

Eurocell Profiles Ltd

Fairbrook House
Clover Nook Road
Alfreton
Derbyshire DE55 4RF
Tel: 01773 842100 Fax: 01773 842109
e-mail: info@eurocell.co.uk
website: www.eurocell.co.uk



Agrément Certificate
14/5150
Product Sheet 1

EUROCELL PVC-U DOOR SYSTEMS

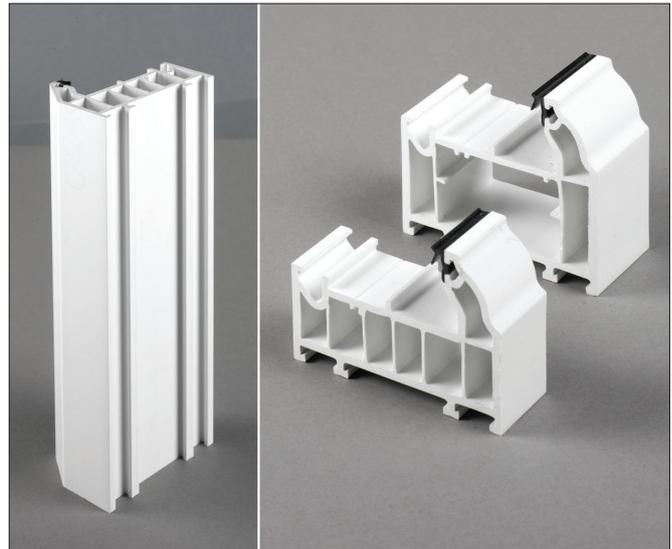
EUROLOGIK 70 FRENCH DOORS SYSTEM

This Agrément Certificate Product Sheet⁽¹⁾ relates to the EuroLogik 70 French Doors System, fully glazed in white, cream or woodgrain finish, for use in replacement and new-build applications, for external use as secondary access doors in domestic and non-domestic buildings.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Thermal properties — the thermal transmittance value (U value) of a French door from within the range was calculated as $1.5 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ (see section 6).

Weathertightness — the doors can be used in the exposure situations described in the *Weathertightness* section of this Certificate (see section 7).

Ventilation — the doors can provide rapid ventilation (see section 8).

Unauthorised access — doors from within the range can contribute to preventing unauthorised access to dwellings and similar habitable applications (see section 9).

Durability — the PVC-U extruded profiles will continue to function satisfactorily for a period in excess of 35 years (see section 16).

The BBA has awarded this Certificate to the company named above for the system described herein. This system has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

A handwritten signature in black ink, appearing to read 'John Albon'.

A handwritten signature in black ink, appearing to read 'Claire Curtis-Thomas'.

Date of First issue: 4 September 2014

John Albon — Head of Approvals
Energy and Ventilation

Claire Curtis-Thomas
Chief Executive

Certificate amended on 27 November 2015 to include Building Regulation Q1 — Unauthorised access (England only).

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.

British Board of Agrément
Bucknalls Lane
Watford
Herts WD25 9BA

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tel: 01923 665300
fax: 01923 665301
e-mail: clientservices@bba.star.co.uk
website: www.bbacerts.co.uk

In the opinion of the BBA, the EuroLogik 70 French Doors System, if installed, used and maintained in accordance with this Certificate, will satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



The Building Regulations 2010 (England and Wales) (as amended)

