



CE Labels



The Construction Products Directive requires the removal of technical barriers to trade. Compliance with the harmonised standard EN 12150-2¹ will ensure this for thermally toughened soda lime silicate safety glass.



Contents



CLEAR	
3mm & 4mm	Page 2
5mm & 6mm	Page 3
8mm & 10mm	Page 4
12mm & 15mm	Page 5
GREEN	
4mm & 5mm	Page 6
6mm & 10mm	Page 7
GREY	
4mm & 5mm	Page 8
6mm	Page 9
BLUE	
4mm & 6mm	Page 10
BRONZE	
4mm & 5mm	Page 11
6mm & 8mm	Page 12
‘K’	
4mm & 6mm	Page 13
PATTERNS (4mm)	
Autumn Leaf & Charcoal Sticks	Page 14
Chantilly & Contora	Page 15
Cotswold & Digital	Page 16
Everglades & Flemish	Page 17
Florielle & Mayflower	Page 18
Minster & Oak	Page 19
Pelerine & Stippolyte	Page 20
Sycamore & Taffeta	Page 21
LOW IRON	
4mm	Page 22



¹ EN12150-2; Glass in building – Thermally toughened soda lime silicate safety glass – Part 2: Evaluation of Conformity/ Product standard



Clear Glass



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
3mm TG Toughened clear glass		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 3 mm 28 (-1;-4) dB 5.8 W/ (m ² K) 0.90/0.08/0.08 0.84/0.08/0.08	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened clear glass		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m ² K) 0.90/0.08/0.08 0.83/0.07/0.07	



	Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
5mm TG Toughened clear glass		
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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials		200K
Wind, Snow, Permanent And Imposed Load Resistance		5 mm
Direct Airborne Sound Insulation		30 (-1;-2) dB
Thermal Properties		5.8 W / (m ² K)
Radiation Properties:		
Light Transmittance And Reflectance		0.89/0.08/0.08
Solar Energy Characteristics		0.81/0.08/0.08

	Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
6mm TG Toughened clear glass		
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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials		200K
Wind, Snow, Permanent And Imposed Load Resistance		6 mm
Direct Airborne Sound Insulation		31 (-2;-3) dB
Thermal Properties		5.7 W / (m ² K)
Radiation Properties:		
Light Transmittance And Reflectance		0.88/0.08/0.08
Solar Energy Characteristics		0.79/0.07/0.07



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
8mm TG Toughened clear glass		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 8 mm 32 (-2;-3) dB 5.7 W / (m²K) 0.88/0.08/0.08 0.76/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
10mm TG Toughened clear glass		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 10 mm 33 (-2;-3) dB 5.6 W / (m²K) 0.87/0.08/0.08 0.72/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
12mm TG Toughened clear glass		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 12 mm 34 (0;-2) dB 5.5 W / (m²K) 0.85/0.08/0.08 0.68/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
15mm TG Toughened clear glass		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 15 mm 34 (0;-2) dB 5.5 W / (m²K) 0.83/0.08/0.08 0.63/0.07/0.07</p>	

Green Tint

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened green glass		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m ² K) 0.80/0.07/0.07 0.56/0.06/0.06	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
5mm TG Toughened green glass		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 5 mm 30 (-1;-2) dB 5.8 W / (m ² K) 0.78/0.07/0.07 0.51/0.06/0.06	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
6mm TG Toughened green glass		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 6 mm 31 (-2;-3) dB 5.7 W / (m²K) 0.75/0.07/0.07 0.46/0.06/0.06</p>	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
10mm TG Toughened green glass		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 10mm 33 (-2;-3) dB 5.6 W / (m²K) 0.67/0.07/0.07 0.35/0.05/0.05</p>	

Grey Tint



Toughglass Ltd
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07



EN 12150-2

Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works

4mm TG Toughened grey glass

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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	4 mm
Direct Airborne Sound Insulation	29 (-2;-3) dB
Thermal Properties	5.8 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.57/0.06/0.06
Solar Energy Characteristics	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

5mm TG Toughened grey glass

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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	5 mm
Direct Airborne Sound Insulation	30 (-1;-2) dB
Thermal Properties	5.8 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.50/0.06/0.06
Solar Energy Characteristics	0.51/0.05/0.05



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EN 12150-2

Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works

6mm TG Toughened grey glass

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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	6 mm
Direct Airborne Sound Insulation	31 (-2;-3) dB
Thermal Properties	5.7 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.44/0.05/0.05
Solar Energy Characteristics	0.45/0.05/0.05

Blue Tint



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158 Harbour Road
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07**



EN 12150-2

Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works

4mm TG Toughened Priva blue glass

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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	4 mm
Direct Airborne Sound Insulation	30 (-2;-4) dB
Thermal Properties	5.8 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.48/0.05/0.05
Solar Energy Characteristics	0.31/0.05/0.05



