	6.59E+01	4.66E-02	1.04E+04	6.22E+01	4.66E-02	1.00E+04	6.51E+01	4.66E-02	1.04E+04	6.22E+01	4.66E-02	9.59E+03	-	-	-	6.22E+01	4.66E-02	9.97E+03
		48"	8.10E-01	5.39E+01	3.50E-02	7.28E+03	5.44E+01	3.50E-02	1.09E+04	5.49E+01	3.50E-02	1.04E+04	4.80E+01	3.50E-02	1.00E+04	5.44E+01	3.50E-02	1.04E+04	4.80E+01	3.50E-02	9.60E+03	1.32E+02	3.50E-02	7.19E+03	4.80E+01	3.50E-02	9.98E+03
		72"	7.30E-01	5.42E+01	3.03E-02	7.28E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02
	ASHRAE Climate Zone 5	36"	9.97E-01	6.31E+01	4.66E-02	8.07E+03	6.51E+01	4.66E-02	7.98E+03	6.59E+01	4.66E-02	6.84E+03	6.22E+01	4.66E-02	7.20E+03	6.51E+01	4.66E-02	7.52E+03	6.22E+01	4.66E-02	6.98E+03	-	-	-	6.22E+01	4.66E-02	7.12E+03
		48"	8.10E-01	5.39E+01	3.50E-02	8.08E+03	5.44E+01	3.50E-02	7.99E+03	5.49E+01	3.50E-02	6.85E+03	4.80E+01	3.50E-02	7.21E+03	5.44E+01	3.50E-02	7.53E+03	4.80E+01	3.50E-02	7.00E+03	1.32E+02	3.50E-02	6.12E+03	4.80E+01	3.50E-02	7.13E+03
		72"	7.30E-01	5.42E+01	3.03E-02	8.08E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02
	ASHRAE Climate Zone 6,7	36"	9.97E-01	6.31E+01	4.66E-02	6.41E+03	6.51E+01	4.66E-02	6.56E+03	6.59E+01	4.66E-02	5.88E+03	6.22E+01	4.66E-02	6.43E+03	6.51E+01	4.66E-02	6.67E+03	6.22E+01	4.66E-02	6.14E+03	-	-	-	6.22E+01	4.66E-02	6.23E+03
		48"	8.10E-01	5.39E+01	3.50E-02	6.42E+03	5.44E+01	3.50E-02	6.57E+03	5.49E+01	3.50E-02	5.89E+03	4.80E+01	3.50E-02	6.44E+03	5.44E+01	3.50E-02	6.68E+03	4.80E+01	3.50E-02	6.15E+03	1.32E+02	3.50E-02	5.41E+03	4.80E+01	3.50E-02	6.25E+03
		72"	7.30E-01	5.42E+01	3.03E-02	6.42E+03	4.78E+01	2.99E-02	6.58E+03	4.84E+01	2.99E-02	5.90E+03	4.28E+01	2.99E-02	6.45E+03	4.78E+01	2.99E-02	6.69E+03	4.28E+01	2.99E-02	6.16E+03	1.08E+02	2.99E-02	5.43E+03	4.28E+01	2.99E-02	6.25E+03
	Canada	36"	1.66E+00	6.31E+01	4.66E-02	7.03E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.46E+00	5.39E+01	3.50E-02	7.12E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32E+02	3.50E-02	7.75E+02	-	-	-
		72"	1.37E+00	4.76E+01	2.99E-02	7.18E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.08E+02	2.99E-02	7.98E+02	-	-	-
	Mexico	36"	9.87E-01	-	-	-	6.51E+01	4.66E-02	1.33E+04	6.59E+01	4.66E-02	1.11E+04	-	-	-	6.51E+01	4.66E-02	1.26E+04	6.22E+01	4.66E-02	1.21E+04	-	-	-	-	-	-
		48"	8.02E-01	-	-	-	5.44E+01	3.50E-02	1.33E+04	5.49E+01	3.50E-02	1.12E+04	-	-	-	5.44E+01	3.50E-02	1.26E+04	4.80E+01	3.50E-02	1.21E+04	1.32E+02	3.50E-02	8.37E+03	-	-	-
		60"	7.02E-01	-	-	-	4.78E+01	2.99E-02	1.33E+04	4.84E+01	2.99E-02	1.12E+04	-	-	-	4.78E+01	2.99E-02	1.26E+04	4.28E+01	2.99E-02	1.21E+04	1.08E+02	2.99E-02	8.39E+03	-	-	-
		72"	7.18E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 40: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (MJe / Meter^2)			All Films		Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	
North America	ASHRAE Climate Zone 1,2	36"	9.97E-01	6.59E+01	4.66E-02	1.72E+04	6.59E+01	4.66E-02	2.27E+04	6.44E+01	4.66E-02	1.93E+04	6.40E+01	4.66E-02	1.37E+04	6.58E+01	4.66E-02	2.34E+04	7.55E+01	4.66E-02	2.54E+04	7.37E+01	5.88E-02	2.16E+04	7.26E+01	5.88E-02	1.89E+04	
		48"	8.10E-01	5.49E+01	3.50E-02	1.72E+04	5.49E+01	3.50E-02	2.27E+04	5.39E+01	3.50E-02	1.94E+04	5.36E+01	3.50E-02	1.38E+04	5.49E+01	3.50E-02	2.34E+04	6.22E+01	4.41E-02	2.54E+04	6.06E+01	4.41E-02	2.16E+04	6.01E+01	4.41E-02	1.89E+04	
		72"	7.30E-01	4.85E+01	3.03E-02	1.72E+04	4.85E+01	3.03E-02	2.27E+04	5.42E+01	3.03E-02	1.94E+04	4.76E+01	3.03E-02	1.38E+04	-	-	-	5.12E+01	3.25E-02	2.54E+04	5.01E+01	3.25E-02	2.16E+04	4.95E+01	3.25E-02	1.89E+04	
	ASHRAE Climate Zone 3	36"	9.97E-01	6.59E+01	4.66E-02	1.62E+04	6.59E+01	4.66E-02	2.14E+04	6.44E+01	4.66E-02	1.81E+04	6.40E+01	4.66E-02	1.30E+04	6.58E+01	4.66E-02	2.15E+04	7.55E+01	4.66E-02	2.32E+04	7.37E+01	5.88E-02	2.01E+04	7.26E+01	5.88E-02	1.77E+04	
		48"	8.10E-01	5.49E+01	3.50E-02	1.62E+04	5.49E+01	3.50E-02	2.14E+04	4.76E+01	3.50E-02	1.81E+04	4.73E+01	3.50E-02	1.30E+04	4.84E+01	3.50E-02	2.15E+04	6.22E+01	4.41E-02	2.32E+04	5.29E+01	3.75E-02	2.01E+04	6.01E+01	4.41E-02	1.77E+04	
		72"	7.30E-01	4.85E+01	3.03E-02	1.62E+04	4.85E+01	3.03E-02	2.14E+04	5.42E+01	3.03E-02	1.81E+04	4.76E+01	3.03E-02	1.30E+04	-	-	-	5.12E+01	3.25E-02	2.32E+04	5.01E+01	3.25E-02	2.01E+04	4.95E+01	3.25E-02	1.77E+04	
	ASHRAE Climate Zone 4	36"	9.97E-01	6.59E+01	4.66E-02	8.06E+03	6.59E+01	4.66E-02	1.04E+04	6.44E+01	4.66E-02	9.15E+03	6.40E+01	4.66E-02	6.73E+03	6.58E+01	4.66E-02	1.18E+04	7.55E+01	4.66E-02	1.09E+04	7.37E+01	5.88E-02	8.80E+03	7.26E+01	5.88E-02	9.23E+03	
		48"	8.10E-01	5.49E+01	3.50E-02	8.07E+03	5.49E+01	3.50E-02	1.04E+04	5.39E+01	3.50E-02	9.16E+03	5.36E+01	3.50E-02	6.74E+03	5.49E+01	3.50E-02	1.19E+04	6.22E+01	4.41E-02	1.09E+04	6.06E+01	4.41E-02	8.82E+03	6.01E+01	4.41E-02	9.25E+03	
		72"	7.30E-01	4.85E+01	3.03E-02	8.07E+03	4.85E+01	3.03E-02	1.04E+04	5.42E+01	3.03E-02	9.16E+03	4.76E+01	3.03E-02	6.74E+03	-	-	-	5.12E+01	3.25E-02	1.09E+04	5.01E+01	3.25E-02	8.83E+03	4.95E+01	3.25E-02	9.26E+03	
	ASHRAE Climate Zone 5	36"	9.97E-01	6.59E+01	4.66E-02	5.66E+03	6.59E+01	4.66E-02	8.34E+03	6.44E+01	4.66E-02	7.12E+03	6.40E+01	4.66E-02	5.62E+03	6.58E+01	4.66E-02	8.64E+03	7.55E+01	4.66E-02	8.11E+03	7.37E+01	5.88E-02	7.31E+03	7.26E+01	5.88E-02	6.66E+03	
		48"	8.10E-01	5.49E+01	3.50E-02	5.67E+03	5.49E+01	3.50E-02	8.35E+03	5.39E+01	3.50E-02	7.13E+03	5.36E+01	3.50E-02	5.63E+03	5.49E+01	3.50E-02	8.65E+03	6.22E+01	4.41E-02	8.13E+03	6.06E+01	4.41E-02	7.32E+03	6.01E+01	4.41E-02	6.67E+03	
		72"	7.30E-01	4.85E+01	3.03E-02	5.68E+03	4.85E+01	3.03E-02	8.36E+03	5.42E+01	3.03E-02	7.13E+03	4.76E+01	3.03E-02	5.64E+03	-	-	-	5.12E+01	3.25E-02	8.14E+03	5.01E+01	3.25E-02	7.34E+03	4.95E+01	3.25E-02	6.68E+03	
	ASHRAE Climate Zone 6,7	36"	9.97E-01	6.59E+01	4.66E-02	4.97E+03	6.59E+01	4.66E-02	7.45E+03	6.44E+01	4.66E-02	6.34E+03	6.40E+01	4.66E-02	4.99E+03	6.58E+01	4.66E-02	7.89E+03	7.55E+01	4.66E-02	7.16E+03	7.37E+01	5.88E-02	6.42E+03	7.26E+01	5.88E-02	5.84E+03	
		48"	8.10E-01	5.49E+01	3.50E-02	4.98E+03	5.49E+01	3.50E-02	7.46E+03	5.39E+01	3.50E-02	6.35E+03	5.36E+01	3.50E-02	5.00E+03	5.49E+01	3.50E-02	7.90E+03	6.22E+01	4.41E-02	7.17E+03	6.06E+01	4.41E-02	6.43E+03	6.01E+01	4.41E-02	5.85E+03	
		72"	7.30E-01	4.85E+01	3.03E-02	4.99E+03	4.85E+01	3.03E-02	7.47E+03	5.42E+01	3.03E-02	6.35E+03	4.76E+01	3.03E-02	5.01E+03	-	-	-	5.12E+01	3.25E-02	7.18E+03	5.01E+01	3.25E-02	6.44E+03	4.95E+01	3.25E-02	5.86E+03	
	Canada	36"	1.66E+00	-	-	-	6.59E+01	4.66E-02	4.47E+02	6.44E+01	4.66E-02	8.37E+02	6.40E+01	4.66E-02	8.99E+02	6.58E+01	4.66E-02	1.73E+03	7.55E+01	4.66E-02	2.66E+02	7.37E+01	5.88E-02	5.49E+02	7.26E+01	5.88E-02	7.24E+02	
		48"	1.46E+00	-	-	-	5.49E+01	3.50E-02	4.58E+02	5.39E+01	3.50E-02	8.47E+02	5.36E+01	3.50E-02	9.10E+02	5.49E+01	3.50E-02	1.74E+03	6.22E+01	4.41E-02	2.79E+02	6.06E+01	4.41E-02	5.62E+02	6.01E+01	4.41E-02	7.36E+02	
		60"	1.37E+00	-	-	-	4.84E+01	2.99E-02	4.65E+02	4.76E+01	2.99E-02	8.54E+02	4.73E+01	2.99E-02	9.16E+02	4.84E+01	2.99E-02	1.75E+03	5.42E+01	3.75E-02	2.87E+02	5.29E+01	3.75E-02	5.70E+02	5.25E+01	3.75E-02	7.44E+02	
		72"	1.38E+00	-	-	-	4.85E+01	3.03E-02	4.65E+02	5.42E+01	3.03E-02	8.47E+02	4.76E+01	3.03E-02	9.16E+02	-	-	-	5.12E+01	3.25E-02	2.90E+02	5.01E+01	3.25E-02	5.73E+02	4.95E+01	3.25E-02	7.47E+02	
	Mexico	36"	9.87E-01	-	-	-	6.59E+01	4.66E-02	1.24E+04	6.44E+01	4.66E-02	1.07E+04	6.40E+01	4.66E-02	7.92E+03	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	8.02E-01	-	-	-	5.49E+01	3.50E-02	1.24E+04	5.39E+01	3.50E-02	1.07E+04	5.36E+01	3.50E-02	7.93E+03	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	7.18E-01	-	-	-	4.85E+01	3.03E-02	1.25E+04	5.42E+01	3.03E-02	1.07E+04	4.76E+01	3.03E-02	7.93E+03	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 41: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (MJe / Meter ²)			All Films		Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	
North America	ASHRAE Climate Zone 1,2	36"	8.10E-01	7.19E+01	5.88E-02	1.47E+04	6.40E+01	4.66E-02	1.47E+04	6.59E+01	4.66E-02	2.49E+04	6.44E+01	4.66E-02	2.17E+04	6.40E+01	4.66E-02	1.82E+04	6.22E+01	4.66E-02	2.37E+04	6.59E+01	4.66E-02	1.83E+04	6.31E+01	4.66E-02	1.50E+04	
		48"	7.08E-01	5.93E+01	4.41E-02	1.47E+04	5.36E+01	3.50E-02	1.47E+04	5.49E+01	3.50E-02	2.49E+04	5.39E+01	3.50E-02	2.17E+04	5.36E+01	3.50E-02	1.82E+04	4.80E+01	3.50E-02	2.37E+04	5.49E+01	3.50E-02	1.83E+04	5.39E+01	3.50E-02	1.50E+04	
		60"	7.30E-01	5.19E+01	3.75E-02	1.47E+04	4.73E+01	2.99E-02	1.47E+04	4.84E+01	2.99E-02	2.49E+04	4.76E+01	2.99E-02	2.18E+04	4.73E+01	2.99E-02	1.82E+04	4.28E+01	2.99E-02	2.37E+04	4.84E+01	2.99E-02	1.83E+04	4.76E+01	2.99E-02	1.50E+04	
	72"	9.97E-01	4.92E+01	3.25E-02	1.48E+04	4.76E+01	3.03E-02	1.47E+04	4.85E+01	3.03E-02	2.49E+04	5.42E+01	3.03E-02	2.17E+04	4.76E+01	3.03E-02	1.82E+04	4.29E+01	3.03E-02	2.37E+04	4.85E+01	3.03E-02	1.83E+04	5.42E+01	3.03E-02	1.50E+04		
	ASHRAE Climate Zone 3	36"	8.10E-01	7.19E+01	5.88E-02	1.39E+04	6.40E+01	4.66E-02	1.39E+04	6.59E+01	4.66E-02	2.27E+04	6.44E+01	4.66E-02	1.98E+04	6.40E+01	4.66E-02	1.71E+04	6.22E+01	4.66E-02	2.19E+04	6.59E+01	4.66E-02	1.72E+04	6.31E+01	4.66E-02	1.46E+04	
		48"	7.08E-01	5.93E+01	4.41E-02	1.39E+04	5.36E+01	3.50E-02	1.39E+04	5.49E+01	3.50E-02	2.27E+04	5.39E+01	3.50E-02	1.98E+04	5.36E+01	3.50E-02	1.71E+04	4.80E+01	3.50E-02	2.19E+04	5.49E+01	3.50E-02	1.72E+04	5.39E+01	3.50E-02	1.46E+04	
		60"	7.30E-01	5.19E+01	3.75E-02	1.39E+04	4.73E+01	2.99E-02	1.39E+04	4.84E+01	2.99E-02	2.27E+04	4.76E+01	2.99E-02	1.98E+04	4.73E+01	2.99E-02	1.71E+04	4.28E+01	2.99E-02	2.19E+04	4.84E+01	2.99E-02	1.72E+04	4.76E+01	2.99E-02	1.46E+04	
	72"	9.97E-01	4.92E+01	3.25E-02	1.39E+04	4.76E+01	3.03E-02	1.39E+04	4.85E+01	3.03E-02	2.27E+04	5.42E+01	3.03E-02	1.98E+04	4.76E+01	3.03E-02	1.71E+04	4.29E+01	3.03E-02	2.19E+04	4.85E+01	3.03E-02	1.72E+04	5.42E+01	3.03E-02	1.46E+04		
	ASHRAE Climate Zone 4	36"	8.10E-01	7.19E+01	5.88E-02	7.06E+03	6.40E+01	4.66E-02	7.07E+03	6.59E+01	4.66E-02	1.11E+04	6.44E+01	4.66E-02	9.96E+03	6.40E+01	4.66E-02	8.74E+03	6.22E+01	4.66E-02	1.05E+04	6.59E+01	4.66E-02	8.46E+03	6.31E+01	4.66E-02	7.12E+03	
		48"	7.08E-01	5.93E+01	4.41E-02	7.07E+03	5.36E+01	3.50E-02	7.08E+03	5.49E+01	3.50E-02	1.12E+04	5.39E+01	3.50E-02	9.97E+03	5.36E+01	3.50E-02	8.75E+03	4.80E+01	3.50E-02	1.05E+04	5.49E+01	3.50E-02	8.47E+03	5.39E+01	3.50E-02	7.13E+03	
		60"	7.30E-01	5.19E+01	3.75E-02	7.08E+03	4.73E+01	2.99E-02	7.09E+03	4.84E+01	2.99E-02	1.12E+04	4.76E+01	2.99E-02	9.98E+03	4.73E+01	2.99E-02	8.76E+03	4.28E+01	2.99E-02	1.05E+04	4.84E+01	2.99E-02	8.47E+03	4.76E+01	2.99E-02	7.13E+03	
	72"	9.97E-01	4.92E+01	3.25E-02	7.08E+03	4.76E+01	3.03E-02	7.09E+03	4.85E+01	3.03E-02	1.12E+04	5.42E+01	3.03E-02	9.97E+03	4.76E+01	3.03E-02	8.76E+03	4.29E+01	3.03E-02	1.05E+04	4.85E+01	3.03E-02	8.47E+03	5.42E+01	3.03E-02	7.13E+03		
	ASHRAE Climate Zone 5	36"	8.10E-01	7.19E+01	5.88E-02	5.68E+03	6.40E+01	4.66E-02	5.82E+03	6.59E+01	4.66E-02	8.32E+03	6.44E+01	4.66E-02	7.66E+03	6.40E+01	4.66E-02	6.97E+03	6.22E+01	4.66E-02	7.70E+03	6.59E+01	4.66E-02	6.39E+03	6.31E+01	4.66E-02	5.57E+03	
		48"	7.08E-01	5.93E+01	4.41E-02	5.69E+03	5.36E+01	3.50E-02	5.83E+03	5.49E+01	3.50E-02	8.33E+03	5.39E+01	3.50E-02	7.67E+03	5.36E+01	3.50E-02	6.98E+03	4.80E+01	3.50E-02	7.72E+03	5.49E+01	3.50E-02	6.40E+03	5.39E+01	3.50E-02	5.58E+03	
		60"	7.30E-01	5.19E+01	3.75E-02	5.70E+03	4.73E+01	2.99E-02	5.84E+03	4.84E+01	2.99E-02	8.34E+03	4.76E+01	2.99E-02	7.68E+03	4.73E+01	2.99E-02	6.99E+03	4.28E+01	2.99E-02	7.72E+03	4.84E+01	2.99E-02	6.41E+03	4.76E+01	2.99E-02	5.59E+03	
	72"	9.97E-01	4.92E+01	3.25E-02	5.70E+03	4.76E+01	3.03E-02	5.84E+03	4.85E+01	3.03E-02	8.34E+03	5.42E+01	3.03E-02	7.67E+03	4.76E+01	3.03E-02	6.99E+03	4.29E+01	3.03E-02	7.72E+03	4.85E+01	3.03E-02	6.41E+03	5.42E+01	3.03E-02	5.58E+03		
	ASHRAE Climate Zone 6,7	36"	8.10E-01	7.19E+01	5.88E-02	5.03E+03	6.40E+01	4.66E-02	5.18E+03	6.59E+01	4.66E-02	7.47E+03	6.44E+01	4.66E-02	6.86E+03	6.40E+01	4.66E-02	6.25E+03	6.22E+01	4.66E-02	6.80E+03	6.59E+01	4.66E-02	5.62E+03	6.31E+01	4.66E-02	4.89E+03	
		48"	7.08E-01	5.93E+01	4.41E-02	5.04E+03	5.36E+01	3.50E-02	5.19E+03	5.49E+01	3.50E-02	7.48E+03	5.39E+01	3.50E-02	6.87E+03	5.36E+01	3.50E-02	6.26E+03	4.80E+01	3.50E-02	6.82E+03	5.49E+01	3.50E-02	5.63E+03	5.39E+01	3.50E-02	4.90E+03	
		60"	7.30E-01	5.19E+01	3.75E-02	5.05E+03	4.73E+01	2.99E-02	5.20E+03	4.84E+01	2.99E-02	7.49E+03	4.76E+01	2.99E-02	6.87E+03	4.73E+01	2.99E-02	6.27E+03	4.28E+01	2.99E-02	6.82E+03	4.84E+01	2.99E-02	5.63E+03	4.76E+01	2.99E-02	4.91E+03	
	72"	1.66E+00	4.92E+01	3.25E-02	5.05E+03	4.76E+01	3.03E-02	5.20E+03	4.85E+01	3.03E-02	7.49E+03	5.42E+01	3.03E-02	6.87E+03	4.76E+01	3.03E-02	6.27E+03	4.29E+01	3.03E-02	6.82E+03	4.85E+01	3.03E-02	5.63E+03	5.42E+01	3.03E-02	4.90E+03		
	Canada	36"	1.46E+00	7.19E+01	5.88E-02	8.39E+02	6.40E+01	4.66E-02	9.27E+02	6.59E+01	4.66E-02	5.87E+02	6.44E+01	4.66E-02	7.90E+02	6.40E+01	4.66E-02	9.66E+02	6.22E+01	4.66E-02	5.91E+02	6.59E+01	4.66E-02	7.93E+02	6.31E+01	4.66E-02	8.31E+02	
		48"	1.37E+00	5.93E+01	4.41E-02	8.52E+02	5.36E+01	3.50E-02	9.37E+02	5.49E+01	3.50E-02	5.98E+02	5.39E+01	3.50E-02	8.01E+02	5.36E+01	3.50E-02	9.77E+02	4.80E+01	3.50E-02	6.05E+02	5.49E+01	3.50E-02	8.04E+02	5.39E+01	3.50E-02	8.41E+02	
		60"	1.38E+00	5.19E+01	3.75E-02	8.59E+02	4.73E+01	2.99E-02	9.44E+02	4.84E+01	2.99E-02	6.04E+02	4.76E+01	2.99E-02	8.07E+02	4.73E+01	2.99E-02	9.83E+02	4.28E+01	2.99E-02	6.10E+02	4.84E+01	2.99E-02	8.11E+02	4.76E+01	2.99E-02	8.47E+02	
	72"	9.87E-01	4.92E+01	3.25E-02	8.62E+02	4.76E+01	3.03E-02	9.43E+02	4.85E+01	3.03E-02	6.04E+02	5.42E+01	3.03E-02	8.00E+02	4.76E+01	3.03E-02	9.83E+02	4.29E+01	3.03E-02	6.10E+02	4.85E+01	3.03E-02	8.11E+02	5.42E+01	3.03E-02	8.40E+02		
Mexico	36"	8.02E-01	-	-	-	-	-	-	6.59E+01	4.66E-02	1.34E+04	6.44E+01	4.66E-02	1.16E+04	6.40E+01	4.66E-02	9.97E+03	6.22E+01	4.66E-02	1.32E+04	6.59E+01	4.66E-02	1.04E+04	6.31E+01	4.66E-02	8.63E+03		
	48"	7.02E-01	-	-	-	-	-	-	5.49E+01	3.50E-02	1.34E+04	5.39E+01	3.50E-02	1.16E+04	5.36E+01	3.50E-02	9.98E+03	4.80E+01	3.50E-02	1.32E+04	5.49E+01	3.50E-02	1.04E+04	5.39E+01	3.50E-02	8.64E+03		
	60"	7.18E-01	-	-	-	-	-	-	4.84E+01	2.99E-02	1.34E+04	4.76E+01	2.99E-02	1.16E+04	4.73E+01	2.99E-02	9.99E+03	4.28E+01	2.99E-02	1.32E+04	4.84E+01	2.99E-02	1.04E+04	4.76E+01	2.99E-02	8.65E+03		
	72"	0.00E+00	-	-	-	-	-	-	4.85E+01	3.03E-02	1.34E+04	5.42E+01	3.03E-02	1.16E+04	4.76E+01	3.03E-02	9.99E+03	4.29E+01	3.03E-02	1.32E+04	4.85E+01	3.03E-02	1.04E+04	5.42E+01	3.03E-02	8.64E+03		

TABLE 42: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (MJe / Meter ²)			All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
North America	ASHRAE Climate Zone 1,2	36"	7.08E-01	6.44E+01	4.66E-02	1.23E+04	6.40E+01	4.66E-02	1.08E+04	6.59E+01	4.66E-02	2.34E+04	6.47E+01	4.66E-02	1.83E+04	6.40E+01	4.66E-02	1.55E+04	6.40E+01	4.66E-02	1.08E+04	6.37E+01	4.66E-02	7.74E+03
		48"	7.30E-01	5.39E+01	3.50E-02	1.23E+04	5.36E+01	3.50E-02	1.08E+04	5.49E+01	3.50E-02	2.35E+04	5.39E+01	3.50E-02	1.83E+04	5.36E+01	3.50E-02	1.55E+04	5.33E+01	3.50E-02	1.08E+04	5.31E+01	3.50E-02	7.75E+03
		60"	9.97E-01	4.76E+01	2.99E-02	1.23E+04	4.73E+01	2.99E-02	1.08E+04	4.84E+01	2.99E-02	2.35E+04	4.76E+01	2.99E-02	1.83E+04	4.73E+01	2.99E-02	1.56E+04	4.71E+01	2.99E-02	1.08E+04	4.69E+01	2.99E-02	7.76E+03
		72"	8.10E-01	5.42E+01	3.03E-02	1.23E+04	4.76E+01	3.03E-02	1.08E+04	4.85E+01	3.03E-02	2.35E+04	4.77E+01	3.03E-02	1.83E+04	4.76E+01	3.03E-02	1.56E+04	4.74E+01	3.03E-02	1.08E+04	4.72E+01	3.03E-02	7.76E+03
	ASHRAE Climate Zone 3	36"	7.08E-01	6.44E+01	4.66E-02	1.17E+04	6.40E+01	4.66E-02	1.03E+04	6.59E+01	4.66E-02	2.16E+04	6.47E+01	4.66E-02	1.71E+04	6.40E+01	4.66E-02	1.46E+04	6.40E+01	4.66E-02	9.87E+03	6.37E+01	4.66E-02	7.32E+03
		48"	7.30E-01	5.39E+01	3.50E-02	1.17E+04	5.36E+01	3.50E-02	1.03E+04	5.49E+01	3.50E-02	2.16E+04	5.39E+01	3.50E-02	1.71E+04	5.36E+01	3.50E-02	1.46E+04	5.33E+01	3.50E-02	9.89E+03	5.31E+01	3.50E-02	7.34E+03
		60"	9.97E-01	4.76E+01	2.99E-02	1.17E+04	4.73E+01	2.99E-02	1.03E+04	4.84E+01	2.99E-02	2.16E+04	4.76E+01	2.99E-02	1.71E+04	4.73E+01	2.99E-02	1.46E+04	4.71E+01	2.99E-02	9.89E+03	4.69E+01	2.99E-02	7.34E+03
		72"	8.10E-01	5.42E+01	3.03E-02	1.17E+04	4.76E+01	3.03E-02	1.03E+04	4.85E+01	3.03E-02	2.16E+04	4.77E+01	3.03E-02	1.71E+04	4.76E+01	3.03E-02	1.46E+04	4.74E+01	3.03E-02	9.89E+03	4.72E+01	3.03E-02	7.34E+03
	ASHRAE Climate Zone 4	36"	7.08E-01	6.44E+01	4.66E-02	5.88E+03	6.40E+01	4.66E-02	5.19E+03	6.59E+01	4.66E-02	9.50E+03	6.47E+01	4.66E-02	7.73E+03	6.40E+01	4.66E-02	6.60E+03	6.40E+01	4.66E-02	4.37E+03	6.37E+01	4.66E-02	3.03E+03
		48"	7.30E-01	5.39E+01	3.50E-02	5.89E+03	5.36E+01	3.50E-02	5.20E+03	5.49E+01	3.50E-02	9.51E+03	5.39E+01	3.50E-02	7.74E+03	5.36E+01	3.50E-02	6.61E+03	5.33E+01	3.50E-02	4.38E+03	5.31E+01	3.50E-02	3.04E+03
		60"	9.97E-01	4.76E+01	2.99E-02	5.90E+03	4.73E+01	2.99E-02	5.21E+03	4.84E+01	2.99E-02	9.52E+03	4.76E+01	2.99E-02	7.75E+03	4.73E+01	2.99E-02	6.61E+03	4.71E+01	2.99E-02	4.38E+03	4.69E+01	2.99E-02	3.05E+03
		72"	8.10E-01	5.42E+01	3.03E-02	5.89E+03	4.76E+01	3.03E-02	5.21E+03	4.85E+01	3.03E-02	9.52E+03	4.77E+01	3.03E-02	7.75E+03	4.76E+01	3.03E-02	6.61E+03	4.74E+01	3.03E-02	4.38E+03	4.72E+01	3.03E-02	3.05E+03
	ASHRAE Climate Zone 5	36"	7.08E-01	6.44E+01	4.66E-02	4.82E+03	6.40E+01	4.66E-02	4.45E+03	6.59E+01	4.66E-02	8.09E+03	6.47E+01	4.66E-02	7.02E+03	6.40E+01	4.66E-02	6.33E+03	6.40E+01	4.66E-02	4.92E+03	6.37E+01	4.66E-02	4.04E+03
		48"	7.30E-01	5.39E+01	3.50E-02	4.83E+03	5.36E+01	3.50E-02	4.46E+03	5.49E+01	3.50E-02	8.10E+03	5.39E+01	3.50E-02	7.03E+03	5.36E+01	3.50E-02	6.34E+03	5.33E+01	3.50E-02	4.94E+03	5.31E+01	3.50E-02	4.05E+03
		60"	9.97E-01	4.76E+01	2.99E-02	4.83E+03	4.73E+01	2.99E-02	4.46E+03	4.84E+01	2.99E-02	8.11E+03	4.76E+01	2.99E-02	7.03E+03	4.73E+01	2.99E-02	6.35E+03	4.71E+01	2.99E-02	4.94E+03	4.69E+01	2.99E-02	4.06E+03
		72"	8.10E-01	5.42E+01	3.03E-02	4.83E+03	4.76E+01	3.03E-02	4.46E+03	4.85E+01	3.03E-02	8.11E+03	4.77E+01	3.03E-02	7.03E+03	4.76E+01	3.03E-02	6.35E+03	4.74E+01	3.03E-02	4.94E+03	4.72E+01	3.03E-02	4.06E+03
	ASHRAE Climate Zone 6,7	36"	7.08E-01	6.44E+01	4.66E-02	4.20E+03	6.40E+01	4.66E-02	3.89E+03	6.59E+01	4.66E-02	7.28E+03	6.47E+01	4.66E-02	6.29E+03	6.40E+01	4.66E-02	5.64E+03	6.40E+01	4.66E-02	4.39E+03	6.37E+01	4.66E-02	3.59E+03
		48"	7.30E-01	5.39E+01	3.50E-02	4.21E+03	5.36E+01	3.50E-02	3.90E+03	5.49E+01	3.50E-02	7.29E+03	5.39E+01	3.50E-02	6.30E+03	5.36E+01	3.50E-02	5.65E+03	5.33E+01	3.50E-02	4.40E+03	5.31E+01	3.50E-02	3.60E+03
		60"	1.66E+00	4.76E+01	2.99E-02	4.22E+03	4.73E+01	2.99E-02	3.91E+03	4.84E+01	2.99E-02	7.30E+03	4.76E+01	2.99E-02	6.30E+03	4.73E+01	2.99E-02	5.66E+03	4.71E+01	2.99E-02	4.41E+03	4.69E+01	2.99E-02	3.60E+03
	Canada	36"	1.37E+00	6.44E+01	4.66E-02	7.77E+02	6.40E+01	4.66E-02	7.18E+02	6.59E+01	4.66E-02	6.72E+02	6.47E+01	4.66E-02	9.85E+02	6.40E+01	4.66E-02	1.03E+03	6.40E+01	4.66E-02	8.41E+02	6.37E+01	4.66E-02	8.24E+02
		48"	1.38E+00	5.39E+01	3.50E-02	7.88E+02	5.36E+01	3.50E-02	7.28E+02	5.49E+01	3.50E-02	6.83E+02	5.39E+01	3.50E-02	9.96E+02	5.36E+01	3.50E-02	1.04E+03	5.33E+01	3.50E-02	8.52E+02	5.31E+01	3.50E-02	8.35E+02
		60"	9.87E-01	4.76E+01	2.99E-02	7.94E+02	4.73E+01	2.99E-02	7.35E+02	4.84E+01	2.99E-02	6.90E+02	4.76E+01	2.99E-02	1.00E+03	4.73E+01	2.99E-02	1.05E+03	4.71E+01	2.99E-02	8.58E+02	4.69E+01	2.99E-02	8.41E+02
	Mexico	36"	8.02E-01	5.42E+01	3.03E-02	7.88E+02	4.76E+01	3.03E-02	7.34E+02	4.85E+01	3.03E-02	6.90E+02	4.77E+01	3.03E-02	1.00E+03	4.76E+01	3.03E-02	1.05E+03	4.74E+01	3.03E-02	8.58E+02	4.72E+01	3.03E-02	8.41E+02
		48"	7.02E-01	6.44E+01	4.66E-02	7.16E+03	6.40E+01	4.66E-02	6.30E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.18E-01	5.39E+01	3.50E-02	7.17E+03	5.36E+01	3.50E-02	6.31E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	0.00E+00	4.76E+01	2.99E-02	7.18E+03	4.73E+01	2.99E-02	6.31E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 43: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN EUROPE

15 Year Lifecycle (MJe / Meter^2)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10					
		Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved			
Europe	France	36"	1.43E+01	-	-	-	-	-	6.59E+01	4.66E-02	-1.48E+02	-	-	-	-	-	-	6.22E+01	4.66E-02	-3.90E+02	-	-	-	-	-	-	-	-	-
		48"	1.39E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	-1.37E+02	-	-	-	-	-	-	4.80E+01	3.50E-02	-3.76E+02	1.32E+02	3.50E-02	-9.31E+01	-	-	-	-	-
		60"	1.41E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	-1.30E+02	-	-	-	-	-	-	4.28E+01	2.99E-02	-3.71E+02	1.08E+02	2.99E-02	-7.01E+01	-	-	-	-	-
	Northern Europe	72"	5.31E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.45E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.40E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32E+02	3.50E-02	6.97E+03	-	-	-	-	-
		60"	1.43E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.08E+02	2.99E-02	6.99E+03	-	-	-	-	-
	Scandinavia	72"	1.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.41E+01	6.31E+01	4.66E-02	-1.88E+03	6.51E+01	4.66E-02	-2.78E+03	6.59E+01	4.66E-02	-2.17E+03	6.22E+01	4.66E-02	-2.14E+03	6.51E+01	4.66E-02	-2.52E+03	6.22E+01	4.66E-02	-2.80E+03	-	-	-	-	-	6.22E+01	4.66E-02	-2.98E+03
		48"	1.36E+01	5.39E+01	3.50E-02	-1.87E+03	5.44E+01	3.50E-02	-2.77E+03	5.49E+01	3.50E-02	-2.16E+03	4.80E+01	3.50E-02	-2.13E+03	5.44E+01	3.50E-02	-2.50E+03	4.80E+01	3.50E-02	-2.78E+03	1.32E+02	3.50E-02	-1.65E+03	4.80E+01	3.50E-02	-2.97E+03		
		60"	1.38E+01	4.76E+01	2.99E-02	-1.87E+03	4.78E+01	2.99E-02	-2.76E+03	4.84E+01	2.99E-02	-2.15E+03	4.28E+01	2.99E-02	-2.12E+03	4.78E+01	2.99E-02	-2.50E+03	4.28E+01	2.99E-02	-2.78E+03	1.08E+02	2.99E-02	-1.63E+03	4.28E+01	2.99E-02	-2.96E+03		
	Southern Europe	72"	1.36E+01	5.42E+01	3.03E-02	-1.87E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	-2.96E+03	
		36"	1.45E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	8.38E+03	-	-	-	-	-	-	6.22E+01	4.66E-02	8.69E+03	-	-	-	-	-	-	-	-
		48"	1.40E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	8.39E+03	-	-	-	-	-	-	4.80E+01	3.50E-02	8.71E+03	1.32E+02	3.50E-02	6.45E+03	-	-	-	-	-
		60"	1.43E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	8.40E+03	-	-	-	-	-	-	4.28E+01	2.99E-02	8.71E+03	1.08E+02	2.99E-02	6.48E+03	-	-	-	-	-
	United Kingdom	72"	1.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.38E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	4.22E+03	-	-	-	-	-	-	6.22E+01	4.66E-02	4.28E+03	-	-	-	-	-	-	-	-
		48"	1.33E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	4.23E+03	-	-	-	-	-	-	4.80E+01	3.50E-02	4.30E+03	1.32E+02	3.50E-02	3.69E+03	-	-	-	-	-
		60"	1.36E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	4.24E+03	-	-	-	-	-	-	4.28E+01	2.99E-02	4.30E+03	1.08E+02	2.99E-02	3.71E+03	-	-	-	-	-
	72"	1.34E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 44: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (MJe / Meter^2)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30														
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved											
Europe	France	36"	1.43E+01	6.59E+01	4.66E-02	-3.05E+02	-	-	-	-	-	-	-	-	-	-	6.58E+01	4.66E-02	6.36E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.39E+01	5.49E+01	3.50E-02	-2.94E+02	-	-	-	-	-	-	-	-	-	-	-	5.49E+01	3.50E-02	6.47E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		60"	1.41E+01	4.84E+01	2.99E-02	-2.88E+02	-	-	-	-	-	-	-	-	-	-	-	4.84E+01	2.99E-02	6.54E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	5.31E+01	4.85E+01	3.03E-02	-3.27E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Northern Europe	36"	1.45E+01	-	-	-	6.59E+01	4.66E-02	1.03E+04	6.44E+01	4.66E-02	8.31E+03	-	-	-	6.58E+01	4.66E-02	1.02E+04	7.55E+01	4.66E-02	1.00E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.40E+01	-	-	-	5.49E+01	3.50E-02	1.03E+04	5.39E+01	3.50E-02	8.32E+03	-	-	-	5.49E+01	3.50E-02	1.03E+04	6.22E+01	4.41E-02	1.00E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.43E+01	-	-	-	4.84E+01	2.99E-02	1.03E+04	4.76E+01	2.99E-02	8.33E+03	-	-	-	4.84E+01	2.99E-02	1.03E+04	5.42E+01	3.75E-02	1.00E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.41E+01	-	-	-	4.85E+01	3.03E-02	1.03E+04	5.42E+01	3.03E-02	8.32E+03	-	-	-	-	-	-	5.12E+01	3.25E-02	1.00E+04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scandinavia	36"	1.41E+01	6.59E+01	4.66E-02	-2.03E+03	6.59E+01	4.66E-02	-2.70E+03	6.44E+01	4.66E-02	-2.02E+03	6.40E+01	4.66E-02	-1.36E+03	6.58E+01	4.66E-02	-1.16E+02	7.55E+01	4.66E-02	-2.38E+03	7.37E+01	5.88E-02	-1.89E+03	7.26E+01	5.88E-02	-1.58E+03	-	-	-	-	-	-	-	-	-		
		48"	1.36E+01	5.49E+01	3.50E-02	-2.01E+03	5.49E+01	3.50E-02	-2.68E+03	5.39E+01	3.50E-02	-2.01E+03	5.36E+01	3.50E-02	-1.35E+03	5.49E+01	3.50E-02	-1.04E+02	6.22E+01	4.41E-02	-2.37E+03	6.06E+01	4.41E-02	-1.88E+03	6.01E+01	4.41E-02	-1.57E+03	-	-	-	-	-	-	-	-	-		
		60"	1.38E+01	4.84E+01	2.99E-02	-2.01E+03	4.84E+01	2.99E-02	-2.68E+03	4.76E+01	2.99E-02	-2.00E+03	4.73E+01	2.99E-02	-1.35E+03	4.84E+01	2.99E-02	-9.80E+01	5.42E+01	3.75E-02	-2.36E+03	5.29E+01	3.75E-02	-1.87E+03	5.25E+01	3.75E-02	-1.56E+03	-	-	-	-	-	-	-	-	-		
		72"	1.36E+01	4.85E+01	3.03E-02	-2.01E+03	4.85E+01	3.03E-02	-2.68E+03	5.42E+01	3.03E-02	-2.01E+03	4.76E+01	3.03E-02	-1.35E+03	-	-	-	5.12E+01	3.25E-02	-2.36E+03	5.01E+01	3.25E-02	-1.87E+03	4.95E+01	3.25E-02	-1.56E+03	-	-	-	-	-	-	-	-	-		
	Southern Europe	36"	1.45E+01	-	-	-	6.59E+01	4.66E-02	9.39E+03	6.44E+01	4.66E-02	8.14E+03	-	-	-	6.58E+01	4.66E-02	8.14E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.40E+01	-	-	-	5.49E+01	3.50E-02	9.40E+03	5.39E+01	3.50E-02	8.15E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.43E+01	-	-	-	4.84E+01	2.99E-02	9.41E+03	4.76E+01	2.99E-02	8.16E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.41E+01	-	-	-	4.85E+01	3.03E-02	9.41E+03	5.42E+01	3.03E-02	8.15E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Kingdom	36"	1.38E+01	-	-	-	6.59E+01	4.66E-02	4.43E+03	6.44E+01	4.66E-02	4.43E+03	6.40E+01	4.66E-02	3.39E+03	6.58E+01	4.66E-02	5.64E+03	7.55E+01	4.66E-02	5.14E+03	-	-	-	7.26E+01	5.88E-02	4.07E+03	-	-	-	-	-	-	-	-	-		
		48"	1.33E+01	-	-	-	5.49E+01	3.50E-02	5.36E+03	5.39E+01	3.50E-02	4.45E+03	5.36E+01	3.50E-02	3.40E+03	5.49E+01	3.50E-02	5.65E+03	6.22E+01	4.41E-02	5.15E+03	-	-	-	6.01E+01	4.41E-02	4.08E+03	-	-	-	-	-	-	-	-	-		
		60"	1.36E+01	-	-	-	4.84E+01	2.99E-02	5.36E+03	4.76E+01	2.99E-02	4.45E+03	4.73E+01	2.99E-02	3.41E+03	4.84E+01	2.99E-02	5.66E+03	5.42E+01	3.75E-02	5.16E+03	-	-	-	5.25E+01	3.75E-02	4.09E+03	-	-	-	-	-	-	-	-	-		
		72"	1.34E+01	-	-	-	4.85E+01	3.03E-02	5.36E+03	5.42E+01	3.03E-02	4.44E+03	4.76E+01	3.03E-02	3.41E+03	-	-	-	5.12E+01	3.25E-02	5.17E+03	-	-	-	4.95E+01	3.25E-02	4.09E+03	-	-	-	-	-	-	-	-	-		

TABLE 45: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (MJe / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	
Europe	France	36"	1.43E+01	-	-	-	-	-	6.59E+01	4.66E-02	-2.97E+02	6.44E+01	4.66E-02	-1.02E+02	-	-	-	6.22E+01	4.66E-02	-4.57E+02	6.59E+01	4.66E-02	-2.10E+02	6.31E+01	4.66E-02	-1.28E+02	
		48"	1.39E+01	-	-	-	-	-	5.49E+01	3.50E-02	-2.85E+02	5.39E+01	3.50E-02	-9.16E+01	-	-	-	4.80E+01	3.50E-02	-4.43E+02	5.49E+01	3.50E-02	-1.98E+02	5.39E+01	3.50E-02	-1.18E+02	
		60"	1.41E+01	-	-	-	-	-	4.84E+01	2.99E-02	-2.79E+02	4.76E+01	2.99E-02	-8.55E+01	-	-	-	4.28E+01	2.99E-02	-4.38E+02	4.84E+01	2.99E-02	-1.92E+02	4.76E+01	2.99E-02	-1.12E+02	
	72"	5.31E+01	-	-	-	-	-	4.85E+01	3.03E-02	-3.18E+02	5.42E+01	3.03E-02	-1.31E+02	-	-	-	4.29E+01	3.03E-02	-4.77E+02	4.85E+01	3.03E-02	-2.31E+02	5.42E+01	3.03E-02	-1.58E+02		
	Northern Europe	36"	1.45E+01	7.19E+01	5.88E-02	6.39E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.59E+01	4.66E-02	7.26E+03	6.31E+01	4.66E-02	6.17E+03	
		48"	1.40E+01	5.93E+01	4.41E-02	6.40E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.49E+01	3.50E-02	7.27E+03	5.39E+01	3.50E-02	6.18E+03	
		60"	1.43E+01	5.19E+01	3.75E-02	6.41E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.84E+01	2.99E-02	7.27E+03	4.76E+01	2.99E-02	6.18E+03	
	72"	1.41E+01	4.92E+01	3.25E-02	6.42E+03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.85E+01	3.03E-02	7.27E+03	5.42E+01	3.03E-02	6.18E+03		
	Scandinavia	36"	1.41E+01	7.19E+01	5.88E-02	-1.16E+03	6.40E+01	4.66E-02	-1.07E+03	6.59E+01	4.66E-02	-2.69E+03	6.44E+01	4.66E-02	-2.10E+03	6.40E+01	4.66E-02	-1.58E+03	6.22E+01	4.66E-02	-1.93E+03	6.59E+01	4.66E-02	-1.45E+03	6.31E+01	4.66E-02	-1.21E+03
		48"	1.36E+01	5.93E+01	4.41E-02	-1.15E+03	5.36E+01	3.50E-02	-1.06E+03	5.49E+01	3.50E-02	-2.68E+03	5.39E+01	3.50E-02	-2.09E+03	5.36E+01	3.50E-02	-1.57E+03	4.80E+01	3.50E-02	-1.91E+03	5.49E+01	3.50E-02	-1.44E+03	5.39E+01	3.50E-02	-1.20E+03
		60"	1.38E+01	5.19E+01	3.75E-02	-1.14E+03	4.73E+01	2.99E-02	-1.05E+03	4.84E+01	2.99E-02	-2.68E+03	4.76E+01	2.99E-02	-2.08E+03	4.73E+01	2.99E-02	-1.57E+03	4.28E+01	2.99E-02	-1.91E+03	4.84E+01	2.99E-02	-1.43E+03	4.76E+01	2.99E-02	-1.20E+03
	72"	1.36E+01	4.92E+01	3.25E-02	-1.14E+03	4.76E+01	3.03E-02	-1.05E+03	4.85E+01	3.03E-02	-2.68E+03	5.42E+01	3.03E-02	-2.09E+03	4.76E+01	3.03E-02	-1.57E+03	4.29E+01	3.03E-02	-1.91E+03	4.85E+01	3.03E-02	-1.43E+03	5.42E+01	3.03E-02	-1.20E+03	
	Southern Europe	36"	1.45E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.22E+01	4.66E-02	9.82E+03	6.59E+01	4.66E-02	7.88E+03	6.31E+01	4.66E-02	7.44E+03	
		48"	1.40E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80E+01	3.50E-02	9.84E+03	5.49E+01	3.50E-02	7.89E+03	5.39E+01	3.50E-02	7.45E+03	
		60"	1.43E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.28E+01	2.99E-02	9.84E+03	4.84E+01	2.99E-02	7.89E+03	4.76E+01	2.99E-02	7.46E+03	
	72"	1.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	9.84E+03	4.85E+01	3.03E-02	7.89E+03	5.42E+01	3.03E-02	7.45E+03		
	United Kingdom	36"	1.38E+01	7.19E+01	5.88E-02	3.44E+03	-	-	-	6.59E+01	4.66E-02	5.34E+03	6.44E+01	4.66E-02	4.83E+03	6.40E+01	4.66E-02	4.33E+03	6.22E+01	4.66E-02	4.66E+03	6.59E+01	4.66E-02	3.90E+03	6.31E+01	4.66E-02	3.33E+03
		48"	1.33E+01	5.93E+01	4.41E-02	3.45E+03	-	-	-	5.49E+01	3.50E-02	5.35E+03	5.39E+01	3.50E-02	4.84E+03	5.36E+01	3.50E-02	4.34E+03	4.80E+01	3.50E-02	4.67E+03	5.49E+01	3.50E-02	3.91E+03	5.39E+01	3.50E-02	3.34E+03
		60"	1.36E+01	5.19E+01	3.75E-02	3.46E+03	-	-	-	4.84E+01	2.99E-02	5.36E+03	4.76E+01	2.99E-02	4.84E+03	4.73E+01	2.99E-02	4.35E+03	4.28E+01	2.99E-02	4.68E+03	4.84E+01	2.99E-02	3.92E+03	4.76E+01	2.99E-02	3.35E+03
	72"	1.34E+01	4.92E+01	3.25E-02	3.46E+03	-	-	-	4.85E+01	3.03E-02	5.36E+03	5.42E+01	3.03E-02	4.84E+03	4.76E+01	3.03E-02	4.35E+03	4.29E+01	3.03E-02	4.68E+03	4.85E+01	3.03E-02	3.92E+03	5.42E+01	3.03E-02	3.34E+03	