Requirement: C2(b)	Resistance to moisture
Comment:	The system has adequate resistance to the ingress of rain and wind-driven spray and so can contribute towards satisfying this Requirement. See Table 3 (section 7) of this Certificate.
Requirement: C2(c)	Resistance to moisture
Comment:	The system will not constitute a significant condensation risk and so can contribute towards satisfying this Requirement. See section 11.1 of this Certificate.
Requirement: F1	Means of ventilation
Comment:	The system can contribute to natural purge ventilation. See section 8 of this Certificate.
Requirement: L1(a)(i)	Conservation of fuel and power
Comment:	The system can contribute to satisfying this Requirement. See section 6 of this Certificate.
Requirement: K4(a)(b)	Protection against impact with glazing (applicable to England only)
Comment:	Doors fitted with safety glass can satisfy this Requirement. See section 12.1 of this Certificate.
Requirement: N1	Protection against impact (applicable to Wales only)
Comment:	Doors fitted with safety glass can satisfy this Requirement. See section 12.1 of this Certificate.
Requirement: Q1	Unauthorised access (applicable to England only)
Comment:	Doors as described in the Enhanced Security Sheet (ES1) can satisfy this requirement for new dwellings (see section 9.1 of this Certificate).
Regulation: 7	Materials and workmanship
Comment:	The system is acceptable. See sections 16.1 and 16.2 and the <i>Installation</i> part of this Certificate.
Regulation: 26	CO₂ emission rates for new buildings
Regulation: 26A	Fabric energy efficiency rates for new dwellings (applicable to England only)
Regulation: 26A	Primary energy consumption rates for new buildings (applicable to Wales only)
Regulation: 26B	Fabric performance values for new dwellings (applicable to Wales only)
Comment:	The system can contribute to satisfying these Regulations. See section 6.1 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation: 8(1)(2)	Durability, workmanship and fitness of materials
Comment:	The system satisfies this Regulation. See sections 15.1, 15.2, 15.3, 15.4, 16.1 and 16.2 and the <i>Installation</i> part of this Certificate.
Regulation: 9	Building standards applicable to construction
Standard: 3.10	Precipitation
Comment:	The system has adequate resistance to the ingress of rain and wind-driven spray and so can contribute towards satisfying this Standard, with reference to clause 3.10.1 ⁽¹⁾ . See Table 3 (section 7) of this Certificate.
Standard: 3.14	Ventilation
Comment:	The system can contribute to natural ventilation, with reference to clauses 3.14.2 ⁽¹⁾ and 3.14.3 ⁽¹⁾ of this Standard. See section 8 of this Certificate.
Standard: 3.15	Condensation
Comment:	The system will not constitute a significant condensation risk and so can contribute towards satisfying this Standard with reference to clauses 3.15.1 ⁽¹⁾ , 3.15.4 ⁽¹⁾ and 3.15.5(1). See section 11.1 of this Certificate.
Standard: 3.16	Natural lighting
Comment:	In calculating the contribution of the system to natural lighting, with reference to clauses 3.16.1 ⁽¹⁾ and 3.16.3 ⁽¹⁾ of this Standard, the area of glazing can be calculated in accordance with section 10 of this Certificate.
Standard: 4.8(a)(b)	Danger from accidents
Comment:	Doors are fitted with safety glass and can satisfy this Standard, with reference to clause 4.8.2 ⁽¹⁾ . See section 12.1 of this Certificate.
Standard: 6.1(b)	Carbon dioxide emissions
Standard: 6.2	Building insulation envelope
Comment:	The system can contribute to satisfying these Standards, with reference to clauses 6.1.1 ⁽¹⁾ , 6.1.2 ⁽¹⁾ , 6.1.4 ⁽²⁾ , 6.1.6 ⁽¹⁾ , 6.1.7 ⁽¹⁾ , 6.2.1 ⁽¹⁾⁽²⁾ , 6.2.4 ⁽²⁾ , 6.2.6 ⁽¹⁾ , 6.2.7 ⁽¹⁾ , 6.2.8 ⁽²⁾ , 6.2.9 ⁽¹⁾⁽²⁾ , 6.2.11 ⁽¹⁾⁽²⁾ and 6.2.13 ⁽¹⁾⁽²⁾ . See section 6 of this Certificate.
Standard: 7.1(a)(b)	Statement of sustainability
Comment:	The system can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard. In addition the system can contribute to a construction meeting a higher level of sustainability as defined in this Standard, with reference to clauses 7.1.4 ⁽¹⁾⁽²⁾ [Aspects 1 ⁽¹⁾⁽²⁾ and 2 ⁽¹⁾], 7.1.6 ⁽¹⁾⁽²⁾ [Aspects 1 ⁽¹⁾⁽²⁾ and 2 ⁽¹⁾] and 7.1.7 ⁽¹⁾⁽²⁾ [Aspect 1 ⁽¹⁾⁽²⁾]. See section 6 of this Certificate.

Regulation:	12	Building standards applicable to conversions
Comment:	All comments given for these doors under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾ and Schedule 6 ⁽¹⁾ . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).	



