



**DECLARATION OF PERFORMANCE**  
**TG/CE-2152CL-TOLS-B**  
**CONSTRUCTION PRODUCT REGULATION 2011**

We hereby certify that the glass as stipulated below complies with the relevant provisions of the E.C. construction product regulation & the requirement of:

**Product Identification:**

21.52mm Clear Toughened & SGP Laminated Glass

**Type / Batch / Serial Number:**

Each glass has its own identification label attached including bar code for traceability.

**Intended use:**

Glass in building — Clear Toughened and laminated safety glass.

**Manufacturer:**

Toughglaze (UK) Ltd  
Unit 1, Badger Rise, Ridgmont, Brogborough, MK43 0YL

**System Assessment:**

System 2+

**Harmonised Standard No. :**

EN 14449:2005

### Declared Performance:

Light:			Energy:		
Transmittance	LT	49.2%	Direct Transmittance	ET	53.6%
	UV %	0%	Reflectance	ER	8.4%
Reflectance Out	LR Out	11.2%	Absorptance	EA	38.0%
Reflectance In	LR in	11.2%	Total transmittance	g	63%
			Shading Coefficient Total		0.75
			Shading Coefficient Shortwave		-----
Performance Code:			Sound Reduction	R <sub>w</sub> (C;C <sub>tr</sub> ) dB	NPD
U <sub>g</sub> – value/Light/Energy		4.6/49.2/63	Thermal Transmittance	W/m <sup>2</sup> K	4.6
Ra		95			
Additional Values:					
Bullet Resistance	EN 1063	NPD	Burglar Resistance	EN 356	P5A
Explosion Resistance	ISO 16933	NPD	Pendulum Body Impact Resistance	EN 12600	1(B)1
Load Resistance (mm)		27.0	Resistance to Temperature		40
Reaction to Fire	EN 13501	NPD	Differentials (K)		
Resistance to Fire	EN 1364	NPD	External Fire Performance		NPD
<p>* The values of some of the characteristics are stated as NPD which is for “No Performance Determined”.</p> <p>* Calculations are made according to EN 410, EN 673, EN ISO 52022-3, EN 12898:2019.</p> <p>* All data and values are subject to tolerances and ToughGlaze (UK) Ltd Terms &amp; Conditions.</p> <p>* Notified Body: ToughGlaze (UK) Ltd R&amp;D Department.</p> <p>* TG report (Ref 410 42167).</p>					

Signed for and on behalf of manufacturer by:

Mr. Bhavik Varsani  
(Managing director)



Location: London, UK

Date: Wednesday, 07 August 2019

ToughGlaze (UK) Ltd Unit 1, Badgers Rise, Ridgmont, Brogborough, Bedford, MK43 OYL