TABLE 46: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (MJe / Meter^2)		All Films Transportation to Customer	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
			Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	
Europe	France	36"	1.43E+01	6.44E+01	4.66E-02	-1.17E+02	6.40E+01	4.66E-02	-1.03E+02	6.59E+01	4.66E-02	-2.96E+03	6.47E+01	4.66E-02	4.71E+01	6.40E+01	4.66E-02	1.20E+02	6.40E+01	4.66E-02	3.19E+01	6.37E+01	4.66E-02	1.18E+02
		48"	1.39E+01	5.39E+01	3.50E-02	-1.07E+02	5.36E+01	3.50E-02	-9.21E+01	5.49E+01	3.50E-02	-2.95E+03	5.39E+01	3.50E-02	5.84E+01	5.36E+01	3.50E-02	1.31E+02	5.33E+01	3.50E-02	4.30E+01	5.31E+01	3.50E-02	1.29E+02
		60"	1.41E+01	4.76E+01	2.99E-02	-1.00E+02	4.73E+01	2.99E-02	-8.60E+01	4.84E+01	2.99E-02	-2.94E+03	4.76E+01	2.99E-02	6.45E+01	4.73E+01	2.99E-02	1.37E+02	4.71E+01	2.99E-02	4.90E+01	4.69E+01	2.99E-02	1.35E+02
		72"	5.31E+01	5.42E+01	3.03E-02	-1.46E+02	4.76E+01	3.03E-02	-1.25E+02	4.85E+01	3.03E-02	-2.98E+03	4.77E+01	3.03E-02	2.54E+01	4.76E+01	3.03E-02	9.78E+01	4.74E+01	3.03E-02	9.79E+00	4.72E+01	3.03E-02	9.53E+01
	Northern Europe	36"	1.45E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	9.81E+03	6.47E+01	4.66E-02	8.12E+03	-	-	-	6.40E+01	4.66E-02	5.47E+03	6.37E+01	4.66E-02	4.37E+03
		48"	1.40E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	9.82E+03	5.39E+01	3.50E-02	8.13E+03	-	-	-	5.33E+01	3.50E-02	5.49E+03	5.31E+01	3.50E-02	4.38E+03
		60"	1.43E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	9.82E+03	4.76E+01	2.99E-02	8.14E+03	-	-	-	4.71E+01	2.99E-02	5.49E+03	4.69E+01	2.99E-02	4.39E+03
	Scandinavia	36"	1.41E+01	6.44E+01	4.66E-02	-9.60E+02	6.40E+01	4.66E-02	-9.71E+02	6.59E+01	4.66E-02	-1.81E+03	6.47E+01	4.66E-02	-1.27E+03	6.40E+01	4.66E-02	-1.04E+03	6.40E+01	4.66E-02	-9.00E+02	6.37E+01	4.66E-02	-5.68E+02
		48"	1.36E+01	5.39E+01	3.50E-02	-9.49E+02	5.36E+01	3.50E-02	-9.60E+02	5.49E+01	3.50E-02	-1.80E+03	5.39E+01	3.50E-02	-1.25E+03	5.36E+01	3.50E-02	-1.03E+03	5.33E+01	3.50E-02	-8.89E+02	5.31E+01	3.50E-02	-5.57E+02
		60"	1.38E+01	4.76E+01	2.99E-02	-9.43E+02	4.73E+01	2.99E-02	-9.54E+02	4.84E+01	2.99E-02	-1.79E+03	4.76E+01	2.99E-02	-1.25E+03	4.73E+01	2.99E-02	-1.02E+03	4.71E+01	2.99E-02	-8.83E+02	4.69E+01	2.99E-02	-5.51E+02
	Southern Europe	36"	1.36E+01	5.42E+01	3.03E-02	-9.49E+02	4.76E+01	3.03E-02	-9.54E+02	4.85E+01	3.03E-02	-1.79E+03	4.77E+01	3.03E-02	-1.25E+03	4.76E+01	3.03E-02	-1.02E+03	4.74E+01	3.03E-02	-8.83E+02	4.72E+01	3.03E-02	-5.51E+02
		48"	1.45E+01	6.44E+01	4.66E-02	5.27E+03	6.40E+01	4.66E-02	4.58E+03	6.59E+01	4.66E-02	9.67E+03	-	-	-	6.40E+01	4.66E-02	7.36E+03	6.40E+01	4.66E-02	5.63E+03	6.37E+01	4.66E-02	2.82E+03
		60"	1.40E+01	5.39E+01	3.50E-02	5.28E+03	5.36E+01	3.50E-02	4.59E+03	5.49E+01	3.50E-02	9.69E+03	-	-	-	5.36E+01	3.50E-02	7.37E+03	5.33E+01	3.50E-02	5.65E+03	5.31E+01	3.50E-02	2.83E+03
	United Kingdom	36"	1.43E+01	4.76E+01	2.99E-02	5.29E+03	4.73E+01	2.99E-02	4.60E+03	4.84E+01	2.99E-02	9.69E+03	-	-	-	4.73E+01	2.99E-02	7.37E+03	4.71E+01	2.99E-02	5.65E+03	4.69E+01	2.99E-02	2.83E+03
		48"	1.41E+01	5.42E+01	3.03E-02	5.28E+03	4.76E+01	3.03E-02	4.60E+03	4.85E+01	3.03E-02	9.69E+03	-	-	-	4.76E+01	3.03E-02	7.37E+03	4.74E+01	3.03E-02	5.65E+03	4.72E+01	3.03E-02	2.83E+03
		60"	1.38E+01	6.44E+01	4.66E-02	2.87E+03	6.40E+01	4.66E-02	2.63E+03	6.59E+01	4.66E-02	5.15E+03	6.47E+01	4.66E-02	4.36E+03	6.40E+01	4.66E-02	3.88E+03	6.40E+01	4.66E-02	2.98E+03	6.37E+01	4.66E-02	2.41E+03
		72"	1.33E+01	5.39E+01	3.50E-02	2.88E+03	5.36E+01	3.50E-02	2.64E+03	5.49E+01	3.50E-02	5.16E+03	5.39E+01	3.50E-02	4.37E+03	5.36E+01	3.50E-02	3.89E+03	5.33E+01	3.50E-02	2.99E+03	5.31E+01	3.50E-02	2.43E+03
			1.36E+01	4.76E+01	2.99E-02	2.89E+03	4.73E+01	2.99E-02	2.64E+03	4.84E+01	2.99E-02	5.17E+03	4.76E+01	2.99E-02	4.38E+03	4.73E+01	2.99E-02	3.89E+03	4.71E+01	2.99E-02	3.00E+03	4.69E+01	2.99E-02	2.43E+03
			1.34E+01	5.42E+01	3.03E-02	2.88E+03	4.76E+01	3.03E-02	2.64E+03	4.85E+01	3.03E-02	5.17E+03	4.77E+01	3.03E-02	4.38E+03	4.76E+01	3.03E-02	3.89E+03	4.74E+01	3.03E-02	3.00E+03	4.72E+01	3.03E-02	2.43E+03

TABLE 47: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN ASIA

15 Year Lifecycle (MJe / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10				
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	
Asia	North-East China	36"	1.58E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		60"	1.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		72"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	South-East China	36"	1.58E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		60"	1.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		72"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	India	36"	1.99E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.93E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		60"	1.96E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		72"	1.94E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Japan	36"	1.39E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.35E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		60"	1.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		72"	1.35E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Middle East	36"	2.05E+01	-	-	-	6.51E+01	4.66E-02	3.26E+04	-	-	-	-	-	6.51E+01	4.66E-02	3.07E+04	6.22E+01	4.66E-02	2.84E+04	-	-	-	-	-	-	-	
		48"	1.98E+01	-	-	-	5.44E+01	3.50E-02	3.26E+04	-	-	-	-	-	5.44E+01	3.50E-02	3.07E+04	4.80E+01	3.50E-02	2.84E+04	1.32E+02	3.50E-02	2.84E+04	1.32E+02	3.50E-02	2.00E+04	-	
		60"	2.02E+01	-	-	-	4.78E+01	2.99E-02	3.27E+04	-	-	-	-	-	4.78E+01	2.99E-02	3.07E+04	4.28E+01	2.99E-02	2.84E+04	1.08E+02	2.99E-02	2.84E+04	1.08E+02	2.99E-02	2.00E+04	-	
		72"	1.99E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Russia	36"	1.52E+01	-	-	-	6.51E+01	4.66E-02	5.43E+01	6.59E+01	4.66E-02	6.68E+01	6.22E+01	4.66E-02	1.01E+03	6.51E+01	4.66E-02	9.03E+02	6.22E+01	4.66E-02	1.09E+03	-	-	-	-	6.22E+01	4.66E-02	5.86E+02
		48"	1.48E+01	-	-	-	5.44E+01	3.50E-02	6.55E+01	5.49E+01	3.50E-02	7.82E+01	4.80E+01	3.50E-02	1.02E+03	5.44E+01	3.50E-02	9.15E+02	4.80E+01	3.50E-02	1.10E+03	-	-	-	-	4.80E+01	3.50E-02	6.01E+02
		60"	1.50E+01	-	-	-	4.78E+01	2.99E-02	7.19E+01	4.84E+01	2.99E-02	8.45E+01	4.28E+01	2.99E-02	1.03E+03	4.78E+01	2.99E-02	9.21E+02	4.28E+01	2.99E-02	1.11E+03	-	-	-	-	4.28E+01	2.99E-02	6.05E+02
		72"	1.48E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	6.06E+02
	China, Mid-East Coast	36"	1.58E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turkey	36"	1.74E+01	-	-	-	-	-	-	-	-	-	-	-	6.51E+01	4.66E-02	6.31E+03	-	-	-	-	-	-	-	-	-	-		
	48"	1.69E+01	-	-	-	-	-	-	-	-	-	-	-	5.44E+01	3.50E-02	6.33E+03	-	-	-	-	-	-	-	-	-	-		
	60"	1.72E+01	-	-	-	-	-	-	-	-	-	-	-	4.78E+01	2.99E-02	6.33E+03	-	-	-	-	-	-	-	-	-	-		
	72"	1.69E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 48: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (MJe / Meter ²)			All Films		Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer		Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
Asia	North-East China	36"	1.58E+01	-	-	-	6.59E+01	4.66E-02	1.54E+04	6.44E+01	4.66E-02	1.30E+04	6.40E+01	4.66E-02	9.89E+03	6.58E+01	4.66E-02	1.61E+04	-	-	-	-	-	-	-	-	-	
		48"	1.53E+01	-	-	-	5.49E+01	3.50E-02	1.54E+04	5.39E+01	3.50E-02	1.30E+04	5.36E+01	3.50E-02	9.90E+03	5.49E+01	3.50E-02	1.61E+04	-	-	-	-	-	-	-	-	-	
		60"	1.56E+01	-	-	-	4.84E+01	2.99E-02	1.54E+04	4.76E+01	2.99E-02	1.30E+04	4.73E+01	2.99E-02	9.91E+03	4.84E+01	2.99E-02	1.61E+04	-	-	-	-	-	-	-	-	-	
		72"	1.53E+01	-	-	-	4.85E+01	3.03E-02	1.54E+04	5.42E+01	3.03E-02	1.30E+04	4.76E+01	3.03E-02	9.91E+03	-	-	-	-	-	-	-	-	-	-	-	-	
	South-East China	36"	1.58E+01	-	-	-	6.59E+01	4.66E-02	1.83E+04	6.44E+01	4.66E-02	1.62E+04	6.40E+01	4.66E-02	1.43E+04	6.58E+01	4.66E-02	1.85E+04	-	-	-	-	-	-	-	-	-	
		48"	1.53E+01	-	-	-	5.49E+01	3.50E-02	1.83E+04	5.39E+01	3.50E-02	1.62E+04	5.36E+01	3.50E-02	1.43E+04	5.49E+01	3.50E-02	1.85E+04	-	-	-	-	-	-	-	-	-	
		60"	1.56E+01	-	-	-	4.84E+01	2.99E-02	1.83E+04	4.76E+01	2.99E-02	1.62E+04	4.73E+01	2.99E-02	1.43E+04	4.84E+01	2.99E-02	1.85E+04	-	-	-	-	-	-	-	-	-	
		72"	1.53E+01	-	-	-	4.85E+01	3.03E-02	1.83E+04	5.42E+01	3.03E-02	1.62E+04	4.76E+01	3.03E-02	1.43E+04	-	-	-	-	-	-	-	-	-	-	-	-	
	India	36"	1.99E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.93E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.96E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.94E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Japan	36"	1.39E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.35E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.35E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Middle East	36"	2.05E+01	-	-	-	6.59E+01	4.66E-02	3.05E+04	6.44E+01	4.66E-02	2.59E+04	6.40E+01	4.66E-02	1.83E+04	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.98E+01	-	-	-	5.49E+01	3.50E-02	3.05E+04	5.39E+01	3.50E-02	2.59E+04	5.36E+01	3.50E-02	1.83E+04	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	2.02E+01	-	-	-	4.84E+01	2.99E-02	3.05E+04	4.76E+01	2.99E-02	2.59E+04	4.73E+01	2.99E-02	1.83E+04	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.99E+01	-	-	-	4.85E+01	3.03E-02	3.05E+04	5.42E+01	3.03E-02	2.59E+04	4.76E+01	3.03E-02	1.83E+04	-	-	-	-	-	-	-	-	-	-	-	-	
	Russia	36"	1.52E+01	-	-	-	6.59E+01	4.66E-02	4.12E+02	6.44E+01	4.66E-02	3.74E+02	6.40E+01	4.66E-02	8.97E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.48E+01	-	-	-	5.49E+01	3.50E-02	4.23E+02	5.39E+01	3.50E-02	3.85E+02	5.36E+01	3.50E-02	9.08E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.50E+01	-	-	-	4.84E+01	2.99E-02	4.30E+02	4.76E+01	2.99E-02	3.91E+02	4.73E+01	2.99E-02	9.14E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.48E+01	-	-	-	4.85E+01	3.03E-02	4.30E+02	5.42E+01	3.03E-02	3.84E+02	4.76E+01	3.03E-02	9.14E+02	-	-	-	-	-	-	-	-	-	-	-	-	
	China, Mid-East Coast	36"	1.58E+01	-	-	-	6.59E+01	4.66E-02	1.35E+04	6.44E+01	4.66E-02	1.17E+04	6.40E+01	4.66E-02	8.55E+03	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.53E+01	-	-	-	5.49E+01	3.50E-02	1.36E+04	5.39E+01	3.50E-02	1.17E+04	5.36E+01	3.50E-02	8.57E+03	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.56E+01	-	-	-	4.84E+01	2.99E-02	1.36E+04	4.76E+01	2.99E-02	1.18E+04	4.73E+01	2.99E-02	8.57E+03	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.53E+01	-	-	-	4.85E+01	3.03E-02	1.36E+04	5.42E+01	3.03E-02	1.17E+04	4.76E+01	3.03E-02	8.57E+03	-	-	-	-	-	-	-	-	-	-	-	-	
Turkey	36"	1.74E+01	-	-	-	6.59E+01	4.66E-02	1.07E+04	6.44E+01	4.66E-02	9.94E+03	6.40E+01	4.66E-02	8.35E+03	-	-	-	-	-	-	-	-	-	-	-	-		
	48"	1.69E+01	-	-	-	5.49E+01	3.50E-02	1.07E+04	5.39E+01	3.50E-02	9.95E+03	5.36E+01	3.50E-02	8.36E+03	-	-	-	-	-	-	-	-	-	-	-	-		
	60"	1.72E+01	-	-	-	4.84E+01	2.99E-02	1.07E+04	4.76E+01	2.99E-02	9.96E+03	4.73E+01	2.99E-02	8.36E+03	-	-	-	-	-	-	-	-	-	-	-	-		
	72"	1.69E+01	-	-	-	4.85E+01	3.03E-02	1.07E+04	5.42E+01	3.03E-02	9.95E+03	4.76E+01	3.03E-02	8.36E+03	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 49: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (MJe / Meter^2)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
Asia	North-East China	36"	1.58E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.22E+01	4.66E-02	1.45E+04	6.59E+01	4.66E-02	1.17E+04	6.31E+01	4.66E-02	9.97E+03	
		48"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80E+01	3.50E-02	1.45E+04	5.49E+01	3.50E-02	1.17E+04	5.39E+01	3.50E-02	9.98E+03
		60"	1.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.28E+01	2.99E-02	1.45E+04	4.84E+01	2.99E-02	1.17E+04	4.76E+01	2.99E-02	9.98E+03
		72"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	1.45E+04	4.85E+01	3.03E-02	1.17E+04	5.42E+01	3.03E-02	9.98E+03
	South-East China	36"	1.58E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.22E+01	4.66E-02	1.88E+04	6.59E+01	4.66E-02	1.50E+04	6.31E+01	4.66E-02	1.26E+04
		48"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80E+01	3.50E-02	1.88E+04	5.49E+01	3.50E-02	1.50E+04	5.39E+01	3.50E-02	1.27E+04
		60"	1.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.28E+01	2.99E-02	1.88E+04	4.84E+01	2.99E-02	1.50E+04	4.76E+01	2.99E-02	1.27E+04
		72"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	1.88E+04	4.85E+01	3.03E-02	1.50E+04	5.42E+01	3.03E-02	1.27E+04
	India	36"	1.99E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.93E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.96E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.94E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	1.39E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.35E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.35E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	2.05E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	3.33E+04	6.44E+01	4.66E-02	2.86E+04	6.40E+01	4.66E-02	2.44E+04	6.22E+01	4.66E-02	3.17E+04	6.59E+01	4.66E-02	2.43E+04	6.31E+01	4.66E-02	1.98E+04
		48"	1.98E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	3.34E+04	5.39E+01	3.50E-02	2.86E+04	5.36E+01	3.50E-02	2.44E+04	4.80E+01	3.50E-02	3.17E+04	5.49E+01	3.50E-02	2.43E+04	5.39E+01	3.50E-02	1.98E+04
		60"	2.02E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	3.34E+04	4.76E+01	2.99E-02	2.86E+04	4.73E+01	2.99E-02	2.44E+04	4.28E+01	2.99E-02	3.17E+04	4.84E+01	2.99E-02	2.43E+04	4.76E+01	2.99E-02	1.98E+04
		72"	1.99E+01	-	-	-	-	-	-	4.85E+01	3.03E-02	3.34E+04	5.42E+01	3.03E-02	2.86E+04	4.76E+01	3.03E-02	2.44E+04	4.29E+01	3.03E-02	3.17E+04	4.85E+01	3.03E-02	2.43E+04	5.42E+01	3.03E-02	1.98E+04
	Russia	36"	1.52E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.22E+01	4.66E-02	1.13E+03	6.59E+01	4.66E-02	8.74E+02	6.31E+01	4.66E-02	2.13E+02
		48"	1.48E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80E+01	3.50E-02	1.15E+03	5.49E+01	3.50E-02	8.86E+02	5.39E+01	3.50E-02	2.23E+02
		60"	1.50E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.28E+01	2.99E-02	1.15E+03	4.84E+01	2.99E-02	8.92E+02	4.76E+01	2.99E-02	2.29E+02
		72"	1.48E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	1.15E+03	4.85E+01	3.03E-02	8.92E+02	5.42E+01	3.03E-02	2.22E+02
	China, Mid-East Coast	36"	1.58E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.22E+01	4.66E-02	1.38E+04	6.59E+01	4.66E-02	1.09E+04	6.31E+01	4.66E-02	9.09E+03
		48"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80E+01	3.50E-02	1.38E+04	5.49E+01	3.50E-02	1.09E+04	5.39E+01	3.50E-02	9.10E+03
		60"	1.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.28E+01	2.99E-02	1.38E+04	4.84E+01	2.99E-02	1.09E+04	4.76E+01	2.99E-02	9.11E+03
		72"	1.53E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	1.38E+04	4.85E+01	3.03E-02	1.09E+04	5.42E+01	3.03E-02	9.10E+03
Turkey	36"	1.74E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	1.12E+04	-	-	-	-	-	-	-	-	-	6.59E+01	4.66E-02	9.50E+03	-	-	-	
	48"	1.69E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	1.12E+04	-	-	-	-	-	-	-	-	-	5.49E+01	3.50E-02	9.51E+03	-	-	-	
	60"	1.72E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	1.12E+04	-	-	-	-	-	-	-	-	-	4.84E+01	2.99E-02	9.52E+03	-	-	-	
	72"	1.69E+01	-	-	-	-	-	-	4.85E+01	3.03E-02	1.12E+04	-	-	-	-	-	-	-	-	-	4.85E+01	3.03E-02	9.52E+03	-	-	-	

TABLE 50: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (MJe / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70					
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved		
Asia	North-East China	36"	1.58E+01	6.44E+01	4.66E-02	8.47E+03	6.40E+01	4.66E-02	7.70E+03	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	8.40E+03	6.37E+01	4.66E-02	6.61E+03			
		48"	1.53E+01	5.39E+01	3.50E-02	8.49E+03	5.36E+01	3.50E-02	7.71E+03	-	-	-	-	-	-	-	-	-	5.33E+01	3.50E-02	8.41E+03	5.31E+01	3.50E-02	6.62E+03		
		60"	1.56E+01	4.76E+01	2.99E-02	8.49E+03	4.73E+01	2.99E-02	7.71E+03	-	-	-	-	-	-	-	-	-	4.71E+01	2.99E-02	8.41E+03	4.69E+01	2.99E-02	6.63E+03		
		72"	1.53E+01	5.42E+01	3.03E-02	8.48E+03	4.76E+01	3.03E-02	7.71E+03	-	-	-	-	-	-	-	-	-	-	4.74E+01	3.03E-02	8.41E+03	4.72E+01	3.03E-02	6.63E+03	
	South-East China	36"	1.58E+01	6.44E+01	4.66E-02	1.05E+04	6.40E+01	4.66E-02	9.32E+03	-	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	1.13E+04	6.37E+01	4.66E-02	6.97E+03		
		48"	1.53E+01	5.39E+01	3.50E-02	1.05E+04	5.36E+01	3.50E-02	9.33E+03	-	-	-	-	-	-	-	-	-	5.33E+01	3.50E-02	1.13E+04	5.31E+01	3.50E-02	6.98E+03		
		60"	1.56E+01	4.76E+01	2.99E-02	1.06E+04	4.73E+01	2.99E-02	9.34E+03	-	-	-	-	-	-	-	-	-	4.71E+01	2.99E-02	1.13E+04	4.69E+01	2.99E-02	6.99E+03		
		72"	1.53E+01	5.42E+01	3.03E-02	1.05E+04	4.76E+01	3.03E-02	9.34E+03	-	-	-	-	-	-	-	-	-	-	4.74E+01	3.03E-02	1.13E+04	4.72E+01	3.03E-02	6.99E+03	
	India	36"	1.99E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	2.09E+04	-	-	-	6.37E+01	4.66E-02	1.04E+04
		48"	1.93E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.36E+01	3.50E-02	2.09E+04	-	-	-	5.31E+01	3.50E-02	1.04E+04
		60"	1.96E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.73E+01	2.99E-02	2.10E+04	-	-	-	4.69E+01	2.99E-02	1.04E+04
		72"	1.94E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.76E+01	3.03E-02	2.10E+04	-	-	-	4.72E+01	3.03E-02	1.04E+04
	Japan	36"	1.39E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	5.76E+03	6.47E+01	4.66E-02	4.83E+03	6.40E+01	4.66E-02	4.26E+03	6.40E+01	4.66E-02	3.16E+03	6.37E+01	4.66E-02	2.54E+03		
		48"	1.35E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	5.77E+03	5.39E+01	3.50E-02	4.85E+03	5.36E+01	3.50E-02	4.27E+03	5.33E+01	3.50E-02	3.17E+03	5.31E+01	3.50E-02	2.55E+03		
		60"	1.37E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	5.78E+03	4.76E+01	2.99E-02	4.85E+03	4.73E+01	2.99E-02	4.28E+03	4.71E+01	2.99E-02	3.18E+03	4.69E+01	2.99E-02	2.55E+03		
		72"	1.35E+01	-	-	-	-	-	-	4.85E+01	3.03E-02	5.78E+03	4.77E+01	3.03E-02	4.85E+03	4.76E+01	3.03E-02	4.28E+03	4.74E+01	3.03E-02	3.18E+03	4.72E+01	3.03E-02	2.55E+03		
	Middle East	36"	2.05E+01	6.44E+01	4.66E-02	1.62E+04	6.40E+01	4.66E-02	1.41E+04	6.59E+01	4.66E-02	3.16E+04	6.47E+01	4.66E-02	2.46E+04	6.40E+01	4.66E-02	2.08E+04	6.40E+01	4.66E-02	1.43E+04	6.37E+01	4.66E-02	1.03E+04		
		48"	1.98E+01	5.39E+01	3.50E-02	1.62E+04	5.36E+01	3.50E-02	1.41E+04	5.49E+01	3.50E-02	3.16E+04	5.39E+01	3.50E-02	2.46E+04	5.36E+01	3.50E-02	2.08E+04	5.33E+01	3.50E-02	1.44E+04	5.31E+01	3.50E-02	1.03E+04		
		60"	2.02E+01	4.76E+01	2.99E-02	1.62E+04	4.73E+01	2.99E-02	1.41E+04	4.84E+01	2.99E-02	3.16E+04	4.76E+01	2.99E-02	2.46E+04	4.73E+01	2.99E-02	2.08E+04	4.71E+01	2.99E-02	1.44E+04	4.69E+01	2.99E-02	1.03E+04		
		72"	1.99E+01	5.42E+01	3.03E-02	1.62E+04	4.76E+01	3.03E-02	1.41E+04	4.85E+01	3.03E-02	3.16E+04	4.77E+01	3.03E-02	2.46E+04	4.76E+01	3.03E-02	2.08E+04	4.74E+01	3.03E-02	1.44E+04	4.72E+01	3.03E-02	1.03E+04		
	Russia	36"	1.52E+01	6.44E+01	4.66E-02	2.08E+02	6.40E+01	4.66E-02	5.59E+01	6.59E+01	4.66E-02	2.74E+02	6.47E+01	4.66E-02	4.63E+02	-	-	-	6.40E+01	4.66E-02	2.91E+02	6.37E+01	4.66E-02	3.91E+02		
		48"	1.48E+01	5.39E+01	3.50E-02	2.19E+02	5.36E+01	3.50E-02	6.68E+01	5.49E+01	3.50E-02	2.86E+02	5.39E+01	3.50E-02	4.74E+02	-	-	-	5.33E+01	3.50E-02	3.03E+02	5.31E+01	3.50E-02	4.02E+02		
		60"	1.50E+01	4.76E+01	2.99E-02	2.25E+02	4.73E+01	2.99E-02	7.28E+01	4.84E+01	2.99E-02	2.92E+02	4.76E+01	2.99E-02	4.80E+02	-	-	-	4.71E+01	2.99E-02	3.08E+02	4.69E+01	2.99E-02	4.08E+02		
		72"	1.48E+01	5.42E+01	3.03E-02	2.19E+02	4.76E+01	3.03E-02	7.28E+01	4.85E+01	3.03E-02	2.92E+02	4.77E+01	3.03E-02	4.80E+02	-	-	-	4.74E+01	3.03E-02	3.08E+02	4.72E+01	3.03E-02	4.08E+02		
	China, Mid-East Coast	36"	1.58E+01	6.44E+01	4.66E-02	7.46E+03	6.40E+01	4.66E-02	6.61E+03	-	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	6.87E+03	6.37E+01	4.66E-02	5.02E+03		
		48"	1.53E+01	5.39E+01	3.50E-02	7.47E+03	5.36E+01	3.50E-02	6.62E+03	-	-	-	-	-	-	-	-	-	5.33E+01	3.50E-02	6.88E+03	5.31E+01	3.50E-02	5.03E+03		
		60"	1.56E+01	4.76E+01	2.99E-02	7.47E+03	4.73E+01	2.99E-02	6.62E+03	-	-	-	-	-	-	-	-	-	4.71E+01	2.99E-02	6.89E+03	4.69E+01	2.99E-02	5.04E+03		
		72"	1.53E+01	5.42E+01	3.03E-02	7.47E+03	4.76E+01	3.03E-02	6.62E+03	-	-	-	-	-	-	-	-	-	-	4.74E+01	3.03E-02	6.89E+03	4.72E+01	3.03E-02	5.04E+03	
Turkey	36"	1.74E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	9.00E+03	6.40E+01	4.66E-02	7.43E+03	-	-	-			
	48"	1.69E+01	-	-	-	-	-	-	-	-	-	-	-	-	5.36E+01	3.50E-02	9.01E+03	5.33E+01	3.50E-02	7.44E+03	-	-	-			
	60"	1.72E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.73E+01	2.99E-02	9.01E+03	4.71E+01	2.99E-02	7.45E+03	-	-	-			
	72"	1.69E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.76E+01	3.03E-02	9.01E+03	4.74E+01	3.03E-02	7.45E+03	-	-	-			

TABLE 51: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN THE SOUTHERN HEMISPHERE

15 Year Lifecycle (MJe / Meter ²)			All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
Southern Hemisphere	Southern Africa	36"	2.43E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	2.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	2.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32E+02	3.50E-02	1.32E+04	-	-	-
		72"	2.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.49E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	5.24E+03	6.22E+01	4.66E-02	5.51E+03	-	-	-	6.22E+01	4.66E-02	5.44E+03	-	-	-	6.22E+01	4.66E-02	5.59E+03
		48"	1.44E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	5.25E+03	4.80E+01	3.50E-02	5.53E+03	-	-	-	4.80E+01	3.50E-02	5.45E+03	1.32E+02	3.50E-02	3.90E+03	4.80E+01	3.50E-02	5.61E+03
		60"	1.46E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	5.26E+03	4.28E+01	2.99E-02	5.53E+03	-	-	-	4.28E+01	2.99E-02	5.46E+03	1.08E+02	2.99E-02	3.92E+03	4.28E+01	2.99E-02	5.61E+03
		72"	1.44E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	5.61E+03
	Australia	36"	1.93E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.88E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.91E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.88E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Brazil	36"	1.41E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	2.06E+03	6.22E+01	4.66E-02	2.17E+03	-	-	-	6.22E+01	4.66E-02	2.18E+03	-	-	-	6.22E+01	4.66E-02	2.25E+03
		48"	1.36E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	2.07E+03	4.80E+01	3.50E-02	2.18E+03	-	-	-	4.80E+01	3.50E-02	2.19E+03	1.32E+02	3.50E-02	1.50E+03	4.80E+01	3.50E-02	2.27E+03
		60"	1.39E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	2.08E+03	4.28E+01	2.99E-02	2.19E+03	-	-	-	4.28E+01	2.99E-02	2.20E+03	1.08E+02	2.99E-02	1.53E+03	4.28E+01	2.99E-02	2.27E+03
		72"	1.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29E+01	3.03E-02	2.27E+03

TABLE 52: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (MJe / Meter ²)			All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
Southern Hemisphere	Southern Africa	36"	2.43E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	2.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	2.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	2.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.49E+01	6.59E+01	4.66E-02	4.85E+03	-	-	-	-	-	-	-	-	-	-	-	7.55E+01	5.88E-02	5.56E+03	7.37E+01	5.88E-02	4.85E+03	-	-	-	-
		48"	1.44E+01	5.49E+01	3.50E-02	4.86E+03	-	-	-	-	-	-	-	-	-	-	-	6.22E+01	4.41E-02	5.57E+03	6.06E+01	4.41E-02	4.86E+03	-	-	-	-
		60"	1.46E+01	4.84E+01	2.99E-02	4.87E+03	-	-	-	-	-	-	-	-	-	-	-	5.42E+01	3.75E-02	5.58E+03	5.29E+01	3.75E-02	4.87E+03	-	-	-	-
		72"	1.44E+01	4.85E+01	3.03E-02	4.87E+03	-	-	-	-	-	-	-	-	-	-	-	5.12E+01	3.25E-02	5.58E+03	5.01E+01	3.25E-02	4.87E+03	-	-	-	-
	Australia	36"	1.93E+01	-	-	-	6.59E+01	4.66E-02	9.99E+03	6.44E+01	4.66E-02	8.64E+03	-	-	-	-	-	7.55E+01	5.88E-02	1.06E+04	7.37E+01	5.88E-02	9.30E+03	-	-	-	-
		48"	1.88E+01	-	-	-	5.49E+01	3.50E-02	1.00E+04	5.39E+01	3.50E-02	8.66E+03	-	-	-	-	-	6.22E+01	4.41E-02	1.06E+04	6.06E+01	4.41E-02	9.32E+03	-	-	-	-
		60"	1.91E+01	-	-	-	4.84E+01	2.99E-02	1.00E+04	4.76E+01	2.99E-02	8.66E+03	-	-	-	-	-	5.42E+01	3.75E-02	1.06E+04	5.29E+01	3.75E-02	9.32E+03	-	-	-	-
		72"	1.88E+01	-	-	-	4.85E+01	3.03E-02	1.00E+04	5.42E+01	3.03E-02	8.66E+03	-	-	-	-	-	5.12E+01	3.25E-02	1.07E+04	5.01E+01	3.25E-02	9.33E+03	-	-	-	-
	Brazil	36"	1.41E+01	-	-	-	6.59E+01	4.66E-02	2.36E+03	-	-	-	-	-	-	-	-	7.55E+01	5.88E-02	2.26E+03	-	-	-	-	-	-	-
		48"	1.36E+01	-	-	-	5.49E+01	3.50E-02	2.37E+03	-	-	-	-	-	-	-	-	6.22E+01	4.41E-02	2.27E+03	-	-	-	-	-	-	-
		60"	1.39E+01	-	-	-	4.84E+01	2.99E-02	2.38E+03	-	-	-	-	-	-	-	-	5.42E+01	3.75E-02	2.28E+03	-	-	-	-	-	-	-
		72"	1.36E+01	-	-	-	4.84E+01	3.03E-02	2.38E+03	-	-	-	-	-	-	-	-	5.12E+01	3.25E-02	2.28E+03	-	-	-	-	-	-	-

TABLE 53: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (MJe / Meter ²)			All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved
Southern Hemisphere	Southern Africa	36"	2.43E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.59E+01	4.66E-02	1.63E+04	-	-	-	
		48"	2.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.49E+01	3.50E-02	1.64E+04	-	-	-
		60"	2.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.84E+01	2.99E-02	1.64E+04	-	-	-
	Argentina	72"	2.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.85E+01	3.03E-02	1.64E+04	-	-	-
		36"	1.49E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	5.84E+03	-	-	-	-	-	-	6.22E+01	4.66E-02	5.88E+03	6.59E+01	4.66E-02	4.93E+03	6.31E+01	4.66E-02	4.00E+03
		48"	1.44E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	5.85E+03	-	-	-	-	-	-	4.80E+01	3.50E-02	5.89E+03	5.49E+01	3.50E-02	4.94E+03	5.39E+01	3.50E-02	4.01E+03
		60"	1.46E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	5.85E+03	-	-	-	-	-	-	4.28E+01	2.99E-02	5.90E+03	4.84E+01	2.99E-02	4.95E+03	4.76E+01	2.99E-02	4.02E+03
	Australia	72"	1.44E+01	-	-	-	-	-	-	4.85E+01	3.03E-02	5.85E+03	-	-	-	-	-	-	4.29E+01	3.03E-02	5.90E+03	4.85E+01	3.03E-02	4.95E+03	5.42E+01	3.03E-02	4.01E+03
		36"	1.93E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	1.07E+04	6.44E+01	4.66E-02	9.45E+03	-	-	-	-	-	-	6.59E+01	4.66E-02	8.11E+03	-	-	-
		48"	1.88E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	1.07E+04	5.39E+01	3.50E-02	9.46E+03	-	-	-	-	-	-	5.49E+01	3.50E-02	8.12E+03	-	-	-
		60"	1.91E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	1.07E+04	4.76E+01	2.99E-02	9.47E+03	-	-	-	-	-	-	4.84E+01	2.99E-02	8.13E+03	-	-	-
	Brazil	72"	1.88E+01	-	-	-	-	-	-	4.85E+01	3.03E-02	1.07E+04	5.42E+01	3.03E-02	9.46E+03	-	-	-	-	-	-	4.85E+01	3.03E-02	8.13E+03	-	-	-
		36"	1.41E+01	-	-	-	-	-	-	6.59E+01	4.66E-02	2.37E+03	-	-	-	-	-	-	6.22E+01	4.66E-02	2.38E+03	6.59E+01	4.66E-02	1.93E+03	6.31E+01	4.66E-02	1.56E+03
		48"	1.36E+01	-	-	-	-	-	-	5.49E+01	3.50E-02	2.39E+03	-	-	-	-	-	-	4.80E+01	3.50E-02	2.39E+03	5.49E+01	3.50E-02	1.95E+03	5.39E+01	3.50E-02	1.57E+03
		60"	1.39E+01	-	-	-	-	-	-	4.84E+01	2.99E-02	2.39E+03	-	-	-	-	-	-	4.28E+01	2.99E-02	2.40E+03	4.84E+01	2.99E-02	1.95E+03	4.76E+01	2.99E-02	1.57E+03
	72"	1.36E+01	-	-	-	-	-	-	4.85E+01	3.03E-02	2.39E+03	-	-	-	-	-	-	4.29E+01	3.03E-02	2.40E+03	4.85E+01	3.03E-02	1.95E+03	5.42E+01	3.03E-02	1.57E+03	

TABLE 54: EMBODIED FOSSIL FUEL USE & NET FOSSIL FUEL USE SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (MJe / Meter^2)			All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
			Transportation to Customer	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	Manufacturing	End-of-Life	Net MJe Saved	
Southern Hemisphere	Southern Africa	36"	2.43E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	2.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	2.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	2.37E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.49E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	4.27E+03	-	-	-	6.37E+01	4.66E-02	2.12E+03	
		48"	1.44E+01	-	-	-	-	-	-	-	-	-	-	-	-	5.36E+01	3.50E-02	4.28E+03	-	-	-	5.31E+01	3.50E-02	2.14E+03	
		60"	1.46E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.73E+01	2.99E-02	4.28E+03	-	-	-	4.69E+01	2.99E-02	2.14E+03	
		72"	1.44E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.76E+01	3.03E-02	4.28E+03	-	-	-	4.72E+01	3.03E-02	2.14E+03	
	Australia	36"	1.93E+01	6.44E+01	4.66E-02	5.60E+03	6.40E+01	4.66E-02	4.96E+03	6.59E+01	4.66E-02	1.13E+04	6.47E+01	4.66E-02	9.02E+03	6.40E+01	4.66E-02	7.19E+03	6.40E+01	4.66E-02	5.05E+03	6.37E+01	4.66E-02	3.70E+03	
		48"	1.88E+01	5.39E+01	3.50E-02	5.61E+03	5.36E+01	3.50E-02	4.97E+03	5.49E+01	3.50E-02	1.13E+04	5.39E+01	3.50E-02	9.03E+03	5.36E+01	3.50E-02	7.20E+03	5.33E+01	3.50E-02	5.06E+03	5.31E+01	3.50E-02	3.72E+03	
		60"	1.91E+01	4.76E+01	2.99E-02	5.62E+03	4.73E+01	2.99E-02	4.98E+03	4.84E+01	2.99E-02	1.13E+04	4.76E+01	2.99E-02	9.03E+03	4.73E+01	2.99E-02	7.20E+03	4.71E+01	2.99E-02	5.07E+03	4.69E+01	2.99E-02	3.72E+03	
		72"	1.88E+01	5.42E+01	3.03E-02	5.61E+03	4.76E+01	3.03E-02	4.98E+03	4.85E+01	3.03E-02	1.13E+04	4.77E+01	3.03E-02	9.03E+03	4.76E+01	3.03E-02	7.20E+03	4.74E+01	3.03E-02	5.07E+03	4.72E+01	3.03E-02	3.72E+03	
	Brazil	36"	1.41E+01	-	-	-	-	-	-	-	-	-	-	-	-	6.40E+01	4.66E-02	1.81E+03	-	-	-	6.37E+01	4.66E-02	8.09E+02	
		48"	1.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	5.36E+01	3.50E-02	1.82E+03	-	-	-	5.31E+01	3.50E-02	8.20E+02	
		60"	1.39E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.73E+01	2.99E-02	1.83E+03	-	-	-	4.69E+01	2.99E-02	8.26E+02	
		72"	1.36E+01	-	-	-	-	-	-	-	-	-	-	-	-	4.76E+01	3.03E-02	1.83E+03	-	-	-	4.72E+01	3.03E-02	8.26E+02	

GLOBAL WARMING POTENTIAL:

Tables 55 to 70 below show the CO₂e emissions embodied in one m² of film, and the GWP reductions in kg of CO₂e for all the types of window films sold in each of the 24 geographic regions where SGSG window films are distributed.