The Building Regulations (Northern Ireland) 2012

Regulation:	23	Fitness of materials and workmanship
Comment:	The system is acceptable. See sections 16.1 and 16.2 and the <i>Installation</i> part of this Certificate.	
Regulation:	28(b)	Resistance to moisture and weather
Comment:	The doors have adequate resistance to the ingress of rain and wind-driven spray and so can contribute towards satisfying this Regulation. See Table 3 (section 7) of this Certificate.	
Regulation:	39(a)(i)	Conservation measures
Regulation:	40(2)	Target carbon dioxide emission rate
Comment:	The system can contribute to satisfying these Regulations. See section 6 of this Certificate.	
Regulation:	65(1)	Means of ventilation
Comment:	When calculating the area of door openings for rapid ventilation purposes, see section 8 of this Certificate.	
Regulation:	96	Impact with glazing
Comment:	Doors fitted with safety glass can meet this Regulation. See section 12.1 of this Certificate.	

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 3 *Delivery and site handling* (3.3) of this Certificate.

Additional Information

NHBC Standards 2014

NHBC accepts the use of EuroLogik 70 French Door System, provided it is installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 6.7 *Doors, windows and glazing*.

General

The Certificate holder is a system supplier, supplying bar length of door profile. The door system detailed within this Certificate is manufactured by BBA approved door fabricators. Details of currently approved door fabricators can be found on the BBA website.

Technical Specification

1 Description

1.1 The EuroLogik 70 French Door System comprises two hinged, glazed, outward opening leaves framed in white, cream or woodgrain finish unplasticised polyvinyl chloride (PVC-U), complying with BS EN 12608 : 2003 and glazed internally with sealed double-glazed units⁽¹⁾.

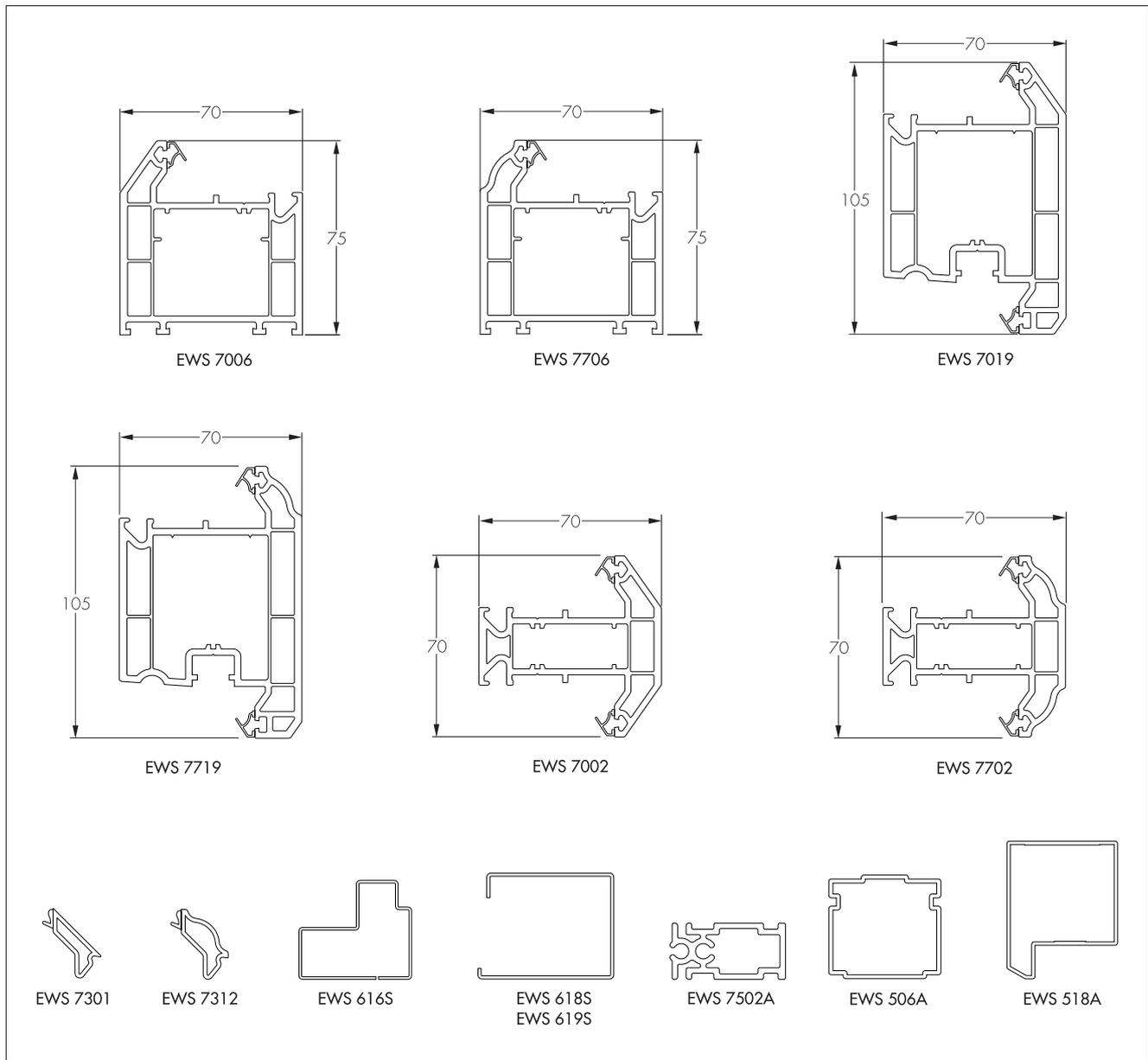
(1) Outside the scope of this Certificate.

