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Agrément Certificate
14/5154 (ES5)

ENHANCED SECURITY TO PAS 24 FOR PRODUCT SHEET 5

MODUS OUTWARD OPENING AND TILT AND TURN SYSTEMS

This Enhanced Security sheet is not valid in isolation and must be read in conjunction with Product Sheet 5 of this Certificate. The information in this sheet supplements the details given in Product Sheet 5, section 9 *Unauthorised access*.

- 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 5 and in the manufacturer's instructions to achieve the standard of enhanced security defined in this sheet.



1 General

Selected windows from the Modus Outward Opening and Tilt and Turn Systems covered by Product Sheet 5 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 fabrication instructions and this Certificate.

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 fabrication instructions and this Certificate.

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 5 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 Certificate for Enhanced Security to PAS 24 to the company named above for the window systems described herein provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agreement

Date of First issue: 12 April 2016

John Albon – Head of Approvals
Construction Products

Claire Curtis-Thomas
Chief Executive

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 Certificate by either referring to the BBA website or contacting the BBA direct.

Table 1 Modus Outward Opening and Tilt and Turn Systems — List of components

	Application	Profile type	Manufacturer's designation ⁽¹⁾	
			Outward opening	Tilt and turn
Profiles	outer frame	L	LSF 1021 LSF 1006	LSF 1021 LSF 1006
	mullion/transom	T Z T Z	LSF 1002 LSF 1003 LSF 1022 LSF 1023	LSF 1002 — LSF1022 —
	opening light frame	T	LSF 1005	—
	opening light frame (flush sash)	—	LSF 1008	—
	opening light frame	Z	—	LSF 1007
	reinforcement for LSF 1002, LSF 1003		—	EWS 801P EWS 7621S
	reinforcement for LSF 1022, LSF 1023		—	EWS 622S
Glazing retention	internal glazing beads	—	LSF 1301	LSF 1301
Furniture and fittings	espagnolette handle (key locking)	—	✓	✓
	espagnolette/shootbolt — Maco Mspag (6-point locking)	—	✓	—
	espagnolette/shootbolt keeps — Maco	—	✓	—
	friction stays — Cotswold Egress	—	✓	—
	hinge protectors — Maco	—	✓	—
	dog bolts ⁽²⁾ — SAC	—	✓	—
	tilt and turn gear — Maco Multi Matic Power	—	—	✓
	tilt and turn keeps — Maco Multi Matic Power	—	—	✓
	cavity wedges	—	EWS 7201	—
	run up blocks	—	LSF 1202	LSF 1202
<p>(1) These items may be unmarked and it is recommended that, if in doubt, the purchaser seeks written assurance of the component specification from the Certificate holder. All fixings for components must be as detailed in the relevant Fabrication Manual.</p> <p>(2) Windows fabricated with flush sashes should be fitted with dog bolts, positioned centrally along the length of the sash in addition to the cavity wedges, where their length exceeds 1170 mm (1250 mm overall length).</p>				