TABLE 55: EMBODIED CO2E & NET CO2E SAVINGS IN NORTH AMERICA

15 Year Lifecycle (kg CO2e / Meter ²)		All Films Transportation to Customer	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			Highlite 70			Quantum Silver Quantum 10			
			Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
			Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved
North America	ASHRAE Climate Zone 1,2	36"	1.96E-03	3.97E-01	9.20E-03	8.96E+02	3.47E-01	7.70E-03	1.46E+03	3.47E-01	7.70E-03	1.20E+03	3.97E-01	7.70E-03	1.30E+03	3.47E-01	7.70E-03	1.38E+03	3.97E-01	7.70E-03	1.28E+03	-	-	-	3.97E-01	7.70E-03	1.35E+03
		48"	1.91E-03	3.27E-01	8.83E-03	8.96E+02	2.90E-01	7.60E-03	1.46E+03	2.90E-01	7.60E-03	1.20E+03	3.02E-01	7.60E-03	1.30E+03	2.90E-01	7.60E-03	1.38E+03	3.02E-01	7.60E-03	1.29E+03	7.10E-01	7.60E-03	9.08E+02	3.02E-01	7.60E-03	1.35E+03
		60"	1.96E-03	2.86E-01	9.04E-03	8.97E+02	2.56E-01	7.66E-03	1.46E+03	2.56E-01	7.66E-03	1.20E+03	2.66E-01	7.66E-03	1.30E+03	2.56E-01	7.66E-03	1.38E+03	2.66E-01	7.66E-03	1.29E+03	5.92E-01	7.66E-03	9.10E+02	2.66E-01	7.66E-03	1.35E+03
		72"	1.95E-03	2.72E-01	8.97E-03	8.97E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03
	ASHRAE Climate Zone 3	36"	1.96E-03	3.97E-01	9.20E-03	8.56E+02	3.47E-01	7.70E-03	1.37E+03	3.47E-01	7.70E-03	1.14E+03	3.97E-01	7.70E-03	1.22E+03	3.47E-01	7.70E-03	1.29E+03	3.97E-01	7.70E-03	1.21E+03	-	-	-	3.97E-01	7.70E-03	1.27E+03
		48"	1.91E-03	3.27E-01	8.83E-03	8.57E+02	2.90E-01	7.60E-03	1.37E+03	2.90E-01	7.60E-03	1.14E+03	3.02E-01	7.60E-03	1.22E+03	2.90E-01	7.60E-03	1.29E+03	3.02E-01	7.60E-03	1.22E+03	7.10E-01	7.60E-03	8.60E+02	3.02E-01	7.60E-03	1.27E+03
		60"	1.96E-03	2.86E-01	9.04E-03	8.58E+02	2.56E-01	7.66E-03	1.37E+03	2.56E-01	7.66E-03	1.14E+03	2.66E-01	7.66E-03	1.22E+03	2.56E-01	7.66E-03	1.29E+03	2.66E-01	7.66E-03	1.22E+03	5.92E-01	7.66E-03	8.61E+02	2.66E-01	7.66E-03	1.27E+03
		72"	1.95E-03	2.72E-01	8.97E-03	8.58E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03
	ASHRAE Climate Zone 4	36"	1.96E-03	3.97E-01	9.20E-03	4.85E+02	3.47E-01	7.70E-03	7.45E+02	3.47E-01	7.70E-03	6.93E+02	3.97E-01	7.70E-03	6.77E+02	3.47E-01	7.70E-03	7.09E+02	3.97E-01	7.70E-03	6.61E+02	-	-	-	3.97E-01	7.70E-03	6.90E+02
		48"	1.91E-03	3.27E-01	8.83E-03	4.86E+02	2.90E-01	7.60E-03	7.46E+02	2.90E-01	7.60E-03	6.94E+02	3.02E-01	7.60E-03	6.78E+02	2.90E-01	7.60E-03	7.10E+02	3.02E-01	7.60E-03	6.62E+02	7.10E-01	7.60E-03	4.83E+02	3.02E-01	7.60E-03	6.91E+02
		60"	1.96E-03	2.86E-01	9.04E-03	4.86E+02	2.56E-01	7.66E-03	7.46E+02	2.56E-01	7.66E-03	6.94E+02	2.66E-01	7.66E-03	6.78E+02	2.56E-01	7.66E-03	7.10E+02	2.66E-01	7.66E-03	6.63E+02	5.92E-01	7.66E-03	4.85E+02	2.66E-01	7.66E-03	6.91E+02
		72"	1.95E-03	2.72E-01	8.97E-03	4.87E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03
	ASHRAE Climate Zone 5	36"	1.96E-03	3.97E-01	9.20E-03	5.61E+02	3.47E-01	7.70E-03	5.66E+02	3.47E-01	7.70E-03	4.77E+02	3.97E-01	7.70E-03	5.02E+02	3.47E-01	7.70E-03	5.29E+02	3.97E-01	7.70E-03	4.92E+02	-	-	-	3.97E-01	7.70E-03	5.02E+02
		48"	1.91E-03	3.27E-01	8.83E-03	5.62E+02	2.90E-01	7.60E-03	5.67E+02	2.90E-01	7.60E-03	4.78E+02	3.02E-01	7.60E-03	5.03E+02	2.90E-01	7.60E-03	5.29E+02	3.02E-01	7.60E-03	4.93E+02	7.10E-01	7.60E-03	4.27E+02	3.02E-01	7.60E-03	5.03E+02
		60"	1.96E-03	2.86E-01	9.04E-03	5.62E+02	2.56E-01	7.66E-03	5.67E+02	2.56E-01	7.66E-03	4.78E+02	2.66E-01	7.66E-03	5.04E+02	2.56E-01	7.66E-03	5.30E+02	2.66E-01	7.66E-03	4.94E+02	5.92E-01	7.66E-03	4.29E+02	2.66E-01	7.66E-03	5.03E+02
		72"	1.95E-03	2.72E-01	8.97E-03	5.63E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03
	ASHRAE Climate Zone 6,7	36"	1.96E-03	3.97E-01	9.20E-03	4.77E+02	3.47E-01	7.70E-03	5.25E+02	3.47E-01	7.70E-03	4.62E+02	3.97E-01	7.70E-03	4.70E+02	3.47E-01	7.70E-03	4.93E+02	3.97E-01	7.70E-03	4.57E+02	-	-	-	3.97E-01	7.70E-03	4.65E+02
		48"	1.91E-03	3.27E-01	8.83E-03	4.77E+02	2.90E-01	7.60E-03	5.26E+02	2.90E-01	7.60E-03	4.63E+02	3.02E-01	7.60E-03	4.71E+02	2.90E-01	7.60E-03	4.94E+02	3.02E-01	7.60E-03	4.58E+02	7.10E-01	7.60E-03	3.97E+02	3.02E-01	7.60E-03	4.66E+02
		60"	1.96E-03	2.86E-01	9.04E-03	4.78E+02	2.56E-01	7.66E-03	5.26E+02	2.56E-01	7.66E-03	4.63E+02	2.66E-01	7.66E-03	4.71E+02	2.56E-01	7.66E-03	4.94E+02	2.66E-01	7.66E-03	4.58E+02	5.92E-01	7.66E-03	3.99E+02	2.66E-01	7.66E-03	4.66E+02
		72"	1.95E-03	2.72E-01	8.97E-03	4.79E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03
	Canada	36"	6.67E-03	3.97E-01	9.20E-03	-6.12E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.50E-03	3.27E-01	8.83E-03	-6.04E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	-4.46E+01	-	-	-
		60"	6.66E-03	2.86E-01	9.04E-03	-5.99E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	-4.33E+01	-	-	-
		72"	6.57E-03	2.72E-01	8.97E-03	-5.93E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	36"	1.87E-03	-	-	-	3.47E-01	7.70E-03	6.96E+02	3.47E-01	7.70E-03	5.81E+02	-	-	-	3.47E-01	7.70E-03	6.57E+02	3.97E-01	7.70E-03	6.30E+02	-	-	-	-	-	-	
	48"	1.84E-03	-	-	-	2.90E-01	7.60E-03	6.97E+02	2.90E-01	7.60E-03	5.82E+02	-	-	-	2.90E-01	7.60E-03	6.58E+02	3.02E-01	7.60E-03	6.31E+02	7.10E-01	7.60E-03	4.36E+02	-	-	-	
	60"	1.90E-03	-	-	-	2.56E-01	7.66E-03	6.97E+02	2.56E-01	7.66E-03	5.82E+02	-	-	-	2.56E-01	7.66E-03	6.58E+02	2.66E-01	7.66E-03	6.32E+02	5.92E-01	7.66E-03	4.37E+02	-	-	-	
	72"	1.85E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 56: EMBODIED CO2E & NET CO2E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg CO2e / Meter^2)			All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30			
				Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved
North America	ASHRAE Climate Zone 1,2	36"	1.96E-03	4.03E-01	7.70E-03	1.03E+03	3.47E-01	7.70E-03	1.37E+03	3.43E-01	7.70E-03	1.17E+03	3.40E-01	7.70E-03	8.26E+02	3.60E-01	7.70E-03	1.41E+03	4.13E-01	9.20E-03	1.53E+03	4.03E-01	9.20E-03	1.30E+03	3.97E-01	9.20E-03	1.14E+03	
		48"	1.91E-03	3.40E-01	7.60E-03	1.04E+03	2.90E-01	7.60E-03	1.37E+03	2.87E-01	7.60E-03	1.17E+03	2.85E-01	7.60E-03	8.26E+02	3.00E-01	7.60E-03	1.41E+03	3.49E-01	8.83E-03	1.53E+03	3.32E-01	8.83E-03	1.30E+03	3.27E-01	8.83E-03	1.14E+03	
		60"	1.96E-03	2.88E-01	7.70E-03	1.04E+03	2.56E-01	7.66E-03	1.37E+03	2.54E-01	7.66E-03	1.17E+03	2.52E-01	7.66E-03	8.27E+02	2.64E-01	7.66E-03	1.41E+03	2.96E-01	9.04E-03	1.53E+03	2.88E-01	9.04E-03	1.30E+03	2.86E-01	9.04E-03	1.14E+03	
		72"	1.95E-03	2.73E-01	7.52E-03	1.04E+03	3.00E-01	7.52E-03	1.37E+03	2.98E-01	7.52E-03	1.17E+03	2.55E-01	7.52E-03	8.27E+02	-	-	-	2.80E-01	8.97E-03	1.53E+03	2.73E-01	8.97E-03	1.30E+03	2.72E-01	8.97E-03	1.14E+03	
	ASHRAE Climate Zone 3	36"	1.96E-03	4.03E-01	7.70E-03	9.88E+02	3.47E-01	7.70E-03	1.31E+03	3.43E-01	7.70E-03	1.10E+03	3.40E-01	7.70E-03	7.89E+02	3.60E-01	7.70E-03	1.30E+03	4.13E-01	9.20E-03	1.43E+03	4.03E-01	9.20E-03	1.23E+03	3.97E-01	9.20E-03	1.08E+03	
		48"	1.91E-03	3.40E-01	7.60E-03	9.89E+02	2.90E-01	7.60E-03	1.31E+03	2.87E-01	7.60E-03	1.10E+03	2.85E-01	7.60E-03	7.89E+02	3.00E-01	7.60E-03	1.30E+03	3.49E-01	8.83E-03	1.43E+03	3.32E-01	8.83E-03	1.23E+03	3.27E-01	8.83E-03	1.08E+03	
		60"	1.96E-03	2.88E-01	7.70E-03	9.89E+02	2.56E-01	7.66E-03	1.31E+03	2.54E-01	7.66E-03	1.10E+03	2.52E-01	7.66E-03	7.89E+02	2.64E-01	7.66E-03	1.30E+03	2.96E-01	9.04E-03	1.43E+03	2.88E-01	9.04E-03	1.23E+03	2.86E-01	9.04E-03	1.08E+03	
		72"	1.95E-03	2.73E-01	7.52E-03	9.90E+02	3.00E-01	7.52E-03	1.31E+03	2.98E-01	7.52E-03	1.10E+03	2.55E-01	7.52E-03	7.89E+02	-	-	-	2.80E-01	8.97E-03	1.43E+03	2.73E-01	8.97E-03	1.23E+03	2.72E-01	8.97E-03	1.08E+03	
	ASHRAE Climate Zone 4	36"	1.96E-03	4.03E-01	7.70E-03	5.48E+02	3.47E-01	7.70E-03	7.05E+02	3.43E-01	7.70E-03	6.16E+02	3.40E-01	7.70E-03	4.48E+02	3.60E-01	7.70E-03	7.57E+02	4.13E-01	9.20E-03	7.61E+02	4.03E-01	9.20E-03	6.63E+02	3.97E-01	9.20E-03	6.35E+02	
		48"	1.91E-03	3.40E-01	7.60E-03	5.49E+02	2.90E-01	7.60E-03	7.06E+02	2.87E-01	7.60E-03	6.17E+02	2.85E-01	7.60E-03	4.48E+02	3.00E-01	7.60E-03	7.58E+02	3.49E-01	8.83E-03	7.62E+02	3.32E-01	8.83E-03	6.64E+02	3.27E-01	8.83E-03	6.36E+02	
		60"	1.96E-03	2.88E-01	7.70E-03	5.50E+02	2.56E-01	7.66E-03	7.06E+02	2.54E-01	7.66E-03	6.17E+02	2.52E-01	7.66E-03	4.49E+02	2.64E-01	7.66E-03	7.58E+02	2.96E-01	9.04E-03	7.63E+02	2.88E-01	9.04E-03	6.64E+02	2.86E-01	9.04E-03	6.36E+02	
		72"	1.95E-03	2.73E-01	7.52E-03	5.50E+02	3.00E-01	7.52E-03	7.06E+02	2.98E-01	7.52E-03	6.17E+02	2.55E-01	7.52E-03	4.49E+02	-	-	-	2.80E-01	8.97E-03	7.63E+02	2.73E-01	8.97E-03	6.64E+02	2.72E-01	8.97E-03	6.36E+02	
	ASHRAE Climate Zone 5	36"	1.96E-03	4.03E-01	7.70E-03	3.90E+02	3.47E-01	7.70E-03	6.02E+02	3.43E-01	7.70E-03	5.01E+02	3.40E-01	7.70E-03	3.87E+02	3.60E-01	7.70E-03	5.91E+02	4.13E-01	9.20E-03	5.90E+02	4.03E-01	9.20E-03	5.21E+02	3.97E-01	9.20E-03	4.69E+02	
		48"	1.91E-03	3.40E-01	7.60E-03	3.91E+02	2.90E-01	7.60E-03	6.03E+02	2.87E-01	7.60E-03	5.01E+02	2.85E-01	7.60E-03	3.88E+02	3.00E-01	7.60E-03	5.92E+02	3.49E-01	8.83E-03	5.91E+02	3.32E-01	8.83E-03	5.22E+02	3.27E-01	8.83E-03	4.70E+02	
		60"	1.96E-03	2.88E-01	7.70E-03	3.91E+02	2.56E-01	7.66E-03	6.03E+02	2.54E-01	7.66E-03	5.02E+02	2.52E-01	7.66E-03	3.88E+02	2.64E-01	7.66E-03	5.92E+02	2.96E-01	9.04E-03	5.92E+02	2.88E-01	9.04E-03	5.22E+02	2.86E-01	9.04E-03	4.70E+02	
		72"	1.95E-03	2.73E-01	7.52E-03	3.92E+02	3.00E-01	7.52E-03	6.03E+02	2.98E-01	7.52E-03	5.01E+02	2.55E-01	7.52E-03	3.88E+02	-	-	-	2.80E-01	8.97E-03	5.92E+02	2.73E-01	8.97E-03	5.22E+02	2.72E-01	8.97E-03	4.70E+02	
	ASHRAE Climate Zone 6,7	36"	1.96E-03	4.03E-01	7.70E-03	3.60E+02	3.47E-01	7.70E-03	5.66E+02	3.43E-01	7.70E-03	4.68E+02	3.40E-01	7.70E-03	3.60E+02	3.60E-01	7.70E-03	5.60E+02	4.13E-01	9.20E-03	5.52E+02	4.03E-01	9.20E-03	4.84E+02	3.97E-01	9.20E-03	4.35E+02	
		48"	1.91E-03	3.40E-01	7.60E-03	3.61E+02	2.90E-01	7.60E-03	5.67E+02	2.87E-01	7.60E-03	4.69E+02	2.85E-01	7.60E-03	3.61E+02	3.00E-01	7.60E-03	5.61E+02	3.49E-01	8.83E-03	5.53E+02	3.32E-01	8.83E-03	4.85E+02	3.27E-01	8.83E-03	4.35E+02	
		60"	1.96E-03	2.88E-01	7.70E-03	3.61E+02	2.56E-01	7.66E-03	5.67E+02	2.54E-01	7.66E-03	4.69E+02	2.52E-01	7.66E-03	3.61E+02	2.64E-01	7.66E-03	5.61E+02	2.96E-01	9.04E-03	5.53E+02	2.88E-01	9.04E-03	4.85E+02	2.86E-01	9.04E-03	4.36E+02	
		72"	1.95E-03	2.73E-01	7.52E-03	3.62E+02	3.00E-01	7.52E-03	5.67E+02	2.98E-01	7.52E-03	4.69E+02	2.55E-01	7.52E-03	3.61E+02	-	-	-	2.80E-01	8.97E-03	5.53E+02	2.73E-01	8.97E-03	4.86E+02	2.72E-01	8.97E-03	4.36E+02	
	Canada	36"	6.67E-03	-	-	-	3.47E-01	7.70E-03	-8.91E+01	3.43E-01	7.70E-03	-5.32E+01	3.40E-01	7.70E-03	-3.21E+01	3.60E-01	7.70E-03	-2.95E+01	4.13E-01	9.20E-03	-9.42E+01	4.03E-01	9.20E-03	-6.94E+01	3.97E-01	9.20E-03	-5.31E+01	
		48"	6.50E-03	-	-	-	2.90E-01	7.60E-03	-8.81E+01	2.87E-01	7.60E-03	-5.25E+01	2.85E-01	7.60E-03	-3.15E+01	3.00E-01	7.60E-03	-2.88E+01	3.49E-01	8.83E-03	-9.34E+01	3.32E-01	8.83E-03	-6.85E+01	3.27E-01	8.83E-03	-5.24E+01	
		60"	6.66E-03	-	-	-	2.56E-01	7.66E-03	-8.81E+01	2.54E-01	7.66E-03	-5.22E+01	2.52E-01	7.66E-03	-3.11E+01	2.64E-01	7.66E-03	-2.84E+01	2.96E-01	9.04E-03	-9.29E+01	2.88E-01	9.04E-03	-6.81E+01	2.86E-01	9.04E-03	-5.19E+01	
		72"	6.57E-03	-	-	-	3.00E-01	7.52E-03	-8.81E+01	2.98E-01	7.52E-03	-5.26E+01	2.55E-01	7.52E-03	-3.12E+01	-	-	-	2.80E-01	8.97E-03	-9.27E+01	2.73E-01	8.97E-03	-6.79E+01	2.72E-01	8.97E-03	-5.17E+01	
	Mexico	36"	1.87E-03	-	-	-	3.47E-01	7.70E-03	6.49E+02	3.43E-01	7.70E-03	5.59E+02	3.40E-01	7.70E-03	4.11E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.84E-03	-	-	-	2.90E-01	7.60E-03	6.50E+02	2.87E-01	7.60E-03	5.60E+02	2.85E-01	7.60E-03	4.12E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.90E-03	-	-	-	2.56E-01	7.66E-03	6.50E+02	2.54E-01	7.66E-03	5.60E+02	2.52E-01	7.66E-03	4.12E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.85E-03	-	-	-	3.00E-01	7.52E-03	6.50E+02	2.98E-01	7.52E-03	5.60E+02	2.55E-01	7.52E-03	4.12E+02	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 57: EMBODIED CO2E & NET CO2E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
North America	0	36"	1.96E-03	3.93E-01	9.20E-03	8.87E+02	3.40E-01	7.70E-03	8.85E+02	3.47E-01	7.70E-03	1.37E+03	3.43E-01	7.70E-03	1.17E+03	3.40E-01	7.70E-03	1.09E+03	3.97E-01	7.70E-03	1.43E+03	3.47E-01	7.70E-03	1.10E+03	3.43E-01	7.70E-03	9.05E+02
		48"	1.91E-03	3.22E-01	8.83E-03	8.87E+02	2.85E-01	7.60E-03	8.86E+02	2.90E-01	7.60E-03	1.37E+03	2.87E-01	7.60E-03	1.17E+03	2.85E-01	7.60E-03	1.10E+03	3.02E-01	7.60E-03	1.43E+03	2.90E-01	7.60E-03	1.10E+03	2.87E-01	7.60E-03	9.06E+02
		60"	1.96E-03	2.82E-01	9.04E-03	8.88E+02	2.52E-01	7.66E-03	8.86E+02	2.56E-01	7.70E-03	1.37E+03	2.54E-01	7.70E-03	1.17E+03	2.54E-01	7.70E-03	1.10E+03	2.66E-01	7.70E-03	1.43E+03	2.96E-01	7.70E-03	1.10E+03	2.54E-01	7.70E-03	9.06E+02
		72"	1.95E-03	2.68E-01	8.97E-03	8.88E+02	2.55E-01	7.52E-03	8.86E+02	3.00E-01	7.52E-03	1.37E+03	2.98E-01	7.52E-03	1.17E+03	2.55E-01	7.52E-03	1.10E+03	2.45E-01	7.52E-03	1.43E+03	3.00E-01	7.52E-03	1.10E+03	2.98E-01	7.52E-03	9.06E+02
	0	36"	1.96E-03	3.93E-01	9.20E-03	8.46E+02	3.40E-01	7.70E-03	8.46E+02	3.47E-01	7.70E-03	1.39E+03	3.43E-01	7.70E-03	1.21E+03	3.40E-01	7.70E-03	1.04E+03	3.97E-01	7.70E-03	1.34E+03	3.47E-01	7.70E-03	1.05E+03	3.43E-01	7.70E-03	8.88E+02
		48"	1.91E-03	3.22E-01	8.83E-03	8.47E+02	2.85E-01	7.60E-03	8.47E+02	2.90E-01	7.60E-03	1.39E+03	2.87E-01	7.60E-03	1.21E+03	2.85E-01	7.60E-03	1.04E+03	3.02E-01	7.60E-03	1.34E+03	2.90E-01	7.60E-03	1.05E+03	2.87E-01	7.60E-03	8.89E+02
		60"	1.96E-03	2.82E-01	9.04E-03	8.48E+02	2.52E-01	7.66E-03	8.47E+02	2.56E-01	7.70E-03	1.39E+03	2.54E-01	7.70E-03	1.21E+03	2.54E-01	7.70E-03	1.04E+03	2.66E-01	7.70E-03	1.34E+03	2.96E-01	7.70E-03	1.05E+03	2.54E-01	7.70E-03	8.89E+02
		72"	1.95E-03	2.68E-01	8.97E-03	8.48E+02	2.55E-01	7.52E-03	8.47E+02	3.00E-01	7.52E-03	1.39E+03	2.98E-01	7.52E-03	1.21E+03	2.55E-01	7.52E-03	1.04E+03	2.45E-01	7.52E-03	1.34E+03	3.00E-01	7.52E-03	1.05E+03	2.98E-01	7.52E-03	8.89E+02
	0	36"	1.96E-03	3.93E-01	9.20E-03	4.76E+02	3.40E-01	7.70E-03	4.76E+02	3.47E-01	7.70E-03	7.58E+02	3.43E-01	7.70E-03	6.71E+02	3.40E-01	7.70E-03	5.82E+02	3.97E-01	7.70E-03	7.24E+02	3.47E-01	7.70E-03	5.79E+02	3.43E-01	7.70E-03	4.84E+02
		48"	1.91E-03	3.22E-01	8.83E-03	4.76E+02	2.85E-01	7.60E-03	4.76E+02	2.90E-01	7.60E-03	7.59E+02	2.87E-01	7.60E-03	6.71E+02	2.85E-01	7.60E-03	5.83E+02	3.02E-01	7.60E-03	7.25E+02	2.90E-01	7.60E-03	5.79E+02	2.87E-01	7.60E-03	4.85E+02
		60"	1.96E-03	2.82E-01	9.04E-03	4.77E+02	2.52E-01	7.66E-03	4.77E+02	2.56E-01	7.70E-03	7.59E+02	2.54E-01	7.70E-03	6.72E+02	2.54E-01	7.70E-03	5.83E+02	2.66E-01	7.70E-03	7.26E+02	2.96E-01	7.70E-03	5.80E+02	2.54E-01	7.70E-03	4.85E+02
		72"	1.95E-03	2.68E-01	8.97E-03	4.77E+02	2.55E-01	7.52E-03	4.77E+02	3.00E-01	7.52E-03	7.59E+02	2.98E-01	7.52E-03	6.71E+02	2.55E-01	7.52E-03	5.83E+02	2.45E-01	7.52E-03	7.26E+02	3.00E-01	7.52E-03	5.79E+02	2.98E-01	7.52E-03	4.85E+02
	0	36"	1.96E-03	3.93E-01	9.20E-03	3.94E+02	3.40E-01	7.70E-03	4.01E+02	3.47E-01	7.70E-03	5.96E+02	3.43E-01	7.70E-03	5.41E+02	3.40E-01	7.70E-03	4.86E+02	3.97E-01	7.70E-03	5.49E+02	3.47E-01	7.70E-03	4.48E+02	3.43E-01	7.70E-03	3.86E+02
		48"	1.91E-03	3.22E-01	8.83E-03	3.94E+02	2.85E-01	7.60E-03	4.02E+02	2.90E-01	7.60E-03	5.97E+02	2.87E-01	7.60E-03	5.42E+02	2.85E-01	7.60E-03	4.86E+02	3.02E-01	7.60E-03	5.50E+02	2.90E-01	7.60E-03	4.48E+02	2.87E-01	7.60E-03	3.87E+02
		60"	1.96E-03	2.82E-01	9.04E-03	3.95E+02	2.52E-01	7.66E-03	4.02E+02	2.56E-01	7.70E-03	5.97E+02	2.54E-01	7.70E-03	5.42E+02	2.54E-01	7.70E-03	4.87E+02	2.66E-01	7.70E-03	5.51E+02	2.96E-01	7.70E-03	4.49E+02	2.54E-01	7.70E-03	3.87E+02
		72"	1.95E-03	2.68E-01	8.97E-03	3.95E+02	2.55E-01	7.52E-03	4.02E+02	3.00E-01	7.52E-03	5.97E+02	2.98E-01	7.52E-03	5.42E+02	2.55E-01	7.52E-03	4.87E+02	2.45E-01	7.52E-03	5.51E+02	3.00E-01	7.52E-03	4.48E+02	2.98E-01	7.52E-03	3.87E+02
	0	36"	1.96E-03	3.93E-01	9.20E-03	3.66E+02	3.40E-01	7.70E-03	3.74E+02	3.47E-01	7.70E-03	5.62E+02	3.43E-01	7.70E-03	5.08E+02	3.40E-01	7.70E-03	4.55E+02	3.97E-01	7.70E-03	5.12E+02	3.47E-01	7.70E-03	4.15E+02	3.43E-01	7.70E-03	3.58E+02
		48"	1.91E-03	3.22E-01	8.83E-03	3.67E+02	2.85E-01	7.60E-03	3.75E+02	2.90E-01	7.60E-03	5.63E+02	2.87E-01	7.60E-03	5.09E+02	2.85E-01	7.60E-03	4.56E+02	3.02E-01	7.60E-03	5.13E+02	2.90E-01	7.60E-03	4.16E+02	2.87E-01	7.60E-03	3.58E+02
		60"	1.96E-03	2.82E-01	9.04E-03	3.67E+02	2.52E-01	7.66E-03	3.75E+02	2.56E-01	7.70E-03	5.63E+02	2.54E-01	7.70E-03	5.09E+02	2.54E-01	7.70E-03	4.56E+02	2.66E-01	7.70E-03	5.14E+02	2.96E-01	7.70E-03	4.16E+02	2.54E-01	7.70E-03	3.59E+02
		72"	1.95E-03	2.68E-01	8.97E-03	3.67E+02	2.55E-01	7.52E-03	3.75E+02	3.00E-01	7.52E-03	5.63E+02	2.98E-01	7.52E-03	5.09E+02	2.55E-01	7.52E-03	4.56E+02	2.45E-01	7.52E-03	5.14E+02	3.00E-01	7.52E-03	4.16E+02	2.98E-01	7.52E-03	3.58E+02
	0	36"	6.67E-03	3.93E-01	9.20E-03	-3.49E+01	3.40E-01	7.70E-03	-3.35E+01	3.47E-01	7.70E-03	-8.20E+01	3.43E-01	7.70E-03	-6.18E+01	3.40E-01	7.70E-03	-4.66E+01	3.97E-01	7.70E-03	-7.30E+01	3.47E-01	7.70E-03	-4.61E+01	3.43E-01	7.70E-03	-3.39E+01
		48"	6.50E-03	3.22E-01	8.83E-03	-3.41E+01	2.85E-01	7.60E-03	-3.28E+01	2.90E-01	7.60E-03	-8.09E+01	2.87E-01	7.60E-03	-6.11E+01	2.85E-01	7.60E-03	-4.59E+01	3.02E-01	7.60E-03	-7.20E+01	2.90E-01	7.60E-03	-4.55E+01	2.87E-01	7.60E-03	-3.32E+01
		60"	6.66E-03	2.82E-01	9.04E-03	-3.36E+01	2.52E-01	7.66E-03	-3.25E+01	2.56E-01	7.70E-03	-8.10E+01	2.54E-01	7.70E-03	-6.08E+01	2.54E-01	7.70E-03	-4.56E+01	2.66E-01	7.70E-03	-7.16E+01	2.96E-01	7.70E-03	-4.51E+01	2.54E-01	7.70E-03	-3.28E+01
		72"	6.57E-03	2.68E-01	8.97E-03	-3.35E+01	2.55E-01	7.52E-03	-3.25E+01	3.00E-01	7.52E-03	-8.10E+01	2.98E-01	7.52E-03	-6.13E+01	2.55E-01	7.52E-03	-4.56E+01	2.45E-01	7.52E-03	-7.13E+01	3.00E-01	7.52E-03	-4.56E+01	2.98E-01	7.52E-03	-3.33E+01
	0	36"	1.87E-03	-	-	-	-	-	-	3.47E-01	7.70E-03	6.98E+02	3.43E-01	7.70E-03	6.06E+02	3.40E-01	7.70E-03	5.19E+02	3.97E-01	7.70E-03	6.89E+02	3.47E-01	7.70E-03	5.43E+02	3.43E-01	7.70E-03	4.50E+02
		48"	1.84E-03	-	-	-	-	-	-	2.90E-01	7.60E-03	7.00E+02	2.87E-01	7.60E-03	6.07E+02	2.85E-01	7.60E-03	5.20E+02	3.02E-01	7.60E-03	6.90E+02	2.90E-01	7.60E-03	5.44E+02	2.87E-01	7.60E-03	4.51E+02
		60"	1.90E-03	-	-	-	-	-	-	2.56E-01	7.70E-03	6.99E+02	2.54E-01	7.70E-03	6.07E+02	2.54E-01	7.70E-03	5.20E+02	2.66E-01	7.70E-03	6.91E+02	2.96E-01	7.70E-03	5.44E+02	2.54E-01	7.70E-03	4.51E+02
		72"	1.90E-03	-	-	-	-	-	-	3.00E-01	7.52E-03	6.99E+02	2.98E-01	7.52E-03	6.07E+02	2.55E-01	7.52E-03	5.20E+02	2.45E-01	7.52E-03	6.91E+02	3.00E-01	7.52E-03	5.44E+02	2.98E-01	7.52E-03	4.51E+02

TABLE 58: EMBODIED CO2E & NET CO2E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg CO2e / Meter^2)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
		Transportation to Costomer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
North America	ASHRAE Climate Zone 1,2	36"	1.91E-03	3.43E-01	7.70E-03	7.41E+02	3.40E-01	7.70E-03	6.50E+02	3.47E-01	7.70E-03	1.41E+03	3.43E-01	7.70E-03	1.10E+03	3.40E-01	7.70E-03	9.35E+02	3.40E-01	7.70E-03	6.51E+02	3.37E-01	7.70E-03	4.65E+02
		48"	1.96E-03	2.87E-01	7.60E-03	7.41E+02	2.85E-01	7.60E-03	6.50E+02	2.90E-01	7.60E-03	1.41E+03	2.87E-01	7.60E-03	1.10E+03	2.85E-01	7.60E-03	9.36E+02	2.85E-01	7.60E-03	6.52E+02	2.82E-01	7.60E-03	4.66E+02
		60"	1.95E-03	2.54E-01	7.70E-03	7.42E+02	2.52E-01	7.70E-03	6.51E+02	2.56E-01	7.70E-03	1.41E+03	2.54E-01	7.70E-03	1.10E+03	2.52E-01	7.70E-03	9.36E+02	2.52E-01	7.70E-03	6.52E+02	2.48E-01	7.70E-03	4.66E+02
		72"	1.96E-03	2.98E-01	7.52E-03	7.41E+02	2.55E-01	7.52E-03	6.51E+02	3.00E-01	7.52E-03	1.41E+03	2.57E-01	7.52E-03	1.10E+03	2.55E-01	7.52E-03	9.36E+02	2.53E-01	7.52E-03	6.52E+02	2.53E-01	7.52E-03	4.66E+02
	ASHRAE Climate Zone 3	36"	1.91E-03	3.43E-01	7.70E-03	7.13E+02	3.40E-01	7.70E-03	6.27E+02	3.47E-01	7.70E-03	1.32E+03	3.43E-01	7.70E-03	1.04E+03	3.40E-01	7.70E-03	8.89E+02	3.40E-01	7.70E-03	6.00E+02	3.37E-01	7.70E-03	4.44E+02
		48"	1.96E-03	2.87E-01	7.60E-03	7.14E+02	2.85E-01	7.60E-03	6.27E+02	2.90E-01	7.60E-03	1.32E+03	2.87E-01	7.60E-03	1.04E+03	2.85E-01	7.60E-03	8.89E+02	2.85E-01	7.60E-03	6.01E+02	2.82E-01	7.60E-03	4.45E+02
		60"	1.95E-03	2.54E-01	7.70E-03	7.14E+02	2.52E-01	7.70E-03	6.28E+02	2.56E-01	7.70E-03	1.32E+03	2.54E-01	7.70E-03	1.04E+03	2.52E-01	7.70E-03	8.90E+02	2.52E-01	7.70E-03	6.01E+02	2.48E-01	7.70E-03	4.45E+02
		72"	1.96E-03	2.98E-01	7.52E-03	7.14E+02	2.55E-01	7.52E-03	6.28E+02	3.00E-01	7.52E-03	1.32E+03	2.57E-01	7.52E-03	1.04E+03	2.55E-01	7.52E-03	8.90E+02	2.53E-01	7.52E-03	6.01E+02	2.53E-01	7.52E-03	4.45E+02
	ASHRAE Climate Zone 4	36"	1.91E-03	3.43E-01	7.70E-03	4.00E+02	3.40E-01	7.70E-03	3.51E+02	3.47E-01	7.70E-03	7.15E+02	3.43E-01	7.70E-03	5.82E+02	3.40E-01	7.70E-03	5.01E+02	3.40E-01	7.70E-03	3.55E+02	3.37E-01	7.70E-03	2.60E+02
		48"	1.96E-03	2.87E-01	7.60E-03	4.00E+02	2.85E-01	7.60E-03	3.52E+02	2.90E-01	7.60E-03	7.16E+02	2.87E-01	7.60E-03	5.82E+02	2.85E-01	7.60E-03	5.02E+02	2.85E-01	7.60E-03	3.55E+02	2.82E-01	7.60E-03	2.61E+02
		60"	1.95E-03	2.54E-01	7.70E-03	4.01E+02	2.52E-01	7.70E-03	3.52E+02	2.56E-01	7.70E-03	7.16E+02	2.54E-01	7.70E-03	5.83E+02	2.52E-01	7.70E-03	5.03E+02	2.52E-01	7.70E-03	3.56E+02	2.48E-01	7.70E-03	2.61E+02
		72"	1.96E-03	2.98E-01	7.52E-03	4.00E+02	2.55E-01	7.52E-03	3.52E+02	3.00E-01	7.52E-03	7.16E+02	2.57E-01	7.52E-03	5.83E+02	2.55E-01	7.52E-03	5.02E+02	2.53E-01	7.52E-03	3.56E+02	2.53E-01	7.52E-03	2.61E+02
	ASHRAE Climate Zone 5	36"	1.91E-03	3.43E-01	7.70E-03	3.33E+02	3.40E-01	7.70E-03	3.06E+02	3.47E-01	7.70E-03	5.77E+02	3.43E-01	7.70E-03	4.90E+02	3.40E-01	7.70E-03	4.37E+02	3.40E-01	7.70E-03	3.39E+02	3.37E-01	7.70E-03	3.39E+02
		48"	1.96E-03	2.87E-01	7.60E-03	3.34E+02	2.85E-01	7.60E-03	3.06E+02	2.90E-01	7.60E-03	5.78E+02	2.87E-01	7.60E-03	4.90E+02	2.85E-01	7.60E-03	4.38E+02	2.85E-01	7.60E-03	3.40E+02	2.82E-01	7.60E-03	3.40E+02
		60"	1.95E-03	2.54E-01	7.70E-03	3.34E+02	2.52E-01	7.70E-03	3.07E+02	2.56E-01	7.70E-03	5.79E+02	2.54E-01	7.70E-03	4.91E+02	2.52E-01	7.70E-03	4.38E+02	2.52E-01	7.70E-03	3.40E+02	2.48E-01	7.70E-03	3.40E+02
		72"	1.96E-03	2.98E-01	7.52E-03	3.33E+02	2.55E-01	7.52E-03	3.07E+02	3.00E-01	7.52E-03	5.79E+02	2.57E-01	7.52E-03	4.91E+02	2.55E-01	7.52E-03	4.38E+02	2.53E-01	7.52E-03	3.40E+02	2.53E-01	7.52E-03	3.40E+02
	ASHRAE Climate Zone 6,7	36"	1.91E-03	3.43E-01	7.70E-03	3.07E+02	3.40E-01	7.70E-03	2.82E+02	3.47E-01	7.70E-03	5.44E+02	3.43E-01	7.70E-03	4.59E+02	3.40E-01	7.70E-03	4.07E+02	3.40E-01	7.70E-03	3.16E+02	3.37E-01	7.70E-03	2.54E+02
		48"	1.96E-03	2.87E-01	7.60E-03	3.07E+02	2.85E-01	7.60E-03	2.83E+02	2.90E-01	7.60E-03	5.45E+02	2.87E-01	7.60E-03	4.59E+02	2.85E-01	7.60E-03	4.08E+02	2.85E-01	7.60E-03	3.17E+02	2.82E-01	7.60E-03	2.55E+02
		60"	1.95E-03	2.54E-01	7.70E-03	3.08E+02	2.52E-01	7.70E-03	2.83E+02	2.56E-01	7.70E-03	5.45E+02	2.54E-01	7.70E-03	4.60E+02	2.52E-01	7.70E-03	4.08E+02	2.52E-01	7.70E-03	3.17E+02	2.48E-01	7.70E-03	2.55E+02
		72"	1.96E-03	2.98E-01	7.52E-03	3.07E+02	2.55E-01	7.52E-03	2.83E+02	3.00E-01	7.52E-03	5.45E+02	2.57E-01	7.52E-03	4.60E+02	2.55E-01	7.52E-03	4.08E+02	2.53E-01	7.52E-03	3.17E+02	2.53E-01	7.52E-03	2.55E+02
	Canada	36"	6.50E-03	3.43E-01	7.70E-03	-2.73E+01	3.40E-01	7.70E-03	-2.62E+01	3.47E-01	7.70E-03	-7.34E+01	3.43E-01	7.70E-03	-4.49E+01	3.40E-01	7.70E-03	-3.34E+01	3.40E-01	7.70E-03	-2.50E+01	3.37E-01	7.70E-03	-1.41E+01
		48"	6.66E-03	2.87E-01	7.60E-03	-2.66E+01	2.85E-01	7.60E-03	-2.56E+01	2.90E-01	7.60E-03	-7.28E+01	2.87E-01	7.60E-03	-4.43E+01	2.85E-01	7.60E-03	-3.27E+01	2.85E-01	7.60E-03	-2.44E+01	2.82E-01	7.60E-03	-1.35E+01
		60"	6.57E-03	2.54E-01	7.70E-03	-2.62E+01	2.52E-01	7.70E-03	-2.53E+01	2.56E-01	7.70E-03	-7.24E+01	2.54E-01	7.70E-03	-4.39E+01	2.52E-01	7.70E-03	-3.24E+01	2.52E-01	7.70E-03	-2.40E+01	2.48E-01	7.70E-03	-1.31E+01
		72"	1.87E-03	2.98E-01	7.52E-03	-2.67E+01	2.55E-01	7.52E-03	-2.53E+01	3.00E-01	7.52E-03	-7.24E+01	2.57E-01	7.52E-03	-4.39E+01	2.55E-01	7.52E-03	-3.24E+01	2.53E-01	7.52E-03	-2.41E+01	2.53E-01	7.52E-03	-1.31E+01
	Mexico	36"	1.84E-03	3.43E-01	7.70E-03	3.73E+02	3.40E-01	7.70E-03	3.27E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.90E-03	2.87E-01	7.60E-03	3.74E+02	2.85E-01	7.60E-03	3.28E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.85E-03	2.54E-01	7.70E-03	3.74E+02	2.52E-01	7.70E-03	3.28E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.85E-03	2.98E-01	7.52E-03	3.74E+02	2.55E-01	7.52E-03	3.28E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 59: EMBODIED CO2E & NET CO2E SAVINGS IN EUROPE

15 Year Lifecycle (kg CO2e / Meter ²)		All Films		Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10					
		Transportation to Customer		Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved			
		36"	48"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"
Europe	France	36"	8.84E-02	-	-	-	-	-	-	3.47E-01	7.70E-03	4.26E+01	-	-	-	-	-	-	3.97E-01	7.70E-03	3.77E+01	-	-	-	-	-	-	-	-	-
		48"	8.71E-02	-	-	-	-	-	-	2.90E-01	7.60E-03	4.36E+01	-	-	-	-	-	-	-	3.02E-01	7.60E-03	3.88E+01	7.10E-01	7.60E-03	2.04E+01	-	-	-	-	-
		60"	8.89E-02	-	-	-	-	-	-	2.56E-01	7.66E-03	4.36E+01	-	-	-	-	-	-	-	2.66E-01	7.66E-03	3.92E+01	5.92E-01	7.66E-03	2.17E+01	-	-	-	-	-
	Northern Europe	72"	8.76E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	9.00E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.04E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scandinavia	72"	8.87E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	8.70E-02	3.97E-01	9.20E-03	4.06E+01	3.47E-01	7.70E-03	3.68E+01	3.47E-01	7.70E-03	3.83E+01	3.97E-01	7.70E-03	4.67E+01	3.47E-01	7.70E-03	3.98E+01	3.97E-01	7.70E-03	2.18E+01	-	-	-	-	-	-	3.97E-01	7.70E-03	1.80E+01
		48"	8.51E-02	3.27E-01	8.83E-03	4.14E+01	2.90E-01	7.60E-03	3.75E+01	2.90E-01	7.60E-03	3.93E+01	3.02E-01	7.60E-03	4.77E+01	2.90E-01	7.60E-03	4.05E+01	3.02E-01	7.60E-03	2.29E+01	7.10E-01	7.60E-03	3.53E+01	3.02E-01	7.60E-03	3.02E-01	7.60E-03	1.91E+01	
		60"	8.74E-02	2.86E-01	9.04E-03	4.19E+01	2.56E-01	7.66E-03	3.78E+01	2.56E-01	7.66E-03	3.93E+01	2.66E-01	7.66E-03	4.81E+01	2.56E-01	7.66E-03	4.09E+01	2.66E-01	7.66E-03	2.33E+01	5.92E-01	7.66E-03	3.66E+01	2.66E-01	7.66E-03	2.66E-01	7.66E-03	1.95E+01	
	Southern Europe	72"	8.58E-02	2.72E-01	8.97E-03	4.25E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	1.97E+01
		36"	9.00E-02	-	-	-	-	-	-	3.47E-01	7.70E-03	5.54E+02	-	-	-	-	-	-	-	3.97E-01	7.70E-03	5.84E+02	-	-	-	-	-	-	-	-
		48"	8.80E-02	-	-	-	-	-	-	2.90E-01	7.60E-03	5.55E+02	-	-	-	-	-	-	-	3.02E-01	7.60E-03	5.85E+02	7.10E-01	7.60E-03	4.23E+02	-	-	-	-	-
		60"	9.04E-02	-	-	-	-	-	-	2.56E-01	7.66E-03	5.55E+02	-	-	-	-	-	-	-	2.66E-01	7.66E-03	5.85E+02	5.92E-01	7.66E-03	4.24E+02	-	-	-	-	-
	United Kingdom	72"	8.90E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	8.52E-02	-	-	-	-	-	-	3.47E-01	7.70E-03	2.83E+02	-	-	-	-	-	-	-	3.97E-01	7.70E-03	2.91E+02	-	-	-	-	-	-	-	-
		48"	8.35E-02	-	-	-	-	-	-	2.90E-01	7.60E-03	2.84E+02	-	-	-	-	-	-	-	3.02E-01	7.60E-03	2.92E+02	7.10E-01	7.60E-03	2.48E+02	-	-	-	-	-
		60"	8.55E-02	-	-	-	-	-	-	2.56E-01	7.66E-03	2.84E+02	-	-	-	-	-	-	-	2.66E-01	7.66E-03	2.93E+02	5.92E-01	7.66E-03	2.49E+02	-	-	-	-	-

TABLE 60: EMBODIED CO2E & NET CO2E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films			Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30										
		Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved										
Europe	France	36"	8.84E-02	4.03E-01	7.70E-03	3.79E+01	-	-	-	-	-	-	-	-	-	-	-	3.60E-01	7.70E-03	7.72E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	8.71E-02	3.40E-01	7.60E-03	3.87E+01	-	-	-	-	-	-	-	-	-	-	-	-	3.00E-01	7.60E-03	7.79E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	8.89E-02	2.88E-01	7.70E-03	3.92E+01	-	-	-	-	-	-	-	-	-	-	-	-	2.64E-01	7.66E-03	7.82E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	72"	8.76E-02	2.73E-01	7.52E-03	3.98E+01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Northern Europe	36"	9.00E-02	-	-	-	3.47E-01	7.70E-03	5.34E+02	3.43E-01	7.70E-03	4.30E+02	-	-	-	3.60E-01	7.70E-03	5.19E+02	4.13E-01	9.20E-03	5.21E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.80E-02	-	-	-	2.90E-01	7.60E-03	5.35E+02	2.87E-01	7.60E-03	4.31E+02	-	-	-	3.00E-01	7.60E-03	5.20E+02	3.49E-01	8.83E-03	5.22E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	9.04E-02	-	-	-	2.56E-01	7.66E-03	5.35E+02	2.54E-01	7.66E-03	4.31E+02	-	-	-	2.64E-01	7.66E-03	5.20E+02	2.96E-01	9.04E-03	5.22E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	72"	8.87E-02	-	-	-	3.00E-01	7.52E-03	5.35E+02	2.98E-01	7.52E-03	4.30E+02	-	-	-	-	-	-	2.80E-01	8.97E-03	5.22E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scandinavia	36"	8.70E-02	4.03E-01	7.70E-03	2.75E+01	3.47E-01	7.70E-03	4.24E+01	3.43E-01	7.70E-03	4.56E+01	3.40E-01	7.70E-03	3.84E+01	3.60E-01	7.70E-03	1.32E+02	4.13E-01	9.20E-03	6.33E+01	4.03E-01	9.20E-03	5.98E+01	3.97E-01	9.20E-03	5.62E+01	-	-	-	-	-	-	-	-	
		48"	8.51E-02	3.40E-01	7.60E-03	2.83E+01	2.90E-01	7.60E-03	4.34E+01	2.87E-01	7.60E-03	4.63E+01	2.85E-01	7.60E-03	3.91E+01	3.00E-01	7.60E-03	1.33E+02	3.49E-01	8.83E-03	6.42E+01	3.32E-01	8.83E-03	6.06E+01	3.27E-01	8.83E-03	5.70E+01	-	-	-	-	-	-	-	-	
		60"	8.74E-02	2.88E-01	7.70E-03	2.88E+01	2.56E-01	7.66E-03	4.34E+01	2.54E-01	7.66E-03	4.66E+01	2.52E-01	7.66E-03	3.94E+01	2.64E-01	7.66E-03	1.33E+02	2.96E-01	9.04E-03	6.46E+01	2.88E-01	9.04E-03	6.11E+01	2.86E-01	9.04E-03	5.74E+01	-	-	-	-	-	-	-	-	
	72"	8.58E-02	2.73E-01	7.52E-03	2.94E+01	3.00E-01	7.52E-03	4.34E+01	2.98E-01	7.52E-03	4.62E+01	2.55E-01	7.52E-03	3.94E+01	-	-	-	2.80E-01	8.97E-03	6.48E+01	2.73E-01	8.97E-03	6.13E+01	2.72E-01	8.97E-03	5.76E+01	-	-	-	-	-	-	-	-		
	Southern Europe	36"	9.00E-02	-	-	-	3.47E-01	7.70E-03	6.21E+02	3.43E-01	7.70E-03	5.38E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	8.80E-02	-	-	-	2.90E-01	7.60E-03	6.22E+02	2.87E-01	7.60E-03	5.38E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	9.04E-02	-	-	-	2.56E-01	7.66E-03	6.22E+02	2.54E-01	7.66E-03	5.39E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	72"	8.90E-02	-	-	-	3.00E-01	7.52E-03	6.22E+02	2.98E-01	7.52E-03	5.38E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	United Kingdom	36"	8.52E-02	-	-	-	3.47E-01	7.70E-03	3.65E+02	3.43E-01	7.70E-03	2.99E+02	3.40E-01	7.70E-03	2.26E+02	3.60E-01	7.70E-03	3.62E+02	4.13E-01	9.20E-03	3.55E+02	-	-	-	-	-	3.97E-01	9.20E-03	2.76E+02	-	-	-	-	-		
		48"	8.35E-02	-	-	-	2.90E-01	7.60E-03	3.66E+02	2.87E-01	7.60E-03	3.00E+02	2.85E-01	7.60E-03	2.26E+02	3.00E-01	7.60E-03	3.62E+02	3.49E-01	8.83E-03	3.56E+02	-	-	-	-	-	3.27E-01	8.83E-03	2.77E+02	-	-	-	-	-		
		60"	8.55E-02	-	-	-	2.56E-01	7.66E-03	3.66E+02	2.54E-01	7.66E-03	3.00E+02	2.52E-01	7.66E-03	2.27E+02	2.64E-01	7.66E-03	3.63E+02	2.96E-01	9.04E-03	3.57E+02	-	-	-	-	-	2.86E-01	9.04E-03	2.77E+02	-	-	-	-	-		
		72"	8.42E-02	-	-	-	3.00E-01	7.52E-03	3.66E+02	2.98E-01	7.52E-03	3.00E+02	2.55E-01	7.52E-03	2.27E+02	-	-	-	2.80E-01	8.97E-03	3.57E+02	-	-	-	-	-	2.72E-01	8.97E-03	2.77E+02	-	-	-	-	-		