1.2 The profiles covered by this Certificate (listed in Table 1 and shown in Figure 1) are supplied with integral gaskets made from black TPE material, thus eliminating the need for separate weatherseals and glazing gaskets.

Table 1 Profiles

Manufacturer's designation	Profile type	Application
EWS 7006/7706	L-section	outer frame (head, jambs and threshold)
EWS 7019/7719	T-section	leaf
EWS 7002/7702	T-section	French mullion
EWS 7301	—	post calibration co-extruded (PCE) glazing bead
EWS 7312	—	post calibration co-extruded (PCE) glazing bead
EWS 616S	—	galvanized steel reinforcement (1 mm thick) (EWS 7006/7706, jambs)
EWS 618S	—	galvanized steel reinforcement (1 mm thick) (EWS 7019/7719, hinge stile)
EWS 619S	—	galvanized steel reinforcement (1 mm thick) (EWS 7019/7719 for lock stile with a cut-out on both sides of reinforcement 310 mm x 25 mm around centre lock point)
EWS 7502A	—	aluminium reinforcement (1 mm thick) (EWS 7002/7702)
EWS 506A	—	aluminium reinforcement (1.5 mm thick) (EWS 7006/7706, head and threshold)
EWS 518A	—	aluminium reinforcement (1 mm thick) (EWS 7019/7719, head and sill sections)

Figure 1 Profiles (all dimensions in mm)



1.3 Fabricators must adhere to the methods of selection, machining and assembly of frame components as detailed in the fabrication instructions and this Certificate.

1.4 The outer frame and leaf frames are connected with welded joints.

1.5 The system is fabricated using conventional production processes for PVC-U doors.

1.6 Drainage is provided by a series of slots (5 mm by 30 mm), positioned in accordance with the fabrication instructions and this Certificate.

Reinforcement

1.7 The head and threshold outer frame members are reinforced with aluminium, and the jambs with galvanized steel, in accordance with the fabrication instructions and this Certificate.

1.8 The head and sill members of door leaves are reinforced with aluminium, and the jambs with galvanized steel, in accordance with the fabrication instructions and this Certificate.

1.9 French mullions are reinforced with aluminium, in accordance with the fabrication instructions and this Certificate.

1.10 Galvanized steel reinforcement is roll-formed from material with a Z275N coating complying with BS EN 10346 : 2009. Aluminium reinforcement is extruded from alloy type 6063-T6 to BS EN 755-2 : 2008.

Size range

1.11 This Certificate covers EuroLogik 70 French Doors within the limitations shown in Table 2.

	Dimension (mm)	
	Width	Height
Maximum overall size	1800	2100
Maximum leaf size	850	2000

Furniture and fittings

1.12 BBA approved hardware can be used with this system.

1.13 Door leaves are hung on three hinges, each fixed to the frame and the door leaf with screws penetrating the reinforcement.

1.14 Doors are secured by a multi-point locking mechanism operated by a lever type handle on both sides. The locks are supplied with a one-piece keep and are fitted with a security cylinder mechanism designed to resist picking. The slave leaf incorporates shootbolts at the top and bottom. Handles are available in a variety of finishes.

Glazing

1.15 The doors are supplied factory-glazed or ready for glazing using sealed, double-glazed units⁽¹⁾. The glass thicknesses are in accordance with BS 6262-1 : 2005 or, if required by the Building Regulations, the glazing units are supplied with toughened or laminated glass in accordance with BS EN 12600 : 2002. All glass used is safety glass (see section 12.1) and is positioned by plastic setting blocks and packing pieces.

