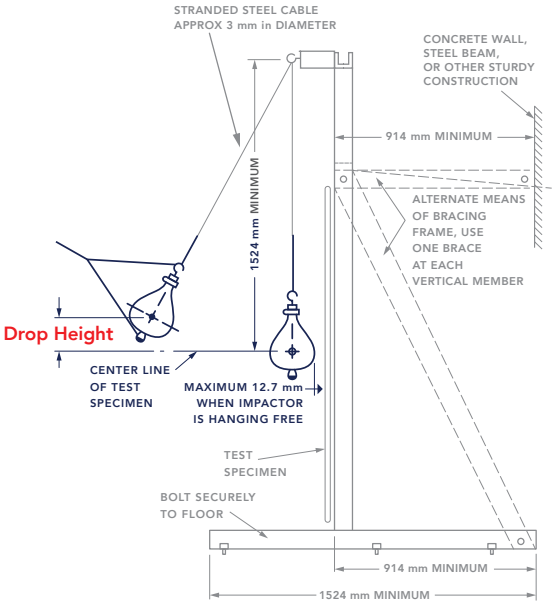
EN 12600 Safety Glazing Testing Summary

This European Standard specifies a pendulum impact test method for single flat panes of glass for use in buildings. The test is intended to classify flat glass products in three principal classes by performance under impact.

This standard is also referenced in the CPNI EBP 08/13 document for improving the blast resistance of glazing.

The classification by drop height corresponds to the amount of energy transferred by the impactor.



Impact Levels

Classification	Drop Height (mm)
3	190
2	450
1	1200

The drop height is the point of release from the center line of the impactor at rest.

Mode of breakage

Type A – numerous cracks appear forming separate fragments with sharp edges, some of which are large;

Type B – numerous cracks appear, but the fragments hold together and do not separate;

Type C – disintegration occurs, leading to a large number of small particles that are relatively harmless.

Mode of breakage typical of film coated and laminated glass

The chart below identifies the classification of Armorcoat safety films by thickness and tested glazing.

	CLASSIFICATION	
Film Type	4 mm	6 mm
100 micron (4 mil)	2B2	2B2
175 micron (7 mil)	NT	1B1
200 micron (8 mil)	1B1	1B1
250 micron (10 mil)	1B1	1B1
275 micron (11 mil)	NT	1B1
350 micron (14 mil)	NT	1B1

NT - not tested

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