TABLE 61: EMBODIED CO2E & NET CO2E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
Europe	France	36"	8.84E-02	-	-	-	-	-	3.47E-01	7.70E-03	4.73E+01	3.43E-01	7.70E-03	4.81E+01	-	-	-	3.97E-01	7.70E-03	4.02E+01	3.47E-01	7.70E-03	3.71E+01	3.43E-01	7.70E-03	3.23E+01	
		48"	8.71E-02	-	-	-	-	-	2.90E-01	7.60E-03	4.84E+01	2.87E-01	7.60E-03	4.87E+01	-	-	-	3.02E-01	7.60E-03	4.13E+01	2.90E-01	7.60E-03	3.78E+01	2.87E-01	7.60E-03	3.29E+01	
		60"	8.89E-02	-	-	-	-	-	2.56E-01	7.70E-03	4.84E+01	2.54E-01	7.70E-03	4.91E+01	-	-	-	2.66E-01	7.70E-03	4.17E+01	2.96E-01	7.70E-03	3.81E+01	2.54E-01	7.70E-03	3.33E+01	
		72"	8.76E-02	-	-	-	-	-	3.00E-01	7.52E-03	4.83E+01	2.98E-01	7.52E-03	4.86E+01	-	-	-	2.45E-01	7.52E-03	4.20E+01	3.00E-01	7.52E-03	3.77E+01	2.98E-01	7.52E-03	3.28E+01	
	Northern Europe	36"	9.00E-02	3.93E-01	9.20E-03	3.29E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47E-01	7.70E-03	3.75E+02	3.43E-01	7.70E-03	3.19E+02	
		48"	8.80E-02	3.22E-01	8.83E-03	3.30E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90E-01	7.60E-03	3.76E+02	2.87E-01	7.60E-03	3.19E+02	
		60"	9.04E-02	2.82E-01	9.04E-03	3.30E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.96E-01	7.70E-03	3.76E+02	2.54E-01	7.70E-03	3.19E+02	
		72"	8.87E-02	2.68E-01	8.97E-03	3.30E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00E-01	7.52E-03	3.76E+02	2.98E-01	7.52E-03	3.17E+02	
	Scandinavia	36"	8.70E-02	3.93E-01	9.20E-03	5.08E+01	3.40E-01	7.70E-03	5.59E+01	3.47E-01	7.70E-03	4.51E+01	3.43E-01	7.70E-03	5.21E+01	3.40E-01	7.70E-03	6.09E+01	3.97E-01	7.70E-03	6.67E+01	3.47E-01	7.70E-03	5.51E+01	3.43E-01	7.70E-03	4.72E+01
		48"	8.51E-02	3.22E-01	8.83E-03	5.16E+01	2.85E-01	7.60E-03	5.65E+01	2.90E-01	7.60E-03	4.61E+01	2.87E-01	7.60E-03	5.27E+01	2.85E-01	7.60E-03	6.16E+01	3.02E-01	7.60E-03	6.78E+01	2.90E-01	7.60E-03	5.58E+01	2.87E-01	7.60E-03	4.79E+01
		60"	8.74E-02	2.82E-01	9.04E-03	5.20E+01	2.52E-01	7.66E-03	5.68E+01	2.56E-01	7.70E-03	4.61E+01	2.54E-01	7.70E-03	5.31E+01	2.54E-01	7.70E-03	6.19E+01	2.66E-01	7.70E-03	6.82E+01	2.96E-01	7.70E-03	5.61E+01	2.54E-01	7.70E-03	4.82E+01
		72"	8.58E-02	2.68E-01	8.97E-03	5.22E+01	2.55E-01	7.52E-03	5.68E+01	3.00E-01	7.52E-03	4.61E+01	2.98E-01	7.52E-03	5.26E+01	2.55E-01	7.52E-03	6.19E+01	2.45E-01	7.52E-03	6.84E+01	3.00E-01	7.52E-03	5.56E+01	2.98E-01	7.52E-03	4.78E+01
	Southern Europe	36"	9.00E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	6.52E+02	3.47E-01	7.70E-03	5.19E+02	3.43E-01	7.70E-03	4.84E+02
		48"	8.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	6.53E+02	2.90E-01	7.60E-03	5.19E+02	2.87E-01	7.60E-03	4.85E+02
		60"	9.04E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	6.53E+02	2.96E-01	7.70E-03	5.20E+02	2.54E-01	7.70E-03	4.85E+02
		72"	8.90E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	6.53E+02	3.00E-01	7.52E-03	5.19E+02	2.98E-01	7.52E-03	4.84E+02
	United Kingdom	36"	8.52E-02	3.93E-01	9.20E-03	2.30E+02	-	-	-	3.47E-01	7.70E-03	3.62E+02	3.43E-01	7.70E-03	3.25E+02	3.40E-01	7.70E-03	2.89E+02	3.97E-01	7.70E-03	3.19E+02	3.47E-01	7.70E-03	2.63E+02	3.43E-01	7.70E-03	2.24E+02
		48"	8.35E-02	3.22E-01	8.83E-03	2.31E+02	-	-	-	2.90E-01	7.60E-03	3.63E+02	2.87E-01	7.60E-03	3.26E+02	2.85E-01	7.60E-03	2.89E+02	3.02E-01	7.60E-03	3.20E+02	2.90E-01	7.60E-03	2.64E+02	2.87E-01	7.60E-03	2.25E+02
		60"	8.55E-02	2.82E-01	9.04E-03	2.31E+02	-	-	-	2.56E-01	7.70E-03	3.63E+02	2.54E-01	7.70E-03	3.26E+02	2.54E-01	7.70E-03	2.90E+02	2.66E-01	7.70E-03	3.20E+02	2.96E-01	7.70E-03	2.64E+02	2.54E-01	7.70E-03	2.25E+02
		72"	8.42E-02	2.68E-01	8.97E-03	2.31E+02	-	-	-	3.00E-01	7.52E-03	3.63E+02	2.98E-01	7.52E-03	3.26E+02	2.55E-01	7.52E-03	2.90E+02	2.45E-01	7.52E-03	3.21E+02	3.00E-01	7.52E-03	2.64E+02	2.98E-01	7.52E-03	2.25E+02

TABLE 62: EMBODIED CO2E & NET CO2E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
		Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
Europe	France	36"	8.84E-02	3.43E-01	7.70E-03	2.59E+01	3.40E-01	7.70E-03	2.23E+01	3.47E-01	7.70E-03	-5.60E+01	3.43E-01	7.70E-03	4.57E+01	3.40E-01	7.70E-03	4.18E+01	3.40E-01	7.70E-03	2.72E+01	3.37E-01	7.70E-03	2.24E+01
		48"	8.71E-02	2.87E-01	7.60E-03	2.66E+01	2.85E-01	7.60E-03	2.29E+01	2.90E-01	7.60E-03	-5.54E+01	2.87E-01	7.60E-03	4.63E+01	2.85E-01	7.60E-03	4.25E+01	2.85E-01	7.60E-03	2.78E+01	2.82E-01	7.60E-03	2.30E+01
		60"	8.89E-02	2.54E-01	7.70E-03	2.69E+01	2.52E-01	7.70E-03	2.33E+01	2.56E-01	7.70E-03	-5.50E+01	2.54E-01	7.70E-03	4.67E+01	2.52E-01	7.70E-03	4.28E+01	2.52E-01	7.70E-03	2.82E+01	2.48E-01	7.70E-03	2.34E+01
	72"	8.76E-02	2.98E-01	7.52E-03	2.64E+01	2.55E-01	7.52E-03	2.33E+01	3.00E-01	7.52E-03	-5.50E+01	2.57E-01	7.52E-03	4.67E+01	2.55E-01	7.52E-03	4.28E+01	2.53E-01	7.52E-03	2.81E+01	2.53E-01	7.52E-03	2.34E+01	
	Northern Europe	36"	9.00E-02	-	-	-	-	-	-	3.47E-01	7.70E-03	5.07E+02	3.43E-01	7.70E-03	4.18E+02	-	-	-	3.40E-01	7.70E-03	2.81E+02	3.37E-01	7.70E-03	2.23E+02
		48"	8.80E-02	-	-	-	-	-	-	2.90E-01	7.60E-03	5.08E+02	2.87E-01	7.60E-03	4.19E+02	-	-	-	2.85E-01	7.60E-03	2.82E+02	2.82E-01	7.60E-03	2.24E+02
		60"	9.04E-02	-	-	-	-	-	-	2.56E-01	7.70E-03	5.08E+02	2.54E-01	7.70E-03	4.19E+02	-	-	-	2.52E-01	7.70E-03	2.82E+02	2.48E-01	7.70E-03	2.24E+02
		72"	8.87E-02	-	-	-	-	-	-	3.00E-01	7.52E-03	5.08E+02	2.57E-01	7.52E-03	4.19E+02	-	-	-	2.53E-01	7.52E-03	2.82E+02	2.53E-01	7.52E-03	2.24E+02
	Scandinavia	36"	8.70E-02	3.43E-01	7.70E-03	4.36E+01	3.40E-01	7.70E-03	3.60E+01	3.47E-01	7.70E-03	7.81E+01	3.43E-01	7.70E-03	7.20E+01	3.40E-01	7.70E-03	6.56E+01	3.40E-01	7.70E-03	4.69E+01	3.37E-01	7.70E-03	4.20E+01
		48"	8.51E-02	2.87E-01	7.60E-03	4.43E+01	2.85E-01	7.60E-03	3.67E+01	2.90E-01	7.60E-03	7.88E+01	2.87E-01	7.60E-03	7.26E+01	2.85E-01	7.60E-03	6.63E+01	2.85E-01	7.60E-03	4.75E+01	2.82E-01	7.60E-03	4.27E+01
		60"	8.74E-02	2.54E-01	7.70E-03	4.47E+01	2.52E-01	7.70E-03	3.70E+01	2.56E-01	7.70E-03	7.91E+01	2.54E-01	7.70E-03	7.30E+01	2.52E-01	7.70E-03	6.66E+01	2.52E-01	7.70E-03	4.79E+01	2.48E-01	7.70E-03	4.30E+01
		72"	8.58E-02	2.98E-01	7.52E-03	4.42E+01	2.55E-01	7.52E-03	3.70E+01	3.00E-01	7.52E-03	7.91E+01	2.57E-01	7.52E-03	7.30E+01	2.55E-01	7.52E-03	6.66E+01	2.53E-01	7.52E-03	4.79E+01	2.53E-01	7.52E-03	4.30E+01
	Southern Europe	36"	9.00E-02	3.43E-01	7.70E-03	3.49E+02	3.40E-01	7.70E-03	3.04E+02	3.47E-01	7.70E-03	6.40E+02	-	-	-	3.40E-01	7.70E-03	4.76E+02	3.40E-01	7.70E-03	3.65E+02	3.37E-01	7.70E-03	1.82E+02
		48"	8.80E-02	2.87E-01	7.60E-03	3.50E+02	2.85E-01	7.60E-03	3.05E+02	2.90E-01	7.60E-03	6.40E+02	-	-	-	2.85E-01	7.60E-03	4.77E+02	2.85E-01	7.60E-03	3.66E+02	2.82E-01	7.60E-03	1.83E+02
		60"	9.04E-02	2.54E-01	7.70E-03	3.50E+02	2.52E-01	7.70E-03	3.05E+02	2.56E-01	7.70E-03	6.41E+02	-	-	-	2.52E-01	7.70E-03	4.77E+02	2.52E-01	7.70E-03	3.66E+02	2.48E-01	7.70E-03	1.83E+02
		72"	8.90E-02	2.98E-01	7.52E-03	3.50E+02	2.55E-01	7.52E-03	3.05E+02	3.00E-01	7.52E-03	6.41E+02	-	-	-	2.55E-01	7.52E-03	4.77E+02	2.53E-01	7.52E-03	3.66E+02	2.53E-01	7.52E-03	1.83E+02
	United Kingdom	36"	8.52E-02	3.43E-01	7.70E-03	1.93E+02	3.40E-01	7.70E-03	1.76E+02	3.47E-01	7.70E-03	3.48E+02	3.43E-01	7.70E-03	2.90E+02	3.40E-01	7.70E-03	2.57E+02	3.40E-01	7.70E-03	1.98E+02	3.37E-01	7.70E-03	1.58E+02
		48"	8.35E-02	2.87E-01	7.60E-03	1.94E+02	2.85E-01	7.60E-03	1.77E+02	2.90E-01	7.60E-03	3.49E+02	2.87E-01	7.60E-03	2.91E+02	2.85E-01	7.60E-03	2.57E+02	2.85E-01	7.60E-03	1.99E+02	2.82E-01	7.60E-03	1.59E+02
		60"	8.55E-02	2.54E-01	7.70E-03	1.94E+02	2.52E-01	7.70E-03	1.77E+02	2.56E-01	7.70E-03	3.49E+02	2.54E-01	7.70E-03	2.92E+02	2.52E-01	7.70E-03	2.58E+02	2.52E-01	7.70E-03	1.99E+02	2.48E-01	7.70E-03	1.59E+02
		72"	8.42E-02	2.98E-01	7.52E-03	1.93E+02	2.55E-01	7.52E-03	1.77E+02	3.00E-01	7.52E-03	3.49E+02	2.57E-01	7.52E-03	2.92E+02	2.55E-01	7.52E-03	2.58E+02	2.53E-01	7.52E-03	1.99E+02	2.53E-01	7.52E-03	1.59E+02

TABLE 63: EMBODIED CO2E & NET CO2E SAVINGS IN ASIA

15 Year Lifecycle (kg CO2e / Meter^2)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10				
			Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
Asia	North-East China	36"	9.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	9.60E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	9.86E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	9.17E+02	-	-	-	
		72"	9.68E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	South-East China	36"	9.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	9.60E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	9.86E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	1.01E+03	-	-	-	
		72"	9.68E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	1.01E+03	-	-	-	
	India	36"	1.25E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.22E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.25E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	9.97E+02	-	-	-	
		72"	1.23E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	9.98E+02	-	-	-	
	Japan	36"	8.57E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	8.40E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	8.62E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	2.73E+02	-	-	-	
		72"	8.47E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	2.74E+02	-	-	-	
	Middle East	36"	1.28E-01	-	-	-	3.47E-01	7.70E-03	1.38E+03	-	-	-	-	-	-	3.47E-01	7.70E-03	1.30E+03	3.97E-01	7.70E-03	1.20E+03	-	-	-	-	-	-	-
		48"	1.26E-01	-	-	-	2.90E-01	7.60E-03	1.38E+03	-	-	-	-	-	2.90E-01	7.60E-03	1.30E+03	3.02E-01	7.60E-03	1.20E+03	7.10E-01	7.60E-03	8.41E+02	-	-	-	-	
		60"	1.29E-01	-	-	-	2.56E-01	7.66E-03	1.38E+03	-	-	-	-	-	2.56E-01	7.66E-03	1.30E+03	2.66E-01	7.66E-03	1.20E+03	5.92E-01	7.66E-03	8.42E+02	-	-	-	-	
		72"	1.27E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Russia	36"	9.47E-02	-	-	-	3.47E-01	7.70E-03	7.63E+01	3.47E-01	7.70E-03	6.09E+01	3.97E-01	7.70E-03	1.30E+02	3.47E-01	7.70E-03	1.24E+02	3.97E-01	7.70E-03	1.37E+02	-	-	-	3.97E-01	7.70E-03	1.15E+02	
		48"	9.28E-02	-	-	-	2.90E-01	7.60E-03	7.70E+01	2.90E-01	7.60E-03	6.20E+01	3.02E-01	7.60E-03	1.31E+02	2.90E-01	7.60E-03	1.24E+02	3.02E-01	7.60E-03	1.38E+02	7.10E-01	7.60E-03	-	3.02E-01	7.60E-03	1.16E+02	
		60"	9.50E-02	-	-	-	2.56E-01	7.66E-03	7.74E+01	2.56E-01	7.66E-03	6.20E+01	2.66E-01	7.66E-03	1.32E+02	2.56E-01	7.66E-03	1.25E+02	2.66E-01	7.66E-03	1.39E+02	5.92E-01	7.66E-03	-	2.66E-01	7.66E-03	1.16E+02	
		72"	9.35E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	1.16E+02	
	China, Mid-East Coast	36"	9.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	9.60E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	9.86E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	7.60E+02	-	-	-	
		72"	9.68E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	7.61E+02	-	-	-	
Turkey	36"	1.09E-01	-	-	-	-	-	-	-	-	-	-	-	-	3.47E-01	7.70E-03	2.67E+02	-	-	-	-	-	-	-	-	-		
	48"	1.07E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.90E-01	7.60E-03	2.67E+02	-	-	-	-	-	-	-	-	-		
	60"	1.09E-01	-	-	-	-	-	-	-	-	-	-	-	-	2.56E-01	7.66E-03	2.68E+02	-	-	-	-	-	-	-	-	-		
	72"	1.07E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	3.70E+02	-	-	-		

TABLE 64: EMBODIED CO2E & NET CO2E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg CO2e / Meter^2)			All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30			
				Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved
Asia	North-East China	36"	9.80E-02	-	-	-	3.47E-01	7.70E-03	1.32E+03	3.43E-01	7.70E-03	1.11E+03	3.40E-01	7.70E-03	8.30E+02	3.60E-01	7.70E-03	1.31E+03	-	-	-	-	-	-	-	-	-	-
		48"	9.60E-02	-	-	-	2.90E-01	7.60E-03	1.32E+03	2.87E-01	7.60E-03	1.11E+03	2.85E-01	7.60E-03	8.31E+02	3.00E-01	7.60E-03	1.31E+03	-	-	-	-	-	-	-	-	-	-
		60"	9.86E-02	-	-	-	2.56E-01	7.66E-03	1.32E+03	2.54E-01	7.66E-03	1.11E+03	2.52E-01	7.66E-03	8.31E+02	2.64E-01	7.66E-03	1.31E+03	-	-	-	-	-	-	-	-	-	-
		72"	9.68E-02	-	-	-	3.00E-01	7.52E-03	1.32E+03	2.98E-01	7.52E-03	1.11E+03	2.55E-01	7.52E-03	8.31E+02	-	-	-	-	-	-	-	-	-	-	-	-	
	South-East China	36"	9.80E-02	-	-	-	3.47E-01	7.70E-03	1.47E+03	3.43E-01	7.70E-03	1.29E+03	3.40E-01	7.70E-03	1.12E+03	3.60E-01	7.70E-03	1.49E+03	-	-	-	-	-	-	-	-	-	-
		48"	9.60E-02	-	-	-	2.90E-01	7.60E-03	1.47E+03	2.87E-01	7.60E-03	1.29E+03	2.85E-01	7.60E-03	1.12E+03	3.00E-01	7.60E-03	1.49E+03	-	-	-	-	-	-	-	-	-	
		60"	9.86E-02	-	-	-	2.56E-01	7.66E-03	1.47E+03	2.54E-01	7.66E-03	1.29E+03	2.52E-01	7.66E-03	1.12E+03	2.64E-01	7.66E-03	1.49E+03	-	-	-	-	-	-	-	-	-	
		72"	9.68E-02	-	-	-	3.00E-01	7.52E-03	1.47E+03	2.98E-01	7.52E-03	1.29E+03	2.55E-01	7.52E-03	1.12E+03	-	-	-	-	-	-	-	-	-	-	-		
	India	36"	1.25E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.22E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.25E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.23E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Japan	36"	8.57E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	8.40E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	8.62E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	8.47E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Middle East	36"	1.28E-01	-	-	-	3.47E-01	7.70E-03	1.29E+03	3.43E-01	7.70E-03	1.09E+03	3.40E-01	7.70E-03	7.70E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.26E-01	-	-	-	2.90E-01	7.60E-03	1.29E+03	2.87E-01	7.60E-03	1.10E+03	2.85E-01	7.60E-03	7.71E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.29E-01	-	-	-	2.56E-01	7.66E-03	1.29E+03	2.54E-01	7.66E-03	1.10E+03	2.52E-01	7.66E-03	7.71E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.27E-01	-	-	-	3.00E-01	7.52E-03	1.29E+03	2.98E-01	7.52E-03	1.09E+03	2.55E-01	7.52E-03	7.71E+02	-	-	-	-	-	-	-	-	-	-	-	-	
	Russia	36"	9.47E-02	-	-	-	3.47E-01	7.70E-03	9.65E+01	3.43E-01	7.70E-03	8.06E+01	3.40E-01	7.70E-03	9.56E+01	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	9.28E-02	-	-	-	2.90E-01	7.60E-03	9.75E+01	2.87E-01	7.60E-03	8.12E+01	2.85E-01	7.60E-03	9.62E+01	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	9.50E-02	-	-	-	2.56E-01	7.66E-03	9.75E+01	2.54E-01	7.66E-03	8.16E+01	2.52E-01	7.66E-03	9.65E+01	-	-	-	-	-	-	-	-	-	-	-		
		72"	9.35E-02	-	-	-	3.00E-01	7.52E-03	9.75E+01	2.98E-01	7.52E-03	8.11E+01	2.55E-01	7.52E-03	9.65E+01	-	-	-	-	-	-	-	-	-	-	-		
	China, Mid-East Coast	36"	9.80E-02	-	-	-	3.47E-01	7.70E-03	1.12E+03	3.43E-01	7.70E-03	9.72E+02	3.40E-01	7.70E-03	7.03E+02	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	9.60E-02	-	-	-	2.90E-01	7.60E-03	1.13E+03	2.87E-01	7.60E-03	9.73E+02	2.85E-01	7.60E-03	7.03E+02	-	-	-	-	-	-	-	-	-	-	-		
		60"	9.86E-02	-	-	-	2.56E-01	7.66E-03	1.13E+03	2.54E-01	7.66E-03	9.73E+02	2.52E-01	7.66E-03	7.04E+02	-	-	-	-	-	-	-	-	-	-	-		
		72"	9.68E-02	-	-	-	3.00E-01	7.52E-03	1.13E+03	2.98E-01	7.52E-03	9.73E+02	2.55E-01	7.52E-03	7.04E+02	-	-	-	-	-	-	-	-	-	-	-		
Turkey	36"	1.09E-01	-	-	-	3.47E-01	7.70E-03	4.66E+02	3.43E-01	7.70E-03	4.30E+02	3.40E-01	7.70E-03	3.55E+02	-	-	-	-	-	-	-	-	-	-	-			
	48"	1.07E-01	-	-	-	2.90E-01	7.60E-03	4.67E+02	2.87E-01	7.60E-03	4.31E+02	2.85E-01	7.60E-03	3.56E+02	-	-	-	-	-	-	-	-	-	-	-			
	60"	1.09E-01	-	-	-	2.56E-01	7.66E-03	4.67E+02	2.54E-01	7.66E-03	4.31E+02	2.52E-01	7.66E-03	3.56E+02	-	-	-	-	-	-	-	-	-	-	-			
	72"	1.07E-01	-	-	-	3.00E-01	7.52E-03	4.67E+02	2.98E-01	7.52E-03	4.31E+02	2.55E-01	7.52E-03	3.56E+02	-	-	-	-	-	-	-	-	-	-	-			

TABLE 65: EMBODIED CO2E & NET CO2E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30							
			Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved				
Asia	North-East China	36"	9.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	1.26E+03	3.47E-01	7.70E-03	1.01E+03	3.43E-01	7.70E-03	8.50E+02		
		48"	9.60E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	1.26E+03	2.90E-01	7.60E-03	1.01E+03	2.87E-01	7.60E-03	8.51E+02	
		60"	9.86E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	1.26E+03	2.96E-01	7.70E-03	1.01E+03	2.54E-01	7.70E-03	8.51E+02	
		72"	9.68E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	1.26E+03	3.00E-01	7.52E-03	1.01E+03	2.98E-01	7.52E-03	8.51E+02	
	South-East China	36"	9.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	1.52E+03	3.47E-01	7.70E-03	1.20E+03	3.43E-01	7.70E-03	1.01E+03	
		48"	9.60E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	1.52E+03	2.90E-01	7.60E-03	1.20E+03	2.87E-01	7.60E-03	1.01E+03	
		60"	9.86E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	1.52E+03	2.96E-01	7.70E-03	1.20E+03	2.54E-01	7.70E-03	1.01E+03	
		72"	9.68E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	1.52E+03	3.00E-01	7.52E-03	1.20E+03	2.98E-01	7.52E-03	1.01E+03	
	India	36"	1.25E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.22E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.25E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.23E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	8.57E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.40E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	8.62E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	8.47E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	1.28E-01	-	-	-	-	-	-	3.47E-01	7.70E-03	1.41E+03	3.43E-01	7.70E-03	1.21E+03	3.40E-01	7.70E-03	1.03E+03	3.97E-01	7.70E-03	1.34E+03	3.47E-01	7.70E-03	1.02E+03	3.43E-01	7.70E-03	1.02E+03	3.43E-01	7.70E-03	8.36E+02	
		48"	1.26E-01	-	-	-	-	-	-	2.90E-01	7.60E-03	1.41E+03	2.87E-01	7.60E-03	1.21E+03	2.85E-01	7.60E-03	1.03E+03	3.02E-01	7.60E-03	1.34E+03	2.90E-01	7.60E-03	1.02E+03	2.87E-01	7.60E-03	1.02E+03	2.87E-01	7.60E-03	8.36E+02	
		60"	1.29E-01	-	-	-	-	-	-	2.56E-01	7.70E-03	1.41E+03	2.54E-01	7.70E-03	1.21E+03	2.54E-01	7.70E-03	1.03E+03	2.66E-01	7.70E-03	1.34E+03	2.96E-01	7.70E-03	1.03E+03	2.54E-01	7.70E-03	1.03E+03	2.54E-01	7.70E-03	8.38E+02	
		72"	1.27E-01	-	-	-	-	-	-	3.00E-01	7.52E-03	1.41E+03	2.98E-01	7.52E-03	1.21E+03	2.55E-01	7.52E-03	1.03E+03	2.45E-01	7.52E-03	1.34E+03	3.00E-01	7.52E-03	1.02E+03	2.98E-01	7.52E-03	1.02E+03	2.98E-01	7.52E-03	8.36E+02	
	Russia	36"	9.47E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	1.45E+02	3.47E-01	7.70E-03	1.14E+02	3.43E-01	7.70E-03	6.09E+01	
		48"	9.28E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	1.46E+02	2.90E-01	7.60E-03	1.14E+02	2.87E-01	7.60E-03	6.16E+01	
		60"	9.50E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	1.46E+02	2.96E-01	7.70E-03	1.15E+02	2.54E-01	7.70E-03	6.19E+01	
		72"	9.35E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	1.47E+02	3.00E-01	7.52E-03	1.14E+02	2.98E-01	7.52E-03	6.15E+01	
	China, Mid-East Coast	36"	9.80E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	1.16E+03	3.47E-01	7.70E-03	9.11E+02	3.43E-01	7.70E-03	7.59E+02	
		48"	9.60E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	1.16E+03	2.90E-01	7.60E-03	9.12E+02	2.87E-01	7.60E-03	7.60E+02	
		60"	9.86E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	1.16E+03	2.96E-01	7.70E-03	9.12E+02	2.54E-01	7.70E-03	7.60E+02	
		72"	9.68E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	1.16E+03	3.00E-01	7.52E-03	9.12E+02	2.98E-01	7.52E-03	7.60E+02	
	Turkey	36"	1.09E-01	-	-	-	-	-	-	3.47E-01	7.70E-03	4.88E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.07E-01	-	-	-	-	-	-	2.90E-01	7.60E-03	4.89E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.09E-01	-	-	-	-	-	-	2.56E-01	7.70E-03	4.89E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.07E-01	-	-	-	-	-	-	3.00E-01	7.52E-03	4.89E+02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 67: EMBODIED CO2E & NET CO2E SAVINGS IN THE SOUTHERN HEMISPHERE

15 Year Lifecycle (kg CO2e / Meter^2)			All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10					
			Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved			
Southern Hemisphere	Southern Africa	36"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
		48"	1.51E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.10E-01	7.60E-03	8.12E+02	-	-	-			
		60"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92E-01	7.66E-03	8.14E+02	-	-	-			
	Argentina	36"	9.20E-02	-	-	-	-	-	-	-	3.47E-01	7.70E-03	3.43E+02	3.97E-01	7.70E-03	3.61E+02	-	-	-	-	-	3.97E-01	7.70E-03	3.57E+02	-	-	-	3.97E-01	7.70E-03	3.68E+02
		48"	9.05E-02	-	-	-	-	-	-	-	2.90E-01	7.60E-03	3.44E+02	3.02E-01	7.60E-03	3.62E+02	-	-	-	-	-	3.02E-01	7.60E-03	3.58E+02	7.10E-01	7.60E-03	2.55E+02	3.02E-01	7.60E-03	3.69E+02
		60"	9.26E-02	-	-	-	-	-	-	-	2.56E-01	7.66E-03	3.44E+02	2.66E-01	7.66E-03	3.62E+02	-	-	-	-	-	2.66E-01	7.66E-03	3.58E+02	5.92E-01	7.66E-03	2.56E+02	2.66E-01	7.66E-03	3.69E+02
	Australia	36"	1.21E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.18E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.21E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Brazil	36"	1.19E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	8.70E-02	-	-	-	-	-	-	-	3.47E-01	7.70E-03	3.43E+02	3.97E-01	7.70E-03	3.61E+02	-	-	-	-	-	3.97E-01	7.70E-03	3.63E+02	-	-	-	3.97E-01	7.70E-03	3.75E+02
		60"	8.53E-02	-	-	-	-	-	-	-	2.90E-01	7.60E-03	3.45E+02	3.02E-01	7.60E-03	3.63E+02	-	-	-	-	-	3.02E-01	7.60E-03	3.64E+02	7.10E-01	7.60E-03	2.60E+02	3.02E-01	7.60E-03	3.76E+02
72"		8.74E-02	-	-	-	-	-	-	-	2.56E-01	7.66E-03	3.44E+02	2.66E-01	7.66E-03	3.63E+02	-	-	-	-	-	2.66E-01	7.66E-03	3.65E+02	5.92E-01	7.66E-03	2.62E+02	2.66E-01	7.66E-03	3.76E+02	
72"	8.58E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	3.76E+02		

TABLE 68: EMBODIED CO2E & NET CO2E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30				
			Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	
Southern Hemisphere	Southern Africa	36"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.51E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.52E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	9.20E-02	4.03E-01	7.70E-03	3.16E+02	-	-	-	-	-	-	-	-	-	-	-	-	4.13E-01	9.20E-03	3.69E+02	4.03E-01	9.20E-03	3.83E+02	-	-	-	
		48"	9.05E-02	3.40E-01	7.60E-03	3.17E+02	-	-	-	-	-	-	-	-	-	-	-	-	3.49E-01	8.83E-03	3.70E+02	3.32E-01	8.83E-03	3.84E+02	-	-	-	
		60"	9.26E-02	2.88E-01	7.70E-03	3.17E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.96E-01	9.04E-03	3.71E+02	2.88E-01	9.04E-03	3.84E+02	-	-	-	
		72"	9.10E-02	2.73E-01	7.52E-03	3.18E+02	-	-	-	-	-	-	-	-	-	-	-	-	2.80E-01	8.97E-03	3.71E+02	2.73E-01	8.97E-03	3.84E+02	-	-	-	
	Australia	36"	1.21E-01	-	-	-	3.47E-01	7.70E-03	6.78E+02	3.43E-01	7.70E-03	5.87E+02	-	-	-	-	-	-	4.13E-01	9.20E-03	7.38E+02	4.03E-01	9.20E-03	6.42E+02	-	-	-	
		48"	1.18E-01	-	-	-	2.90E-01	7.60E-03	6.79E+02	2.87E-01	7.60E-03	5.87E+02	-	-	-	-	-	-	3.49E-01	8.83E-03	7.39E+02	3.32E-01	8.83E-03	6.43E+02	-	-	-	
		60"	1.21E-01	-	-	-	2.56E-01	7.66E-03	6.79E+02	2.54E-01	7.66E-03	5.88E+02	-	-	-	-	-	-	2.96E-01	9.04E-03	7.40E+02	2.88E-01	9.04E-03	6.44E+02	-	-	-	
		72"	1.19E-01	-	-	-	3.00E-01	7.52E-03	6.79E+02	2.98E-01	7.52E-03	5.87E+02	-	-	-	-	-	-	2.80E-01	8.97E-03	7.40E+02	2.73E-01	8.97E-03	6.44E+02	-	-	-	
	Brazil	36"	8.70E-02	-	-	-	3.47E-01	7.70E-03	3.92E+02	-	-	-	-	-	-	-	-	-	4.13E-01	9.20E-03	3.77E+02	-	-	-	-	-	-	
		48"	8.53E-02	-	-	-	2.90E-01	7.60E-03	3.93E+02	-	-	-	-	-	-	-	-	-	3.49E-01	8.83E-03	3.78E+02	-	-	-	-	-	-	
		60"	8.74E-02	-	-	-	2.56E-01	7.66E-03	3.93E+02	-	-	-	-	-	-	-	-	-	2.96E-01	9.04E-03	3.79E+02	-	-	-	-	-	-	
		72"	8.58E-02	-	-	-	2.56E-01	7.52E-03	3.93E+02	-	-	-	-	-	-	-	-	-	2.80E-01	8.97E-03	3.79E+02	-	-	-	-	-	-	

TABLE 69: EMBODIED CO2E & NET CO2E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films			Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30						
		Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved						
Southern Hemisphere	Southern Africa	36"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47E-01	7.70E-03	1.01E+03	-	-	-				
		48"	1.51E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90E-01	7.60E-03	1.01E+03	-	-	-			
		60"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.96E-01	7.70E-03	1.01E+03	-	-	-			
	Argentina	36"	1.52E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00E-01	7.52E-03	1.01E+03	-	-	-			
		48"	9.20E-02	-	-	-	-	-	-	3.47E-01	7.70E-03	3.84E+02	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	3.87E+02	3.47E-01	7.70E-03	3.23E+02	3.43E-01	7.70E-03	2.62E+02
		60"	9.05E-02	-	-	-	-	-	-	2.90E-01	7.60E-03	3.85E+02	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	3.88E+02	2.90E-01	7.60E-03	3.24E+02	2.87E-01	7.60E-03	2.62E+02
	Australia	36"	9.26E-02	-	-	-	-	-	-	2.56E-01	7.70E-03	3.85E+02	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	3.88E+02	2.96E-01	7.70E-03	3.24E+02	2.54E-01	7.70E-03	2.63E+02
		48"	9.10E-02	-	-	-	-	-	-	3.00E-01	7.52E-03	3.85E+02	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	3.88E+02	3.00E-01	7.52E-03	3.24E+02	2.98E-01	7.52E-03	2.62E+02
		60"	1.21E-01	-	-	-	-	-	-	3.47E-01	7.70E-03	7.28E+02	3.43E-01	7.70E-03	6.40E+02	-	-	-	-	-	-	-	-	3.47E-01	7.70E-03	5.56E+02	-	-	-	-	-	
	Brazil	36"	1.18E-01	-	-	-	-	-	-	2.90E-01	7.60E-03	7.29E+02	2.87E-01	7.60E-03	6.40E+02	-	-	-	-	-	-	-	-	2.90E-01	7.60E-03	5.57E+02	-	-	-	-	-	
		48"	1.21E-01	-	-	-	-	-	-	2.56E-01	7.70E-03	7.29E+02	2.54E-01	7.70E-03	6.41E+02	-	-	-	-	-	-	-	-	2.96E-01	7.70E-03	5.57E+02	-	-	-	-	-	
		60"	1.19E-01	-	-	-	-	-	-	3.00E-01	7.52E-03	7.29E+02	2.98E-01	7.52E-03	6.40E+02	-	-	-	-	-	-	-	-	3.00E-01	7.52E-03	5.57E+02	-	-	-	-	-	
Brazil	36"	8.70E-02	-	-	-	-	-	-	3.47E-01	7.70E-03	3.95E+02	-	-	-	-	-	-	-	-	-	-	-	3.97E-01	7.70E-03	3.95E+02	3.47E-01	7.70E-03	3.24E+02	3.43E-01	7.70E-03	2.62E+02	
	48"	8.53E-02	-	-	-	-	-	-	2.90E-01	7.60E-03	3.96E+02	-	-	-	-	-	-	-	-	-	-	-	3.02E-01	7.60E-03	3.96E+02	2.90E-01	7.60E-03	3.24E+02	2.87E-01	7.60E-03	2.63E+02	
	60"	8.74E-02	-	-	-	-	-	-	2.56E-01	7.70E-03	3.96E+02	-	-	-	-	-	-	-	-	-	-	-	2.66E-01	7.70E-03	3.97E+02	2.96E-01	7.70E-03	3.25E+02	2.54E-01	7.70E-03	2.63E+02	
72"	8.58E-02	-	-	-	-	-	-	3.00E-01	7.52E-03	3.96E+02	-	-	-	-	-	-	-	-	-	-	-	2.45E-01	7.52E-03	3.97E+02	3.00E-01	7.52E-03	3.24E+02	2.98E-01	7.52E-03	2.62E+02		

TABLE 70: EMBODIED CO2E & NET CO2E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg CO2e / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70					
		Transportation to Customer	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved	Manufacturing	End-of-Life	Net CO2e Saved			
Southern Hemisphere	Southern Africa	36"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.51E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.54E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.52E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	9.20E-02	-	-	-	-	-	-	-	-	-	-	-	3.40E-01	7.70E-03	2.78E+02	-	-	-	3.37E-01	7.70E-03	1.38E+02	-	-	
		48"	9.05E-02	-	-	-	-	-	-	-	-	-	-	-	2.85E-01	7.60E-03	2.79E+02	-	-	-	2.82E-01	7.60E-03	1.38E+02	-	-	
		60"	9.26E-02	-	-	-	-	-	-	-	-	-	-	-	2.52E-01	7.70E-03	2.79E+02	-	-	-	2.48E-01	7.70E-03	1.39E+02	-	-	
		72"	9.10E-02	-	-	-	-	-	-	-	-	-	-	-	2.55E-01	7.52E-03	2.79E+02	-	-	-	2.53E-01	7.52E-03	1.39E+02	-	-	
	Australia	36"	1.21E-01	3.43E-01	7.70E-03	3.84E+02	3.40E-01	7.70E-03	3.39E+02	3.47E-01	7.70E-03	7.35E+02	3.43E-01	7.70E-03	5.85E+02	3.40E-01	7.70E-03	4.79E+02	3.40E-01	7.70E-03	3.39E+02	3.37E-01	7.70E-03	2.44E+02	-	-
		48"	1.18E-01	2.87E-01	7.60E-03	3.84E+02	2.85E-01	7.60E-03	3.40E+02	2.90E-01	7.60E-03	7.36E+02	2.87E-01	7.60E-03	5.85E+02	2.85E-01	7.60E-03	4.80E+02	2.85E-01	7.60E-03	3.39E+02	2.82E-01	7.60E-03	2.45E+02	-	-
		60"	1.21E-01	2.54E-01	7.70E-03	3.85E+02	2.52E-01	7.70E-03	3.40E+02	2.56E-01	7.70E-03	7.36E+02	2.54E-01	7.70E-03	5.86E+02	2.52E-01	7.70E-03	4.80E+02	2.52E-01	7.70E-03	3.40E+02	2.48E-01	7.70E-03	2.45E+02	-	-
		72"	1.19E-01	2.98E-01	7.52E-03	3.84E+02	2.55E-01	7.52E-03	3.40E+02	3.00E-01	7.52E-03	7.36E+02	2.57E-01	7.52E-03	5.86E+02	2.55E-01	7.52E-03	4.80E+02	2.53E-01	7.52E-03	3.40E+02	2.53E-01	7.52E-03	2.45E+02	-	-
	Brazil	36"	8.70E-02	-	-	-	-	-	-	-	-	-	-	-	3.40E-01	7.70E-03	3.04E+02	-	-	-	3.37E-01	7.70E-03	1.40E+02	-	-	
		48"	8.53E-02	-	-	-	-	-	-	-	-	-	-	-	2.85E-01	7.60E-03	3.04E+02	-	-	-	2.82E-01	7.60E-03	1.41E+02	-	-	
		60"	8.74E-02	-	-	-	-	-	-	-	-	-	-	-	2.52E-01	7.70E-03	3.04E+02	-	-	-	2.48E-01	7.70E-03	1.41E+02	-	-	
		72"	8.58E-02	-	-	-	-	-	-	-	-	-	-	-	2.55E-01	7.52E-03	3.04E+02	-	-	-	2.53E-01	7.52E-03	1.41E+02	-	-	

OZONE LAYER DEPLETION:

Tables 71 to 86 below show the CFC-11e emissions embodied in one m² of film, and the ozone layer depletion reductions in kg of CFC-11e for all the types of window films sold in each of the 24 geographic regions where SGS window films are distributed.

TABLE 71: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN NORTH AMERICA

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			Highlite 70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	
North America	ASHRAE Climate Zone 1,2	36"	2.15E-07	7.00E-06	1.19E-08	1.45E-05	7.00E-06	1.19E-08	2.73E-05	7.00E-06	1.19E-08	2.13E-05	6.00E-06	1.19E-08	2.46E-05	7.00E-06	1.19E-08	2.55E-05	6.00E-06	1.19E-08	2.41E-05	-	-	-	6.00E-06	1.19E-08	2.56E-05
		48"	2.09E-07	7.00E-06	1.25E-08	1.45E-05	7.00E-06	1.25E-08	2.73E-05	7.00E-06	1.25E-08	2.13E-05	6.00E-06	1.25E-08	2.46E-05	7.00E-06	1.25E-08	2.55E-05	6.00E-06	1.25E-08	2.41E-05	1.00E-06	1.25E-08	2.07E-05	6.00E-06	1.25E-08	2.56E-05
		60"	2.13E-07	8.00E-06	1.34E-08	1.35E-05	8.00E-06	1.34E-08	2.63E-05	8.00E-06	1.34E-08	2.03E-05	7.00E-06	1.34E-08	2.36E-05	8.00E-06	1.34E-08	2.45E-05	7.00E-06	1.34E-08	2.31E-05	1.50E-05	1.34E-08	6.65E-06	7.00E-06	1.34E-08	2.46E-05
	72"	2.10E-07	1.00E-05	1.62E-08	1.15E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	2.26E-05	
	ASHRAE Climate Zone 3	36"	2.15E-07	7.00E-06	1.19E-08	1.09E-05	7.00E-06	1.19E-08	1.90E-05	7.00E-06	1.19E-08	1.56E-05	6.00E-06	1.19E-08	1.84E-05	7.00E-06	1.19E-08	1.81E-05	6.00E-06	1.19E-08	1.74E-05	-	-	-	6.00E-06	1.19E-08	1.81E-05
		48"	2.09E-07	7.00E-06	1.25E-08	1.09E-05	7.00E-06	1.25E-08	1.90E-05	7.00E-06	1.25E-08	1.56E-05	6.00E-06	1.25E-08	1.84E-05	7.00E-06	1.25E-08	1.81E-05	6.00E-06	1.25E-08	1.74E-05	1.00E-06	1.25E-08	1.65E-05	6.00E-06	1.25E-08	1.82E-05
		60"	2.13E-07	8.00E-06	1.34E-08	9.91E-06	8.00E-06	1.34E-08	1.80E-05	8.00E-06	1.34E-08	1.46E-05	7.00E-06	1.34E-08	1.74E-05	8.00E-06	1.34E-08	1.71E-05	7.00E-06	1.34E-08	1.64E-05	1.50E-05	1.34E-08	2.54E-06	7.00E-06	1.34E-08	1.71E-05
	72"	2.10E-07	1.00E-05	1.62E-08	7.91E-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	1.51E-05	
	ASHRAE Climate Zone 4	36"	2.15E-07	7.00E-06	1.19E-08	-9.93E-06	7.00E-06	1.19E-08	-1.66E-05	7.00E-06	1.19E-08	-1.19E-05	6.00E-06	1.19E-08	-1.22E-05	7.00E-06	1.19E-08	-1.53E-05	6.00E-06	1.19E-08	-1.60E-05	-	-	-	6.00E-06	1.19E-08	-1.71E-05
		48"	2.09E-07	7.00E-06	1.25E-08	-9.93E-06	7.00E-06	1.25E-08	-1.66E-05	7.00E-06	1.25E-08	-1.18E-05	6.00E-06	1.25E-08	-1.22E-05	7.00E-06	1.25E-08	-1.53E-05	6.00E-06	1.25E-08	-1.60E-05	1.00E-06	1.25E-08	-4.57E-06	6.00E-06	1.25E-08	-1.71E-05
		60"	2.13E-07	8.00E-06	1.34E-08	-1.09E-05	8.00E-06	1.34E-08	-1.76E-05	8.00E-06	1.34E-08	-1.29E-05	7.00E-06	1.34E-08	-1.32E-05	8.00E-06	1.34E-08	-1.63E-05	7.00E-06	1.34E-08	-1.70E-05	1.50E-05	1.34E-08	-1.86E-05	7.00E-06	1.34E-08	-1.81E-05
	72"	2.10E-07	1.00E-05	1.62E-08	-1.29E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-2.01E-05	
	ASHRAE Climate Zone 5	36"	2.15E-07	7.00E-06	1.19E-08	-1.66E-05	7.00E-06	1.19E-08	-1.96E-05	7.00E-06	1.19E-08	-1.57E-05	6.00E-06	1.19E-08	-1.52E-05	7.00E-06	1.19E-08	-1.78E-05	6.00E-06	1.19E-08	-1.63E-05	-	-	-	6.00E-06	1.19E-08	-1.65E-05
		48"	2.09E-07	7.00E-06	1.25E-08	-1.66E-05	7.00E-06	1.25E-08	-1.96E-05	7.00E-06	1.25E-08	-1.57E-05	6.00E-06	1.25E-08	-1.52E-05	7.00E-06	1.25E-08	-1.78E-05	6.00E-06	1.25E-08	-1.63E-05	1.00E-06	1.25E-08	-8.51E-06	6.00E-06	1.25E-08	-1.65E-05
		60"	2.13E-07	8.00E-06	1.34E-08	-1.76E-05	8.00E-06	1.34E-08	-2.06E-05	8.00E-06	1.34E-08	-1.67E-05	7.00E-06	1.34E-08	-1.62E-05	8.00E-06	1.34E-08	-1.88E-05	7.00E-06	1.34E-08	-1.73E-05	1.50E-05	1.34E-08	-2.25E-05	7.00E-06	1.34E-08	-1.75E-05
	72"	2.10E-07	1.00E-05	1.62E-08	-1.96E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-1.95E-05	
	ASHRAE Climate Zone 6,7	36"	2.15E-07	7.00E-06	1.19E-08	-2.34E-05	7.00E-06	1.19E-08	-3.39E-05	7.00E-06	1.19E-08	-2.90E-05	6.00E-06	1.19E-08	-2.02E-05	7.00E-06	1.19E-08	-1.95E-05	6.00E-06	1.19E-08	-2.19E-05	-	-	-	6.00E-06	1.19E-08	-2.24E-05
		48"	2.09E-07	7.00E-06	1.25E-08	-2.34E-05	7.00E-06	1.25E-08	-3.39E-05	7.00E-06	1.25E-08	-2.90E-05	6.00E-06	1.25E-08	-2.02E-05	7.00E-06	1.25E-08	-1.95E-05	6.00E-06	1.25E-08	-2.19E-05	1.00E-06	1.25E-08	-1.32E-05	6.00E-06	1.25E-08	-2.24E-05
		60"	2.13E-07	8.00E-06	1.34E-08	-2.44E-05	8.00E-06	1.34E-08	-3.49E-05	8.00E-06	1.34E-08	-3.00E-05	7.00E-06	1.34E-08	-2.12E-05	8.00E-06	1.34E-08	-2.05E-05	7.00E-06	1.34E-08	-2.29E-05	1.50E-05	1.34E-08	-2.72E-05	7.00E-06	1.34E-08	-2.34E-05
	72"	2.10E-07	1.00E-05	1.62E-08	-2.64E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-2.54E-05	
	Canada	36"	1.47E-08	7.00E-06	1.19E-08	-2.09E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.29E-08	7.00E-06	1.25E-08	-2.09E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	-1.05E-05	-	-	-
		60"	1.22E-08	8.00E-06	1.34E-08	-2.19E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	-2.45E-05	-	-	-
	72"	1.23E-08	1.00E-05	1.62E-08	-2.39E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mexico	36"	8.75E-09	-	-	-	7.00E-06	1.19E-08	5.96E-05	7.00E-06	1.19E-08	4.89E-05	-	-	-	7.00E-06	1.19E-08	5.61E-05	6.00E-06	1.19E-08	5.44E-05	-	-	-	-	-	-	
	48"	7.10E-09	-	-	-	7.00E-06	1.25E-08	5.96E-05	7.00E-06	1.25E-08	4.89E-05	-	-	-	7.00E-06	1.25E-08	5.61E-05	6.00E-06	1.25E-08	5.44E-05	1.00E-06	1.25E-08	4.15E-05	-	-	-	
	60"	6.22E-09	-	-	-	8.00E-06	1.34E-08	5.86E-05	8.00E-06	1.34E-08	4.79E-05	-	-	-	8.00E-06	1.34E-08	5.51E-05	7.00E-06	1.34E-08	5.34E-05	1.50E-05	1.34E-08	2.75E-05	-	-	-	
72"	6.37E-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		