(1) Outside the scope of this Certificate.

1.16 The glazing units should meet the requirements of BS EN 1279-2 : 2002 and (if relevant) BS EN 1279-3 : 2002.

Weatherstripping and gaskets

1.17 The integral black gaskets and weatherstripping are incorporated into the profiles by post-calibration co-extrusion (PCE) (see Figure 1). The double-glazed units are secured by post calibration co-extruded bead.

2 Manufacture

2.1 The doors are fabricated from white, cream or woodgrain finish PCV-U profiles, produced by conventional extrusion techniques. Woodgrain profiles are surface-covered with PVC which incorporates a clear acrylic protective lacquer. Profiles are available with the foil applied to both visible faces of a brown or tan PVC-U substrate, or to the exterior face only of a white or cream PVC-U substrate. See also sections 1.3 to 1.17 of this Certificate.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

2.3 The management system of Eurocell Profiles Ltd has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 (Certificate FM 45551) and BS EN ISO 14001 : 2004 (Certificate 25110/A/0001/UK/En) by BSI.

3 Delivery and site handling

3.1 The doors are delivered to site glazed or ready for glazing. For transportation, they are suitably protected to avoid damage. Particular care is needed to avoid damaging woodgrain finishes, as it may be impossible to restore the appearance.

3.2 The doors should be stored under cover in a clean area, on edge and suitably supported to avoid distortion or damage.

3.3 The weight of the unglazed frame and of the glazing (which can be obtained from the Certificate holder) and their ease of handling, particularly by one person, must be taken into account when planning site operations.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on the EuroLogik 70 French Door System.

Design Considerations

4 Use

The EuroLogik 70 French Door System is satisfactory for use in replacement and new-build applications, for external use as secondary access doors in domestic and non-domestic buildings.

5 Practicability of installation

The system is designed to be installed by a competent general builder, or a contractor, experienced with this type of system.

6 Thermal properties

 6.1 The following EuroLogik 70 French doors, 2000 mm wide by 2180 mm high, achieve a U value, U_w , of $1.5 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$, when assessed to BS EN ISO 10077-1 : 2006 and BS EN ISO 10077-2 : 2012:

- EWS 7006 outer frame (jamb reinforced with EWS 616S, head and sill with EWS 506A)
- EWS 7019 leaf (reinforced with EWS 618S hinge side, with EWS 619S lock side and with EWS 518A head and sill)
- EWS 7002 French mullion (reinforced with EWS7502A)
- EWS 7312 glazing bead
- 4/20/4 mm sealed double-glazed unit
 - 20 mm argon-filled cavity (90%)
 - external pane: 4 mm clear float
 - internal pane 4 mm SG Planitherm Plus
 - spacer: Edgetech Super Spacer.

6.2 The overall thermal transmittance of the French doors will be dependent on the performance of the double-glazed units. For units other than those described above, the indicative U values shown in Table 6e of SAP 2012 *The Government's Standard Assessment Procedure for Energy Rating of Dwellings* can be used. When available, a certified U value by measurement to BS EN ISO 12567-1 : 2010, or calculation to BS EN ISO 10077-1 : 2006 and BS EN ISO 10077-2 : 2012, should be used in preference. Alternatively, door energy ratings may be available for specific frame and glazing combinations on the BFRC website (www.bfrc.org).

6.3 Design U values are detailed in the documents supporting the national Building Regulations.

7 Weathertightness

7.1 Selected samples of the system were tested in accordance with BS EN 14351-1 : 2009 (BS EN 1026 : 2000, BS EN 1027 : 2000 and BS EN 12211 : 2000) and are suitable for use as indicated in Table 3. The classifications are based on the assumption that the outer frame is supported on all four sides in accordance with the manufacturer's instructions.

Table 3 Weathertightness classifications

	Classification according to:		
	Resistance to wind load BS EN 12210 : 2000	Watertightness BS EN 12208 : 2000	Air permeability BS EN 12207 : 2000
French doors up to maximum size	Class A3 (1200 Pa)	Class 7A (300 Pa)	Class 4 (600 Pa)

7.2 For unusual building layouts, building shapes or ground topography, the designer will need to give particular consideration to the prevailing exposure conditions.

8 Ventilation

 The opening area for natural ventilation may be calculated by subtracting 150 mm from the height and 150 mm or 374 mm from the width of the French doors, when the master leaf or both leaves are opened respectively.

