

Certificate of Product Approval

Certificate Number: 997a

Issue: 03

ESG Group Limited

Units 1-3
Moss Road
Witham
Essex
CM8 3UQ

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

Products

ESG Secure 001	ESG Secure 012
ESG Secure 013	ESG Secure 113
ESG Secure 123	ESG Secure 224
ESG Secure 234	ESG Secure 235

laminated security glazing

Standard

LPS 1270: Issue 1
Requirements and testing procedures for the LPCB approval and listing of intruder resistant security glazing units

This certificate and appendix is maintained and held in force through regular surveillance activities



Signed for LPCB

Paul Dillon
Verifier

29 June 2016
Date of Issue

26 November 2010
Date of First Issue



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Laminated Security Glazing

Product	Type	Nominal Total Thickness (mm)	Nominal Weight (kg/m ²)	Security Rating	LPCB Ref. No.
ESG Secure 001	Laminated single glazing unit ^{1,2,3}	16.5	37	001	997a/09
ESG Secure 012	Laminated single glazing unit ^{1,2,3}	20.5	38	012	997a/10
ESG Secure 013	Laminated single glazing unit ^{1,2,3}	22.5	41	013	997a/11
ESG Secure 123	Laminated single glazing unit ^{1,2,3}	26.5	46	123	997a/12
ESG Secure 113	Laminated single glazing unit ^{1,2,3}	34	61	113	997a/13
ESG Secure 224	Laminated single glazing unit ^{1,2,3}	42	72	224	997a/14
ESG Secure 234	Laminated single glazing unit ^{1,2,3}	45	71	234	997a/15
ESG Secure 235	Laminated single glazing unit ^{1,2,3}	60	100	235	997a/16

Optional Features⁴

Optional Feature	Description
ESG Switchable LCD privacy film	The ESG Switchable LCD privacy film allows the glazing unit to be transparent or opaque (diffused white) depending on the electric current passing through it.

Notes:

- Each glazing unit incorporates a 6 mm thick toughened glass layer on the attack face of the glazing unit which may be replaced by 6 mm thick float glass, 6 mm thick heat strengthened glass or 6 mm thick 'ESG Pyrotech' glass. These options may affect the nominal thickness and weight noted for the 'ESG Secure' glazing unit. When the glazing unit incorporates 'ESG Pyrotech' glass, the product name changes to 'ESG Pyrotech Secure' followed by the security rating. For example, 'ESG Pyrotech Secure 001'.
- Each glazing unit incorporates a 6 mm thick toughened glass layer on the non-attack face of the glazing unit which may be replaced by thicker toughened glass up to 19 mm thick, float glass between 6 mm and 19 mm thick, heat strengthened glass between 6 mm and 19 mm thick or 'ESG Pyrotech' glass between 6 mm and 19 mm thick. These options may affect the nominal thickness and weight noted for the 'ESG Secure' glazing unit. When the glazing unit incorporates 'ESG Pyrotech' glass, the product name changes to 'ESG Pyrotech Secure' followed by the security rating. For example, 'ESG Pyrotech Secure 001'.

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3. The glazing units are approved for use within double glazed units (DGUs) formed by adding a layer of float glass, toughened glass, heat strengthened glass or 'ESG Pyrotech' glass to the non-attack face. These are separated from the glazing units listed above by a spacer between 6 mm and 22 mm thick. The DGUs are therefore thicker and heavier than the 'ESG Secure' single glazing units listed. When the 'ESG Secure' single glazing units are used within double glazed units, the letters DGU appear immediately after the product's name. For example, 'ESG Secure 001/DGU'.
4. Use of the optional features listed may affect the nominal thickness and weight noted for the 'ESG Secure' glazing units. The approval does not cover the non-security related performance of the optional features listed. This is because they are outside the scope of LPS 1270: Issue 1.

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