TABLE 72: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter^2)			All Films			Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30					
			Transportation to Customer			Manufacturing			End-of-Life			Net CFC-11e Saved			Manufacturing			End-of-Life			Net CFC-11e Saved			Manufacturing			End-of-Life			Net CFC-11e Saved		
			Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved			
North America	ASHRAE Climate Zone 1,2	36"	2.15E-07	7.00E-06	1.19E-08	1.75E-05	7.00E-06	1.19E-08	2.52E-05	7.00E-06	1.19E-08	2.06E-05	7.00E-06	1.19E-08	1.27E-05	7.00E-06	1.19E-08	2.72E-05	8.00E-06	1.53E-08	2.75E-05	8.00E-06	1.53E-08	2.24E-05	8.00E-06	1.53E-08	2.24E-05	8.00E-06	1.53E-08	1.87E-05		
		48"	2.09E-07	7.00E-06	1.25E-08	1.75E-05	7.00E-06	1.25E-08	2.52E-05	7.00E-06	1.25E-08	2.06E-05	7.00E-06	1.25E-08	1.27E-05	7.00E-06	1.25E-08	2.72E-05	8.00E-06	1.59E-08	2.75E-05	8.00E-06	1.59E-08	2.24E-05	8.00E-06	1.59E-08	2.24E-05	8.00E-06	1.59E-08	1.87E-05		
		60"	2.13E-07	8.00E-06	1.34E-08	1.65E-05	8.00E-06	1.34E-08	2.42E-05	8.00E-06	1.34E-08	1.96E-05	8.00E-06	1.34E-08	1.17E-05	8.00E-06	1.34E-08	2.62E-05	9.00E-06	1.68E-08	2.65E-05	9.00E-06	1.68E-08	2.14E-05	9.00E-06	1.68E-08	2.14E-05	9.00E-06	1.68E-08	1.77E-05		
	ASHRAE Climate Zone 3	36"	2.10E-07	1.00E-05	1.62E-08	1.45E-05	1.00E-05	1.62E-08	2.22E-05	1.00E-05	1.62E-08	1.76E-05	1.00E-05	1.62E-08	9.72E-06	-	-	-	1.00E-05	1.74E-08	2.55E-05	1.00E-05	1.74E-08	2.04E-05	1.00E-05	1.74E-08	2.04E-05	1.00E-05	1.74E-08	1.67E-05		
		48"	2.15E-07	7.00E-06	1.19E-08	1.29E-05	7.00E-06	1.19E-08	1.86E-05	7.00E-06	1.19E-08	1.51E-05	7.00E-06	1.19E-08	9.28E-06	7.00E-06	1.19E-08	2.11E-05	8.00E-06	1.53E-08	1.77E-05	8.00E-06	1.53E-08	1.54E-05	8.00E-06	1.53E-08	1.54E-05	8.00E-06	1.53E-08	1.32E-05		
		60"	2.09E-07	7.00E-06	1.25E-08	1.29E-05	7.00E-06	1.25E-08	1.86E-05	7.00E-06	1.25E-08	1.51E-05	7.00E-06	1.25E-08	9.29E-06	7.00E-06	1.25E-08	2.11E-05	8.00E-06	1.59E-08	1.77E-05	8.00E-06	1.59E-08	1.54E-05	8.00E-06	1.59E-08	1.54E-05	8.00E-06	1.59E-08	1.32E-05		
	ASHRAE Climate Zone 4	36"	2.13E-07	8.00E-06	1.34E-08	1.19E-05	8.00E-06	1.34E-08	1.76E-05	8.00E-06	1.34E-08	1.41E-05	8.00E-06	1.34E-08	8.28E-06	8.00E-06	1.34E-08	2.01E-05	9.00E-06	1.68E-08	1.67E-05	9.00E-06	1.68E-08	1.44E-05	9.00E-06	1.68E-08	1.44E-05	9.00E-06	1.68E-08	1.22E-05		
		48"	2.10E-07	1.00E-05	1.62E-08	9.88E-06	1.00E-05	1.62E-08	1.56E-05	1.00E-05	1.62E-08	1.21E-05	1.00E-05	1.62E-08	6.28E-06	-	-	-	1.00E-05	1.74E-08	1.57E-05	1.00E-05	1.74E-08	1.34E-05	1.00E-05	1.74E-08	1.34E-05	1.00E-05	1.74E-08	1.12E-05		
		60"	2.15E-07	7.00E-06	1.19E-08	-1.34E-05	7.00E-06	1.19E-08	-1.57E-05	7.00E-06	1.19E-08	-1.23E-05	7.00E-06	1.19E-08	-9.73E-06	7.00E-06	1.19E-08	-2.25E-06	8.00E-06	1.53E-08	-2.22E-05	8.00E-06	1.53E-08	-3.25E-05	8.00E-06	1.53E-08	-3.25E-05	8.00E-06	1.53E-08	-1.69E-05		
	ASHRAE Climate Zone 5	36"	2.09E-07	7.00E-06	1.25E-08	-1.34E-05	7.00E-06	1.25E-08	-1.57E-05	7.00E-06	1.25E-08	-1.23E-05	7.00E-06	1.25E-08	-9.73E-06	7.00E-06	1.25E-08	-2.24E-06	8.00E-06	1.59E-08	-2.21E-05	8.00E-06	1.59E-08	-3.25E-05	8.00E-06	1.59E-08	-3.25E-05	8.00E-06	1.59E-08	-1.69E-05		
		48"	2.13E-07	8.00E-06	1.34E-08	-1.44E-05	8.00E-06	1.34E-08	-1.67E-05	8.00E-06	1.34E-08	-1.33E-05	8.00E-06	1.34E-08	-1.07E-05	8.00E-06	1.34E-08	-3.25E-06	9.00E-06	1.68E-08	-2.32E-05	9.00E-06	1.68E-08	-3.35E-05	9.00E-06	1.68E-08	-3.35E-05	9.00E-06	1.68E-08	-1.79E-05		
		60"	2.10E-07	1.00E-05	1.62E-08	-1.64E-05	1.00E-05	1.62E-08	-1.87E-05	1.00E-05	1.62E-08	-1.53E-05	1.00E-05	1.62E-08	-1.27E-05	-	-	-	1.00E-05	1.74E-08	-2.42E-05	1.00E-05	1.74E-08	-3.45E-05	1.00E-05	1.74E-08	-3.45E-05	1.00E-05	1.74E-08	-1.89E-05		
	ASHRAE Climate Zone 6,7	36"	2.15E-07	7.00E-06	1.19E-08	-1.28E-05	7.00E-06	1.19E-08	-2.33E-05	7.00E-06	1.19E-08	-1.70E-05	7.00E-06	1.19E-08	-1.29E-05	7.00E-06	1.19E-08	-1.45E-05	8.00E-06	1.53E-08	-2.49E-05	8.00E-06	1.53E-08	-2.02E-05	8.00E-06	1.53E-08	-2.02E-05	8.00E-06	1.53E-08	-1.75E-05		
		48"	2.09E-07	7.00E-06	1.25E-08	-1.28E-05	7.00E-06	1.25E-08	-2.32E-05	7.00E-06	1.25E-08	-1.70E-05	7.00E-06	1.25E-08	-1.29E-05	7.00E-06	1.25E-08	-1.45E-05	8.00E-06	1.59E-08	-2.48E-05	8.00E-06	1.59E-08	-2.02E-05	8.00E-06	1.59E-08	-2.02E-05	8.00E-06	1.59E-08	-1.75E-05		
		60"	2.13E-07	8.00E-06	1.34E-08	-1.38E-05	8.00E-06	1.34E-08	-2.43E-05	8.00E-06	1.34E-08	-1.80E-05	8.00E-06	1.34E-08	-1.39E-05	8.00E-06	1.34E-08	-1.55E-05	9.00E-06	1.68E-08	-2.59E-05	9.00E-06	1.68E-08	-2.12E-05	9.00E-06	1.68E-08	-2.12E-05	9.00E-06	1.68E-08	-1.85E-05		
	Canada	36"	2.10E-07	1.00E-05	1.62E-08	-1.58E-05	1.00E-05	1.62E-08	-2.63E-05	1.00E-05	1.62E-08	-2.00E-05	1.00E-05	1.62E-08	-1.59E-05	1.00E-05	1.62E-08	-	1.00E-05	1.74E-08	-2.69E-05	1.00E-05	1.74E-08	-2.22E-05	1.00E-05	1.74E-08	-2.22E-05	1.00E-05	1.74E-08	-1.95E-05		
		48"	2.15E-07	7.00E-06	1.19E-08	-1.71E-05	7.00E-06	1.19E-08	-2.94E-05	7.00E-06	1.19E-08	-2.21E-05	7.00E-06	1.19E-08	-1.68E-05	7.00E-06	1.19E-08	-1.95E-05	8.00E-06	1.53E-08	-3.16E-05	8.00E-06	1.53E-08	-2.61E-05	8.00E-06	1.53E-08	-2.61E-05	8.00E-06	1.53E-08	-2.29E-05		
		60"	2.09E-07	7.00E-06	1.25E-08	-1.71E-05	7.00E-06	1.25E-08	-2.94E-05	7.00E-06	1.25E-08	-2.21E-05	7.00E-06	1.25E-08	-1.68E-05	7.00E-06	1.25E-08	-1.95E-05	8.00E-06	1.59E-08	-3.16E-05	8.00E-06	1.59E-08	-2.61E-05	8.00E-06	1.59E-08	-2.61E-05	8.00E-06	1.59E-08	-2.29E-05		
	Mexico	36"	2.13E-07	8.00E-06	1.34E-08	-1.81E-05	8.00E-06	1.34E-08	-3.04E-05	8.00E-06	1.34E-08	-2.31E-05	8.00E-06	1.34E-08	-1.78E-05	8.00E-06	1.34E-08	-2.05E-05	9.00E-06	1.68E-08	-3.26E-05	9.00E-06	1.68E-08	-2.71E-05	9.00E-06	1.68E-08	-2.71E-05	9.00E-06	1.68E-08	-2.39E-05		
		48"	2.10E-07	1.00E-05	1.62E-08	-2.01E-05	1.00E-05	1.62E-08	-3.24E-05	1.00E-05	1.62E-08	-2.51E-05	1.00E-05	1.62E-08	-1.98E-05	-	-	-	1.00E-05	1.74E-08	-3.36E-05	1.00E-05	1.74E-08	-2.81E-05	1.00E-05	1.74E-08	-2.81E-05	1.00E-05	1.74E-08	-2.49E-05		
		60"	1.47E-08	-	-	-	7.00E-06	1.19E-08	-2.69E-05	7.00E-06	1.19E-08	-1.93E-05	7.00E-06	1.19E-08	-1.43E-05	7.00E-06	1.19E-08	-1.93E-05	8.00E-06	1.53E-08	-2.90E-05	8.00E-06	1.53E-08	-2.36E-05	8.00E-06	1.53E-08	-2.36E-05	8.00E-06	1.53E-08	-2.01E-05		
	Mexico	36"	1.29E-08	-	-	-	7.00E-06	1.25E-08	-2.69E-05	7.00E-06	1.25E-08	-1.93E-05	7.00E-06	1.25E-08	-1.43E-05	7.00E-06	1.25E-08	-1.93E-05	8.00E-06	1.59E-08	-2.90E-05	8.00E-06	1.59E-08	-2.36E-05	8.00E-06	1.59E-08	-2.36E-05	8.00E-06	1.59E-08	-2.01E-05		
		48"	1.22E-08	-	-	-	8.00E-06	1.34E-08	-2.79E-05	8.00E-06	1.34E-08	-2.03E-05	8.00E-06	1.34E-08	-1.53E-05	8.00E-06	1.34E-08	-2.03E-05	9.00E-06	1.68E-08	-3.00E-05	9.00E-06	1.68E-08	-2.46E-05	9.00E-06	1.68E-08	-2.46E-05	9.00E-06	1.68E-08	-2.11E-05		
		60"	1.23E-08	-	-	-	1.00E-05	1.62E-08	-2.99E-05	1.00E-05	1.62E-08	-2.23E-05	1.00E-05	1.62E-08	-1.73E-05	-	-	-	1.00E-05	1.74E-08	-3.10E-05	1.00E-05	1.74E-08	-2.56E-05	1.00E-05	1.74E-08	-2.56E-05	1.00E-05	1.74E-08	-2.21E-05		
Mexico	36"	8.75E-09	-	-	-	7.00E-06	1.19E-08	5.53E-05	7.00E-06	1.19E-08	4.67E-05	7.00E-06	1.19E-08	3.29E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	48"	7.10E-09	-	-	-	7.00E-06	1.25E-08	5.53E-05	7.00E-06	1.25E-08	4.67E-05	7.00E-06	1.25E-08	3.29E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	60"	6.22E-09	-	-	-	8.00E-06	1.34E-08	5.43E-05	8.00E-06	1.34E-08	4.57E-05	8.00E-06	1.34E-08	3.19E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
72"	6.37E-09	-	-	-	1.00E-05	1.62E-08	5.22E-05	1.00E-05	1.62E-08	4.37E-05	1.00E-05	1.62E-08	2.99E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

TABLE 73: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)			All Films		Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	
North America	ASHRAE Climate Zone 1,2	36"	2.09E-07	8.00E-06	1.53E-08	1.31E-05	7.00E-06	1.19E-08	1.40E-05	7.00E-06	1.19E-08	2.92E-05	7.00E-06	1.19E-08	2.70E-05	7.00E-06	1.19E-08	1.91E-05	6.00E-06	1.19E-08	2.73E-05	7.00E-06	1.19E-08	1.90E-05	7.00E-06	1.19E-08	1.44E-05	
		48"	2.13E-07	8.00E-06	1.59E-08	1.31E-05	7.00E-06	1.25E-08	1.40E-05	7.00E-06	1.25E-08	2.92E-05	7.00E-06	1.25E-08	2.70E-05	7.00E-06	1.25E-08	1.91E-05	6.00E-06	1.25E-08	2.73E-05	7.00E-06	1.25E-08	1.90E-05	7.00E-06	1.25E-08	1.44E-05	
		60"	2.10E-07	9.00E-06	1.68E-08	1.21E-05	8.00E-06	1.34E-08	1.30E-05	8.00E-06	1.34E-08	2.82E-05	8.00E-06	1.34E-08	2.60E-05	8.00E-06	1.34E-08	1.81E-05	7.00E-06	1.34E-08	2.63E-05	8.00E-06	1.34E-08	1.80E-05	8.00E-06	1.34E-08	1.34E-05	
	ASHRAE Climate Zone 3	72"	2.15E-07	1.00E-05	1.74E-08	1.11E-05	1.00E-05	1.62E-08	1.10E-05	1.00E-05	1.62E-08	2.62E-05	1.00E-05	1.62E-08	2.40E-05	1.00E-05	1.62E-08	1.61E-05	9.00E-06	1.62E-08	2.43E-05	1.00E-05	1.62E-08	1.60E-05	1.00E-05	1.62E-08	1.14E-05	
		36"	2.09E-07	8.00E-06	1.53E-08	9.18E-06	7.00E-06	1.19E-08	1.01E-05	7.00E-06	1.19E-08	1.94E-05	7.00E-06	1.19E-08	1.70E-05	7.00E-06	1.19E-08	1.43E-05	6.00E-06	1.19E-08	1.92E-05	7.00E-06	1.19E-08	1.37E-05	7.00E-06	1.19E-08	1.09E-05	
		48"	2.13E-07	8.00E-06	1.59E-08	9.18E-06	7.00E-06	1.25E-08	1.01E-05	7.00E-06	1.25E-08	1.95E-05	7.00E-06	1.25E-08	1.70E-05	7.00E-06	1.25E-08	1.44E-05	6.00E-06	1.25E-08	1.92E-05	7.00E-06	1.25E-08	1.37E-05	7.00E-06	1.25E-08	1.09E-05	
	ASHRAE Climate Zone 4	60"	2.10E-07	9.00E-06	1.68E-08	8.18E-06	8.00E-06	1.34E-08	9.12E-06	8.00E-06	1.34E-08	1.84E-05	8.00E-06	1.34E-08	1.60E-05	8.00E-06	1.34E-08	1.33E-05	7.00E-06	1.34E-08	1.82E-05	8.00E-06	1.34E-08	1.27E-05	8.00E-06	1.34E-08	9.92E-06	
		72"	2.15E-07	1.00E-05	1.74E-08	7.18E-06	1.00E-05	1.62E-08	7.12E-06	1.00E-05	1.62E-08	1.64E-05	1.00E-05	1.62E-08	1.40E-05	1.00E-05	1.62E-08	1.13E-05	9.00E-06	1.62E-08	1.61E-05	1.00E-05	1.62E-08	1.07E-05	1.00E-05	1.62E-08	7.91E-06	
		36"	2.09E-07	8.00E-06	1.53E-08	-1.21E-05	7.00E-06	1.19E-08	-1.12E-05	7.00E-06	1.19E-08	-1.57E-05	7.00E-06	1.19E-08	-1.26E-05	7.00E-06	1.19E-08	-1.05E-05	6.00E-06	1.19E-08	-1.71E-05	7.00E-06	1.19E-08	-1.43E-05	7.00E-06	1.19E-08	-1.24E-05	
	ASHRAE Climate Zone 5	48"	2.13E-07	8.00E-06	1.59E-08	-1.21E-05	7.00E-06	1.25E-08	-1.12E-05	7.00E-06	1.25E-08	-1.57E-05	7.00E-06	1.25E-08	-1.26E-05	7.00E-06	1.25E-08	-1.05E-05	6.00E-06	1.25E-08	-1.71E-05	7.00E-06	1.25E-08	-1.43E-05	7.00E-06	1.25E-08	-1.24E-05	
		60"	2.10E-07	9.00E-06	1.68E-08	-1.31E-05	8.00E-06	1.34E-08	-1.22E-05	8.00E-06	1.34E-08	-1.67E-05	8.00E-06	1.34E-08	-1.36E-05	8.00E-06	1.34E-08	-1.15E-05	7.00E-06	1.34E-08	-1.81E-05	8.00E-06	1.34E-08	-1.53E-05	8.00E-06	1.34E-08	-1.34E-05	
		72"	2.15E-07	1.00E-05	1.74E-08	-1.41E-05	1.00E-05	1.62E-08	-1.42E-05	1.00E-05	1.62E-08	-1.87E-05	1.00E-05	1.62E-08	-1.56E-05	1.00E-05	1.62E-08	-1.35E-05	9.00E-06	1.62E-08	-2.01E-05	1.00E-05	1.62E-08	-1.73E-05	1.00E-05	1.62E-08	-1.54E-05	
	ASHRAE Climate Zone 6,7	36"	2.09E-07	8.00E-06	1.53E-08	-1.44E-05	7.00E-06	1.19E-08	-1.32E-05	7.00E-06	1.19E-08	-2.21E-05	7.00E-06	1.19E-08	-1.85E-05	7.00E-06	1.19E-08	-1.59E-05	6.00E-06	1.19E-08	-1.91E-05	7.00E-06	1.19E-08	-1.54E-05	7.00E-06	1.19E-08	-1.33E-05	
		48"	2.13E-07	8.00E-06	1.59E-08	-1.44E-05	7.00E-06	1.25E-08	-1.32E-05	7.00E-06	1.25E-08	-2.20E-05	7.00E-06	1.25E-08	-1.84E-05	7.00E-06	1.25E-08	-1.59E-05	6.00E-06	1.25E-08	-1.91E-05	7.00E-06	1.25E-08	-1.54E-05	7.00E-06	1.25E-08	-1.33E-05	
		60"	2.10E-07	9.00E-06	1.68E-08	-1.54E-05	8.00E-06	1.34E-08	-1.42E-05	8.00E-06	1.34E-08	-2.30E-05	8.00E-06	1.34E-08	-1.95E-05	8.00E-06	1.34E-08	-1.69E-05	7.00E-06	1.34E-08	-2.01E-05	8.00E-06	1.34E-08	-1.64E-05	8.00E-06	1.34E-08	-1.43E-05	
	Canada	72"	2.15E-07	1.00E-05	1.74E-08	-1.64E-05	1.00E-05	1.62E-08	-1.62E-05	1.00E-05	1.62E-08	-2.50E-05	1.00E-05	1.62E-08	-2.15E-05	1.00E-05	1.62E-08	-1.89E-05	9.00E-06	1.62E-08	-2.21E-05	1.00E-05	1.62E-08	-1.84E-05	1.00E-05	1.62E-08	-1.63E-05	
		36"	2.09E-07	8.00E-06	1.53E-08	-1.86E-05	7.00E-06	1.19E-08	-1.73E-05	7.00E-06	1.19E-08	-2.80E-05	7.00E-06	1.19E-08	-2.38E-05	7.00E-06	1.19E-08	-2.05E-05	6.00E-06	1.19E-08	-2.52E-05	7.00E-06	1.19E-08	-2.04E-05	7.00E-06	1.19E-08	-1.77E-05	
		48"	2.13E-07	8.00E-06	1.59E-08	-1.86E-05	7.00E-06	1.25E-08	-1.73E-05	7.00E-06	1.25E-08	-2.80E-05	7.00E-06	1.25E-08	-2.38E-05	7.00E-06	1.25E-08	-2.05E-05	6.00E-06	1.25E-08	-2.52E-05	7.00E-06	1.25E-08	-2.05E-05	7.00E-06	1.25E-08	-1.77E-05	
	Mexico	60"	2.10E-07	9.00E-06	1.68E-08	-1.96E-05	8.00E-06	1.34E-08	-1.83E-05	8.00E-06	1.34E-08	-2.90E-05	8.00E-06	1.34E-08	-2.48E-05	8.00E-06	1.34E-08	-2.15E-05	7.00E-06	1.34E-08	-2.62E-05	8.00E-06	1.34E-08	-2.15E-05	8.00E-06	1.34E-08	-1.87E-05	
		72"	1.47E-08	1.00E-05	1.74E-08	-2.06E-05	1.00E-05	1.62E-08	-2.03E-05	1.00E-05	1.62E-08	-3.10E-05	1.00E-05	1.62E-08	-2.68E-05	1.00E-05	1.62E-08	-2.35E-05	9.00E-06	1.62E-08	-2.80E-05	1.00E-05	1.62E-08	-2.33E-05	1.00E-05	1.62E-08	-2.05E-05	
		36"	1.29E-08	8.00E-06	1.53E-08	-1.60E-05	7.00E-06	1.19E-08	-1.46E-05	7.00E-06	1.19E-08	-2.54E-05	7.00E-06	1.19E-08	-2.13E-05	7.00E-06	1.19E-08	-1.77E-05	6.00E-06	1.19E-08	-2.25E-05	7.00E-06	1.19E-08	-1.77E-05	7.00E-06	1.19E-08	-1.49E-05	
	Mexico	48"	1.22E-08	8.00E-06	1.59E-08	-1.60E-05	7.00E-06	1.25E-08	-1.46E-05	7.00E-06	1.25E-08	-2.54E-05	7.00E-06	1.25E-08	-2.13E-05	7.00E-06	1.25E-08	-1.77E-05	6.00E-06	1.25E-08	-2.25E-05	7.00E-06	1.25E-08	-1.77E-05	7.00E-06	1.25E-08	-1.49E-05	
		60"	1.23E-08	9.00E-06	1.68E-08	-1.70E-05	8.00E-06	1.34E-08	-1.56E-05	8.00E-06	1.34E-08	-2.64E-05	8.00E-06	1.34E-08	-2.23E-05	8.00E-06	1.34E-08	-1.87E-05	7.00E-06	1.34E-08	-2.35E-05	8.00E-06	1.34E-08	-1.87E-05	8.00E-06	1.34E-08	-1.59E-05	
		72"	8.75E-09	1.00E-05	1.74E-08	-1.80E-05	1.00E-05	1.62E-08	-1.76E-05	1.00E-05	1.62E-08	-2.84E-05	1.00E-05	1.62E-08	-2.43E-05	1.00E-05	1.62E-08	-2.07E-05	9.00E-06	1.62E-08	-2.55E-05	1.00E-05	1.62E-08	-2.07E-05	1.00E-05	1.62E-08	-1.79E-05	
Mexico	36"	7.10E-09	-	-	-	-	-	-	7.00E-06	1.19E-08	5.99E-05	7.00E-06	1.19E-08	5.12E-05	7.00E-06	1.19E-08	4.31E-05	6.00E-06	1.19E-08	5.99E-05	7.00E-06	1.19E-08	4.52E-05	7.00E-06	1.19E-08	3.64E-05		
	48"	6.22E-09	-	-	-	-	-	-	7.00E-06	1.25E-08	5.99E-05	7.00E-06	1.25E-08	5.12E-05	7.00E-06	1.25E-08	4.31E-05	6.00E-06	1.25E-08	5.99E-05	7.00E-06	1.25E-08	4.52E-05	7.00E-06	1.25E-08	3.64E-05		
	60"	6.37E-09	-	-	-	-	-	-	8.00E-06	1.34E-08	5.89E-05	8.00E-06	1.34E-08	5.02E-05	8.00E-06	1.34E-08	4.21E-05	7.00E-06	1.34E-08	5.89E-05	8.00E-06	1.34E-08	4.42E-05	8.00E-06	1.34E-08	3.54E-05		
72"	0.00E+00	-	-	-	-	-	-	1.00E-05	1.62E-08	5.69E-05	1.00E-05	1.62E-08	4.82E-05	1.00E-05	1.62E-08	4.01E-05	9.00E-06	1.62E-08	5.69E-05	1.00E-05	1.62E-08	4.22E-05	1.00E-05	1.62E-08	3.34E-05			

TABLE 74: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)			All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
			Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved
North America	ASHRAE Climate Zone 1,2	36"	2.13E-07	7.00E-06	1.19E-08	1.05E-05	7.00E-06	1.19E-08	8.43E-06	7.00E-06	1.19E-08	2.62E-05	7.00E-06	1.19E-08	1.93E-05	7.00E-06	1.19E-08	1.53E-05	7.00E-06	1.19E-08	8.59E-06	7.00E-06	1.19E-08	4.29E-06
		48"	2.10E-07	7.00E-06	1.25E-08	1.05E-05	7.00E-06	1.25E-08	8.43E-06	7.00E-06	1.25E-08	2.62E-05	7.00E-06	1.25E-08	1.93E-05	7.00E-06	1.25E-08	1.53E-05	7.00E-06	1.25E-08	8.58E-06	7.00E-06	1.25E-08	4.29E-06
		60"	2.15E-07	8.00E-06	1.34E-08	9.54E-06	8.00E-06	1.34E-08	7.43E-06	8.00E-06	1.34E-08	2.52E-05	8.00E-06	1.34E-08	1.83E-05	8.00E-06	1.34E-08	1.43E-05	8.00E-06	1.34E-08	7.58E-06	8.00E-06	1.34E-08	3.29E-06
		72"	2.09E-07	1.00E-05	1.62E-08	7.53E-06	1.00E-05	1.62E-08	5.42E-06	1.00E-05	1.62E-08	2.32E-05	1.00E-05	1.62E-08	1.63E-05	1.00E-05	1.62E-08	1.23E-05	1.00E-05	1.62E-08	5.58E-06	1.00E-05	1.62E-08	1.28E-06
	ASHRAE Climate Zone 3	36"	2.13E-07	7.00E-06	1.19E-08	7.43E-06	7.00E-06	1.19E-08	5.71E-06	7.00E-06	1.19E-08	1.86E-05	7.00E-06	1.19E-08	1.44E-05	7.00E-06	1.19E-08	1.15E-05	7.00E-06	1.19E-08	5.42E-06	7.00E-06	1.19E-08	2.57E-06
		48"	2.10E-07	7.00E-06	1.25E-08	7.43E-06	7.00E-06	1.25E-08	5.71E-06	7.00E-06	1.25E-08	1.86E-05	7.00E-06	1.25E-08	1.44E-05	7.00E-06	1.25E-08	1.15E-05	7.00E-06	1.25E-08	5.42E-06	7.00E-06	1.25E-08	2.57E-06
		60"	2.15E-07	8.00E-06	1.34E-08	6.43E-06	8.00E-06	1.34E-08	4.71E-06	8.00E-06	1.34E-08	1.76E-05	8.00E-06	1.34E-08	1.34E-05	8.00E-06	1.34E-08	1.05E-05	8.00E-06	1.34E-08	4.42E-06	8.00E-06	1.34E-08	1.57E-06
		72"	2.09E-07	1.00E-05	1.62E-08	4.42E-06	1.00E-05	1.62E-08	2.70E-06	1.00E-05	1.62E-08	1.56E-05	1.00E-05	1.62E-08	1.14E-05	1.00E-05	1.62E-08	8.53E-06	1.00E-05	1.62E-08	2.41E-06	1.00E-05	1.62E-08	4.36E-07
	ASHRAE Climate Zone 4	36"	2.13E-07	7.00E-06	1.19E-08	-1.14E-05	7.00E-06	1.19E-08	-1.09E-05	7.00E-06	1.19E-08	-3.33E-05	7.00E-06	1.19E-08	-2.84E-05	7.00E-06	1.19E-08	-2.67E-05	7.00E-06	1.19E-08	-2.64E-05	7.00E-06	1.19E-08	-2.43E-05
		48"	2.10E-07	7.00E-06	1.25E-08	-1.14E-05	7.00E-06	1.25E-08	-1.09E-05	7.00E-06	1.25E-08	-3.33E-05	7.00E-06	1.25E-08	-2.84E-05	7.00E-06	1.25E-08	-2.67E-05	7.00E-06	1.25E-08	-2.64E-05	7.00E-06	1.25E-08	-2.43E-05
		60"	2.15E-07	8.00E-06	1.34E-08	-1.24E-05	8.00E-06	1.34E-08	-1.19E-05	8.00E-06	1.34E-08	-3.43E-05	8.00E-06	1.34E-08	-2.94E-05	8.00E-06	1.34E-08	-2.77E-05	8.00E-06	1.34E-08	-2.74E-05	8.00E-06	1.34E-08	-2.53E-05
		72"	2.09E-07	1.00E-05	1.62E-08	-1.44E-05	1.00E-05	1.62E-08	-1.39E-05	1.00E-05	1.62E-08	-3.63E-05	1.00E-05	1.62E-08	-3.14E-05	1.00E-05	1.62E-08	-2.97E-05	1.00E-05	1.62E-08	-2.95E-05	1.00E-05	1.62E-08	-2.73E-05
	ASHRAE Climate Zone 5	36"	2.13E-07	7.00E-06	1.19E-08	-1.22E-05	7.00E-06	1.19E-08	-1.16E-05	7.00E-06	1.19E-08	-2.06E-05	7.00E-06	1.19E-08	-1.57E-05	7.00E-06	1.19E-08	-1.35E-05	7.00E-06	1.19E-08	-1.19E-05	7.00E-06	1.19E-08	-9.83E-06
		48"	2.10E-07	7.00E-06	1.25E-08	-1.22E-05	7.00E-06	1.25E-08	-1.16E-05	7.00E-06	1.25E-08	-2.07E-05	7.00E-06	1.25E-08	-1.57E-05	7.00E-06	1.25E-08	-1.35E-05	7.00E-06	1.25E-08	-1.19E-05	7.00E-06	1.25E-08	-9.83E-06
		60"	2.15E-07	8.00E-06	1.34E-08	-1.32E-05	8.00E-06	1.34E-08	-1.26E-05	8.00E-06	1.34E-08	-2.17E-05	8.00E-06	1.34E-08	-1.67E-05	8.00E-06	1.34E-08	-1.45E-05	8.00E-06	1.34E-08	-1.29E-05	8.00E-06	1.34E-08	-1.08E-05
		72"	2.09E-07	1.00E-05	1.62E-08	-1.52E-05	1.00E-05	1.62E-08	-1.46E-05	1.00E-05	1.62E-08	-2.37E-05	1.00E-05	1.62E-08	-1.87E-05	1.00E-05	1.62E-08	-1.65E-05	1.00E-05	1.62E-08	-1.49E-05	1.00E-05	1.62E-08	-1.28E-05
	ASHRAE Climate Zone 6,7	36"	2.13E-07	7.00E-06	1.19E-08	-1.60E-05	7.00E-06	1.19E-08	-1.51E-05	7.00E-06	1.19E-08	-2.61E-05	7.00E-06	1.19E-08	-2.05E-05	7.00E-06	1.19E-08	-1.79E-05	7.00E-06	1.19E-08	-1.53E-05	7.00E-06	1.19E-08	-1.26E-05
		48"	2.10E-07	7.00E-06	1.25E-08	-1.60E-05	7.00E-06	1.25E-08	-1.51E-05	7.00E-06	1.25E-08	-2.61E-05	7.00E-06	1.25E-08	-2.05E-05	7.00E-06	1.25E-08	-1.79E-05	7.00E-06	1.25E-08	-1.53E-05	7.00E-06	1.25E-08	-1.26E-05
		60"	1.47E-08	8.00E-06	1.34E-08	-1.70E-05	8.00E-06	1.34E-08	-1.61E-05	8.00E-06	1.34E-08	-2.71E-05	8.00E-06	1.34E-08	-2.15E-05	8.00E-06	1.34E-08	-1.89E-05	8.00E-06	1.34E-08	-1.63E-05	8.00E-06	1.34E-08	-1.36E-05
		72"	1.29E-08	1.00E-05	1.62E-08	-1.88E-05	1.00E-05	1.62E-08	-1.79E-05	1.00E-05	1.62E-08	-2.89E-05	1.00E-05	1.62E-08	-2.33E-05	1.00E-05	1.62E-08	-2.07E-05	1.00E-05	1.62E-08	-1.81E-05	1.00E-05	1.62E-08	-1.54E-05
	Canada	36"	1.22E-08	7.00E-06	1.19E-08	-1.33E-05	7.00E-06	1.19E-08	-1.27E-05	7.00E-06	1.19E-08	-2.38E-05	7.00E-06	1.19E-08	-1.76E-05	7.00E-06	1.19E-08	-1.50E-05	7.00E-06	1.19E-08	-1.29E-05	7.00E-06	1.19E-08	-1.03E-05
		48"	1.23E-08	7.00E-06	1.25E-08	-1.33E-05	7.00E-06	1.25E-08	-1.27E-05	7.00E-06	1.25E-08	-2.38E-05	7.00E-06	1.25E-08	-1.76E-05	7.00E-06	1.25E-08	-1.50E-05	7.00E-06	1.25E-08	-1.29E-05	7.00E-06	1.25E-08	-1.03E-05
		60"	8.75E-09	8.00E-06	1.34E-08	-1.43E-05	8.00E-06	1.34E-08	-1.37E-05	8.00E-06	1.34E-08	-2.48E-05	8.00E-06	1.34E-08	-1.86E-05	8.00E-06	1.34E-08	-1.60E-05	8.00E-06	1.34E-08	-1.39E-05	8.00E-06	1.34E-08	-1.13E-05
		72"	7.10E-09	1.00E-05	1.62E-08	-1.63E-05	1.00E-05	1.62E-08	-1.57E-05	1.00E-05	1.62E-08	-2.68E-05	1.00E-05	1.62E-08	-2.06E-05	1.00E-05	1.62E-08	-1.80E-05	1.00E-05	1.62E-08	-1.59E-05	1.00E-05	1.62E-08	-1.33E-05
Mexico	36"	6.22E-09	7.00E-06	1.19E-08	2.91E-05	7.00E-06	1.19E-08	2.48E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	48"	6.37E-09	7.00E-06	1.25E-08	2.91E-05	7.00E-06	1.25E-08	2.48E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	60"	0.00E+00	8.00E-06	1.34E-08	2.81E-05	8.00E-06	1.34E-08	2.38E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	72"	0.00E+00	1.00E-05	1.62E-08	2.61E-05	1.00E-05	1.62E-08	2.18E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 75: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN EUROPE

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	
Europe	France	36"	1.27E-07	-	-	-	-	-	7.00E-06	1.19E-08	-1.54E-05	-	-	-	-	-	-	6.00E-06	1.19E-08	-1.68E-05	-	-	-	-	-	-	
		48"	1.24E-07	-	-	-	-	-	7.00E-06	1.25E-08	-1.54E-05	-	-	-	-	-	-	-	6.00E-06	1.25E-08	-1.68E-05	1.00E-06	1.25E-08	-6.60E-06	-	-	-
		60"	1.25E-07	-	-	-	-	-	8.00E-06	1.34E-08	-1.64E-05	-	-	-	-	-	-	-	7.00E-06	1.34E-08	-1.78E-05	1.50E-05	1.34E-08	-2.06E-05	-	-	-
		72"	1.24E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Northern Europe	36"	1.28E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.24E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	-7.10E-06	-	-	-
		60"	1.26E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	-2.11E-05	-	-	-
		72"	1.24E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Scandinavia	36"	1.25E-07	7.00E-06	1.19E-08	-2.05E-05	7.00E-06	1.19E-08	-2.72E-05	7.00E-06	1.19E-08	-2.26E-05	6.00E-06	1.19E-08	-2.14E-05	7.00E-06	1.19E-08	-2.52E-05	6.00E-06	1.19E-08	-2.64E-05	-	-	-	6.00E-06	1.19E-08	-2.78E-05
		48"	1.21E-07	7.00E-06	1.25E-08	-2.05E-05	7.00E-06	1.25E-08	-2.72E-05	7.00E-06	1.25E-08	-2.26E-05	6.00E-06	1.25E-08	-2.14E-05	7.00E-06	1.25E-08	-2.52E-05	6.00E-06	1.25E-08	-2.64E-05	1.00E-06	1.25E-08	-1.22E-05	6.00E-06	1.25E-08	-2.78E-05
		60"	1.23E-07	8.00E-06	1.34E-08	-2.15E-05	8.00E-06	1.34E-08	-2.82E-05	8.00E-06	1.34E-08	-2.36E-05	7.00E-06	1.34E-08	-2.24E-05	8.00E-06	1.34E-08	-2.62E-05	7.00E-06	1.34E-08	-2.74E-05	1.50E-05	1.34E-08	-2.62E-05	7.00E-06	1.34E-08	-2.88E-05
	Southern Europe	36"	1.21E-07	1.00E-05	1.62E-08	-2.35E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-3.08E-05
		48"	1.28E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	9.35E-06	-	-	-	-	-	-	6.00E-06	1.19E-08	9.21E-06	-	-	-	-	-	-
		60"	1.24E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	9.35E-06	-	-	-	-	-	-	6.00E-06	1.25E-08	9.21E-06	1.00E-06	1.25E-08	1.27E-05	-	-	-
	United Kingdom	36"	1.26E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	8.35E-06	-	-	-	-	-	-	7.00E-06	1.34E-08	8.21E-06	1.50E-05	1.34E-08	-1.33E-06	-	-	-
		48"	1.25E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.22E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	-1.08E-05	-	-	-	-	-	-	6.00E-06	1.19E-08	-1.10E-05	-	-	-	-	-	-
		72"	1.18E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	-1.08E-05	-	-	-	-	-	-	6.00E-06	1.25E-08	-1.10E-05	1.00E-06	1.25E-08	-4.53E-06	-	-	-
	United Kingdom	36"	1.20E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.18E-05	-	-	-	-	-	-	7.00E-06	1.34E-08	-1.20E-05	1.50E-05	1.34E-08	-1.85E-05	-	-	-
		48"	1.18E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60"		1.18E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
72"		1.18E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 76: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films			Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30										
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved										
Europe	France	36"	1.27E-07	7.00E-06	1.19E-08	-1.67E-05	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	-1.01E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.24E-07	7.00E-06	1.25E-08	-1.67E-05	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	-1.01E-05	-	-	-	-	-	-	-	-	-	-	-	-	-		
		60"	1.25E-07	8.00E-06	1.34E-08	-1.77E-05	-	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.11E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.24E-07	1.00E-05	1.62E-08	-1.97E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Northern Europe	36"	1.28E-07	-	-	-	7.00E-06	1.19E-08	-1.77E-05	7.00E-06	1.19E-08	-1.43E-05	-	-	-	7.00E-06	1.19E-08	-9.70E-06	8.00E-06	1.53E-08	-1.97E-05	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.24E-07	-	-	-	7.00E-06	1.25E-08	-1.77E-05	7.00E-06	1.25E-08	-1.43E-05	-	-	-	7.00E-06	1.25E-08	-9.70E-06	8.00E-06	1.59E-08	-1.96E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.26E-07	-	-	-	8.00E-06	1.34E-08	-1.87E-05	8.00E-06	1.34E-08	-1.53E-05	-	-	-	8.00E-06	1.34E-08	-1.07E-05	9.00E-06	1.68E-08	-2.07E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.24E-07	-	-	-	1.00E-05	1.62E-08	-2.07E-05	1.00E-05	1.62E-08	-1.73E-05	-	-	-	-	-	-	1.00E-05	1.74E-08	-2.17E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Scandinavia	36"	1.25E-07	7.00E-06	1.19E-08	-2.16E-05	7.00E-06	1.19E-08	-2.66E-05	7.00E-06	1.19E-08	-2.15E-05	7.00E-06	1.19E-08	-1.66E-05	7.00E-06	1.19E-08	-6.88E-06	8.00E-06	1.53E-08	-2.51E-05	8.00E-06	1.53E-08	-2.14E-05	8.00E-06	1.53E-08	-2.14E-05	8.00E-06	1.53E-08	-2.14E-05	8.00E-06	1.53E-08	-2.14E-05	8.00E-06	1.53E-08	-2.14E-05
		48"	1.21E-07	7.00E-06	1.25E-08	-2.16E-05	7.00E-06	1.25E-08	-2.66E-05	7.00E-06	1.25E-08	-2.15E-05	7.00E-06	1.25E-08	-1.66E-05	7.00E-06	1.25E-08	-6.88E-06	8.00E-06	1.59E-08	-2.51E-05	8.00E-06	1.59E-08	-2.14E-05	8.00E-06	1.59E-08	-2.14E-05	8.00E-06	1.59E-08	-2.14E-05	8.00E-06	1.59E-08	-2.14E-05	8.00E-06	1.59E-08	-2.14E-05
		60"	1.23E-07	8.00E-06	1.34E-08	-2.26E-05	8.00E-06	1.34E-08	-2.76E-05	8.00E-06	1.34E-08	-2.25E-05	8.00E-06	1.34E-08	-1.76E-05	8.00E-06	1.34E-08	-7.88E-06	9.00E-06	1.68E-08	-2.61E-05	9.00E-06	1.68E-08	-2.24E-05	9.00E-06	1.68E-08	-2.24E-05	9.00E-06	1.68E-08	-2.24E-05	9.00E-06	1.68E-08	-2.24E-05	9.00E-06	1.68E-08	-2.24E-05
		72"	1.21E-07	1.00E-05	1.62E-08	-2.46E-05	1.00E-05	1.62E-08	-2.96E-05	1.00E-05	1.62E-08	-2.45E-05	1.00E-05	1.62E-08	-1.96E-05	-	-	-	1.00E-05	1.74E-08	-2.71E-05	1.00E-05	1.74E-08	-2.34E-05	1.00E-05	1.74E-08	-2.34E-05	1.00E-05	1.74E-08	-2.34E-05	1.00E-05	1.74E-08	-2.34E-05	1.00E-05	1.74E-08	-2.34E-05
	Southern Europe	36"	1.28E-07	-	-	-	7.00E-06	1.19E-08	1.12E-05	7.00E-06	1.19E-08	9.18E-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		48"	1.24E-07	-	-	-	7.00E-06	1.25E-08	1.12E-05	7.00E-06	1.25E-08	9.18E-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.26E-07	-	-	-	8.00E-06	1.34E-08	1.02E-05	8.00E-06	1.34E-08	8.18E-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.25E-07	-	-	-	1.00E-05	1.62E-08	8.17E-06	1.00E-05	1.62E-08	6.18E-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Kingdom	36"	1.22E-07	-	-	-	7.00E-06	1.19E-08	-1.39E-05	7.00E-06	1.19E-08	-1.13E-05	7.00E-06	1.19E-08	-9.68E-06	7.00E-06	1.19E-08	-7.23E-06	8.00E-06	1.53E-08	-1.58E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	1.18E-07	-	-	-	7.00E-06	1.25E-08	-1.39E-05	7.00E-06	1.25E-08	-1.13E-05	7.00E-06	1.25E-08	-9.68E-06	7.00E-06	1.25E-08	-7.22E-06	8.00E-06	1.59E-08	-1.58E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	1.20E-07	-	-	-	8.00E-06	1.34E-08	-1.49E-05	8.00E-06	1.34E-08	-1.23E-05	8.00E-06	1.34E-08	-1.07E-05	8.00E-06	1.34E-08	-8.23E-06	9.00E-06	1.68E-08	-1.68E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	1.18E-07	-	-	-	1.00E-05	1.62E-08	-1.69E-05	1.00E-05	1.62E-08	-1.43E-05	1.00E-05	1.62E-08	-1.27E-05	-	-	-	1.00E-05	1.74E-08	-1.78E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 77: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	
Europe	France	36"	1.27E-07	-	-	-	-	-	7.00E-06	1.19E-08	-1.81E-05	7.00E-06	1.19E-08	-1.54E-05	-	-	-	6.00E-06	1.19E-08	-1.81E-05	7.00E-06	1.19E-08	-1.53E-05	7.00E-06	1.19E-08	-1.35E-05	
		48"	1.24E-07	-	-	-	-	-	7.00E-06	1.25E-08	-1.81E-05	7.00E-06	1.25E-08	-1.54E-05	-	-	-	6.00E-06	1.25E-08	-1.81E-05	7.00E-06	1.25E-08	-1.53E-05	7.00E-06	1.25E-08	-1.35E-05	
		60"	1.25E-07	-	-	-	-	-	8.00E-06	1.34E-08	-1.91E-05	8.00E-06	1.34E-08	-1.64E-05	-	-	-	7.00E-06	1.34E-08	-1.91E-05	8.00E-06	1.34E-08	-1.63E-05	8.00E-06	1.34E-08	-1.45E-05	
		72"	1.24E-07	-	-	-	-	-	1.00E-05	1.62E-08	-2.11E-05	1.00E-05	1.62E-08	-1.84E-05	-	-	-	9.00E-06	1.62E-08	-2.11E-05	1.00E-05	1.62E-08	-1.83E-05	1.00E-05	1.62E-08	-1.65E-05	
	Northern Europe	36"	1.28E-07	8.00E-06	1.53E-08	-1.31E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	-1.37E-05	7.00E-06	1.19E-08	-1.25E-05
		48"	1.24E-07	8.00E-06	1.59E-08	-1.31E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	-1.37E-05	7.00E-06	1.25E-08	-1.25E-05
		60"	1.26E-07	9.00E-06	1.68E-08	-1.41E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.47E-05	8.00E-06	1.34E-08	-1.35E-05
		72"	1.24E-07	1.00E-05	1.74E-08	-1.51E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	-1.67E-05	1.00E-05	1.62E-08	-1.55E-05
	Scandinavia	36"	1.25E-07	8.00E-06	1.53E-08	-1.60E-05	7.00E-06	1.19E-08	-1.43E-05	7.00E-06	1.19E-08	-2.65E-05	7.00E-06	1.19E-08	-2.21E-05	7.00E-06	1.19E-08	-1.82E-05	6.00E-06	1.19E-08	-1.98E-05	7.00E-06	1.19E-08	-1.72E-05	7.00E-06	1.19E-08	-1.54E-05
		48"	1.21E-07	8.00E-06	1.59E-08	-1.60E-05	7.00E-06	1.25E-08	-1.43E-05	7.00E-06	1.25E-08	-2.65E-05	7.00E-06	1.25E-08	-2.21E-05	7.00E-06	1.25E-08	-1.82E-05	6.00E-06	1.25E-08	-1.97E-05	7.00E-06	1.25E-08	-1.72E-05	7.00E-06	1.25E-08	-1.54E-05
		60"	1.23E-07	9.00E-06	1.68E-08	-1.70E-05	8.00E-06	1.34E-08	-1.53E-05	8.00E-06	1.34E-08	-2.75E-05	8.00E-06	1.34E-08	-2.31E-05	8.00E-06	1.34E-08	-1.92E-05	7.00E-06	1.34E-08	-2.08E-05	8.00E-06	1.34E-08	-1.82E-05	8.00E-06	1.34E-08	-1.64E-05
		72"	1.21E-07	1.00E-05	1.74E-08	-1.80E-05	1.00E-05	1.62E-08	-1.73E-05	1.00E-05	1.62E-08	-2.95E-05	1.00E-05	1.62E-08	-2.51E-05	1.00E-05	1.62E-08	-2.12E-05	9.00E-06	1.62E-08	-2.28E-05	1.00E-05	1.62E-08	-2.02E-05	1.00E-05	1.62E-08	-1.84E-05
	Southern Europe	36"	1.28E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	1.28E-05	7.00E-06	1.19E-08	8.82E-06	7.00E-06	1.19E-08	9.17E-06	
		48"	1.24E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	1.28E-05	7.00E-06	1.25E-08	8.82E-06	7.00E-06	1.25E-08	9.17E-06	
		60"	1.26E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	1.18E-05	8.00E-06	1.34E-08	7.82E-06	8.00E-06	1.34E-08	8.17E-06	
		72"	1.25E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	9.77E-06	1.00E-05	1.62E-08	5.82E-06	1.00E-05	1.62E-08	6.17E-06	
	United Kingdom	36"	1.22E-07	8.00E-06	1.53E-08	-1.10E-05	-	-	-	7.00E-06	1.19E-08	-1.30E-05	7.00E-06	1.19E-08	-1.16E-05	7.00E-06	1.19E-08	-1.05E-05	6.00E-06	1.19E-08	-1.22E-05	7.00E-06	1.19E-08	-1.11E-05	7.00E-06	1.19E-08	-1.02E-05
		48"	1.18E-07	8.00E-06	1.59E-08	-1.10E-05	-	-	-	7.00E-06	1.25E-08	-1.30E-05	7.00E-06	1.25E-08	-1.16E-05	7.00E-06	1.25E-08	-1.05E-05	6.00E-06	1.25E-08	-1.22E-05	7.00E-06	1.25E-08	-1.11E-05	7.00E-06	1.25E-08	-1.02E-05
		60"	1.20E-07	9.00E-06	1.68E-08	-1.20E-05	-	-	-	8.00E-06	1.34E-08	-1.40E-05	8.00E-06	1.34E-08	-1.26E-05	8.00E-06	1.34E-08	-1.15E-05	7.00E-06	1.34E-08	-1.32E-05	8.00E-06	1.34E-08	-1.21E-05	8.00E-06	1.34E-08	-1.12E-05
		72"	1.18E-07	1.00E-05	1.74E-08	-1.30E-05	-	-	-	1.00E-05	1.62E-08	-1.60E-05	1.00E-05	1.62E-08	-1.46E-05	1.00E-05	1.62E-08	-1.35E-05	9.00E-06	1.62E-08	-1.52E-05	1.00E-05	1.62E-08	-1.41E-05	1.00E-05	1.62E-08	-1.32E-05