9 Unauthorised access



9.1 Doors in Enhanced Security Sheet ES1 have been tested in accordance with PAS 24 : 2012, Annexes A and B, and can contribute to preventing unauthorised access to dwellings and similar habitable applications.

9.2 The doors are fitted with the locking mechanisms and features described in section 1.13 and provide adequate security against unauthorised entry by the opportunist intruder, when judged against BS 6375-3 : 2009. Where relevant, reference should be made to *NHBC Standards 2014, Part 6.7 Doors, windows and glazing*.

9.3 Attention should be paid to packing of glazing units adjacent to all locking points. In addition, frame fixings should coincide with the locating points of the locking system, with suitable packing installed between the frame and the fabric of the building.

9.4 The design of the glazing is such that the removal of the glazing from outside is extremely difficult, as all beads are fitted internally. In addition the glazing is secured by glazing clips.

10 Glass area



The approximate unobstructed glass area of the doors is determined by deducting 528 mm and 304 mm from the overall width and height respectively.

11 Condensation risk



11.1 In normal domestic or similar applications, PVC-U doors will not constitute a significant condensation risk when correctly installed.

11.2 Guidance on some satisfactory design details is given in *Limiting thermal bridging and air leakage : Robust construction details for dwellings and similar buildings*, TSO 2002 and the Accredited Construction Details. Further information is contained in BRE Report BR 262 : 2002.

12 Safety



12.1 The doors are fitted with safety glass complying with BS EN 12600 : 2002, and therefore meet the safety recommendations given in BS 6262-4 : 2005⁽¹⁾.

(1) Dealing with the safety of people upon impact with the glazing.

12.2 The fire resistance of the doors has not been assessed by the BBA.

12.3 When the doors are fitted in an escape route, they should be fitted only with a lock or fastening which is readily operated, without a key, from the side approached by people making an escape; such devices have not been included in this assessment.

12.4 When selecting means of access during the period of installation, for example use of scaffolding, the safety of the operatives, occupants and passers-by should be considered.

13 Resistance to impact

13.1 The system will be unaffected by the soft body or hard body impacts likely to be encountered in dwellings or similar applications.

13.2 Slamming of the door leaf, such as could occur in high winds, will not cause damage to the door leaf or frame.

14 Ease of operation

The doors can be operated without difficulty when correctly installed.

15 Maintenance



15.1 The doors can be re-glazed, but if the integral gasket is damaged it must be replaced by conventional gaskets and weatherstripping. The use of conventional gaskets and weatherstripping with the EuroLogik 70 system is outside the scope of this Certificate.

15.2 If the gasket of the post calibration co-extruded glazing bead is damaged, for example during re-glazing, it may be necessary to replace the complete bead. These operations should be carried out by specialist operatives using the materials recommended by the Certificate holder.

15.3 If damage occurs, the furniture and fittings can be readily replaced.

15.4 The hinges and locking mechanism should be cleaned and lubricated periodically to minimise wear and to ensure smooth operation. More frequent lubrication may be required depending on the environmental conditions.

15.5 The seal to the building structure may need to be replaced within the life of the doors.

15.6 The PVC-U frame members can be cleaned using a soft sponge and soapy water. Solvent-based, corrosive or abrasive cleaners should not be used, particularly on woodgrain finishes as the loss of the acrylic lacquer will have a serious effect on durability. If dirt is allowed to build up on the members over long periods, it may become more difficult to restore the surface appearance.

15.7 Care should be taken when using proprietary materials for cleaning the glass, to ensure that deposits are not allowed to remain on the PVC-U where they may cause discoloration and damage to the surface. In addition, care must be taken to avoid damage to, or discoloration of, the members when stripping paint from adjacent timber, for example, by means of a blowlamp or paint stripper.

15.8 Repair of the woodgrain foil is outside the scope of this Certificate.

16 Durability



16.1 The PVC-U extruded profiles will continue to function satisfactorily for a period in excess of 35 years.

16.2 The co-extruded glazing beads, gaskets and furniture and fittings, as described in this Certificate, may need to be replaced within the life of the door, particularly when furniture and fittings are exposed to aggressive environments, such as coastal or industrial locations.

16.3 Any slight colour change or surface dulling of the PVC-U profiles that might occur will be uniform over the visible surfaces of the doors for the white, cream and woodgrain finish, assuming in the latter case that the acrylic lacquer is undamaged.

