



**DECLARATION OF PERFORMANCE**  
**TG/CE-128CL-A0LP-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:**

12.8mm Clear 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

**ToughGlaze (UK) Ltd    Unit 1, Badgers Rise, Ridgmont, Brogborough, Bedford, MK43 0YL**

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### Declared Performance:

| Light:                              |        |               | Energy:                       |  |           |
|-------------------------------------|--------|---------------|-------------------------------|--|-----------|
| Transmittance                       | LT     | 85%           | Direct Transmittance          | ET                                     | 64%       |
|                                     | UV %   | 1%            | Reflectance                   | ER                                     | 6%        |
| Reflectance Out                     | LR Out | 8%            | Absorptance                   | EA                                     | 29%       |
| Reflectance In                      | LR in  | 8%            | Total transmittance           | g                                      | 71%       |
|                                     |        |               | Shading Coefficient Total     |  | 0.82      |
| Performance Code:                   |        |               | Shading Coefficient Shortwave |  | 0.74      |
| U <sub>g</sub> – value/Light/Energy |        | 5.7 / 88 / 82 | Sound Reduction               | R <sub>w</sub> (C;C <sub>tr</sub> ) dB | 37(-1;-3) |
| Ra                                  |        | 96            | Thermal Transmittance         | W/m <sup>2</sup> K                     | 5.4       |

| Additional Values:   |           |      |                                 |          |       |
|----------------------|-----------|------|---------------------------------|----------|-------|
| Bullet Resistance    | EN 1063   | NPD  | Burglar Resistance              | EN 356   | P2A   |
| Explosion Resistance | ISO 16933 | NPD  | Pendulum Body Impact Resistance | EN 12600 | 1(B)1 |
| Load Resistance (mm) |           | 12.8 | Resistance to Temperature       |          | 40    |
| Reaction to Fire     | EN 13501  | NPD  | Differentials (K)               |          |       |
| Resistance to Fire   | EN 1364   | NPD  | External Fire Performance       |          | NPD   |

- \* The values of some of the characteristics are stated as NPD which is for “No Performance Determined”.
- \* Calculations are made according to EN 410 and 673/12898.
- \* All data and values are subject to tolerances and ToughGlaze (UK) Ltd Terms & Conditions.
- \* Notified Body: BSI (No 0086).
- \* BSI report (Ref 2370/7948560).

Signed for and on behalf of manufacturer by:

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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**