TABLE 78: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	
Europe	France	36"	1.27E-07	7.00E-06	1.19E-08	-1.24E-05	7.00E-06	1.19E-08	-1.17E-05	7.00E-06	1.19E-08	-3.80E-05	7.00E-06	1.19E-08	-1.32E-05	7.00E-06	1.19E-08	-1.16E-05	7.00E-06	1.19E-08	-1.05E-05	7.00E-06	1.19E-08	-8.66E-06
		48"	1.24E-07	7.00E-06	1.25E-08	-1.24E-05	7.00E-06	1.25E-08	-1.17E-05	7.00E-06	1.25E-08	-3.80E-05	7.00E-06	1.25E-08	-1.32E-05	7.00E-06	1.25E-08	-1.16E-05	7.00E-06	1.25E-08	-1.05E-05	7.00E-06	1.25E-08	-8.65E-06
		60"	1.25E-07	8.00E-06	1.34E-08	-1.34E-05	8.00E-06	1.34E-08	-1.27E-05	8.00E-06	1.34E-08	-3.90E-05	8.00E-06	1.34E-08	-1.42E-05	8.00E-06	1.34E-08	-1.26E-05	8.00E-06	1.34E-08	-1.15E-05	8.00E-06	1.34E-08	-9.66E-06
	72"	1.24E-07	1.00E-05	1.62E-08	-1.54E-05	1.00E-05	1.62E-08	-1.47E-05	1.00E-05	1.62E-08	-4.10E-05	1.00E-05	1.62E-08	-1.62E-05	1.00E-05	1.62E-08	-1.46E-05	1.00E-05	1.62E-08	-1.35E-05	1.00E-05	1.62E-08	-1.17E-05	
	Northern Europe	36"	1.28E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	-1.60E-05	7.00E-06	1.19E-08	-1.33E-05	-	-	-	7.00E-06	1.19E-08	-1.11E-05	7.00E-06	1.19E-08	-9.49E-06
		48"	1.24E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	-1.60E-05	7.00E-06	1.25E-08	-1.32E-05	-	-	-	7.00E-06	1.25E-08	-1.11E-05	7.00E-06	1.25E-08	-9.48E-06
		60"	1.26E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.70E-05	8.00E-06	1.34E-08	-1.42E-05	-	-	-	8.00E-06	1.34E-08	-1.21E-05	8.00E-06	1.34E-08	-1.05E-05
	72"	1.24E-07	-	-	-	-	-	-	1.00E-05	1.62E-08	-1.90E-05	1.00E-05	1.62E-08	-1.63E-05	-	-	-	1.00E-05	1.62E-08	-1.41E-05	1.00E-05	1.62E-08	-1.25E-05	
	Scandinavia	36"	1.25E-07	7.00E-06	1.19E-08	-1.36E-05	7.00E-06	1.19E-08	-1.37E-05	7.00E-06	1.19E-08	-1.98E-05	7.00E-06	1.19E-08	-1.57E-05	7.00E-06	1.19E-08	-1.41E-05	7.00E-06	1.19E-08	-1.31E-05	7.00E-06	1.19E-08	-1.06E-05
		48"	1.21E-07	7.00E-06	1.25E-08	-1.36E-05	7.00E-06	1.25E-08	-1.37E-05	7.00E-06	1.25E-08	-1.98E-05	7.00E-06	1.25E-08	-1.57E-05	7.00E-06	1.25E-08	-1.41E-05	7.00E-06	1.25E-08	-1.31E-05	7.00E-06	1.25E-08	-1.06E-05
		60"	1.23E-07	8.00E-06	1.34E-08	-1.46E-05	8.00E-06	1.34E-08	-1.47E-05	8.00E-06	1.34E-08	-2.08E-05	8.00E-06	1.34E-08	-1.67E-05	8.00E-06	1.34E-08	-1.51E-05	8.00E-06	1.34E-08	-1.41E-05	8.00E-06	1.34E-08	-1.16E-05
	72"	1.21E-07	1.00E-05	1.62E-08	-1.66E-05	1.00E-05	1.62E-08	-1.67E-05	1.00E-05	1.62E-08	-2.28E-05	1.00E-05	1.62E-08	-1.87E-05	1.00E-05	1.62E-08	-1.71E-05	1.00E-05	1.62E-08	-1.61E-05	1.00E-05	1.62E-08	-1.36E-05	
	Southern Europe	36"	1.28E-07	7.00E-06	1.19E-08	3.16E-06	7.00E-06	1.19E-08	1.59E-06	7.00E-06	1.19E-08	1.19E-05	-	-	-	7.00E-06	1.19E-08	9.35E-06	7.00E-06	1.19E-08	5.52E-06	7.00E-06	1.19E-08	-5.57E-07
		48"	1.24E-07	7.00E-06	1.25E-08	3.16E-06	7.00E-06	1.25E-08	1.60E-06	7.00E-06	1.25E-08	1.19E-05	-	-	-	7.00E-06	1.25E-08	9.36E-06	7.00E-06	1.25E-08	5.52E-06	7.00E-06	1.25E-08	-5.53E-07
		60"	1.26E-07	8.00E-06	1.34E-08	2.16E-06	8.00E-06	1.34E-08	5.93E-07	8.00E-06	1.34E-08	1.09E-05	-	-	-	8.00E-06	1.34E-08	8.35E-06	8.00E-06	1.34E-08	4.52E-06	8.00E-06	1.34E-08	-1.56E-06
	72"	1.25E-07	1.00E-05	1.62E-08	1.60E-07	1.00E-05	1.62E-08	-1.41E-06	1.00E-05	1.62E-08	8.86E-06	-	-	-	1.00E-05	1.62E-08	6.35E-06	1.00E-05	1.62E-08	2.52E-06	1.00E-05	1.62E-08	-3.56E-06	
	United Kingdom	36"	1.22E-07	7.00E-06	1.19E-08	-9.73E-06	7.00E-06	1.19E-08	-9.54E-06	7.00E-06	1.19E-08	-1.25E-05	7.00E-06	1.19E-08	-1.05E-05	7.00E-06	1.19E-08	-9.59E-06	7.00E-06	1.19E-08	-9.15E-06	7.00E-06	1.19E-08	-8.11E-06
		48"	1.18E-07	7.00E-06	1.25E-08	-9.72E-06	7.00E-06	1.25E-08	-9.53E-06	7.00E-06	1.25E-08	-1.25E-05	7.00E-06	1.25E-08	-1.05E-05	7.00E-06	1.25E-08	-9.58E-06	7.00E-06	1.25E-08	-9.15E-06	7.00E-06	1.25E-08	-8.11E-06
		60"	1.20E-07	8.00E-06	1.34E-08	-1.07E-05	8.00E-06	1.34E-08	-1.05E-05	8.00E-06	1.34E-08	-1.35E-05	8.00E-06	1.34E-08	-1.15E-05	8.00E-06	1.34E-08	-1.06E-05	8.00E-06	1.34E-08	-1.02E-05	8.00E-06	1.34E-08	-9.11E-06
	72"	1.18E-07	1.00E-05	1.62E-08	-1.27E-05	1.00E-05	1.62E-08	-1.25E-05	1.00E-05	1.62E-08	-1.55E-05	1.00E-05	1.62E-08	-1.35E-05	1.00E-05	1.62E-08	-1.26E-05	1.00E-05	1.62E-08	-1.22E-05	1.00E-05	1.62E-08	-1.11E-05	

TABLE 79: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN ASIA

15 Year Lifecycle (kg CFC-11e / Meter^2)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	
Asia	North-East China	36"	1.39E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	-1.52E-05	-	-	-
		60"	1.38E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	-2.92E-05	-	-	-
	South-East China	72"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.39E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	-7.08E-06	-	-	-
	India	60"	1.38E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	-2.11E-05	-	-	-
		72"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.76E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	48"	1.70E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	1.75E-05	-	-	-
		60"	1.74E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	3.49E-06	-	-	-
		72"	1.71E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	1.23E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.19E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	-1.97E-07	-	-	-
		60"	1.21E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	-1.42E-05	-	-	-
	Russia	72"	1.16E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.81E-07	-	-	-	7.00E-06	1.19E-08	3.48E-05	-	-	-	-	-	7.00E-06	1.19E-08	3.23E-05	6.00E-06	1.19E-08	3.03E-05	-	-	-	-	-	-	-
		48"	1.75E-07	-	-	-	7.00E-06	1.25E-08	3.48E-05	-	-	-	-	-	7.00E-06	1.25E-08	3.23E-05	6.00E-06	1.25E-08	3.03E-05	1.00E-06	1.25E-08	2.46E-05	-	-	-	-
	China, Mid-East Coast	60"	1.79E-07	-	-	-	8.00E-06	1.34E-08	3.38E-05	-	-	-	-	-	8.00E-06	1.34E-08	3.13E-05	7.00E-06	1.34E-08	2.93E-05	1.50E-05	1.34E-08	1.06E-05	-	-	-	-
		72"	1.76E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.35E-07	-	-	-	7.00E-06	1.19E-08	-1.86E-05	7.00E-06	1.19E-08	-1.73E-05	6.00E-06	1.19E-08	-1.32E-05	7.00E-06	1.19E-08	-1.46E-05	6.00E-06	1.19E-08	-1.32E-05	-	-	-	6.00E-06	1.19E-08	-1.66E-05
	Turkey	48"	1.31E-07	-	-	-	7.00E-06	1.25E-08	-1.86E-05	7.00E-06	1.25E-08	-1.73E-05	6.00E-06	1.25E-08	-1.32E-05	7.00E-06	1.25E-08	-1.46E-05	6.00E-06	1.25E-08	-1.32E-05	-	-	-	6.00E-06	1.25E-08	-1.66E-05
		60"	1.33E-07	-	-	-	8.00E-06	1.34E-08	-1.96E-05	8.00E-06	1.34E-08	-1.83E-05	7.00E-06	1.34E-08	-1.42E-05	8.00E-06	1.34E-08	-1.56E-05	7.00E-06	1.34E-08	-1.42E-05	-	-	-	7.00E-06	1.34E-08	-1.76E-05
		72"	1.31E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-1.96E-05
	Turkey	36"	1.39E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	-1.18E-05	-	-	-
		60"	1.38E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	-2.58E-05	-	-	-
	Turkey	72"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		36"	1.54E-07	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	2.83E-05	-	-	-	-	-	-	-	-	-	-
		48"	1.49E-07	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	2.83E-05	-	-	-	-	-	-	-	-	-	-
	Turkey	60"	1.52E-07	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	2.73E-05	-	-	-	-	-	-	-	-	-	-
		72"	1.50E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	3.21E-05	-	-	-

TABLE 80: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter^2)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30			
			Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved
Asia	North-East China	36"	1.39E-07	-	-	-	7.00E-06	1.19E-08	-3.17E-05	7.00E-06	1.19E-08	-2.55E-05	7.00E-06	1.19E-08	-1.92E-05	7.00E-06	1.19E-08	-1.97E-05	-	-	-	-	-	-	-	-	-
		48"	1.35E-07	-	-	-	7.00E-06	1.25E-08	-3.17E-05	7.00E-06	1.25E-08	-2.55E-05	7.00E-06	1.25E-08	-1.92E-05	7.00E-06	1.25E-08	-1.97E-05	-	-	-	-	-	-	-	-	-
		60"	1.38E-07	-	-	-	8.00E-06	1.34E-08	-3.27E-05	8.00E-06	1.34E-08	-2.65E-05	8.00E-06	1.34E-08	-2.02E-05	8.00E-06	1.34E-08	-2.07E-05	-	-	-	-	-	-	-	-	-
	South-East China	36"	1.39E-07	-	-	-	7.00E-06	1.19E-08	-1.94E-05	7.00E-06	1.19E-08	-1.63E-05	7.00E-06	1.19E-08	-1.16E-05	7.00E-06	1.19E-08	-1.98E-05	-	-	-	-	-	-	-	-	-
		48"	1.35E-07	-	-	-	7.00E-06	1.25E-08	-1.94E-05	7.00E-06	1.25E-08	-1.63E-05	7.00E-06	1.25E-08	-1.16E-05	7.00E-06	1.25E-08	-1.98E-05	-	-	-	-	-	-	-	-	-
		60"	1.38E-07	-	-	-	8.00E-06	1.34E-08	-2.04E-05	8.00E-06	1.34E-08	-1.73E-05	8.00E-06	1.34E-08	-1.26E-05	8.00E-06	1.34E-08	-2.08E-05	-	-	-	-	-	-	-	-	-
	India	36"	1.76E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.70E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.74E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	1.23E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.53E-08	-7.62E-06
		48"	1.19E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.59E-08	-7.61E-06
		60"	1.21E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.68E-08	-8.62E-06
	Middle East	36"	1.16E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.81E-07	-	-	-	7.00E-06	1.19E-08	3.21E-05	7.00E-06	1.19E-08	2.61E-05	7.00E-06	1.19E-08	1.63E-05	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.75E-07	-	-	-	7.00E-06	1.25E-08	3.21E-05	7.00E-06	1.25E-08	2.61E-05	7.00E-06	1.25E-08	1.63E-05	-	-	-	-	-	-	-	-	-	-	-	-
	Russia	36"	1.79E-07	-	-	-	8.00E-06	1.34E-08	3.11E-05	8.00E-06	1.34E-08	2.51E-05	8.00E-06	1.34E-08	1.53E-05	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.76E-07	-	-	-	1.00E-05	1.62E-08	2.91E-05	1.00E-05	1.62E-08	2.31E-05	1.00E-05	1.62E-08	1.33E-05	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.35E-07	-	-	-	7.00E-06	1.19E-08	-1.70E-05	7.00E-06	1.19E-08	-1.47E-05	7.00E-06	1.19E-08	-1.01E-05	-	-	-	-	-	-	-	-	-	-	-	-
	China, Mid-East Coast	36"	1.31E-07	-	-	-	7.00E-06	1.25E-08	-1.70E-05	7.00E-06	1.25E-08	-1.47E-05	7.00E-06	1.25E-08	-1.01E-05	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.33E-07	-	-	-	8.00E-06	1.34E-08	-1.80E-05	8.00E-06	1.34E-08	-1.57E-05	8.00E-06	1.34E-08	-1.11E-05	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.31E-07	-	-	-	1.00E-05	1.62E-08	-2.00E-05	1.00E-05	1.62E-08	-1.77E-05	1.00E-05	1.62E-08	-1.31E-05	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	1.39E-07	-	-	-	7.00E-06	1.19E-08	-2.37E-05	7.00E-06	1.19E-08	-2.07E-05	7.00E-06	1.19E-08	-1.60E-05	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.35E-07	-	-	-	7.00E-06	1.25E-08	-2.37E-05	7.00E-06	1.25E-08	-2.07E-05	7.00E-06	1.25E-08	-1.60E-05	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.38E-07	-	-	-	8.00E-06	1.34E-08	-2.47E-05	8.00E-06	1.34E-08	-2.17E-05	8.00E-06	1.34E-08	-1.70E-05	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	1.35E-07	-	-	-	1.00E-05	1.62E-08	-2.67E-05	1.00E-05	1.62E-08	-2.37E-05	1.00E-05	1.62E-08	-1.90E-05	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.54E-07	-	-	-	7.00E-06	1.19E-08	4.73E-05	7.00E-06	1.19E-08	4.48E-05	7.00E-06	1.19E-08	3.87E-05	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.49E-07	-	-	-	7.00E-06	1.25E-08	4.74E-05	7.00E-06	1.25E-08	4.48E-05	7.00E-06	1.25E-08	3.87E-05	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	1.52E-07	-	-	-	8.00E-06	1.34E-08	4.64E-05	8.00E-06	1.34E-08	4.38E-05	8.00E-06	1.34E-08	3.77E-05	-	-	-	-	-	-	-	-	-	-	-	-
48"		1.50E-07	-	-	-	1.00E-05	1.62E-08	4.43E-05	1.00E-05	1.62E-08	4.18E-05	1.00E-05	1.62E-08	3.57E-05	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 81: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	
Asia	North-East China	36"	1.39E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	-3.21E-05	7.00E-06	1.19E-08	-2.56E-05	7.00E-06	1.19E-08	-2.20E-05	
		48"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	-3.21E-05	7.00E-06	1.25E-08	-2.56E-05	7.00E-06	1.25E-08	-2.20E-05
		60"	1.38E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	-3.31E-05	8.00E-06	1.34E-08	-2.66E-05	8.00E-06	1.34E-08	-2.30E-05
		72"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-3.51E-05	1.00E-05	1.62E-08	-2.86E-05	1.00E-05	1.62E-08	-2.50E-05
	South-East China	36"	1.39E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	-2.08E-05	7.00E-06	1.19E-08	-1.67E-05	7.00E-06	1.19E-08	-1.40E-05
		48"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	-2.08E-05	7.00E-06	1.25E-08	-1.67E-05	7.00E-06	1.25E-08	-1.40E-05
		60"	1.38E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	-2.18E-05	8.00E-06	1.34E-08	-1.77E-05	8.00E-06	1.34E-08	-1.50E-05
		72"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-2.38E-05	1.00E-05	1.62E-08	-1.97E-05	1.00E-05	1.62E-08	-1.70E-05
	India	36"	1.76E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.70E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.74E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.71E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	1.23E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.19E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.21E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.16E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	1.81E-07	-	-	-	-	-	7.00E-06	1.19E-08	3.57E-05	7.00E-06	1.19E-08	2.95E-05	7.00E-06	1.19E-08	2.42E-05	6.00E-06	1.19E-08	3.46E-05	7.00E-06	1.19E-08	2.40E-05	7.00E-06	1.19E-08	1.83E-05	
		48"	1.75E-07	-	-	-	-	-	7.00E-06	1.25E-08	3.57E-05	7.00E-06	1.25E-08	2.95E-05	7.00E-06	1.25E-08	2.42E-05	6.00E-06	1.25E-08	3.46E-05	7.00E-06	1.25E-08	2.41E-05	7.00E-06	1.25E-08	1.83E-05	
		60"	1.79E-07	-	-	-	-	-	8.00E-06	1.34E-08	3.47E-05	8.00E-06	1.34E-08	2.85E-05	8.00E-06	1.34E-08	2.32E-05	7.00E-06	1.34E-08	3.36E-05	8.00E-06	1.34E-08	2.30E-05	8.00E-06	1.34E-08	1.73E-05	
		72"	1.76E-07	-	-	-	-	-	1.00E-05	1.62E-08	3.27E-05	1.00E-05	1.62E-08	2.65E-05	1.00E-05	1.62E-08	2.12E-05	9.00E-06	1.62E-08	3.16E-05	1.00E-05	1.62E-08	2.10E-05	1.00E-05	1.62E-08	1.53E-05	
	Russia	36"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	-1.38E-05	7.00E-06	1.19E-08	-1.34E-05	7.00E-06	1.19E-08	-1.39E-05	
		48"	1.31E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	-1.38E-05	7.00E-06	1.25E-08	-1.33E-05	7.00E-06	1.25E-08	-1.39E-05	
		60"	1.33E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	-1.48E-05	8.00E-06	1.34E-08	-1.44E-05	8.00E-06	1.34E-08	-1.49E-05	
		72"	1.31E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-1.68E-05	1.00E-05	1.62E-08	-1.64E-05	1.00E-05	1.62E-08	-1.69E-05	
	China, Mid-East Coast	36"	1.39E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	-2.58E-05	7.00E-06	1.19E-08	-2.19E-05	7.00E-06	1.19E-08	-1.90E-05	
		48"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	-2.58E-05	7.00E-06	1.25E-08	-2.19E-05	7.00E-06	1.25E-08	-1.90E-05	
		60"	1.38E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	-2.68E-05	8.00E-06	1.34E-08	-2.29E-05	8.00E-06	1.34E-08	-2.00E-05	
		72"	1.35E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	-2.88E-05	1.00E-05	1.62E-08	-2.49E-05	1.00E-05	1.62E-08	-2.20E-05	
Turkey	36"	1.54E-07	-	-	-	-	-	7.00E-06	1.19E-08	4.89E-05	-	-	-	-	-	-	7.00E-06	1.19E-08	-	7.00E-06	1.19E-08	4.22E-05	-	-	-		
	48"	1.49E-07	-	-	-	-	-	7.00E-06	1.25E-08	4.89E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	4.22E-05	-	-	-		
	60"	1.52E-07	-	-	-	-	-	8.00E-06	1.34E-08	4.79E-05	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	4.12E-05	-	-	-		
	72"	1.50E-07	-	-	-	-	-	1.00E-05	1.62E-08	4.59E-05	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	3.92E-05	-	-	-		

TABLE 82: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)	All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70						
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved	Manufacturing	End-of-Life	Net CFC-11e Saved			
Asia	0	36"	1.35E-07	7.00E-06	1.19E-08	-1.94E-05	7.00E-06	1.19E-08	-1.79E-05	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	-1.66E-05	7.00E-06	1.19E-08	-1.27E-05			
		48"	1.38E-07	7.00E-06	1.25E-08	-1.94E-05	7.00E-06	1.25E-08	-1.79E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	-1.66E-05	7.00E-06	1.25E-08	-1.26E-05		
		60"	1.35E-07	8.00E-06	1.34E-08	-2.04E-05	8.00E-06	1.34E-08	-1.89E-05	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.76E-05	8.00E-06	1.34E-08	-1.37E-05		
		72"	1.39E-07	1.00E-05	1.62E-08	-2.24E-05	1.00E-05	1.62E-08	-2.09E-05	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	-1.96E-05	1.00E-05	1.62E-08	-1.57E-05		
	0	36"	1.35E-07	7.00E-06	1.19E-08	-1.23E-05	7.00E-06	1.19E-08	-1.15E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	-9.59E-06	7.00E-06	1.19E-08	-8.59E-06		
		48"	1.38E-07	7.00E-06	1.25E-08	-1.23E-05	7.00E-06	1.25E-08	-1.15E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	-9.59E-06	7.00E-06	1.25E-08	-8.59E-06		
		60"	1.35E-07	8.00E-06	1.34E-08	-1.33E-05	8.00E-06	1.34E-08	-1.25E-05	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.06E-05	8.00E-06	1.34E-08	-9.59E-06		
		72"	1.76E-07	1.00E-05	1.62E-08	-1.53E-05	1.00E-05	1.62E-08	-1.45E-05	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	-1.26E-05	1.00E-05	1.62E-08	-1.16E-05		
	0	36"	1.70E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	1.23E-05	-	-	-	7.00E-06	1.19E-08	2.55E-06
		48"	1.74E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	1.23E-05	-	-	-	7.00E-06	1.25E-08	2.55E-06
		60"	1.71E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	1.13E-05	-	-	-	8.00E-06	1.34E-08	1.55E-06
		72"	1.23E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	9.28E-06	-	-	-	1.00E-05	1.62E-08	-4.54E-07
	0	36"	1.19E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	-7.36E-06	7.00E-06	1.19E-08	-5.78E-06	7.00E-06	1.19E-08	-5.32E-06	7.00E-06	1.19E-08	-5.73E-06	7.00E-06	1.19E-08	-4.95E-06		
		48"	1.21E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	-7.36E-06	7.00E-06	1.25E-08	-5.77E-06	7.00E-06	1.25E-08	-5.32E-06	7.00E-06	1.25E-08	-5.73E-06	7.00E-06	1.25E-08	-4.95E-06		
		60"	1.16E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	-8.36E-06	8.00E-06	1.34E-08	-6.78E-06	8.00E-06	1.34E-08	-6.32E-06	8.00E-06	1.34E-08	-6.73E-06	8.00E-06	1.34E-08	-5.95E-06		
		72"	1.81E-07	-	-	-	-	-	-	1.00E-05	1.62E-08	-1.04E-05	1.00E-05	1.62E-08	-8.77E-06	1.00E-05	1.62E-08	-8.32E-06	1.00E-05	1.62E-08	-8.73E-06	1.00E-05	1.62E-08	-7.95E-06		
	0	36"	1.75E-07	7.00E-06	1.19E-08	1.36E-05	7.00E-06	1.19E-08	1.10E-05	7.00E-06	1.19E-08	3.34E-05	7.00E-06	1.19E-08	2.44E-05	7.00E-06	1.19E-08	1.96E-05	7.00E-06	1.19E-08	1.13E-05	7.00E-06	1.19E-08	6.12E-06		
		48"	1.79E-07	7.00E-06	1.25E-08	1.36E-05	7.00E-06	1.25E-08	1.10E-05	7.00E-06	1.25E-08	3.34E-05	7.00E-06	1.25E-08	2.44E-05	7.00E-06	1.25E-08	1.96E-05	7.00E-06	1.25E-08	1.13E-05	7.00E-06	1.25E-08	6.12E-06		
		60"	1.76E-07	8.00E-06	1.34E-08	1.26E-05	8.00E-06	1.34E-08	1.00E-05	8.00E-06	1.34E-08	3.24E-05	8.00E-06	1.34E-08	2.34E-05	8.00E-06	1.34E-08	1.86E-05	8.00E-06	1.34E-08	1.03E-05	8.00E-06	1.34E-08	5.12E-06		
		72"	1.35E-07	1.00E-05	1.62E-08	1.06E-05	1.00E-05	1.62E-08	8.03E-06	1.00E-05	1.62E-08	3.04E-05	1.00E-05	1.62E-08	2.14E-05	1.00E-05	1.62E-08	1.66E-05	1.00E-05	1.62E-08	8.32E-06	1.00E-05	1.62E-08	3.12E-06		
	0	36"	1.31E-07	7.00E-06	1.19E-08	-1.28E-05	7.00E-06	1.19E-08	-1.30E-05	7.00E-06	1.19E-08	-1.75E-05	7.00E-06	1.19E-08	-1.38E-05	-	-	-	7.00E-06	1.19E-08	-1.17E-05	7.00E-06	1.19E-08	-9.45E-06		
		48"	1.33E-07	7.00E-06	1.25E-08	-1.28E-05	7.00E-06	1.25E-08	-1.30E-05	7.00E-06	1.25E-08	-1.75E-05	7.00E-06	1.25E-08	-1.38E-05	-	-	-	7.00E-06	1.25E-08	-1.17E-05	7.00E-06	1.25E-08	-9.44E-06		
		60"	1.31E-07	8.00E-06	1.34E-08	-1.38E-05	8.00E-06	1.34E-08	-1.40E-05	8.00E-06	1.34E-08	-1.85E-05	8.00E-06	1.34E-08	-1.48E-05	-	-	-	8.00E-06	1.34E-08	-1.27E-05	8.00E-06	1.34E-08	-1.04E-05		
		72"	1.39E-07	1.00E-05	1.62E-08	-1.58E-05	1.00E-05	1.62E-08	-1.60E-05	1.00E-05	1.62E-08	-2.05E-05	1.00E-05	1.62E-08	-1.68E-05	-	-	-	1.00E-05	1.62E-08	-1.47E-05	1.00E-05	1.62E-08	-1.24E-05		
	0	36"	1.35E-07	7.00E-06	1.19E-08	-1.69E-05	7.00E-06	1.19E-08	-1.56E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	-1.37E-05	7.00E-06	1.19E-08	-1.08E-05		
		48"	1.38E-07	7.00E-06	1.25E-08	-1.69E-05	7.00E-06	1.25E-08	-1.56E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	-1.37E-05	7.00E-06	1.25E-08	-1.08E-05		
		60"	1.35E-07	8.00E-06	1.34E-08	-1.79E-05	8.00E-06	1.34E-08	-1.66E-05	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	-1.47E-05	8.00E-06	1.34E-08	-1.18E-05		
		72"	1.54E-07	1.00E-05	1.62E-08	-1.99E-05	1.00E-05	1.62E-08	-1.86E-05	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	-1.67E-05	1.00E-05	1.62E-08	-1.38E-05		
0	36"	1.49E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	4.19E-05	7.00E-06	1.19E-08	3.51E-05	-			
	48"	1.52E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	4.19E-05	7.00E-06	1.25E-08	3.51E-05	-			
	60"	1.50E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	4.09E-05	8.00E-06	1.34E-08	3.41E-05	-			
	72"	0.00E+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	3.89E-05	1.00E-05	1.62E-08	3.21E-05	-			

TABLE 83: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN THE SOUTHERN HEMISPHERE

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	
Southern Hemisphere	Southern Africa	36"	2.15E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	2.09E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00E-06	1.25E-08	5.70E-05	-	-	-
		60"	2.13E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-05	1.34E-08	4.30E-05	-	-	-
		72"	2.10E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.31E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	1.33E-05	6.00E-06	1.19E-08	1.53E-05	-	-	-	6.00E-06	1.19E-08	1.48E-05	-	-	-	6.00E-06	1.19E-08	1.53E-05
		48"	1.28E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	1.33E-05	6.00E-06	1.25E-08	1.53E-05	-	-	-	6.00E-06	1.25E-08	1.48E-05	1.00E-06	1.25E-08	1.45E-05	6.00E-06	1.25E-08	1.53E-05
		60"	1.29E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	1.23E-05	7.00E-06	1.34E-08	1.43E-05	-	-	-	7.00E-06	1.34E-08	1.38E-05	1.50E-05	1.34E-08	4.71E-07	7.00E-06	1.34E-08	1.43E-05
		72"	1.28E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	1.23E-05
	Australia	36"	1.72E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.67E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.70E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.68E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Brazil	36"	1.24E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	5.50E-06	6.00E-06	1.19E-08	7.12E-06	-	-	-	6.00E-06	1.19E-08	7.19E-06	-	-	-	6.00E-06	1.19E-08	7.64E-06
		48"	1.21E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	5.50E-06	6.00E-06	1.25E-08	7.13E-06	-	-	-	6.00E-06	1.25E-08	7.19E-06	1.00E-06	1.25E-08	8.61E-06	6.00E-06	1.25E-08	7.64E-06
		60"	1.22E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	4.50E-06	7.00E-06	1.34E-08	6.12E-06	-	-	-	7.00E-06	1.34E-08	6.19E-06	1.50E-05	1.34E-08	-5.39E-06	7.00E-06	1.34E-08	6.64E-06
		72"	1.21E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	4.64E-06

TABLE 84: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved		
		36"		48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"	36"	48"	60"	72"
Southern Hemisphere	Southern Africa	36"	2.15E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	2.09E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	2.13E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	2.10E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.31E-07	7.00E-06	1.19E-08	1.19E-05	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.53E-08	1.28E-05	8.00E-06	1.53E-08	1.19E-05	-	-	-
		48"	1.28E-07	7.00E-06	1.25E-08	1.19E-05	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.59E-08	1.28E-05	8.00E-06	1.59E-08	1.19E-05	-	-	-
		60"	1.29E-07	8.00E-06	1.34E-08	1.09E-05	-	-	-	-	-	-	-	-	-	-	-	9.00E-06	1.68E-08	1.18E-05	9.00E-06	1.68E-08	1.09E-05	-	-	-
		72"	1.28E-07	1.00E-05	1.62E-08	8.89E-06	-	-	-	-	-	-	-	-	-	-	-	1.00E-05	1.74E-08	1.08E-05	1.00E-05	1.74E-08	8.89E-06	-	-	-
	Australia	36"	1.72E-07	-	-	-	7.00E-06	1.19E-08	-5.10E-06	7.00E-06	1.19E-08	-4.94E-06	-	-	-	-	-	8.00E-06	1.53E-08	-1.02E-05	8.00E-06	1.53E-08	-8.87E-06	-	-	-
		48"	1.67E-07	-	-	-	7.00E-06	1.25E-08	-5.09E-06	7.00E-06	1.25E-08	-4.94E-06	-	-	-	-	-	8.00E-06	1.59E-08	-1.02E-05	8.00E-06	1.59E-08	-8.87E-06	-	-	-
		60"	1.70E-07	-	-	-	8.00E-06	1.34E-08	-6.10E-06	8.00E-06	1.34E-08	-5.94E-06	-	-	-	-	-	9.00E-06	1.68E-08	-1.12E-05	9.00E-06	1.68E-08	-9.87E-06	-	-	-
		72"	1.68E-07	-	-	-	1.00E-05	1.62E-08	-8.10E-06	1.00E-05	1.62E-08	-7.94E-06	-	-	-	-	-	1.00E-05	1.74E-08	-1.22E-05	1.00E-05	1.74E-08	-1.09E-05	-	-	-
Brazil	36"	1.24E-07	-	-	-	7.00E-06	1.19E-08	7.27E-06	-	-	-	-	-	-	-	-	8.00E-06	1.53E-08	5.73E-06	-	-	-	-	-	-	
	48"	1.21E-07	-	-	-	7.00E-06	1.25E-08	7.27E-06	-	-	-	-	-	-	-	-	8.00E-06	1.59E-08	5.73E-06	-	-	-	-	-	-	
	60"	1.22E-07	-	-	-	8.00E-06	1.34E-08	6.27E-06	-	-	-	-	-	-	-	-	9.00E-06	1.68E-08	4.73E-06	-	-	-	-	-	-	
	72"	1.21E-07	-	-	-	8.00E-06	1.62E-08	4.27E-06	-	-	-	-	-	-	-	-	1.00E-05	1.74E-08	3.73E-06	-	-	-	-	-	-	

TABLE 85: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films			Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30							
		Transportation to Customer	Manufacturing		End-of-Life		Net CFC-11ee Saved		Manufacturing		End-of-Life		Net CFC-11ee Saved		Manufacturing		End-of-Life		Net CFC-11ee Saved		Manufacturing		End-of-Life		Net CFC-11ee Saved		Manufacturing		End-of-Life		Net CFC-11ee Saved		
Southern Hemisphere	Southern Africa	36"	2.15E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	2.09E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	2.10E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.31E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	1.52E-05	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	1.64E-05	7.00E-06	1.19E-08	1.21E-05	7.00E-06	1.19E-08	8.57E-06	7.00E-06	1.19E-08	8.57E-06
		48"	1.28E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	1.52E-05	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	1.64E-05	7.00E-06	1.25E-08	1.21E-05	7.00E-06	1.25E-08	8.58E-06	7.00E-06	1.25E-08	8.58E-06
		72"	1.29E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	1.42E-05	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	1.54E-05	8.00E-06	1.34E-08	1.11E-05	8.00E-06	1.34E-08	7.57E-06	8.00E-06	1.34E-08	7.57E-06
	Australia	36"	1.28E-07	-	-	-	-	-	-	1.00E-05	1.62E-08	1.22E-05	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	1.34E-05	1.00E-05	1.62E-08	9.09E-06	1.00E-05	1.62E-08	5.57E-06	1.00E-05	1.62E-08	5.57E-06
		48"	1.72E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	-5.22E-06	7.00E-06	1.19E-08	-4.41E-06	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	-6.83E-06	-	-	-	-	-	-
		60"	1.67E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	-5.21E-06	7.00E-06	1.25E-08	-4.41E-06	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	-6.82E-06	-	-	-	-	-	-
		72"	1.70E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	-6.22E-06	8.00E-06	1.34E-08	-5.41E-06	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	-7.82E-06	-	-	-	-	-	-
	Brazil	36"	1.68E-07	-	-	-	-	-	-	1.00E-05	1.62E-08	-8.22E-06	1.00E-05	1.62E-08	-7.41E-06	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	-9.83E-06	-	-	-	-	-	-
		48"	1.24E-07	-	-	-	-	-	-	7.00E-06	1.19E-08	7.37E-06	-	-	-	-	-	-	-	-	-	6.00E-06	1.19E-08	8.35E-06	7.00E-06	1.19E-08	4.77E-06	7.00E-06	1.19E-08	2.53E-06	7.00E-06	1.19E-08	2.53E-06
60"		1.21E-07	-	-	-	-	-	-	7.00E-06	1.25E-08	7.37E-06	-	-	-	-	-	-	-	-	-	6.00E-06	1.25E-08	8.36E-06	7.00E-06	1.25E-08	4.77E-06	7.00E-06	1.25E-08	2.53E-06	7.00E-06	1.25E-08	2.53E-06	
72"		1.22E-07	-	-	-	-	-	-	8.00E-06	1.34E-08	6.37E-06	-	-	-	-	-	-	-	-	-	7.00E-06	1.34E-08	7.35E-06	8.00E-06	1.34E-08	3.77E-06	8.00E-06	1.34E-08	1.53E-06	8.00E-06	1.34E-08	1.53E-06	
72"	1.21E-07	-	-	-	-	-	-	1.00E-05	1.62E-08	4.37E-06	-	-	-	-	-	-	-	-	-	9.00E-06	1.62E-08	5.35E-06	1.00E-05	1.62E-08	1.77E-06	1.00E-05	1.62E-08	-4.75E-07	1.00E-05	1.62E-08	-4.75E-07		

TABLE 86: EMBODIED CFC-11E & NET CFC-11E SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg CFC-11e / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70				
		Transportation to Customer	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved	Manufacturing	End-of-Life	Net CFC-11ee Saved		
Southern Hemisphere	Southern Africa	36"	2.15E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	2.09E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	2.13E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	2.10E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	1.31E-07	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	9.74E-06	-	-	-	7.00E-06	1.19E-08	1.54E-06	-	-
		48"	1.28E-07	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	9.74E-06	-	-	-	7.00E-06	1.25E-08	1.54E-06	-	-
		60"	1.29E-07	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	8.74E-06	-	-	-	8.00E-06	1.34E-08	5.38E-07	-	-
		72"	1.28E-07	-	-	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	6.74E-06	-	-	-	1.00E-05	1.62E-08	-1.46E-06	-	-
	Australia	36"	1.72E-07	7.00E-06	1.19E-08	-6.76E-06	7.00E-06	1.19E-08	-6.68E-06	7.00E-06	1.19E-08	2.95E-06	7.00E-06	1.19E-08	1.60E-06	7.00E-06	1.19E-08	-3.41E-06	7.00E-06	1.19E-08	-4.99E-06	7.00E-06	1.19E-08	-4.47E-06	-
		48"	1.67E-07	7.00E-06	1.25E-08	-6.75E-06	7.00E-06	1.25E-08	-6.67E-06	7.00E-06	1.25E-08	2.96E-06	7.00E-06	1.25E-08	1.61E-06	7.00E-06	1.25E-08	-3.41E-06	7.00E-06	1.25E-08	-4.99E-06	7.00E-06	1.25E-08	-4.46E-06	-
		60"	1.70E-07	8.00E-06	1.34E-08	-7.75E-06	8.00E-06	1.34E-08	-7.68E-06	8.00E-06	1.34E-08	1.95E-06	8.00E-06	1.34E-08	6.04E-07	8.00E-06	1.34E-08	-4.41E-06	8.00E-06	1.34E-08	-5.99E-06	8.00E-06	1.34E-08	-5.47E-06	-
		72"	1.68E-07	1.00E-05	1.62E-08	-9.75E-06	1.00E-05	1.62E-08	-9.68E-06	1.00E-05	1.62E-08	-4.88E-08	1.00E-05	1.62E-08	-1.40E-06	1.00E-05	1.62E-08	-6.41E-06	1.00E-05	1.62E-08	-7.99E-06	1.00E-05	1.62E-08	-7.47E-06	-
	Brazil	36"	1.24E-07	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.19E-08	4.03E-06	-	-	-	7.00E-06	1.19E-08	-1.89E-06	-	-
		48"	1.21E-07	-	-	-	-	-	-	-	-	-	-	-	7.00E-06	1.25E-08	4.04E-06	-	-	-	7.00E-06	1.25E-08	-1.89E-06	-	-
		60"	1.22E-07	-	-	-	-	-	-	-	-	-	-	-	8.00E-06	1.34E-08	3.03E-06	-	-	-	8.00E-06	1.34E-08	-2.89E-06	-	-
		72"	1.21E-07	-	-	-	-	-	-	-	-	-	-	-	1.00E-05	1.62E-08	1.03E-06	-	-	-	1.00E-05	1.62E-08	-4.89E-06	-	-

PHOTOCHEMICAL OXIDATION:

Tables 87 to 102 below show the C₂H₄ emissions embodied in one m² of film, and the photochemical oxidation reductions in kg of C₂H₄ for all the types of window films sold in each of the 24 geographic regions where SGS window films are distributed.

