



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 St AUSTELL**

of

Stennack Road

Holmbush Industrial Estate

St. Austell

Cornwall

PL25 3JQ

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	TNO QUALITY SERVICES B.V.	Clear	4 - 19.5mm	TQS-RAP-07-E07.0xxx
	TNO QUALITY SERVICES B.V.	Hard Coat	4mm	TQS-RAP-07-E07.0xxx
	TNO QUALITY SERVICES B.V.	Soft Coat	4 & 6mm	TQS-RAP-07-E07.0xxx
EN 1288-3	TNO QUALITY SERVICES B.V.	Clear	4 -19.5mm	TQS-RAP-07-E07.0xxx
	TNO QUALITY SERVICES B.V.	Hard Coat	4mm	TQS-RAP-07-E07.0xxx
	TNO QUALITY SERVICES B.V.	Soft Coat	4 & 6mm	TQS-RAP-07-E07.0xxx
EN 12600	WINTech ENGINEERING LTD	Clear	4+mm	R1424/06/1158
		Obscure	4+mm	
	WINTech ENGINEERING LTD	Hard Coat	4+mm	R1425/06/1158
	WINTech ENGINEERING LTD	Soft Coat	4+mm	R1426/06/1158

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

Signed:.....

Date:.....

Position:.....



CORNWALL GLASS MANUFACTURING St AUSTELL

of  
Stenna & Road  
Holmbush Industrial Estate  
St. Austell  
Cornwall  
PL25 3JQ  
13

EN 12150-2

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

CLEAR GLASS<sup>®</sup> 4mm to 19mm

Characteristics	CLEAR GLASS <sup>®</sup> 4mm to 19mm						
	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	11c12	11c11	11c11	11c11	11c11	11c11	11c11
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 <sup>2</sup> K)	5.7W/(m <sup>2</sup> K)	5.7W/(m <sup>2</sup> K)	5.6W/(m <sup>2</sup> K)	5.5W/(m <sup>2</sup> K)	5.8W/(m <sup>2</sup> K)	5.3W/(m <sup>2</sup> 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**

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 <sup>2</sup> K)	3.2W/(m <sup>2</sup> 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**

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 <sup>2</sup> K)	3.7W/(m <sup>2</sup> 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 <sup>2</sup> K)	5.7W/(m <sup>2</sup> 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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