

Synseal Extrusions Ltd

Common Road
Huthwaite
Sutton-in-Ashfield
Nottinghamshire NG17 6AD
Tel: 01623 443200 Fax: 01623 550243
e-mail: sales@synseal.com
website: www.synseal.com



Agrément Certificate
12/4914 (ES1)

ENHANCED SECURITY TO PAS 24 FOR PRODUCT SHEET 1

LEGEND 70 OUTWARD OPENING SYSTEM

This Enhanced Security sheet is not valid in isolation and must be read in conjunction with Product Sheet 1 of this Certificate. The information in this sheet supplements the details given in Product Sheet 1, section 8 *Basic security against intrusion*.

- The details in this sheet are only relevant to windows fabricated by a BBA approved window fabricator and meeting the specification defined in section 2 Scope of approval
- It is essential that the windows are installed in accordance with the recommendations contained in Product Sheet 1 and in the manufacturer's instructions to achieve the standard of enhanced security defined in this sheet.



1 General

Selected windows from the Legend 70 Outward Opening PVC-U Window System covered by Product Sheet 1, were tested in accordance with PAS 24 : 2012, Annex C *Specification for enhanced security performance of windows*, and met the requirements.

2 Scope of approval

2.1 The specification for the windows considered to offer enhanced security comprises windows with 28 mm glazing units, all fabricated from components as listed in Table 1, and in accordance with the recommendations contained in the *Synseal Legend 70 Fabrication Manual*.

2.2 The scope of the test programme does not cover glass breakage as a means of entry. In locations where this is considered to be a significant risk the use of laminated glass or other suitable glazing material may be necessary or required by Secured by Design (SbD) schemes.

3 Design features

All main frame, opening light, mullion and transom profiles must be welded in accordance with the recommendations contained in the *Synseal Legend 70 Fabrication Manual*.

4 Design considerations

4.1 Only the specification of windows referred to in Table 1 can be considered to meet the requirements. Any design variations to the frame profiles, reinforcements, locking mechanisms, tilt and turn gear, handles, keeps, striker plates, hinges, hinge protectors, or associated fasteners, will require the window to be retested.

4.2 To ensure the level of resistance to intrusion indicated by the tests is achieved, installation must be carried out in accordance with the recommendations contained in Product Sheet 1 and the manufacturer's instructions. For example, correct glass packing and fixing of the window into the opening are critical.

4.3 Windows assessed for enhanced security are designed to resist attempts to forced entry by the opportunist intruder using basic hand tools. However, the scope of assessment does not extend to an assurance of absolute security. In addition, window security must be considered in the context of the overall security of the building, taking into account such factors as vulnerability of individual windows and the security of doors.

The BBA has awarded this Agrément Certificate for Enhanced Security to PAS 24 to the company named above for the window system detailed herein, provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Sean Moriarty – Head of Approvals
Energy and Ventilation

Greg Cooper
Chief Executive

Date of First issue: 7 December 2012

The BBA is a UKAS accredited certification body – Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

Table 1 Synseal Legend 70 Outward Opening PVC-U Window System — List of components

	Application	Profile type/ Section or quantity	Manufacturer's designation ⁽¹⁾
Profiles	outer frame	L	98-11494/5F1
	mullion/transom	T	98-11497/5T1
	casement sash (internally beaded)	T	98-11495/5V2
	casement sash (externally beaded)	Z	98-11496/5V1
	steel reinforcement (98-11494/98-11497)	Box	98-11566/5RS-FT1L
	steel reinforcement (98-11496)	Part 'C'	98-11568/5RS-V1
	steel reinforcement (98-11495)	Part 'C'	98-11567/5RS-V2
Glazing retention	co-extruded glazing bead (28 mm)	—	98-11504/5CJB28, 98-11505/5OJB28
Furniture and fittings	espagnolette — Roto TSL mushroom bolt	—	✓
		—	✓
	espagnolette handle — key locking	—	✓
	friction stays — DGS Elite	—	✓
	Security glazing clips (external glazed) — GT Products	Securi clip	✓
	run-up blocks	—	✓
	hingeguard hinge protectors — Kenrick	—	✓
	cavity wedges	2 pairs	✓

(1) These items may be unmarked and it is recommended that, if in doubt, the purchaser seeks written assurance of the component specifications from the Certificate holder. All fixings for components must be as detailed in the *Synseal Legend 70 Fabrication Manual*.