TABLE 87: EMBODIED C2H4 & NET C2H4 SAVINGS IN NORTH AMERICA

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			Highlite 70			Quantum Silver Quantum 10						
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved				
North America	ASHRAE Climate Zone 1,2	36"	2.16E-05	1.48E-03	1.72E-05	3.15E-01	1.50E-03	1.72E-05	5.14E-01	1.61E-03	1.72E-05	4.22E-01	1.43E-03	1.72E-05	4.56E-01	1.50E-03	1.72E-05	4.85E-01	1.43E-03	1.72E-05	4.52E-01	-	-	-	1.43E-03	1.72E-05	4.75E-01			
		48"	1.75E-05	1.24E-03	1.34E-05	3.15E-01	1.23E-03	1.34E-05	5.14E-01	1.31E-03	1.34E-05	4.23E-01	1.09E-03	1.34E-05	4.56E-01	1.23E-03	1.34E-05	4.85E-01	1.09E-03	1.34E-05	4.52E-01	3.49E-03	1.34E-05	3.19E-01	1.09E-03	1.34E-05	4.76E-01			
		60"	1.52E-05	1.06E-03	1.16E-05	3.15E-01	1.07E-03	1.16E-05	5.14E-01	1.14E-03	1.16E-05	4.23E-01	9.55E-04	1.16E-05	4.56E-01	1.07E-03	1.16E-05	4.85E-01	9.55E-04	1.16E-05	4.52E-01	2.87E-03	1.16E-05	3.19E-01	9.55E-04	1.16E-05	4.76E-01			
		72"	1.57E-05	1.27E-03	1.16E-05	3.15E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	4.76E-01		
	ASHRAE Climate Zone 3	36"	2.16E-05	1.48E-03	1.72E-05	3.01E-01	1.50E-03	1.72E-05	1.96E-01	1.61E-03	1.72E-05	1.63E-01	1.43E-03	1.72E-05	4.29E-01	1.50E-03	1.72E-05	4.54E-01	1.43E-03	1.72E-05	4.27E-01	-	-	-	-	-	-	1.43E-03	1.72E-05	4.47E-01
		48"	1.75E-05	1.24E-03	1.34E-05	3.01E-01	1.23E-03	1.34E-05	1.97E-01	1.31E-03	1.34E-05	1.63E-01	1.09E-03	1.34E-05	4.30E-01	1.23E-03	1.34E-05	4.55E-01	1.09E-03	1.34E-05	4.27E-01	3.49E-03	1.34E-05	1.22E-01	1.09E-03	1.34E-05	4.47E-01			
		60"	1.52E-05	1.06E-03	1.16E-05	3.01E-01	1.07E-03	1.16E-05	1.97E-01	1.14E-03	1.16E-05	1.63E-01	9.55E-04	1.16E-05	4.30E-01	1.07E-03	1.16E-05	4.55E-01	9.55E-04	1.16E-05	4.27E-01	2.87E-03	1.16E-05	1.22E-01	9.55E-04	1.16E-05	4.48E-01			
		72"	1.57E-05	1.27E-03	1.16E-05	3.01E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	4.48E-01		
	ASHRAE Climate Zone 4	36"	2.16E-05	1.48E-03	1.72E-05	1.69E-01	1.50E-03	1.72E-05	1.02E-01	1.61E-03	1.72E-05	1.06E-01	1.43E-03	1.72E-05	2.36E-01	1.50E-03	1.72E-05	2.47E-01	1.43E-03	1.72E-05	2.30E-01	-	-	-	-	-	-	1.43E-03	1.72E-05	2.40E-01
		48"	1.75E-05	1.24E-03	1.34E-05	1.69E-01	1.23E-03	1.34E-05	1.03E-01	1.31E-03	1.34E-05	1.06E-01	1.09E-03	1.34E-05	2.36E-01	1.23E-03	1.34E-05	2.47E-01	1.09E-03	1.34E-05	2.30E-01	3.49E-03	1.34E-05	6.04E-02	1.09E-03	1.34E-05	2.40E-01			
		60"	1.52E-05	1.06E-03	1.16E-05	1.70E-01	1.07E-03	1.16E-05	1.03E-01	1.14E-03	1.16E-05	1.06E-01	9.55E-04	1.16E-05	2.36E-01	1.07E-03	1.16E-05	2.47E-01	9.55E-04	1.16E-05	2.31E-01	2.87E-03	1.16E-05	6.11E-02	9.55E-04	1.16E-05	2.40E-01			
		72"	1.57E-05	1.27E-03	1.16E-05	1.69E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	2.41E-01	
	ASHRAE Climate Zone 5	36"	2.16E-05	1.48E-03	1.72E-05	1.95E-01	1.50E-03	1.72E-05	6.69E-02	1.61E-03	1.72E-05	5.30E-02	1.43E-03	1.72E-05	1.75E-01	1.50E-03	1.72E-05	1.84E-01	1.43E-03	1.72E-05	1.71E-01	-	-	-	-	-	-	1.43E-03	1.72E-05	1.74E-01
		48"	1.75E-05	1.24E-03	1.34E-05	1.95E-01	1.23E-03	1.34E-05	6.72E-02	1.31E-03	1.34E-05	5.33E-02	1.09E-03	1.34E-05	1.75E-01	1.23E-03	1.34E-05	1.84E-01	1.09E-03	1.34E-05	1.71E-01	3.49E-03	1.34E-05	4.60E-02	1.09E-03	1.34E-05	1.75E-01			
		60"	1.52E-05	1.06E-03	1.16E-05	1.95E-01	1.07E-03	1.16E-05	6.73E-02	1.14E-03	1.16E-05	5.35E-02	9.55E-04	1.16E-05	1.75E-01	1.07E-03	1.16E-05	1.84E-01	9.55E-04	1.16E-05	1.71E-01	2.87E-03	1.16E-05	4.66E-02	9.55E-04	1.16E-05	1.75E-01			
		72"	1.57E-05	1.27E-03	1.16E-05	1.95E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	1.75E-01	
	ASHRAE Climate Zone 6,7	36"	2.16E-05	1.48E-03	1.72E-05	1.65E-01	1.50E-03	1.72E-05	6.33E-02	1.61E-03	1.72E-05	5.71E-02	1.43E-03	1.72E-05	1.63E-01	1.50E-03	1.72E-05	1.71E-01	1.43E-03	1.72E-05	1.58E-01	-	-	-	-	-	-	1.43E-03	1.72E-05	1.61E-01
		48"	1.75E-05	1.24E-03	1.34E-05	1.65E-01	1.23E-03	1.34E-05	6.36E-02	1.31E-03	1.34E-05	5.74E-02	1.09E-03	1.34E-05	1.63E-01	1.23E-03	1.34E-05	1.71E-01	1.09E-03	1.34E-05	1.58E-01	3.49E-03	1.34E-05	4.46E-02	1.09E-03	1.34E-05	1.61E-01			
		60"	1.52E-05	1.06E-03	1.16E-05	1.65E-01	1.07E-03	1.16E-05	6.38E-02	1.14E-03	1.16E-05	5.76E-02	9.55E-04	1.16E-05	1.63E-01	1.07E-03	1.16E-05	1.71E-01	9.55E-04	1.16E-05	1.59E-01	2.87E-03	1.16E-05	4.52E-02	9.55E-04	1.16E-05	1.61E-01			
		72"	1.57E-05	1.27E-03	1.16E-05	1.65E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	1.62E-01	
	Canada	36"	3.52E-05	1.48E-03	1.72E-05	9.10E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	3.07E-05	1.24E-03	1.34E-05	9.34E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49E-03	1.34E-05	9.10E-03	-	-	-	-	-	
		60"	2.88E-05	1.06E-03	1.16E-05	9.53E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87E-03	1.16E-05	9.71E-03	-	-	-	-	-	
		72"	2.91E-05	1.27E-03	1.16E-05	9.32E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Mexico	36"	2.13E-05	-	-	-	1.50E-03	1.72E-05	1.37E-01	1.61E-03	1.72E-05	1.13E-01	-	-	-	1.50E-03	1.72E-05	2.69E-01	1.43E-03	1.72E-05	2.57E-01	-	-	-	-	-	-	-	-	
		48"	1.73E-05	-	-	-	1.23E-03	1.34E-05	1.37E-01	1.31E-03	1.34E-05	1.14E-01	-	-	-	1.23E-03	1.34E-05	2.69E-01	1.09E-03	1.34E-05	2.58E-01	3.49E-03	1.34E-05	8.36E-02	-	-	-	-		
		60"	1.51E-05	-	-	-	1.07E-03	1.16E-05	1.37E-01	1.14E-03	1.16E-05	1.14E-01	-	-	-	1.07E-03	1.16E-05	2.69E-01	9.55E-04	1.16E-05	2.58E-01	2.87E-03	1.16E-05	8.42E-02	-	-	-	-		
		72"	1.54E-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE 88: EMBODIED C2H4 & NET C2H4 SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
North America	ASHRAE Climate Zone 1,2	36"	2.16E-05	1.61E-03	1.72E-05	3.64E-01	1.61E-03	1.72E-05	4.81E-01	1.48E-03	1.72E-05	4.10E-01	1.53E-03	1.72E-05	2.91E-01	1.58E-03	1.72E-05	4.95E-01	1.72E-03	2.21E-05	5.38E-01	1.65E-03	2.21E-05	4.57E-01	1.61E-03	2.21E-05	3.99E-01
		48"	1.75E-05	1.31E-03	1.34E-05	3.64E-01	1.31E-03	1.34E-05	4.81E-01	1.22E-03	1.34E-05	4.10E-01	1.25E-03	1.34E-05	2.91E-01	1.29E-03	1.34E-05	4.95E-01	1.40E-03	1.71E-05	5.39E-01	1.34E-03	1.71E-05	4.57E-01	1.32E-03	1.71E-05	4.00E-01
		60"	1.52E-05	1.14E-03	1.16E-05	3.64E-01	1.14E-03	1.16E-05	4.82E-01	1.06E-03	1.16E-05	4.10E-01	1.09E-03	1.16E-05	2.91E-01	1.12E-03	1.16E-05	4.95E-01	1.20E-03	1.46E-05	5.39E-01	1.16E-03	1.46E-05	4.57E-01	1.14E-03	1.46E-05	4.00E-01
	ASHRAE Climate Zone 3	36"	2.16E-05	1.61E-03	1.72E-05	3.47E-01	1.61E-03	1.72E-05	1.84E-01	1.48E-03	1.72E-05	1.58E-01	1.53E-03	1.72E-05	1.12E-01	1.58E-03	1.72E-05	4.58E-01	1.72E-03	2.21E-05	5.00E-01	1.65E-03	2.21E-05	4.31E-01	1.61E-03	2.21E-05	3.79E-01
		48"	1.75E-05	1.31E-03	1.34E-05	3.47E-01	1.31E-03	1.34E-05	1.84E-01	1.22E-03	1.34E-05	1.58E-01	1.25E-03	1.34E-05	1.13E-01	1.29E-03	1.34E-05	4.58E-01	1.40E-03	1.71E-05	5.01E-01	1.34E-03	1.71E-05	4.31E-01	1.32E-03	1.71E-05	3.80E-01
		60"	1.52E-05	1.14E-03	1.16E-05	3.48E-01	1.14E-03	1.16E-05	1.84E-01	1.06E-03	1.16E-05	1.58E-01	1.09E-03	1.16E-05	1.13E-01	1.12E-03	1.16E-05	4.58E-01	1.20E-03	1.46E-05	5.01E-01	1.16E-03	1.46E-05	4.31E-01	1.14E-03	1.46E-05	3.80E-01
	ASHRAE Climate Zone 4	36"	2.16E-05	1.61E-03	1.72E-05	1.91E-01	1.61E-03	1.72E-05	9.52E-02	1.48E-03	1.72E-05	8.16E-02	1.53E-03	1.72E-05	5.68E-02	1.58E-03	1.72E-05	2.65E-01	1.72E-03	2.21E-05	2.64E-01	1.65E-03	2.21E-05	2.29E-01	1.61E-03	2.21E-05	2.21E-01
		48"	1.75E-05	1.31E-03	1.34E-05	1.91E-01	1.31E-03	1.34E-05	9.55E-02	1.22E-03	1.34E-05	8.19E-02	1.25E-03	1.34E-05	5.71E-02	1.29E-03	1.34E-05	2.65E-01	1.40E-03	1.71E-05	2.65E-01	1.34E-03	1.71E-05	2.29E-01	1.32E-03	1.71E-05	2.21E-01
		60"	1.52E-05	1.14E-03	1.16E-05	1.91E-01	1.14E-03	1.16E-05	9.57E-02	1.06E-03	1.16E-05	8.20E-02	1.09E-03	1.16E-05	5.72E-02	1.12E-03	1.16E-05	2.65E-01	1.20E-03	1.46E-05	2.65E-01	1.16E-03	1.46E-05	2.29E-01	1.14E-03	1.46E-05	2.21E-01
	ASHRAE Climate Zone 5	36"	2.16E-05	1.61E-03	1.72E-05	1.36E-01	1.61E-03	1.72E-05	7.16E-02	1.48E-03	1.72E-05	5.69E-02	1.53E-03	1.72E-05	4.24E-02	1.58E-03	1.72E-05	2.06E-01	1.72E-03	2.21E-05	2.04E-01	1.65E-03	2.21E-05	1.81E-01	1.61E-03	2.21E-05	1.63E-01
		48"	1.75E-05	1.31E-03	1.34E-05	1.36E-01	1.31E-03	1.34E-05	7.19E-02	1.22E-03	1.34E-05	5.72E-02	1.25E-03	1.34E-05	4.27E-02	1.29E-03	1.34E-05	2.06E-01	1.40E-03	1.71E-05	2.05E-01	1.34E-03	1.71E-05	1.81E-01	1.32E-03	1.71E-05	1.63E-01
		60"	1.52E-05	1.14E-03	1.16E-05	1.36E-01	1.14E-03	1.16E-05	7.21E-02	1.06E-03	1.16E-05	5.73E-02	1.09E-03	1.16E-05	4.29E-02	1.12E-03	1.16E-05	2.06E-01	1.20E-03	1.46E-05	2.05E-01	1.16E-03	1.46E-05	1.81E-01	1.14E-03	1.46E-05	1.63E-01
	ASHRAE Climate Zone 6,7	36"	2.16E-05	1.61E-03	1.72E-05	1.25E-01	1.61E-03	1.72E-05	7.15E-02	1.48E-03	1.72E-05	5.59E-02	1.53E-03	1.72E-05	4.09E-02	1.58E-03	1.72E-05	1.94E-01	1.72E-03	2.21E-05	1.90E-01	1.65E-03	2.21E-05	1.67E-01	1.61E-03	2.21E-05	1.50E-01
		48"	1.75E-05	1.31E-03	1.34E-05	1.25E-01	1.31E-03	1.34E-05	7.18E-02	1.22E-03	1.34E-05	5.62E-02	1.25E-03	1.34E-05	4.12E-02	1.29E-03	1.34E-05	1.94E-01	1.40E-03	1.71E-05	1.91E-01	1.34E-03	1.71E-05	1.67E-01	1.32E-03	1.71E-05	1.51E-01
		60"	1.52E-05	1.14E-03	1.16E-05	1.25E-01	1.14E-03	1.16E-05	7.20E-02	1.06E-03	1.16E-05	5.64E-02	1.09E-03	1.16E-05	4.14E-02	1.12E-03	1.16E-05	1.95E-01	1.20E-03	1.46E-05	1.91E-01	1.16E-03	1.46E-05	1.68E-01	1.14E-03	1.46E-05	1.51E-01
	Canada	36"	3.52E-05	-	-	-	1.61E-03	1.72E-05	5.39E-03	1.48E-03	1.72E-05	1.10E-02	1.53E-03	1.72E-05	1.19E-02	1.58E-03	1.72E-05	2.34E-02	1.72E-03	2.21E-05	2.86E-03	1.65E-03	2.21E-05	6.91E-03	1.61E-03	2.21E-05	9.40E-03
		48"	3.07E-05	-	-	-	1.31E-03	1.34E-05	5.70E-03	1.22E-03	1.34E-05	1.13E-02	1.25E-03	1.34E-05	1.21E-02	1.29E-03	1.34E-05	2.37E-02	1.40E-03	1.71E-05	3.19E-03	1.34E-03	1.71E-05	7.23E-03	1.32E-03	1.71E-05	9.71E-03
		60"	2.88E-05	-	-	-	1.14E-03	1.16E-05	5.88E-03	1.06E-03	1.16E-05	1.14E-02	1.09E-03	1.16E-05	1.23E-02	1.12E-03	1.16E-05	2.39E-02	1.20E-03	1.46E-05	3.39E-03	1.16E-03	1.46E-05	7.41E-03	1.14E-03	1.46E-05	9.89E-03
	Mexico	36"	2.91E-05	-	-	-	1.11E-03	1.16E-05	5.90E-03	1.27E-03	1.16E-05	1.12E-02	1.07E-03	1.16E-05	1.23E-02	-	-	-	1.14E-03	1.25E-05	3.46E-03	1.10E-03	1.25E-05	7.47E-03	1.08E-03	1.25E-05	9.94E-03
		48"	2.13E-05	-	-	-	1.61E-03	1.72E-05	1.27E-01	1.48E-03	1.72E-05	1.09E-01	1.53E-03	1.72E-05	8.18E-02	-	-	-	-	-	-	-	-	-	-	-	-
		60"	1.73E-05	-	-	-	1.31E-03	1.34E-05	1.27E-01	1.22E-03	1.34E-05	1.09E-01	1.25E-03	1.34E-05	8.21E-02	-	-	-	-	-	-	-	-	-	-	-	-
	Mexico	60"	1.51E-05	-	-	-	1.14E-03	1.16E-05	1.27E-01	1.06E-03	1.16E-05	1.09E-01	1.09E-03	1.16E-05	8.23E-02	-	-	-	-	-	-	-	-	-	-	-	-
		72"	1.54E-05	-	-	-	1.11E-03	1.16E-05	1.27E-01	1.27E-03	1.16E-05	1.09E-01	1.07E-03	1.16E-05	8.23E-02	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 89: EMBODIED C2H4 & NET C2H4 SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)			All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30		
			Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved
North America	ASHRAE Climate Zone 1,2	36"	1.75E-05	1.59E-03	2.21E-05	3.12E-01	1.53E-03	1.72E-05	3.12E-01	1.61E-03	1.72E-05	5.25E-01	1.48E-03	1.72E-05	4.57E-01	1.53E-03	1.72E-05	3.85E-01	1.43E-03	1.72E-05	5.02E-01	1.61E-03	1.72E-05	3.88E-01	1.48E-03	1.72E-05	3.18E-01
		48"	1.52E-05	1.29E-03	1.71E-05	3.12E-01	1.25E-03	1.34E-05	3.12E-01	1.31E-03	1.34E-05	5.26E-01	1.22E-03	1.34E-05	4.57E-01	1.25E-03	1.34E-05	3.85E-01	1.09E-03	1.34E-05	5.02E-01	1.31E-03	1.34E-05	3.88E-01	1.24E-03	1.34E-05	3.18E-01
		60"	1.57E-05	1.12E-03	1.46E-05	3.12E-01	1.09E-03	1.16E-05	3.12E-01	1.14E-03	1.16E-05	5.26E-01	1.06E-03	1.16E-05	4.57E-01	1.09E-03	1.16E-05	3.86E-01	9.55E-04	1.16E-05	5.03E-01	1.14E-03	1.16E-05	3.88E-01	1.06E-03	1.16E-05	3.19E-01
		72"	2.16E-05	1.07E-03	1.25E-05	3.12E-01	1.07E-03	1.16E-05	3.12E-01	1.11E-03	1.16E-05	5.26E-01	1.27E-03	1.16E-05	4.57E-01	1.07E-03	1.16E-05	3.86E-01	7.11E-04	1.16E-05	5.03E-01	1.11E-03	1.16E-05	3.88E-01	1.27E-03	1.16E-05	3.18E-01
	ASHRAE Climate Zone 3	36"	1.75E-05	1.59E-03	2.21E-05	2.97E-01	1.53E-03	1.72E-05	2.98E-01	1.61E-03	1.72E-05	1.99E-01	1.48E-03	1.72E-05	1.72E-01	1.53E-03	1.72E-05	1.47E-01	1.43E-03	1.72E-05	4.70E-01	1.61E-03	1.72E-05	3.69E-01	1.48E-03	1.72E-05	1.26E-01
		48"	1.52E-05	1.29E-03	1.71E-05	2.98E-01	1.25E-03	1.34E-05	2.98E-01	1.31E-03	1.34E-05	1.99E-01	1.22E-03	1.34E-05	1.72E-01	1.25E-03	1.34E-05	1.48E-01	1.09E-03	1.34E-05	4.70E-01	1.31E-03	1.34E-05	3.69E-01	1.24E-03	1.34E-05	1.26E-01
		60"	1.57E-05	1.12E-03	1.46E-05	2.98E-01	1.09E-03	1.16E-05	2.98E-01	1.14E-03	1.16E-05	1.99E-01	1.06E-03	1.16E-05	1.72E-01	1.09E-03	1.16E-05	1.48E-01	9.55E-04	1.16E-05	4.70E-01	1.14E-03	1.16E-05	3.69E-01	1.06E-03	1.16E-05	1.26E-01
		72"	2.16E-05	1.07E-03	1.25E-05	2.98E-01	1.07E-03	1.16E-05	2.98E-01	1.11E-03	1.16E-05	1.99E-01	1.27E-03	1.16E-05	1.72E-01	1.07E-03	1.16E-05	1.48E-01	7.11E-04	1.16E-05	4.70E-01	1.11E-03	1.16E-05	3.69E-01	1.27E-03	1.16E-05	1.26E-01
	ASHRAE Climate Zone 4	36"	1.75E-05	1.59E-03	2.21E-05	1.66E-01	1.53E-03	1.72E-05	1.66E-01	1.61E-03	1.72E-05	1.04E-01	1.48E-03	1.72E-05	8.95E-02	1.53E-03	1.72E-05	7.63E-02	1.43E-03	1.72E-05	2.52E-01	1.61E-03	1.72E-05	2.01E-01	1.48E-03	1.72E-05	6.20E-02
		48"	1.52E-05	1.29E-03	1.71E-05	1.66E-01	1.25E-03	1.34E-05	1.66E-01	1.31E-03	1.34E-05	1.05E-01	1.22E-03	1.34E-05	8.98E-02	1.25E-03	1.34E-05	7.66E-02	1.09E-03	1.34E-05	2.52E-01	1.31E-03	1.34E-05	2.01E-01	1.24E-03	1.34E-05	6.22E-02
		60"	1.57E-05	1.12E-03	1.46E-05	1.66E-01	1.09E-03	1.16E-05	1.66E-01	1.14E-03	1.16E-05	1.05E-01	1.06E-03	1.16E-05	8.99E-02	1.09E-03	1.16E-05	7.68E-02	9.55E-04	1.16E-05	2.52E-01	1.14E-03	1.16E-05	2.02E-01	1.06E-03	1.16E-05	6.24E-02
		72"	2.16E-05	1.07E-03	1.25E-05	1.66E-01	1.07E-03	1.16E-05	1.66E-01	1.11E-03	1.16E-05	1.05E-01	1.27E-03	1.16E-05	8.97E-02	1.07E-03	1.16E-05	7.68E-02	7.11E-04	1.16E-05	2.53E-01	1.11E-03	1.16E-05	2.02E-01	1.27E-03	1.16E-05	6.22E-02
	ASHRAE Climate Zone 5	36"	1.75E-05	1.59E-03	2.21E-05	1.37E-01	1.53E-03	1.72E-05	1.40E-01	1.61E-03	1.72E-05	7.06E-02	1.48E-03	1.72E-05	6.24E-02	1.53E-03	1.72E-05	5.49E-02	1.43E-03	1.72E-05	1.91E-01	1.61E-03	1.72E-05	1.55E-01	1.48E-03	1.72E-05	4.14E-02
		48"	1.52E-05	1.29E-03	1.71E-05	1.37E-01	1.25E-03	1.34E-05	1.40E-01	1.31E-03	1.34E-05	7.09E-02	1.22E-03	1.34E-05	6.27E-02	1.25E-03	1.34E-05	5.52E-02	1.09E-03	1.34E-05	1.91E-01	1.31E-03	1.34E-05	1.56E-01	1.24E-03	1.34E-05	4.17E-02
		60"	1.57E-05	1.12E-03	1.46E-05	1.37E-01	1.09E-03	1.16E-05	1.40E-01	1.14E-03	1.16E-05	7.10E-02	1.06E-03	1.16E-05	6.28E-02	1.09E-03	1.16E-05	5.54E-02	9.55E-04	1.16E-05	1.91E-01	1.14E-03	1.16E-05	1.56E-01	1.06E-03	1.16E-05	4.19E-02
		72"	2.16E-05	1.07E-03	1.25E-05	1.37E-01	1.07E-03	1.16E-05	1.40E-01	1.11E-03	1.16E-05	7.11E-02	1.27E-03	1.16E-05	6.26E-02	1.07E-03	1.16E-05	5.54E-02	7.11E-04	1.16E-05	1.91E-01	1.11E-03	1.16E-05	1.56E-01	1.27E-03	1.16E-05	4.17E-02
	ASHRAE Climate Zone 6,7	36"	1.75E-05	1.59E-03	2.21E-05	1.27E-01	1.53E-03	1.72E-05	1.30E-01	1.61E-03	1.72E-05	7.07E-02	1.48E-03	1.72E-05	6.19E-02	1.53E-03	1.72E-05	5.43E-02	1.43E-03	1.72E-05	1.77E-01	1.61E-03	1.72E-05	1.43E-01	1.48E-03	1.72E-05	3.98E-02
		48"	1.52E-05	1.29E-03	1.71E-05	1.27E-01	1.25E-03	1.34E-05	1.30E-01	1.31E-03	1.34E-05	7.10E-02	1.22E-03	1.34E-05	6.22E-02	1.25E-03	1.34E-05	5.46E-02	1.09E-03	1.34E-05	1.77E-01	1.31E-03	1.34E-05	1.44E-01	1.24E-03	1.34E-05	4.00E-02
		60"	1.57E-05	1.12E-03	1.46E-05	1.27E-01	1.09E-03	1.16E-05	1.30E-01	1.14E-03	1.16E-05	7.12E-02	1.06E-03	1.16E-05	6.24E-02	1.09E-03	1.16E-05	5.48E-02	9.55E-04	1.16E-05	1.78E-01	1.14E-03	1.16E-05	1.44E-01	1.06E-03	1.16E-05	4.02E-02
		72"	3.52E-05	1.07E-03	1.25E-05	1.27E-01	1.07E-03	1.16E-05	1.30E-01	1.11E-03	1.16E-05	7.12E-02	1.27E-03	1.16E-05	6.21E-02	1.07E-03	1.16E-05	5.48E-02	7.11E-04	1.16E-05	1.78E-01	1.11E-03	1.16E-05	1.44E-01	1.27E-03	1.16E-05	4.00E-02
	Canada	36"	3.07E-05	1.59E-03	2.21E-05	1.11E-02	1.53E-03	1.72E-05	1.22E-02	1.61E-03	1.72E-05	7.35E-03	1.48E-03	1.72E-05	1.03E-02	1.53E-03	1.72E-05	1.28E-02	1.43E-03	1.72E-05	7.55E-03	1.61E-03	1.72E-05	1.03E-02	1.48E-03	1.72E-05	1.09E-02
		48"	2.88E-05	1.29E-03	1.71E-05	1.14E-02	1.25E-03	1.34E-05	1.25E-02	1.31E-03	1.34E-05	7.66E-03	1.22E-03	1.34E-05	1.06E-02	1.25E-03	1.34E-05	1.31E-02	1.09E-03	1.34E-05	7.90E-03	1.31E-03	1.34E-05	1.06E-02	1.24E-03	1.34E-05	1.12E-02
		60"	2.91E-05	1.12E-03	1.46E-05	1.15E-02	1.09E-03	1.16E-05	1.27E-02	1.14E-03	1.16E-05	7.84E-03	1.06E-03	1.16E-05	1.08E-02	1.09E-03	1.16E-05	1.32E-02	9.55E-04	1.16E-05	8.04E-03	1.14E-03	1.16E-05	1.08E-02	1.06E-03	1.16E-05	1.14E-02
		72"	2.13E-05	1.07E-03	1.25E-05	1.16E-02	1.07E-03	1.16E-05	1.27E-02	1.11E-03	1.16E-05	7.86E-03	1.27E-03	1.16E-05	1.06E-02	1.07E-03	1.16E-05	1.32E-02	7.11E-04	1.16E-05	8.28E-03	1.11E-03	1.16E-05	1.08E-02	1.27E-03	1.16E-05	1.12E-02
	Mexico	36"	1.73E-05	-	-	-	-	-	-	1.61E-03	1.72E-05	1.36E-01	1.48E-03	1.72E-05	1.17E-01	1.53E-03	1.72E-05	1.00E-01	1.43E-03	1.72E-05	2.81E-01	1.61E-03	1.72E-05	2.21E-01	1.48E-03	1.72E-05	8.91E-02
		48"	1.51E-05	-	-	-	-	-	-	1.31E-03	1.34E-05	1.37E-01	1.22E-03	1.34E-05	1.17E-01	1.25E-03	1.34E-05	1.00E-01	1.09E-03	1.34E-05	2.82E-01	1.31E-03	1.34E-05	2.22E-01	1.24E-03	1.34E-05	8.94E-02
		60"	1.54E-05	-	-	-	-	-	-	1.14E-03	1.16E-05	1.37E-01	1.06E-03	1.16E-05	1.18E-01	1.09E-03	1.16E-05	1.00E-01	9.55E-04	1.16E-05	2.82E-01	1.14E-03	1.16E-05	2.22E-01	1.06E-03	1.16E-05	8.95E-02
		72"	0.00E+00	-	-	-	-	-	-	1.11E-03	1.16E-05	1.37E-01	1.27E-03	1.16E-05	1.17E-01	1.07E-03	1.16E-05	1.00E-01	7.11E-04	1.16E-05	2.82E-01	1.11E-03	1.16E-05	2.22E-01	1.27E-03	1.16E-05	8.93E-02

TABLE 90: EMBODIED C2H4 & NET C2H4 SAVINGS IN NORTH AMERICA (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)			All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
			Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved
North America	ASHRAE Climate Zone 1,2	36"	1.52E-05	1.48E-03	1.72E-05	2.60E-01	1.53E-03	1.72E-05	2.29E-01	1.61E-03	1.72E-05	4.97E-01	1.55E-03	1.72E-05	3.87E-01	1.53E-03	1.72E-05	3.29E-01	1.51E-03	1.72E-05	2.29E-01	1.48E-03	1.72E-05	1.63E-01
		48"	1.57E-05	1.22E-03	1.34E-05	2.61E-01	1.25E-03	1.34E-05	2.29E-01	1.31E-03	1.34E-05	4.97E-01	1.27E-03	1.34E-05	3.88E-01	1.25E-03	1.34E-05	3.29E-01	1.24E-03	1.34E-05	2.29E-01	1.22E-03	1.34E-05	1.64E-01
		60"	2.16E-05	1.06E-03	1.16E-05	2.61E-01	1.09E-03	1.16E-05	2.29E-01	1.14E-03	1.16E-05	4.97E-01	1.10E-03	1.16E-05	3.88E-01	1.09E-03	1.16E-05	3.29E-01	1.07E-03	1.16E-05	2.29E-01	1.06E-03	1.16E-05	1.64E-01
	ASHRAE Climate Zone 3	36"	1.52E-05	1.48E-03	1.72E-05	1.03E-01	1.53E-03	1.72E-05	9.06E-02	1.61E-03	1.72E-05	4.64E-01	1.55E-03	1.72E-05	3.66E-01	1.53E-03	1.72E-05	3.12E-01	1.51E-03	1.72E-05	2.11E-01	1.48E-03	1.72E-05	1.56E-01
		48"	1.57E-05	1.22E-03	1.34E-05	1.04E-01	1.25E-03	1.34E-05	9.09E-02	1.31E-03	1.34E-05	4.64E-01	1.27E-03	1.34E-05	3.66E-01	1.25E-03	1.34E-05	3.12E-01	1.24E-03	1.34E-05	2.11E-01	1.22E-03	1.34E-05	1.56E-01
		60"	2.16E-05	1.06E-03	1.16E-05	1.04E-01	1.09E-03	1.16E-05	9.10E-02	1.14E-03	1.16E-05	4.64E-01	1.10E-03	1.16E-05	3.66E-01	1.09E-03	1.16E-05	3.13E-01	1.07E-03	1.16E-05	2.11E-01	1.06E-03	1.16E-05	1.56E-01
	ASHRAE Climate Zone 4	36"	1.52E-05	1.48E-03	1.72E-05	5.01E-02	1.53E-03	1.72E-05	4.36E-02	1.61E-03	1.72E-05	2.47E-01	1.55E-03	1.72E-05	2.01E-01	1.53E-03	1.72E-05	1.73E-01	1.51E-03	1.72E-05	1.22E-01	1.48E-03	1.72E-05	8.88E-02
		48"	1.57E-05	1.22E-03	1.34E-05	5.03E-02	1.25E-03	1.34E-05	4.39E-02	1.31E-03	1.34E-05	2.47E-01	1.27E-03	1.34E-05	2.01E-01	1.25E-03	1.34E-05	1.73E-01	1.24E-03	1.34E-05	1.22E-01	1.22E-03	1.34E-05	8.91E-02
		60"	2.16E-05	1.06E-03	1.16E-05	5.05E-02	1.09E-03	1.16E-05	4.40E-02	1.14E-03	1.16E-05	2.47E-01	1.10E-03	1.16E-05	2.01E-01	1.09E-03	1.16E-05	1.73E-01	1.07E-03	1.16E-05	1.22E-01	1.06E-03	1.16E-05	8.93E-02
	ASHRAE Climate Zone 5	36"	1.52E-05	1.48E-03	1.72E-05	3.52E-02	1.53E-03	1.72E-05	3.22E-02	1.61E-03	1.72E-05	2.00E-01	1.55E-03	1.72E-05	1.70E-01	1.53E-03	1.72E-05	1.52E-01	1.51E-03	1.72E-05	1.18E-01	1.48E-03	1.72E-05	9.53E-02
		48"	1.57E-05	1.22E-03	1.34E-05	3.55E-02	1.25E-03	1.34E-05	3.25E-02	1.31E-03	1.34E-05	2.00E-01	1.27E-03	1.34E-05	1.70E-01	1.25E-03	1.34E-05	1.52E-01	1.24E-03	1.34E-05	1.18E-01	1.22E-03	1.34E-05	9.55E-02
		60"	2.16E-05	1.06E-03	1.16E-05	3.56E-02	1.09E-03	1.16E-05	3.26E-02	1.14E-03	1.16E-05	2.01E-01	1.10E-03	1.16E-05	1.70E-01	1.09E-03	1.16E-05	1.52E-01	1.07E-03	1.16E-05	1.18E-01	1.06E-03	1.16E-05	9.57E-02
	ASHRAE Climate Zone 6,7	36"	1.52E-05	1.48E-03	1.72E-05	3.29E-02	1.53E-03	1.72E-05	3.02E-02	1.61E-03	1.72E-05	1.88E-01	1.55E-03	1.72E-05	1.59E-01	1.53E-03	1.72E-05	1.41E-01	1.51E-03	1.72E-05	1.09E-01	1.48E-03	1.72E-05	8.79E-02
		48"	1.57E-05	1.22E-03	1.34E-05	3.32E-02	1.25E-03	1.34E-05	3.05E-02	1.31E-03	1.34E-05	1.88E-01	1.27E-03	1.34E-05	1.59E-01	1.25E-03	1.34E-05	1.41E-01	1.24E-03	1.34E-05	1.10E-01	1.22E-03	1.34E-05	8.82E-02
		60"	3.52E-05	1.06E-03	1.16E-05	3.34E-02	1.09E-03	1.16E-05	3.06E-02	1.14E-03	1.16E-05	1.88E-01	1.10E-03	1.16E-05	1.59E-01	1.09E-03	1.16E-05	1.41E-01	1.07E-03	1.16E-05	1.10E-01	1.06E-03	1.16E-05	8.84E-02
	Canada	36"	2.88E-05	1.48E-03	1.72E-05	1.02E-02	1.53E-03	1.72E-05	9.33E-03	1.61E-03	1.72E-05	8.56E-03	1.55E-03	1.72E-05	1.30E-02	1.53E-03	1.72E-05	1.37E-02	1.51E-03	1.72E-05	1.11E-02	1.48E-03	1.72E-05	1.09E-02
		48"	2.91E-05	1.22E-03	1.34E-05	1.05E-02	1.25E-03	1.34E-05	9.62E-03	1.31E-03	1.34E-05	8.87E-03	1.27E-03	1.34E-05	1.33E-02	1.25E-03	1.34E-05	1.40E-02	1.24E-03	1.34E-05	1.14E-02	1.22E-03	1.34E-05	1.11E-02
		60"	2.13E-05	1.06E-03	1.16E-05	1.06E-02	1.09E-03	1.16E-05	9.79E-03	1.14E-03	1.16E-05	9.05E-03	1.10E-03	1.16E-05	1.35E-02	1.09E-03	1.16E-05	1.42E-02	1.07E-03	1.16E-05	1.15E-02	1.06E-03	1.16E-05	1.13E-02
	Mexico	36"	1.51E-05	1.48E-03	1.72E-05	7.40E-02	1.53E-03	1.72E-05	6.48E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	1.54E-05	1.22E-03	1.34E-05	7.42E-02	1.25E-03	1.34E-05	6.51E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	0.00E+00	1.06E-03	1.16E-05	7.44E-02	1.09E-03	1.16E-05	6.53E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	0.00E+00	1.27E-03	1.16E-05	7.42E-02	1.07E-03	1.16E-05	6.53E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 91: EMBODIED C2H4 & NET C2H4 SAVINGS IN EUROPE

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Europe	France	36"	4.23E-04	-	-	-	-	-	1.61E-03	1.72E-05	-1.27E-03	-	-	-	-	-	-	1.43E-03	1.72E-05	8.92E-03	-	-	-	-	-	-	
		48"	4.12E-04	-	-	-	-	-	1.31E-03	1.34E-05	-9.53E-04	-	-	-	-	-	-	1.09E-03	1.34E-05	9.28E-03	3.49E-03	1.34E-05	-2.83E-03	-	-	-	
		60"	4.20E-04	-	-	-	-	-	1.14E-03	1.16E-05	-7.84E-04	-	-	-	-	-	-	9.55E-04	1.16E-05	9.40E-03	2.87E-03	1.16E-05	-2.22E-03	-	-	-	
		72"	4.14E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Northern Europe	36"	6.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	4.12E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	4.18E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49E-03	1.34E-05	4.06E-03	-	-	-	
		72"	4.11E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87E-03	1.16E-05	4.67E-03	-	-	-	
	Scandinavia	36"	4.13E-04	1.48E-03	1.72E-05	-2.19E-02	1.50E-03	1.72E-05	-3.31E-02	1.61E-03	1.72E-05	-2.56E-02	1.43E-03	1.72E-05	-2.48E-02	1.50E-03	1.72E-05	-2.97E-02	1.43E-03	1.72E-05	-3.40E-02	-	-	-	1.43E-03	1.72E-05	-3.64E-02
		48"	4.01E-04	1.24E-03	1.34E-05	-2.17E-02	1.23E-03	1.34E-05	-3.28E-02	1.31E-03	1.34E-05	-2.53E-02	1.09E-03	1.34E-05	-2.44E-02	1.23E-03	1.34E-05	-2.94E-02	1.09E-03	1.34E-05	-3.36E-02	3.49E-03	1.34E-05	-2.03E-02	1.09E-03	1.34E-05	-3.60E-02
		60"	4.09E-04	1.06E-03	1.16E-05	-2.15E-02	1.07E-03	1.16E-05	-3.26E-02	1.14E-03	1.16E-05	-2.51E-02	9.55E-04	1.16E-05	-2.43E-02	1.07E-03	1.16E-05	-2.93E-02	9.55E-04	1.16E-05	-3.35E-02	2.87E-03	1.16E-05	-1.97E-02	9.55E-04	1.16E-05	-3.59E-02
		72"	4.02E-04	1.27E-03	1.16E-05	-2.17E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	-3.57E-02
	Southern Europe	36"	6.75E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	9.67E-02	-	-	-	-	-	-	1.43E-03	1.72E-05	2.42E-01	-	-	-	-	-	-
		48"	4.12E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	9.73E-02	-	-	-	-	-	-	1.09E-03	1.34E-05	2.42E-01	3.49E-03	1.34E-05	7.22E-02	-	-	-
		60"	4.18E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	9.74E-02	-	-	-	-	-	-	9.55E-04	1.16E-05	2.43E-01	2.87E-03	1.16E-05	7.28E-02	-	-	-
		72"	4.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Kingdom	36"	4.02E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	9.64E-03	-	-	-	-	-	-	1.43E-03	1.72E-05	3.83E-02	-	-	-	-	-	-
		48"	3.90E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	9.95E-03	-	-	-	-	-	-	1.09E-03	1.34E-05	3.87E-02	3.49E-03	1.34E-05	6.37E-03	-	-	-
		60"	3.98E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	1.01E-02	-	-	-	-	-	-	9.55E-04	1.16E-05	3.88E-02	2.87E-03	1.16E-05	6.97E-03	-	-	-
		72"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 92: EMBODIED C2H4 & NET C2H4 SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30							
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved					
Europe	France	36"	4.23E-04	1.61E-03	1.72E-05	9.47E-03	-	-	-	-	-	-	-	-	-	-	1.58E-03	1.72E-05	2.37E-02	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.12E-04	1.31E-03	1.34E-05	9.79E-03	-	-	-	-	-	-	-	-	-	-	-	1.29E-03	1.34E-05	2.40E-02	-	-	-	-	-	-	-	-	-	-	-
		60"	4.20E-04	1.14E-03	1.16E-05	9.96E-03	-	-	-	-	-	-	-	-	-	-	-	1.12E-03	1.16E-05	2.42E-02	-	-	-	-	-	-	-	-	-	-	-
		72"	4.14E-04	1.11E-03	1.16E-05	9.98E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Northern Europe	36"	6.75E-04	-	-	-	1.61E-03	1.72E-05	9.47E-03	1.48E-03	1.72E-05	7.43E-03	-	-	-	1.58E-03	1.72E-05	5.69E-02	1.72E-03	2.21E-05	4.59E-02	-	-	-	-	-	-	-	-	-	-
		48"	4.12E-04	-	-	-	1.31E-03	1.34E-05	1.00E-02	1.22E-03	1.34E-05	7.96E-03	-	-	-	1.29E-03	1.34E-05	5.75E-02	1.40E-03	1.71E-05	4.65E-02	-	-	-	-	-	-	-	-	-	-
		60"	4.18E-04	-	-	-	1.14E-03	1.16E-05	1.02E-02	1.06E-03	1.16E-05	8.11E-03	-	-	-	1.12E-03	1.16E-05	5.76E-02	1.20E-03	1.46E-05	4.67E-02	-	-	-	-	-	-	-	-	-	-
		72"	4.11E-04	-	-	-	1.11E-03	1.16E-05	1.02E-02	1.27E-03	1.16E-05	7.91E-03	-	-	-	-	-	-	1.14E-03	1.25E-05	4.68E-02	-	-	-	-	-	-	-	-	-	-
	Scandinavia	36"	4.13E-04	1.61E-03	1.72E-05	-2.44E-02	1.61E-03	1.72E-05	-3.19E-02	1.48E-03	1.72E-05	-2.34E-02	1.53E-03	1.72E-05	-1.57E-02	1.58E-03	1.72E-05	3.97E-03	1.72E-03	2.21E-05	-2.71E-02	1.65E-03	2.21E-05	-2.12E-02	1.61E-03	2.21E-05	-1.75E-02	-	-	-	
		48"	4.01E-04	1.31E-03	1.34E-05	-2.41E-02	1.31E-03	1.34E-05	-3.16E-02	1.22E-03	1.34E-05	-2.31E-02	1.25E-03	1.34E-05	-1.54E-02	1.29E-03	1.34E-05	4.27E-03	1.40E-03	1.71E-05	-2.67E-02	1.34E-03	1.71E-05	-2.08E-02	1.32E-03	1.71E-05	-1.72E-02	-	-	-	
		60"	4.09E-04	1.14E-03	1.16E-05	-2.39E-02	1.14E-03	1.16E-05	-3.14E-02	1.06E-03	1.16E-05	-2.29E-02	1.09E-03	1.16E-05	-1.52E-02	1.12E-03	1.16E-05	4.44E-03	1.20E-03	1.46E-05	-2.65E-02	1.16E-03	1.46E-05	-2.07E-02	1.14E-03	1.46E-05	-1.70E-02	-	-	-	
		72"	4.02E-04	1.11E-03	1.16E-05	-2.39E-02	1.11E-03	1.16E-05	-3.14E-02	1.27E-03	1.16E-05	-2.31E-02	1.07E-03	1.16E-05	-1.52E-02	-	-	-	1.14E-03	1.25E-05	-2.65E-02	1.10E-03	1.25E-05	-2.06E-02	1.08E-03	1.25E-05	-1.69E-02	-	-	-	
	Southern Europe	36"	6.75E-04	-	-	-	1.61E-03	1.72E-05	1.10E-01	1.48E-03	1.72E-05	9.35E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	4.12E-04	-	-	-	1.31E-03	1.34E-05	1.10E-01	1.22E-03	1.34E-05	9.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		60"	4.18E-04	-	-	-	1.14E-03	1.16E-05	1.10E-01	1.06E-03	1.16E-05	9.42E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		72"	4.13E-04	-	-	-	1.11E-03	1.16E-05	1.10E-01	1.27E-03	1.16E-05	9.40E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	United Kingdom	36"	4.02E-04	-	-	-	1.61E-03	1.72E-05	1.29E-02	1.48E-03	1.72E-05	1.04E-02	1.53E-03	1.72E-05	7.57E-03	1.58E-03	1.72E-05	5.43E-02	1.72E-03	2.21E-05	4.51E-02	-	-	-	-	1.61E-03	2.21E-05	3.64E-02	-	-	
		48"	3.90E-04	-	-	-	1.31E-03	1.34E-05	1.32E-02	1.22E-03	1.34E-05	1.07E-02	1.25E-03	1.34E-05	7.86E-03	1.29E-03	1.34E-05	5.46E-02	1.40E-03	1.71E-05	4.54E-02	-	-	-	-	1.32E-03	1.71E-05	3.67E-02	-	-	
		60"	3.98E-04	-	-	-	1.14E-03	1.16E-05	1.34E-02	1.06E-03	1.16E-05	1.09E-02	1.09E-03	1.16E-05	8.02E-03	1.12E-03	1.16E-05	5.47E-02	1.20E-03	1.46E-05	4.56E-02	-	-	-	-	1.14E-03	1.46E-05	3.69E-02	-	-	
		72"	3.93E-04	-	-	-	1.11E-03	1.16E-05	1.34E-02	1.27E-03	1.16E-05	1.07E-02	1.07E-03	1.16E-05	8.04E-03	-	-	-	1.14E-03	1.25E-05	4.57E-02	-	-	-	-	1.08E-03	1.25E-05	3.70E-02	-	-	

TABLE 93: EMBODIED C2H4 & NET C2H4 SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Europe	France	36"	4.23E-04	-	-	-	-	-	1.61E-03	1.72E-05	-8.54E-04	1.48E-03	1.72E-05	-3.73E-04	-	-	-	1.43E-03	1.72E-05	9.42E-03	1.61E-03	1.72E-05	9.31E-03	1.48E-03	1.72E-05	-1.70E-03	
		48"	4.12E-04	-	-	-	-	-	1.31E-03	1.34E-05	-5.40E-04	1.22E-03	1.34E-05	-9.44E-05	-	-	-	1.09E-03	1.34E-05	9.77E-03	1.31E-03	1.34E-05	9.62E-03	1.24E-03	1.34E-05	-1.44E-03	
		60"	4.20E-04	-	-	-	-	-	1.14E-03	1.16E-05	-3.71E-04	1.06E-03	1.16E-05	5.77E-05	-	-	-	9.55E-04	1.16E-05	9.90E-03	1.14E-03	1.16E-05	9.79E-03	1.06E-03	1.16E-05	-1.27E-03	
		72"	4.14E-04	-	-	-	-	-	1.11E-03	1.16E-05	-3.42E-04	1.27E-03	1.16E-05	-1.45E-04	-	-	-	7.11E-04	1.16E-05	1.01E-02	1.11E-03	1.16E-05	9.82E-03	1.27E-03	1.16E-05	-1.47E-03	
	Northern Europe	36"	6.75E-04	1.59E-03	2.21E-05	3.13E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.61E-03	1.72E-05	3.47E-02	1.48E-03	1.72E-05	4.13E-03	
		48"	4.12E-04	1.29E-03	1.71E-05	3.19E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.31E-03	1.34E-05	3.53E-02	1.24E-03	1.34E-05	4.63E-03	
		60"	4.18E-04	1.12E-03	1.46E-05	3.20E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14E-03	1.16E-05	3.54E-02	1.06E-03	1.16E-05	4.81E-03	
		72"	4.11E-04	1.07E-03	1.25E-05	3.21E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.11E-03	1.16E-05	3.55E-02	1.27E-03	1.16E-05	4.61E-03	
	Scandinavia	36"	4.13E-04	1.59E-03	2.21E-05	-1.26E-02	1.53E-03	1.72E-05	-1.12E-02	1.61E-03	1.72E-05	-3.17E-02	1.48E-03	1.72E-05	-2.41E-02	1.53E-03	1.72E-05	-1.73E-02	1.43E-03	1.72E-05	-2.12E-02	1.61E-03	1.72E-05	-1.61E-02	1.48E-03	1.72E-05	-1.34E-02
		48"	4.01E-04	1.29E-03	1.71E-05	-1.23E-02	1.25E-03	1.34E-05	-1.10E-02	1.31E-03	1.34E-05	-3.14E-02	1.22E-03	1.34E-05	-2.38E-02	1.25E-03	1.34E-05	-1.70E-02	1.09E-03	1.34E-05	-2.09E-02	1.31E-03	1.34E-05	-1.57E-02	1.24E-03	1.34E-05	-1.31E-02
		60"	4.09E-04	1.12E-03	1.46E-05	-1.21E-02	1.09E-03	1.16E-05	-1.08E-02	1.14E-03	1.16E-05	-3.13E-02	1.06E-03	1.16E-05	-2.36E-02	1.09E-03	1.16E-05	-1.69E-02	9.55E-04	1.16E-05	-2.08E-02	1.14E-03	1.16E-05	-1.56E-02	1.06E-03	1.16E-05	-1.30E-02
		72"	4.02E-04	1.07E-03	1.25E-05	-1.21E-02	1.07E-03	1.16E-05	-1.08E-02	1.11E-03	1.16E-05	-3.12E-02	1.27E-03	1.16E-05	-2.38E-02	1.07E-03	1.16E-05	-1.69E-02	7.11E-04	1.16E-05	-2.05E-02	1.11E-03	1.16E-05	-1.55E-02	1.27E-03	1.16E-05	-1.32E-02
	Southern Europe	36"	6.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-03	1.72E-05	2.70E-01	1.61E-03	1.72E-05	2.14E-01	1.48E-03	1.72E-05	7.33E-02
		48"	4.12E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.34E-05	2.70E-01	1.31E-03	1.34E-05	2.15E-01	1.24E-03	1.34E-05	7.38E-02
		60"	4.18E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.55E-04	1.16E-05	2.70E-01	1.14E-03	1.16E-05	2.15E-01	1.06E-03	1.16E-05	7.39E-02
		72"	4.13E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	2.71E-01	1.11E-03	1.16E-05	2.15E-01	1.27E-03	1.16E-05	7.37E-02
	United Kingdom	36"	4.02E-04	1.59E-03	2.21E-05	3.11E-02	-	-	-	1.61E-03	1.72E-05	1.32E-02	1.48E-03	1.72E-05	1.19E-02	1.53E-03	1.72E-05	1.05E-02	1.43E-03	1.72E-05	4.14E-02	1.61E-03	1.72E-05	3.50E-02	1.48E-03	1.72E-05	6.87E-03
		48"	3.90E-04	1.29E-03	1.71E-05	3.14E-02	-	-	-	1.31E-03	1.34E-05	1.35E-02	1.22E-03	1.34E-05	1.21E-02	1.25E-03	1.34E-05	1.07E-02	1.09E-03	1.34E-05	4.18E-02	1.31E-03	1.34E-05	3.53E-02	1.24E-03	1.34E-05	7.12E-03
		60"	3.98E-04	1.12E-03	1.46E-05	3.16E-02	-	-	-	1.14E-03	1.16E-05	1.37E-02	1.06E-03	1.16E-05	1.23E-02	1.09E-03	1.16E-05	1.09E-02	9.55E-04	1.16E-05	4.19E-02	1.14E-03	1.16E-05	3.55E-02	1.06E-03	1.16E-05	7.30E-03
		72"	3.93E-04	1.07E-03	1.25E-05	3.16E-02	-	-	-	1.11E-03	1.16E-05	1.37E-02	1.27E-03	1.16E-05	1.21E-02	1.07E-03	1.16E-05	1.09E-02	7.11E-04	1.16E-05	4.21E-02	1.11E-03	1.16E-05	3.55E-02	1.27E-03	1.16E-05	7.09E-03

