



EN 12150-2:2004

GLASS IN BUILDING
THERMALLY TOUGHENED SODA LIME SILICATE SAFETY GLASS
INTENDED TO BE USED IN BUILDING AND CONSTRUCTION WORKS

DECLARATION OF PERFORMANCE

THIS IS TO CERTIFY THAT

CORNWALL GLASS MANUFACTURING PLYMOUTH

of

3 Beechwood Way

Langage

Plymouth

Devon

PL7 5HH

HAVE CONFORMED WITH EN 12150-2 ANNEX ZA

by

SUBMITTING GLASS' FOR INITIAL TYPE TESTING TO EN 12150-1, EN 1288-3 AND EN 12600

TESTING TO:	NOTIFIED TEST HOUSE	PRODUCTS		TEST REPORT No's
EN 12150-1	TÜV Rheinland Nederland B.V.	Clear	4 - 19.5mm	11919R-11-32471
	TÜV Rheinland Nederland B.V.	Hard Coat	4mm	11918R-11-32471
	TÜV Rheinland Nederland B.V.	Soft Coat	4 & 6mm	11917R-11-32471
EN 1288-3	TÜV Rheinland Nederland B.V.	Clear	4 -19.5mm	11919R-11-32471
	TÜV Rheinland Nederland B.V.	Hard Coat	4mm	11918R-11-32471
	TÜV Rheinland Nederland B.V.	Soft Coat	4 & 6mm	11917R-11-32471
EN 12600	TÜV Rheinland Nederland B.V.	Clear	4+mm	12100R-11-32471
	TÜV Rheinland Nederland B.V.	Obscure	4+mm	12102R-11-32471
	TÜV Rheinland Nederland B.V.	Hard Coat	4+mm	12101R-11-32471
	TÜV Rheinland Nederland B.V.	Soft Coat	4+mm	12099R-11-32471

PRODUCING A TECHNICAL FILE CONTAINING THE TEST REPORTS AND PERFORMANCE INDICATION PAPERS FOR ALL COMPONENTS

Signed:.....

Date:.....

Position:.....



CORNWALL GLASS MANUFACTURING PLYMOUTH

of
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Plymouth
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13

EN 12150-2

THERMALLY TOUGHENED SODA LIME SILICATE SAFETY GLASS
INTENDED TO BE USED IN BUILDING AND CONSTRUCTION WORKS

CLEAR GLASS* 4mm to 19mm

Characteristics	4mm	6mm	8mm	10mm	12mm	15mm	19mm
	Resistance to fire	npd					
Reaction to fire	A1						
External fire performance	npd						
Bullet resistance	npd						
Explosion resistance	npd						
Burglar resistance	npd						
Pendulum body impact resistance	1(c)2	1(c)1	1(c)1	1(c)1	1(c)1	1(c)1	1(c)1
Resistance against sudden temperature changes and temperature differentials	200k	200k	200k	200k	200k	200k	200k
Wind, snow permanent and imposed load resistance	4mm	6mm	8mm	10mm	12mm	15mm	19mm
Direct airborne sound insulation	29 (-2; -3) dB	31 (-2; -3) dB	32(-2; -3) dB	33(-2; -3) dB	34 (0; -2) dB	34(0; -2) dB	34(0; -2) dB
Thermal properties	5,8W/(m ² K)	5,7W/(m ² K)	5,7W/(m ² K)	5,6W/(m ² K)	5,5W/(m ² K)	5,8W/(m ² K)	5,3W/(m ² K)
Radiation properties:							
light transmission and reflection	0,90/0,08/0,08	0,88/0,08/0,08	0,88/0,08/0,08	0,87/0,08/0,08	0,85/0,08/0,08	0,83/0,08/0,08	0,81/0,07/0,07
solar energy characteristics	0,85/0,08/0,08	0,79/0,07/0,07	0,76/0,07/0,07	0,72/0,07/0,07	0,68/0,07/0,08	0,63/0,06/0,06	0,57/0,06/0,06

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EN 12150-2

**THERMALLY TOUGHENED SODA LIME SILICATE SAFETY GLASS
INTENDED TO BE USED IN BUILDING AND CONSTRUCTION WORKS**

4mm and 6mm Soft Coat (PLANITHERM)

Characteristics

	4mm	6mm
Resistance to fire	npd	
Reaction to fire	A1	
External fire performance	npd	
Bullet resistance	npd	
Explosion resistance	npd	
Burglar resistance	npd	
Pendulum body impact resistance	1(c)2	1(c)1
Resistance against sudden temperature changes and temperature differentials	200k	200k
Wind, snow permanent and imposed load resistance	4mm	6mm
Direct airborne sound insulation	29 (-2; -3) dB	32(-2; -3) dB
Thermal properties	3.3W/(m ² K)	3.2W/(m ² K)
<u>Radiation properties:</u>		
light transmission and reflection	0.88/0.06/0.05	0.86/0.06/0.04
solar energy characteristics	0.69/0.15/0.17	0.65/0.13/0.16

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EN 12150-2

**THERMALLY TOUGHENED SODA LIME SILICATE SAFETY GLASS
INTENDED TO BE USED IN BUILDING AND CONSTRUCTION WORKS**

4mm and 6mm Hard Coat (K)

Characteristics

	4mm	6mm
Resistance to fire	npd	
Reaction to fire	A1	
External fire performance	npd	
Bullet resistance	npd	
Explosion resistance	npd	
Burglar resistance	npd	
Pendulum body impact resistance	1(c)2	1(c)2
Resistance against sudden temperature changes and temperature differentials	200k	200k
Wind, snow permanent and imposed load resistance	4mm	6mm
Direct airborne sound insulation	29 (-2; -3) dB	31(-2; -3) dB
Thermal properties	3.7W/(m ² K)	3.7W/(m ² K)
<u>Radiation properties:</u>		
light transmission and reflection	0.82/0.11/0.12	0.81/0.11/0.11
solar energy characteristics	0.71/0.10/0.11	0.68/0.09/0.11

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**THERMALLY TOUGHENED SODA LIME SILICATE SAFETY GLASS
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4mm and 6mm Obscure (Flemish)

Characteristics

	4mm	6mm
Resistance to fire	npd	
Reaction to fire	A1	
External fire performance	npd	
Bullet resistance	npd	
Explosion resistance	npd	
Burglar resistance	npd	
Pendulum body impact resistance	1(c)2	1(c)2
Resistance against sudden temperature changes and temperature differentials	200k	200k
Wind, snow permanent and imposed load resistance	4mm	6mm
Direct airborne sound insulation	29 (-2; -3) dB	31(-2; -3) dB
Thermal properties	5.8W/(m ² K)	5.7W/(m ² K)
<u>Radiation properties:</u>		
light transmission and reflection	0.82/0.8/0.8	0.86/0.08/0.08
solar energy characteristics	0.78/0.07/0.07	0.73/0.07/0.07

Signed:.....

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