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EN 12150-2



Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works



6mm TG Toughened Priva blue glass



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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	6 mm
Direct Airborne Sound Insulation	31 (-2;-3) dB
Thermal Properties	5.7 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.35/0.05/0.05
Solar Energy Characteristics	0.20/0.04/0.04

Bronze Tint

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened bronze glass		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m ² K) 0.61/0.06/0.06 0.59/0.06/0.06	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
5mm TG Toughened bronze glass		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 5 mm 30 (-1;-2) dB 5.8 W / (m ² K) 0.55/0.06/0.06 0.53/0.06/0.06	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
<p align="center">EN 12150-2 Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works</p>		
<p align="center">6mm TG Toughened bronze glass</p>		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 6 mm 31 (-2;-3) dB 5.7 W / (m ² K) 0.50/0.06/0.06 0.47/0.06/0.06	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
<p align="center">EN 12150-2 Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works</p>		
<p align="center">8mm TG Toughened bronze glass</p>		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 8 mm 32 (-2;-3) dB 5.7 W / (m ² K) 0.40/0.05/0.05 0.38/0.05/0.05	

'K' Glass

**Toughglass Ltd
158 Harbour Road
Kilkeel
Co. Down
Northern Ireland
BT34 4YE
07**

**EN 12150-2**

Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works

4mm TG Toughened K glass

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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	4 mm
Direct Airborne Sound Insulation	29 (-2;-3) dB
Thermal Properties	3.7 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.82/0.11/0.12
Solar Energy Characteristics	0.71/0.10/0.11



**Toughglass Ltd
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07**



**EN 12150-2**



Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works



6mm TG Toughened K glass



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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	6 mm
Direct Airborne Sound Insulation	31 (-2;-3) dB
Thermal Properties	3.7 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.81/0.11/0.11
Solar Energy Characteristics	0.68/0.09/0.11



Pattern Glass



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass – Autumn Leaf		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m ² K) 0.88/0.08/0.08 0.78/0.07/0.07	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Charcoal Sticks		
Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics	NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m ² K) 0.88/0.08/0.08 0.78/0.07/0.07	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Chantilly		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Contora		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Cotswold		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Digital		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Everglade		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Flemish		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	



		<p style="text-align: center;">Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>			
EN 12150-2					
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works					
4mm TG Toughened pattern glass - Florielle					
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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials					200K
Wind, Snow, Permanent And Imposed Load Resistance					4 mm
Direct Airborne Sound Insulation					29 (-2;-3) dB
Thermal Properties					5.8 W / (m ² K)
Radiation Properties:					
Light Transmittance And Reflectance					0.88/0.08/0.08
Solar Energy Characteristics					0.78/0.07/0.07



		<p style="text-align: center;">Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>			
EN 12150-2					
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works					
4mm TG Toughened pattern glass - Mayflower					
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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials					200K
Wind, Snow, Permanent And Imposed Load Resistance					4 mm
Direct Airborne Sound Insulation					29 (-2;-3) dB
Thermal Properties					5.8 W / (m ² K)
Radiation Properties:					
Light Transmittance And Reflectance					0.88/0.08/0.08
Solar Energy Characteristics					0.78/0.07/0.07



	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Minster		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Oak		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Pelerine		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	

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EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Stippolyte		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Sycamore		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	

	<p>Toughglass Ltd 158 Harbour Road Kilkeel Co. Down Northern Ireland BT34 4YE 07</p>	
EN 12150-2		
Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works		
4mm TG Toughened pattern glass - Taffeta		
<p>Resistance To Fire Reaction To Fire External Fire Performance Bullet Resistance Explosion Resistance Burglar Resistance Pendulum Body Impact Resistance Resistance Against Sudden Temperature Changes And Temperature Differentials Wind, Snow, Permanent And Imposed Load Resistance Direct Airborne Sound Insulation Thermal Properties Radiation Properties: Light Transmittance And Reflectance Solar Energy Characteristics</p>	<p>NPD A1 NPD NPD NPD NPD 1(C)1 200K 4 mm 29 (-2;-3) dB 5.8 W / (m²K) 0.88/0.08/0.08 0.78/0.07/0.07</p>	

Low Iron



Toughglass Ltd
158 Harbour Road
Kilkeel
Co. Down
Northern Ireland
BT34 4YE
07



EN 12150-2

Thermally toughened soda lime silicate safety glass, intended to be used in building and construction works

4mm TG Toughened low iron glass

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)1
Resistance Against Sudden Temperature Changes And Temperature Differentials	200K
Wind, Snow, Permanent And Imposed Load Resistance	4 mm
Direct Airborne Sound Insulation	29 (-2;-3) dB
Thermal Properties	5.8 W / (m ² K)
Radiation Properties:	
Light Transmittance And Reflectance	0.91/0.08/0.08
Solar Energy Characteristics	0.90/0.08/0.08