TABLE 94: EMBODIED C2H4 & NET C2H4 SAVINGS IN EUROPE (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Europe	France	36"	4.23E-04	1.48E-03	1.72E-05	-1.77E-03	1.53E-03	1.72E-05	-1.78E-03	1.61E-03	1.72E-05	-2.61E-02	1.55E-03	1.72E-05	1.27E-02	1.53E-03	1.72E-05	1.19E-02	1.51E-03	1.72E-05	7.42E-03	1.48E-03	1.72E-05	6.39E-03
		48"	4.12E-04	1.22E-03	1.34E-05	-1.49E-03	1.25E-03	1.34E-05	-1.49E-03	1.31E-03	1.34E-05	-2.58E-02	1.27E-03	1.34E-05	1.30E-02	1.25E-03	1.34E-05	1.21E-02	1.24E-03	1.34E-05	7.70E-03	1.22E-03	1.34E-05	6.68E-03
		60"	4.20E-04	1.06E-03	1.16E-05	-1.34E-03	1.09E-03	1.16E-05	-1.33E-03	1.14E-03	1.16E-05	-2.56E-02	1.10E-03	1.16E-05	1.31E-02	1.09E-03	1.16E-05	1.23E-02	1.07E-03	1.16E-05	7.86E-03	1.06E-03	1.16E-05	6.83E-03
		72"	4.14E-04	1.27E-03	1.16E-05	-1.55E-03	1.07E-03	1.16E-05	-1.31E-03	1.11E-03	1.16E-05	-2.56E-02	1.08E-03	1.16E-05	1.32E-02	1.07E-03	1.16E-05	1.23E-02	1.06E-03	1.16E-05	7.88E-03	1.05E-03	1.16E-05	6.84E-03
	Northern Europe	36"	6.75E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	4.76E-02	1.55E-03	1.72E-05	4.05E-02	-	-	-	1.51E-03	1.72E-05	2.69E-02	1.48E-03	1.72E-05	2.20E-02
		48"	4.12E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	4.82E-02	1.27E-03	1.34E-05	4.10E-02	-	-	-	1.24E-03	1.34E-05	2.75E-02	1.22E-03	1.34E-05	2.26E-02
		60"	4.18E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	4.83E-02	1.10E-03	1.16E-05	4.12E-02	-	-	-	1.07E-03	1.16E-05	2.76E-02	1.06E-03	1.16E-05	2.27E-02
		72"	4.11E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	4.84E-02	1.08E-03	1.16E-05	4.12E-02	-	-	-	1.06E-03	1.16E-05	2.77E-02	1.05E-03	1.16E-05	2.27E-02
	Scandinavia	36"	4.13E-04	1.48E-03	1.72E-05	-1.05E-02	1.53E-03	1.72E-05	-1.10E-02	1.61E-03	1.72E-05	-1.94E-02	1.55E-03	1.72E-05	-1.29E-02	1.53E-03	1.72E-05	-1.05E-02	1.51E-03	1.72E-05	-9.61E-03	1.48E-03	1.72E-05	-5.75E-03
		48"	4.01E-04	1.22E-03	1.34E-05	-1.02E-02	1.25E-03	1.34E-05	-1.07E-02	1.31E-03	1.34E-05	-1.90E-02	1.27E-03	1.34E-05	-1.27E-02	1.25E-03	1.34E-05	-1.02E-02	1.24E-03	1.34E-05	-9.32E-03	1.22E-03	1.34E-05	-5.46E-03
		60"	4.09E-04	1.06E-03	1.16E-05	-1.00E-02	1.09E-03	1.16E-05	-1.05E-02	1.14E-03	1.16E-05	-1.89E-02	1.10E-03	1.16E-05	-1.25E-02	1.09E-03	1.16E-05	-1.00E-02	1.07E-03	1.16E-05	-9.17E-03	1.06E-03	1.16E-05	-5.31E-03
		72"	4.02E-04	1.27E-03	1.16E-05	-1.02E-02	1.07E-03	1.16E-05	-1.05E-02	1.11E-03	1.16E-05	-1.88E-02	1.08E-03	1.16E-05	-1.25E-02	1.07E-03	1.16E-05	-9.98E-03	1.06E-03	1.16E-05	-9.15E-03	1.05E-03	1.16E-05	-5.30E-03
	Southern Europe	36"	6.75E-04	1.48E-03	1.72E-05	5.99E-02	1.53E-03	1.72E-05	5.22E-02	1.61E-03	1.72E-05	2.65E-01	-	-	-	1.53E-03	1.72E-05	1.96E-01	1.51E-03	1.72E-05	1.51E-01	1.48E-03	1.72E-05	7.48E-02
		48"	4.12E-04	1.22E-03	1.34E-05	6.05E-02	1.25E-03	1.34E-05	5.28E-02	1.31E-03	1.34E-05	2.65E-01	-	-	-	1.25E-03	1.34E-05	1.97E-01	1.24E-03	1.34E-05	1.51E-01	1.22E-03	1.34E-05	7.54E-02
		60"	4.18E-04	1.06E-03	1.16E-05	6.06E-02	1.09E-03	1.16E-05	5.29E-02	1.14E-03	1.16E-05	2.65E-01	-	-	-	1.09E-03	1.16E-05	1.97E-01	1.07E-03	1.16E-05	1.51E-01	1.06E-03	1.16E-05	7.55E-02
		72"	4.13E-04	1.27E-03	1.16E-05	6.04E-02	1.07E-03	1.16E-05	5.30E-02	1.11E-03	1.16E-05	2.65E-01	-	-	-	1.07E-03	1.16E-05	1.97E-01	1.06E-03	1.16E-05	1.51E-01	1.05E-03	1.16E-05	7.55E-02
	United Kingdom	36"	4.02E-04	1.48E-03	1.72E-05	5.63E-03	1.53E-03	1.72E-05	5.00E-03	1.61E-03	1.72E-05	4.65E-02	1.55E-03	1.72E-05	3.99E-02	1.53E-03	1.72E-05	3.56E-02	1.51E-03	1.72E-05	2.71E-02	1.48E-03	1.72E-05	2.21E-02
		48"	3.90E-04	1.22E-03	1.34E-05	5.91E-03	1.25E-03	1.34E-05	5.29E-03	1.31E-03	1.34E-05	4.68E-02	1.27E-03	1.34E-05	4.02E-02	1.25E-03	1.34E-05	3.59E-02	1.24E-03	1.34E-05	2.74E-02	1.22E-03	1.34E-05	2.24E-02
		60"	3.98E-04	1.06E-03	1.16E-05	6.07E-03	1.09E-03	1.16E-05	5.45E-03	1.14E-03	1.16E-05	4.70E-02	1.10E-03	1.16E-05	4.03E-02	1.09E-03	1.16E-05	3.61E-02	1.07E-03	1.16E-05	2.75E-02	1.06E-03	1.16E-05	2.25E-02
		72"	3.93E-04	1.27E-03	1.16E-05	5.86E-03	1.07E-03	1.16E-05	5.47E-03	1.11E-03	1.16E-05	4.70E-02	1.08E-03	1.16E-05	4.04E-02	1.07E-03	1.16E-05	3.61E-02	1.06E-03	1.16E-05	2.75E-02	1.05E-03	1.16E-05	2.25E-02

TABLE 95: EMBODIED C2H4 & NET C2H4 SAVINGS IN ASIA

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10				
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved		
Asia	North-East China	36"	4.59E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	4.47E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.56E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.49E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	South-East China	36"	4.59E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.47E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.56E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.49E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	India	36"	5.81E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.67E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	4.05E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.00E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	5.96E-04	-	-	-	1.50E-03	1.72E-05	1.48E-01	-	-	-	-	-	-	1.50E-03	1.72E-05	2.93E-01	1.43E-03	1.72E-05	2.71E-01	-	-	-	-	-	-	-
		48"	5.81E-04	-	-	-	1.23E-03	1.34E-05	1.48E-01	-	-	-	-	-	-	1.23E-03	1.34E-05	2.93E-01	1.09E-03	1.34E-05	2.71E-01	3.49E-03	1.34E-05	8.75E-02	-	-	-	-
		60"	5.92E-04	-	-	-	1.07E-03	1.16E-05	1.48E-01	-	-	-	-	-	-	1.07E-03	1.16E-05	2.93E-01	9.55E-04	1.16E-05	2.71E-01	2.87E-03	1.16E-05	8.81E-02	-	-	-	-
		72"	5.83E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Russia	36"	4.45E-04	-	-	-	1.50E-03	1.72E-05	-7.15E-03	1.61E-03	1.72E-05	-8.73E-03	1.43E-03	1.72E-05	1.46E-02	1.50E-03	1.72E-05	1.30E-02	1.43E-03	1.72E-05	1.57E-02	-	-	-	1.43E-03	1.72E-05	8.66E-03	
		48"	4.31E-04	-	-	-	1.23E-03	1.34E-05	-6.86E-03	1.31E-03	1.34E-05	-8.41E-03	1.09E-03	1.34E-05	1.49E-02	1.23E-03	1.34E-05	1.30E-02	1.09E-03	1.34E-05	1.61E-02	-	-	-	1.09E-03	1.34E-05	9.02E-03	
		60"	4.39E-04	-	-	-	1.07E-03	1.16E-05	-6.70E-03	1.14E-03	1.16E-05	-8.24E-03	9.55E-04	1.16E-05	1.51E-02	1.07E-03	1.16E-05	1.30E-02	9.55E-04	1.16E-05	1.62E-02	-	-	-	9.55E-04	1.16E-05	9.15E-03	
		72"	4.32E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	9.40E-03	
	China, Mid-East Coast	36"	4.59E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.47E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.56E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	4.49E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	5.10E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.50E-03	1.72E-05	1.24E-01	-	-	-	-	-	-	-	-	-	-
		48"	4.95E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.23E-03	1.34E-05	1.25E-01	-	-	-	-	-	-	-	-	-	-
		60"	5.04E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	1.25E-01	-	-	-	-	-	-	-	-	-	-
		72"	4.97E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 96: EMBODIED C2H4 & NET C2H4 SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30				
			Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Asia	North-East China	36"	4.59E-04	-	-	-	1.61E-03	1.72E-05	1.95E-01	1.48E-03	1.72E-05	1.67E-01	1.53E-03	1.72E-05	1.21E-01	1.58E-03	1.72E-05	5.14E-01	-	-	-	-	-	-	-	-	-	-
		48"	4.47E-04	-	-	-	1.31E-03	1.34E-05	1.95E-01	1.22E-03	1.34E-05	1.67E-01	1.25E-03	1.34E-05	1.21E-01	1.29E-03	1.34E-05	5.15E-01	-	-	-	-	-	-	-	-	-	-
		60"	4.56E-04	-	-	-	1.14E-03	1.16E-05	1.95E-01	1.06E-03	1.16E-05	1.68E-01	1.09E-03	1.16E-05	1.21E-01	1.12E-03	1.16E-05	5.15E-01	-	-	-	-	-	-	-	-	-	-
	South-East China	36"	4.49E-04	-	-	-	1.11E-03	1.16E-05	1.95E-01	1.27E-03	1.16E-05	1.67E-01	1.07E-03	1.16E-05	1.21E-01	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.59E-04	-	-	-	1.61E-03	1.72E-05	2.91E-01	1.48E-03	1.72E-05	2.49E-01	1.53E-03	1.72E-05	1.77E-01	1.58E-03	1.72E-05	5.83E-01	-	-	-	-	-	-	-	-	-	-
		60"	4.47E-04	-	-	-	1.31E-03	1.34E-05	2.91E-01	1.22E-03	1.34E-05	2.49E-01	1.25E-03	1.34E-05	1.77E-01	1.29E-03	1.34E-05	5.83E-01	-	-	-	-	-	-	-	-	-	-
	India	36"	4.49E-04	-	-	-	1.11E-03	1.16E-05	2.92E-01	1.06E-03	1.16E-05	2.49E-01	1.09E-03	1.16E-05	1.77E-01	1.12E-03	1.16E-05	5.83E-01	-	-	-	-	-	-	-	-	-	-
		48"	5.81E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	5.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.67E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.05E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.05E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Russia	36"	5.96E-04	-	-	-	1.61E-03	1.72E-05	1.38E-01	1.48E-03	1.72E-05	1.17E-01	1.53E-03	1.72E-05	8.11E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.81E-04	-	-	-	1.31E-03	1.34E-05	1.38E-01	1.22E-03	1.34E-05	1.17E-01	1.25E-03	1.34E-05	8.14E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.92E-04	-	-	-	1.14E-03	1.16E-05	1.38E-01	1.06E-03	1.16E-05	1.17E-01	1.09E-03	1.16E-05	8.16E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
	China, Mid-East Coast	36"	5.83E-04	-	-	-	1.11E-03	1.16E-05	1.38E-01	1.27E-03	1.16E-05	1.17E-01	1.07E-03	1.16E-05	8.16E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.45E-04	-	-	-	1.61E-03	1.72E-05	-1.32E-03	1.48E-03	1.72E-05	-3.01E-03	1.53E-03	1.72E-05	4.89E-03	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.31E-04	-	-	-	1.31E-03	1.34E-05	-1.00E-03	1.22E-03	1.34E-05	-2.73E-03	1.25E-03	1.34E-05	5.18E-03	-	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	4.39E-04	-	-	-	1.14E-03	1.16E-05	-8.32E-04	1.06E-03	1.16E-05	-2.57E-03	1.09E-03	1.16E-05	5.34E-03	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.32E-04	-	-	-	1.11E-03	1.16E-05	-8.02E-04	1.27E-03	1.16E-05	-2.78E-03	1.07E-03	1.16E-05	5.36E-03	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.49E-04	-	-	-	1.61E-03	1.72E-05	1.81E-01	1.48E-03	1.72E-05	1.55E-01	1.53E-03	1.72E-05	1.10E-01	-	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	4.47E-04	-	-	-	1.31E-03	1.34E-05	1.81E-01	1.22E-03	1.34E-05	1.55E-01	1.25E-03	1.34E-05	1.10E-01	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.56E-04	-	-	-	1.14E-03	1.16E-05	1.82E-01	1.06E-03	1.16E-05	1.55E-01	1.09E-03	1.16E-05	1.10E-01	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.49E-04	-	-	-	1.11E-03	1.16E-05	1.82E-01	1.27E-03	1.16E-05	1.55E-01	1.07E-03	1.16E-05	1.11E-01	-	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	5.10E-04	-	-	-	1.61E-03	1.72E-05	6.36E-02	1.48E-03	1.72E-05	5.49E-02	1.53E-03	1.72E-05	3.91E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	4.95E-04	-	-	-	1.31E-03	1.34E-05	6.39E-02	1.22E-03	1.34E-05	5.52E-02	1.25E-03	1.34E-05	3.94E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.04E-04	-	-	-	1.14E-03	1.16E-05	6.41E-02	1.06E-03	1.16E-05	5.54E-02	1.09E-03	1.16E-05	3.95E-02	-	-	-	-	-	-	-	-	-	-	-	-	-
	Turkey	36"	4.97E-04	-	-	-	1.11E-03	1.16E-05	6.41E-02	1.27E-03	1.16E-05	5.52E-02	1.07E-03	1.16E-05	3.95E-02	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 97: EMBODIED C2H4 & NET C2H4 SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Asia	North-East China	36"	4.59E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-03	1.72E-05	4.96E-01	1.61E-03	1.72E-05	3.96E-01	1.48E-03	1.72E-05	1.30E-01	
		48"	4.47E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.34E-05	4.96E-01	1.31E-03	1.34E-05	3.96E-01	1.24E-03	1.34E-05	1.30E-01
		60"	4.56E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.55E-04	1.16E-05	4.96E-01	1.14E-03	1.16E-05	3.96E-01	1.06E-03	1.16E-05	1.31E-01
		72"	4.49E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	4.96E-01	1.11E-03	1.16E-05	3.96E-01	1.27E-03	1.16E-05	1.30E-01
	South-East China	36"	4.59E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-03	1.72E-05	5.95E-01	1.61E-03	1.72E-05	4.72E-01	1.48E-03	1.72E-05	1.92E-01
		48"	4.47E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.34E-05	5.95E-01	1.31E-03	1.34E-05	4.72E-01	1.24E-03	1.34E-05	1.93E-01
		60"	4.56E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.55E-04	1.16E-05	5.95E-01	1.14E-03	1.16E-05	4.72E-01	1.06E-03	1.16E-05	1.93E-01
		72"	4.49E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	5.95E-01	1.11E-03	1.16E-05	4.72E-01	1.27E-03	1.16E-05	1.93E-01
	India	36"	5.81E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.67E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Japan	36"	4.05E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	4.00E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	3.93E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Middle East	36"	5.96E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	1.51E-01	1.48E-03	1.72E-05	1.29E-01	1.53E-03	1.72E-05	1.09E-01	1.43E-03	1.72E-05	3.03E-01	1.61E-03	1.72E-05	2.31E-01	1.48E-03	1.72E-05	8.88E-02
		48"	5.81E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	1.51E-01	1.22E-03	1.34E-05	1.29E-01	1.25E-03	1.34E-05	1.09E-01	1.09E-03	1.34E-05	3.03E-01	1.31E-03	1.34E-05	2.31E-01	1.24E-03	1.34E-05	8.90E-02
		60"	5.92E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	1.51E-01	1.06E-03	1.16E-05	1.29E-01	1.09E-03	1.16E-05	1.10E-01	9.55E-04	1.16E-05	3.03E-01	1.14E-03	1.16E-05	2.32E-01	1.06E-03	1.16E-05	8.92E-02
		72"	5.83E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	1.51E-01	1.27E-03	1.16E-05	1.29E-01	1.07E-03	1.16E-05	1.10E-01	7.11E-04	1.16E-05	3.03E-01	1.11E-03	1.16E-05	2.32E-01	1.27E-03	1.16E-05	8.90E-02
	Russia	36"	4.45E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-03	1.72E-05	1.65E-02	1.61E-03	1.72E-05	1.24E-02	1.48E-03	1.72E-05	-3.68E-03
		48"	4.31E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.34E-05	1.68E-02	1.31E-03	1.34E-05	1.27E-02	1.24E-03	1.34E-05	-3.42E-03
		60"	4.39E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.55E-04	1.16E-05	1.70E-02	1.14E-03	1.16E-05	1.29E-02	1.06E-03	1.16E-05	-3.25E-03
		72"	4.32E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	1.72E-02	1.11E-03	1.16E-05	1.29E-02	1.27E-03	1.16E-05	-3.45E-03
	China, Mid-East Coast	36"	4.59E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43E-03	1.72E-05	4.55E-01	1.61E-03	1.72E-05	3.58E-01	1.48E-03	1.72E-05	1.19E-01
		48"	4.47E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.34E-05	4.56E-01	1.31E-03	1.34E-05	3.58E-01	1.24E-03	1.34E-05	1.19E-01
		60"	4.56E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.55E-04	1.16E-05	4.56E-01	1.14E-03	1.16E-05	3.58E-01	1.06E-03	1.16E-05	1.20E-01
		72"	4.49E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05	4.56E-01	1.11E-03	1.16E-05	3.58E-01	1.27E-03	1.16E-05	1.19E-01
Turkey	36"	5.10E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	6.93E-02	-	-	-	-	-	-	1.61E-03	1.72E-05	1.98E-01	1.61E-03	1.72E-05	1.98E-01	-	-	-	
	48"	4.95E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	6.96E-02	-	-	-	-	-	-	-	-	-	1.31E-03	1.34E-05	1.98E-01	-	-	-	
	60"	5.04E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	6.98E-02	-	-	-	-	-	-	-	-	-	1.14E-03	1.16E-05	1.98E-01	-	-	-	
	72"	4.97E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	6.98E-02	-	-	-	-	-	-	-	-	-	1.11E-03	1.16E-05	1.98E-01	-	-	-	

TABLE 98: EMBODIED C2H4 & NET C2H4 SAVINGS IN ASIA (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films			Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70		
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved		
Asia	North-East China	36"	4.59E-04	1.48E-03	1.72E-05	1.07E-01	1.53E-03	1.72E-05	9.44E-02	-	-	-	-	-	-	-	-	-	1.51E-03	1.72E-05	2.75E-01	1.48E-03	1.72E-05	2.13E-01	
		48"	4.47E-04	1.22E-03	1.34E-05	1.07E-01	1.25E-03	1.34E-05	9.44E-02	-	-	-	-	-	-	-	-	-	-	1.24E-03	1.34E-05	2.76E-01	1.22E-03	1.34E-05	2.13E-01
		60"	4.56E-04	1.06E-03	1.16E-05	1.08E-01	1.09E-03	1.16E-05	9.44E-02	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	2.76E-01	1.06E-03	1.16E-05	2.13E-01
		72"	4.49E-04	1.27E-03	1.16E-05	1.07E-01	1.07E-03	1.16E-05	9.44E-02	-	-	-	-	-	-	-	-	-	-	1.06E-03	1.16E-05	2.76E-01	1.05E-03	1.16E-05	2.13E-01
	South-East China	36"	4.59E-04	1.48E-03	1.72E-05	1.57E-01	1.53E-03	1.72E-05	1.38E-01	-	-	-	-	-	-	-	-	-	-	1.51E-03	1.72E-05	3.45E-01	1.48E-03	1.72E-05	2.13E-01
		48"	4.47E-04	1.22E-03	1.34E-05	1.57E-01	1.25E-03	1.34E-05	1.38E-01	-	-	-	-	-	-	-	-	-	-	1.24E-03	1.34E-05	3.45E-01	1.22E-03	1.34E-05	2.13E-01
		60"	4.56E-04	1.06E-03	1.16E-05	1.58E-01	1.09E-03	1.16E-05	1.38E-01	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	3.45E-01	1.06E-03	1.16E-05	2.13E-01
		72"	4.49E-04	1.27E-03	1.16E-05	1.57E-01	1.07E-03	1.16E-05	1.38E-01	-	-	-	-	-	-	-	-	-	-	1.06E-03	1.16E-05	3.45E-01	1.05E-03	1.16E-05	2.13E-01
	India	36"	5.81E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	1.53E-03	1.72E-05	1.44E-01	-	-	-	1.48E-03	1.72E-05	7.11E-02
		48"	5.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25E-03	1.34E-05	1.45E-01	-	-	-	1.22E-03	1.34E-05	7.14E-02
		60"	5.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.16E-05	1.45E-01	-	-	-	1.06E-03	1.16E-05	7.16E-02
		72"	5.67E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	1.45E-01	-	-	-	1.05E-03	1.16E-05	7.16E-02
	Japan	36"	4.05E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	8.47E-02	1.55E-03	1.72E-05	7.08E-02	1.53E-03	1.72E-05	6.23E-02	1.51E-03	1.72E-05	4.60E-02	1.48E-03	1.72E-05	3.67E-02	
		48"	3.93E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	8.50E-02	1.27E-03	1.34E-05	7.11E-02	1.25E-03	1.34E-05	6.26E-02	1.24E-03	1.34E-05	4.63E-02	1.22E-03	1.34E-05	3.70E-02	
		60"	4.00E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	8.52E-02	1.10E-03	1.16E-05	7.13E-02	1.09E-03	1.16E-05	6.27E-02	1.07E-03	1.16E-05	4.65E-02	1.06E-03	1.16E-05	3.71E-02	
		72"	3.93E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	8.52E-02	1.08E-03	1.16E-05	7.13E-02	1.07E-03	1.16E-05	6.27E-02	1.06E-03	1.16E-05	4.65E-02	1.05E-03	1.16E-05	3.71E-02	
	Middle East	36"	5.96E-04	1.48E-03	1.72E-05	7.16E-02	1.53E-03	1.72E-05	6.25E-02	1.61E-03	1.72E-05	3.01E-01	1.55E-03	1.72E-05	2.34E-01	1.53E-03	1.72E-05	1.98E-01	1.51E-03	1.72E-05	1.36E-01	1.48E-03	1.72E-05	9.73E-02	
		48"	5.81E-04	1.22E-03	1.34E-05	7.19E-02	1.25E-03	1.34E-05	6.25E-02	1.31E-03	1.34E-05	3.02E-01	1.27E-03	1.34E-05	2.34E-01	1.25E-03	1.34E-05	1.99E-01	1.24E-03	1.34E-05	1.36E-01	1.22E-03	1.34E-05	9.76E-02	
		60"	5.92E-04	1.06E-03	1.16E-05	7.21E-02	1.09E-03	1.16E-05	6.25E-02	1.14E-03	1.16E-05	3.02E-01	1.10E-03	1.16E-05	2.34E-01	1.09E-03	1.16E-05	1.99E-01	1.07E-03	1.16E-05	1.37E-01	1.06E-03	1.16E-05	9.78E-02	
		72"	5.83E-04	1.27E-03	1.16E-05	7.19E-02	1.07E-03	1.16E-05	6.25E-02	1.11E-03	1.16E-05	3.02E-01	1.08E-03	1.16E-05	2.34E-01	1.07E-03	1.16E-05	1.99E-01	1.06E-03	1.16E-05	1.37E-01	1.05E-03	1.16E-05	9.78E-02	
	Russia	36"	4.45E-04	1.48E-03	1.72E-05	-3.07E-03	1.53E-03	1.72E-05	-5.05E-03	1.61E-03	1.72E-05	3.97E-03	1.55E-03	1.72E-05	6.48E-03	-	-	-	1.51E-03	1.72E-05	3.83E-03	1.48E-03	1.72E-05	5.12E-03	
		48"	4.31E-04	1.22E-03	1.34E-05	-2.79E-03	1.25E-03	1.34E-05	-5.05E-03	1.31E-03	1.34E-05	4.29E-03	1.27E-03	1.34E-05	6.78E-03	-	-	-	1.24E-03	1.34E-05	4.11E-03	1.22E-03	1.34E-05	5.41E-03	
		60"	4.39E-04	1.06E-03	1.16E-05	-2.64E-03	1.09E-03	1.16E-05	-5.05E-03	1.14E-03	1.16E-05	4.45E-03	1.10E-03	1.16E-05	6.94E-03	-	-	-	1.07E-03	1.16E-05	4.27E-03	1.06E-03	1.16E-05	5.56E-03	
		72"	4.32E-04	1.27E-03	1.16E-05	-2.84E-03	1.07E-03	1.16E-05	-5.05E-03	1.11E-03	1.16E-05	4.49E-03	1.08E-03	1.16E-05	6.96E-03	-	-	-	1.06E-03	1.16E-05	4.29E-03	1.05E-03	1.16E-05	5.58E-03	
	China, Mid-East Coast	36"	4.59E-04	1.48E-03	1.72E-05	9.65E-02	1.53E-03	1.72E-05	8.46E-02	-	-	-	-	-	-	-	-	-	1.51E-03	1.72E-05	2.20E-01	1.48E-03	1.72E-05	1.59E-01	
		48"	4.47E-04	1.22E-03	1.34E-05	9.67E-02	1.25E-03	1.34E-05	8.46E-02	-	-	-	-	-	-	-	-	-	1.24E-03	1.34E-05	2.21E-01	1.22E-03	1.34E-05	1.59E-01	
		60"	4.56E-04	1.06E-03	1.16E-05	9.69E-02	1.09E-03	1.16E-05	8.46E-02	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	2.21E-01	1.06E-03	1.16E-05	1.59E-01	
		72"	4.49E-04	1.27E-03	1.16E-05	9.67E-02	1.07E-03	1.16E-05	8.46E-02	-	-	-	-	-	-	-	-	-	1.06E-03	1.16E-05	2.21E-01	1.05E-03	1.16E-05	1.59E-01	
Turkey	36"	5.10E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.53E-03	1.72E-05	1.81E-01	1.51E-03	1.72E-05	1.45E-01	-	-	-		
	48"	4.95E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.25E-03	1.34E-05	1.81E-01	1.24E-03	1.34E-05	1.45E-01	-	-	-		
	60"	5.04E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.16E-05	1.81E-01	1.07E-03	1.16E-05	1.45E-01	-	-	-		
	72"	4.97E-04	-	-	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	1.81E-01	1.06E-03	1.16E-05	1.45E-01	-	-	-		

TABLE 99: EMBODIED C2H4 & NET C2H4 SAVINGS IN THE SOUTHERN HEMISPHERE

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Autumn Bronze 30			Bronze Silver 15			Bronze Silver 20			Bronze Silver Bronze 10			Grey Silver 15			Grey Silver Grey 10			LX70			Quantum Silver Quantum 10			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Southern Hemisphere	Southern Africa	36"	7.10E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	6.92E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49E-03	1.34E-05	-1.60E-01	-	-	-
		60"	7.08E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87E-03	1.16E-05	-1.60E-01	-	-	-
		72"	6.98E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	4.34E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	3.53E-02	1.43E-03	1.72E-05	8.36E-02	-	-	1.43E-03	1.72E-05	8.25E-02	-	-	-	1.43E-03	1.72E-05	8.50E-02	
		48"	4.22E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	3.56E-02	1.09E-03	1.34E-05	8.40E-02	-	-	1.09E-03	1.34E-05	8.29E-02	3.49E-03	1.34E-05	2.42E-02	1.09E-03	1.34E-05	8.53E-02	
		60"	4.28E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	3.58E-02	9.55E-04	1.16E-05	8.41E-02	-	-	9.55E-04	1.16E-05	8.30E-02	2.87E-03	1.16E-05	2.48E-02	9.55E-04	1.16E-05	8.54E-02	
		72"	4.22E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05
	Australia	36"	5.81E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		48"	5.65E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	5.75E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	5.67E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Brazil	36"	5.17E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	4.93E-02	1.43E-03	1.72E-05	1.20E-01	-	-	1.43E-03	1.72E-05	1.21E-01	-	-	-	1.43E-03	1.72E-05	1.25E-01	
		48"	3.98E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	4.97E-02	1.09E-03	1.34E-05	1.21E-01	-	-	1.09E-03	1.34E-05	1.21E-01	3.49E-03	1.34E-05	3.72E-02	1.09E-03	1.34E-05	1.25E-01	
		60"	4.05E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	4.99E-02	9.55E-04	1.16E-05	1.21E-01	-	-	9.55E-04	1.16E-05	1.21E-01	2.87E-03	1.16E-05	3.78E-02	9.55E-04	1.16E-05	1.26E-01	
		72"	3.98E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11E-04	1.16E-05

TABLE 100: EMBODIED C2H4 & NET C2H4 SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films			Quantum Silver Quantum 20			Silver 20			Silver 35			Silver 50			Silver AG 25 Low-e			Slate 10			Slate 20			Slate 30		
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved		
Southern Hemisphere	Southern Africa	36"	7.10E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	6.92E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.08E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.98E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	4.34E-04	1.61E-03	1.72E-05	7.33E-02	-	-	-	-	-	-	-	-	-	-	-	1.72E-03	2.21E-05	8.44E-02	1.65E-03	2.21E-05	7.33E-02	-	-	-	-	-
		48"	4.22E-04	1.31E-03	1.34E-05	7.37E-02	-	-	-	-	-	-	-	-	-	-	-	1.40E-03	1.71E-05	8.48E-02	1.34E-03	1.71E-05	7.37E-02	-	-	-	-	-
		60"	4.28E-04	1.14E-03	1.16E-05	7.38E-02	-	-	-	-	-	-	-	-	-	-	-	1.20E-03	1.46E-05	8.50E-02	1.16E-03	1.46E-05	7.38E-02	-	-	-	-	-
		72"	4.22E-04	1.11E-03	1.16E-05	7.39E-02	-	-	-	-	-	-	-	-	-	-	-	1.14E-03	1.25E-05	8.50E-02	1.10E-03	1.25E-05	7.39E-02	-	-	-	-	-
	Australia	36"	5.81E-04	-	-	-	1.61E-03	1.72E-05	1.35E-01	1.48E-03	1.72E-05	1.16E-01	-	-	-	-	-	1.72E-03	2.21E-05	2.89E-01	1.65E-03	2.21E-05	2.51E-01	-	-	-	-	-
		48"	5.65E-04	-	-	-	1.31E-03	1.34E-05	1.35E-01	1.22E-03	1.34E-05	1.16E-01	-	-	-	-	-	1.40E-03	1.71E-05	2.89E-01	1.34E-03	1.71E-05	2.52E-01	-	-	-	-	-
		60"	5.75E-04	-	-	-	1.14E-03	1.16E-05	1.35E-01	1.06E-03	1.16E-05	1.16E-01	-	-	-	-	-	1.20E-03	1.46E-05	2.90E-01	1.16E-03	1.46E-05	2.52E-01	-	-	-	-	-
		72"	5.67E-04	-	-	-	1.11E-03	1.16E-05	1.36E-01	1.27E-03	1.16E-05	1.16E-01	-	-	-	-	-	1.14E-03	1.25E-05	2.90E-01	1.10E-03	1.25E-05	2.52E-01	-	-	-	-	-
Brazil	36"	5.17E-04	-	-	-	1.61E-03	1.72E-05	5.62E-02	-	-	-	-	-	-	-	-	1.72E-03	2.21E-05	1.26E-01	-	-	-	-	-	-	-	-	
	48"	3.98E-04	-	-	-	1.31E-03	1.34E-05	5.66E-02	-	-	-	-	-	-	-	-	1.40E-03	1.71E-05	1.26E-01	-	-	-	-	-	-	-	-	
	60"	4.05E-04	-	-	-	1.14E-03	1.16E-05	5.68E-02	-	-	-	-	-	-	-	-	1.20E-03	1.46E-05	1.26E-01	-	-	-	-	-	-	-	-	
	72"	3.98E-04	-	-	-	1.14E-03	1.16E-05	5.68E-02	-	-	-	-	-	-	-	-	1.14E-03	1.25E-05	1.26E-01	-	-	-	-	-	-	-	-	

TABLE 101: EMBODIED C2H4 & NET C2H4 SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Slate 40			Slate 50			Solar Bronze 20			Solar Bronze 35			Solar Bronze 50			Stainless Steel 10			Stainless Steel 20			Stainless Steel 30			
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	
Southern Hemisphere	Southern Africa	36"	7.10E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.61E-03	1.72E-05	-8.64E-02	-	-	-	
		48"	6.92E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.31E-03	1.34E-05	-8.61E-02	-	-	-
		60"	7.08E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14E-03	1.16E-05	-8.59E-02	-	-	-
	Argentina	72"	6.98E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.11E-03	1.16E-05	-8.59E-02	-	-	-
		36"	4.34E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	3.58E-02	-	-	-	-	-	-	1.43E-03	1.72E-05	8.93E-02	1.61E-03	1.72E-05	7.46E-02	1.48E-03	1.72E-05	2.68E-02
		48"	4.22E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	3.61E-02	-	-	-	-	-	-	1.09E-03	1.34E-05	8.97E-02	1.31E-03	1.34E-05	7.49E-02	1.24E-03	1.34E-05	2.70E-02
	Australia	60"	4.28E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	3.62E-02	-	-	-	-	-	-	9.55E-04	1.16E-05	8.98E-02	1.14E-03	1.16E-05	7.51E-02	1.06E-03	1.16E-05	2.72E-02
		72"	4.22E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	3.63E-02	-	-	-	-	-	-	7.11E-04	1.16E-05	9.01E-02	1.11E-03	1.16E-05	7.51E-02	1.27E-03	1.16E-05	2.70E-02
		36"	5.81E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	1.46E-01	1.48E-03	1.72E-05	1.26E-01	-	-	-	-	-	-	1.61E-03	1.72E-05	2.17E-01	-	-	-
	Brazil	48"	5.65E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	1.46E-01	1.22E-03	1.34E-05	1.27E-01	-	-	-	-	-	-	1.31E-03	1.34E-05	2.17E-01	-	-	-
		60"	5.75E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	1.46E-01	1.06E-03	1.16E-05	1.27E-01	-	-	-	-	-	-	1.14E-03	1.16E-05	2.17E-01	-	-	-
		72"	5.67E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	1.46E-01	1.27E-03	1.16E-05	1.27E-01	-	-	-	-	-	-	1.11E-03	1.16E-05	2.18E-01	-	-	-
36"		5.17E-04	-	-	-	-	-	-	1.61E-03	1.72E-05	5.03E-02	-	-	-	-	-	-	1.43E-03	1.72E-05	1.32E-01	1.61E-03	1.72E-05	1.08E-01	1.48E-03	1.72E-05	3.86E-02	
Brazil	48"	3.98E-04	-	-	-	-	-	-	1.31E-03	1.34E-05	5.07E-02	-	-	-	-	-	-	1.09E-03	1.34E-05	1.32E-01	1.31E-03	1.34E-05	1.08E-01	1.24E-03	1.34E-05	3.90E-02	
	60"	4.05E-04	-	-	-	-	-	-	1.14E-03	1.16E-05	5.09E-02	-	-	-	-	-	-	9.55E-04	1.16E-05	1.32E-01	1.14E-03	1.16E-05	1.08E-01	1.06E-03	1.16E-05	3.92E-02	
Brazil	72"	3.98E-04	-	-	-	-	-	-	1.11E-03	1.16E-05	5.09E-02	-	-	-	-	-	-	7.11E-04	1.16E-05	1.32E-01	1.11E-03	1.16E-05	1.08E-01	1.27E-03	1.16E-05	3.90E-02	

TABLE 102: EMBODIED C2H4 & NET C2H4 SAVINGS IN THE SOUTHERN HEMISPHERE (CONT.)

15 Year Lifecycle (kg C2H4 / Meter ²)		All Films	Stainless Steel 35			Stainless Steel 50			Sterling 20			Sterling 40			Sterling 50			Sterling 60			Sterling 70				
		Transportation to Customer	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved	Manufacturing	End-of-Life	Net C2H4 Saved		
Southern Hemisphere	Southern Africa	36"	7.10E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		48"	6.92E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60"	7.08E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72"	6.98E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Argentina	36"	4.34E-04	-	-	-	-	-	-	-	-	-	-	-	1.53E-03	1.72E-05	6.44E-02	-	-	-	1.48E-03	1.72E-05	3.17E-02		
		48"	4.22E-04	-	-	-	-	-	-	-	-	-	-	-	1.25E-03	1.34E-05	6.47E-02	-	-	-	1.22E-03	1.34E-05	3.20E-02		
		60"	4.28E-04	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.16E-05	6.48E-02	-	-	-	1.06E-03	1.16E-05	3.21E-02		
		72"	4.22E-04	-	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	6.49E-02	-	-	-	1.05E-03	1.16E-05	3.21E-02		
	Australia	36"	5.81E-04	1.48E-03	1.72E-05	7.61E-02	1.53E-03	1.72E-05	6.71E-02	1.61E-03	1.72E-05	2.86E-01	1.55E-03	1.72E-05	2.27E-01	1.53E-03	1.72E-05	1.86E-01	1.51E-03	1.72E-05	1.32E-01	1.48E-03	1.72E-05	9.48E-02	
		48"	5.65E-04	1.22E-03	1.34E-05	7.64E-02	1.25E-03	1.34E-05	6.74E-02	1.31E-03	1.34E-05	2.86E-01	1.27E-03	1.34E-05	2.27E-01	1.25E-03	1.34E-05	1.86E-01	1.24E-03	1.34E-05	1.32E-01	1.22E-03	1.34E-05	9.51E-02	
		60"	5.75E-04	1.06E-03	1.16E-05	7.65E-02	1.09E-03	1.16E-05	6.76E-02	1.14E-03	1.16E-05	2.86E-01	1.10E-03	1.16E-05	2.27E-01	1.09E-03	1.16E-05	1.86E-01	1.07E-03	1.16E-05	1.32E-01	1.06E-03	1.16E-05	9.52E-02	
		72"	5.67E-04	1.27E-03	1.16E-05	7.63E-02	1.07E-03	1.16E-05	6.76E-02	1.11E-03	1.16E-05	2.86E-01	1.08E-03	1.16E-05	2.27E-01	1.07E-03	1.16E-05	1.86E-01	1.06E-03	1.16E-05	1.32E-01	1.05E-03	1.16E-05	9.52E-02	
	Brazil	36"	5.17E-04	-	-	-	-	-	-	-	-	-	-	-	1.53E-03	1.72E-05	1.01E-01	-	-	-	1.48E-03	1.72E-05	4.63E-02		
		48"	3.98E-04	-	-	-	-	-	-	-	-	-	-	-	1.25E-03	1.34E-05	1.01E-01	-	-	-	1.22E-03	1.34E-05	4.67E-02		
		60"	4.05E-04	-	-	-	-	-	-	-	-	-	-	-	1.09E-03	1.16E-05	1.01E-01	-	-	-	1.06E-03	1.16E-05	4.68E-02		
		72"	3.98E-04	-	-	-	-	-	-	-	-	-	-	-	1.07E-03	1.16E-05	1.01E-01	-	-	-	1.05E-03	1.16E-05	4.69E-02		

7.10 Interpretation

Acidification (SO₂e) is offset by the use phase in all of the regions studied, and for all film types. The majority of the embodied acidification comes from the burning of fossil fuels. Because of this, transportation and electricity generation contribute largely to the embodied acidification. Therefore, that regions in which a large portion of the electricity is generated from fossil fuels will offset more SO₂e, and at a faster rate, than countries with little or no fossil fuel electricity generation. The net SO₂e savings varies between 14.6kg/m² and 0.0697kg/m², a difference of 14.5kg/m².

Eutrophication (PO₄e) is offset by the use phase in all of the regions studied, and for all film types. The embodied eutrophication is largely from aircraft transportation, and electricity generation. Regions with large amounts of fossil fuel used towards electricity generation, and regions close to the manufacturing plant in San Diego will offset more PO₄e, and at a faster rate, than countries with little or no fossil fuel electricity generation and that require air transportation to receive the product. The range of net PO₄e saved varies between 0.579kg/m² and 0.00678kg/m², a difference of 0.572kg/m².

Fossil Fuel Use (MJe) is offset by all of the films types, in many of the regions studies. In France, none of the window films were able to offset the embodied fossil fuel use, and in Scandinavia, only five of the films offset the embodied fossil fuel use. This is due to the fact that electricity generation in both regions uses very few fossil fuels, so it would take a large reduction in electricity to create an offset of fossil fuel use. As well, the Scandinavian the climate is generally cool, and installing a window film in this climate may result in a greater heating load. For films that block a lot of the incoming infrared radiation, the heating penalty can outweigh the cooling savings. The net fossil fuel use ranges between 2,540MJe and -2,980MJe, a difference of 5,520MJe.

Global Warming Potential (CO₂e) is offset by all of the film types, in many of the regions studied. France and Canada are the two regions where the application of SGSG window film may not offset the embodied global warming potential. This is because these two countries use very few fossil fuels in their electricity generation as well as the fact that Canada has a very cool climate with little or no air conditioning needs, which may result in a heating penalty. In all other regions, the amount of embodied CO₂e in SGSG's architectural solar-control window films from manufacture and transportation is low compared to the emissions related to the use of the films. The amount of CO₂e saved varies between 1,530kg/m² and -56kg/m², a difference of 1,586kg/m².

Ozone Layer Depletion (CFC-11e) is offset by all of the films, in only some of the regions studied. The regions in which the embodied ozone layer depletion is offset are all very hot climates, which require a lot of air conditioning, and do not have a heating penalty. These regions include ASHRAE Climate Zone 1&2, Mexico, Southern Europe, Turkey, the Middle East, Africa, Argentina, and Brazil. Most of the embodied ozone layer depletion is obtained from the electricity generation, so countries that use large amounts of fossil fuels to generate electricity, will have better changes to offset the embodied ozone layer depletion. The net CFC-11e varies between 0.0000646kg/m² and -0.000041kg/m², a difference of 0.0001056kg/m².

Photochemical Oxidation (C₂H₄) is offset by all of the films in most of the regions studied. France and Scandinavia are the two regions where many of the films' embodied photochemical oxidation is not offset by the use of a window film. In France this is due to the low amounts of fossil fuel used for electricity generation. In Scandinavia, it is a combination of the low fossil fuel electricity, and the heating penalty incurred in a cold climate. The C₂H₄ savings varies between 0.595kg/m² and -0.00873kg/m², a difference of 0.604kg/m².

8 Reference List

PCR – Building Products (PCR 2006:02) by The Swedish Environmental Management Council

ISO 14025: Environmental labels and declarations – Type III environmental declarations – Principles and procedures

ISO 14040: Environmental management - Life cycle assessment – Principles and framework

ISO 14044: Environmental management - Life cycle assessment – Requirements and guidelines

PET Film Production (Including Packaging) Report for Plastics Europe

ASHRAE Standard 90.1 2004

ASHRAE Standard 90.2 2004

SimaPro v7.1.8 Software

Ecoinvent v2.1 Database for Life Cycle Engineering

Google Maps

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eia.doe.gov

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Material Safety and Data Sheets (MSDS)

Sales Data from Solar Gard

Utility Bills from Solar Gard

Bill of Materials from Solar Gard

Motor list from Solar Gard

CARROT Reports from Solar Gard