16.4 Paint can adversely affect the impact strength of the PVC-U frame members and the application of dark colours to white profiles could lead to a risk of thermal distortion. Therefore, paint should not be applied.

17 Reuse and recyclability

The PVC-U profiles of the system can be recycled.

Installation

18 General

18.1 The EuroLogik 70 French Door System must be fixed into the opening, in accordance with the recommendations in BS 8213-4 : 2007, using proprietary expanding anchors through the frame or galvanized steel fixing lugs.

18.2 Openings in new walls should be formed using a suitable template 10 mm wider and higher than the door to be installed. The door should not be built in at the construction stage.

18.3 In common with other types of doors fitted to prepared openings, the system must be correctly positioned in relation to vertical damp proof courses to prevent water penetration to the internal reveal.

18.4 The provision of a cavity closer and/or cavity barrier around the door opening, prior to installation, may be required. Details of products covered by an Agrément Certificate can be found on the BBA website (www.bbacerts.co.uk).

Technical Investigations

19 Tests

19.1 Tests were carried out to determine:

- operating forces
- air permeability
- watertightness
- wind resistance
- resistance to vertical loads
- resistance to static torsion
- slamming resistance
- closure against obstruction
- abusive forces on handles
- resistance to soft and heavy duty impact
- resistance to hard body impact
- cyclic operation
- basic security.

19.2 BBA approved hardware has been tested to BS EN 1670 : 2007 for resistance to salt spray corrosion.

20 Investigations

20.1 An assessment was made of tests carried out on doors, generally in accordance with BS 7412 : 2007, and on the PVC-U extrusions and woodgrain finish profiles in accordance with BS EN 12608 : 2003 and BS 7722 : 2010.

20.2 The thermal transmittance value of a Eurologik 70 French Door was determined using computer simulation in accordance with BS EN ISO 10077-2 : 2012.

20.3 The manufacturing process was evaluated, including methods for quality control, and details were obtained of the quality and composition of the materials used.

Bibliography

BS 6262-1 : 2005 *Glazing for buildings — General methodology for the selection of glazing*

BS 6262-4 : 2005 *Glazing for buildings — Code of practice for safety related to human impact*

BS 6375-3 : 2009 *Performance of windows and doors — Classification for additional performance characteristics and guidance on selection and specification*

BS 7412 : 2007 *Specification for windows and doorsets made from unplasticized polyvinyl chloride (PVC-U) extruded hollow profiles*

BS 7722 : 2010 *Surface covered PVC-U profiles for windows and doorsets — Specification*

BS 8213-4 : 2007 *Windows, doors and rooflights — Code of practice for the survey and installation of windows and external doorsets*

BS EN 755-2 : 2008 *Aluminium and aluminium alloys — Extruded rod/bar, tube and profiles — Mechanical properties*

BS EN 1279-2 : 2002 *Glass in building — Insulating glass units — Long term test method and requirements for moisture penetration*

BS EN 1279-3 : 2002 *Glass in building — Insulating glass units — Long term test method and requirements for gas leakage rate and for gas concentration tolerances*

BS EN 10346 : 2009 *Continuously hot-dip coated steel flat products — Technical delivery conditions*

BS EN 12207 : 2000 *Windows and doors — Air permeability — Classification*

BS EN 12208 : 2000 *Windows and doors — Watertightness — Classification*

BS EN 12210 : 2000 *Windows and doors — Resistance to wind load — Classification*

BS EN 12600 : 2002 *Glass in building — Pendulum test — Impact test method and classification for flat glass*

BS EN 12608 : 2003 *Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors — Classification, requirements and test methods*

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

BS EN ISO 10077-1 : 2006 *Thermal performance of windows, doors and shutters — Calculation of thermal transmittance — General*

BS EN ISO 10077-2 : 2012 *Thermal performance of windows, doors and shutters — Calculation of thermal transmittance — Numerical method for frames*

BS EN ISO 12567-1 : 2010 *Thermal performance of windows and doors — Determination of thermal transmittance by the hot box method — Complete windows and doors*

BS EN ISO 14001 : 2004 *Environmental management systems — Requirements with guidance for use*

BRE Report (BR 262 : 2002) *Thermal insulation : avoiding risks*

21 Conditions

21.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page — no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

21.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

21.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

21.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

21.5 In issuing this Certificate, the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

21.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.