



**DECLARATION OF PERFORMANCE**  
**TG/CE-195CL-T0LP-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:**

19.5mm Clear Toughened TG-WR+™ 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	87%	Direct Transmittance	ET	59%
	UV %	0%	Reflectance	ER	7%
Reflectance Out	LR Out	8%	Absorptance	EA	28%
Reflectance In	LR in	8%	Total transmittance	g	71%
			Shading Coefficient Total		0.82
			Shading Coefficient Shortwave		0.77
Performance Code:			Sound Reduction	R <sub>w</sub> (C;C <sub>tr</sub> ) dB	NPD
U <sub>g</sub> – value/Light/Energy		5.1/87/71	Thermal Transmittance	W/m <sup>2</sup> K	5.1
Ra		94			
Additional Values:					
Bullet Resistance	EN 1063	NPD	Burglar Resistance	EN 356	P4A
Explosion Resistance	ISO 16933	NPD	Pendulum Body Impact Resistance	EN 12600	1(B)1
Load Resistance (mm)		19.5	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>* Thermal and optical calculations as per EN 410 and 673/12898.</p> <p>* All data and values are subject to tolerances and ToughGlaze (UK) Ltd Terms &amp; Conditions.</p> <p>* Acoustic calculations as per EN ISO 10140-3/EN ISO 10140-2 .</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 0YL

Web / Email Enquiries

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