

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Glass products
5	Fracture characteristics
5.1	General
5.2	Fragmentation
6	Dimensions and tolerances
6.1	Nominal thickness and thickness tolerances
6.2	Width and length (sizes)
6.2.1	General
6.2.2	Maximum and minimum sizes
6.2.3	Tolerances and squareness
6.2.4	Edge deformation produced by vertical heat strengthening
6.3	Flatness
6.3.1	General
6.3.2	Measurement of overall bow
6.3.3	Measurement of wave or roller wave distortion
6.3.3.1	General
6.3.3.2	Apparatus
6.3.3.3	Method
6.3.3.4	Limitations
6.3.4	Measurement of edge lift (for horizontally heat strengthened glass only)
6.3.4.1	Apparatus
6.3.4.2	Method
6.3.5	Measurement of perimeter deformation of glass produced by air cushion toughening process
6.3.6	Measurement of local distortion (for vertically heat strengthened glass only)
6.3.7	Limitation on overall bow, roller wave and edge lift for horizontally heat strengthened glass
6.3.8	Limitation on overall bow, wave and perimeter deformation for heat strengthened glass manufactured by air cushion process
6.3.9	Limitation on overall bow and local distortion for vertically heat strengthened glass
6.3.10	Other distortions
7	Edge work, holes, notches and cut-outs
7.1	General
7.2	Edge working of glass for heat strengthening
7.3	Profiled edges
7.4	Round holes
7.4.1	General
7.4.2	Diameter of holes
7.4.3	Limitations on position of holes
7.4.4	Tolerances on hole diameters
7.4.5	Tolerances on position of holes

7.5	Notches and cut-outs
7.6	Shaped panes
8	Fragmentation test
8.1	General
8.2	Dimensions and number of test specimens
8.3	Test procedure
8.4	Assessment of fragmentation
8.5	Evaluation of fragmentation
8.6	Test report
9	Other physical characteristics
9.1	Optical distortion
9.1.1	Heat strengthened glass produced by vertical heat strengthening
9.1.2	Heat strengthened glass produced by horizontal heat strengthening
9.1.3	Heat strengthened glass produced by the air cushion process
9.2	Anisotropy (iridescence)
9.3	Thermal durability
9.4	Mechanical strength
9.5	Surface pre-stress
10	Marking
11	Packaging
Annex A	(informative) Alternative method for the measurement of roller wave distortion
A.1	Apparatus
A.2	Method
A.3	Limitations
A.4	Alternative use of apparatus
Annex B	(informative) Method for the measurement of the surface pre-stress of heat strengthened glass
B.1	Measurement of surface pre-stress
B.2	Method
B.2.1	Principle
B.2.2	Calibration of the method
B.2.3	Measurement procedure
B.2.4	Results