



**DECLARATION OF PERFORMANCE**  
**TG/CE-119LI-TOLT-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:**

12mm TG Switch (Switchable Laminated Glass)

**Type / Batch / Serial Number:**

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

**Intended use:**

Glass in building — Laminated glass 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	83%	Direct Transmittance	ET	83%
	UV %	1%	Reflectance	ER	10%
Reflectance Out	LR Out	10%	Absorptance	EA	32%
Reflectance In	LR in	10%	Total transmittance	g	85%
			Shading Coefficient Total		1.14
			Shading Coefficient Shortwave		1.14
Performance Code:			Sound Reduction	R <sub>w</sub> (C;C <sub>tr</sub> ) dB	37(-1;-2)
U <sub>g</sub> – value/Light/Energy	5.4 / 85 / 71		Thermal Transmittance	W/m <sup>2</sup> K	4.2
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)		11.9	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 and 673/12898.</p> <p>* All data and values are subject to tolerances and ToughGlaze (UK) Ltd Terms &amp; Conditions.</p> <p>* Notified Body: BSI (No 0086).</p> <p>* BSI report (Ref 2370/7948560).</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

General Enquiries

Quotations / Processing

Accounts Department

W www.toughglaze.com

T +44 (0) 208 838 4400

T +44 (0) 208 838 4400

T +44 (0) 208 955 6115/6110

Company Reg. No. 3193221

E info@toughglaze.com

F +44 (0) 208 838 3311

F +44 (0) 208 838 3311

F +44 (0) 208 963 0666

VAT No. GB 672 9194 01