

Certificate of Product Approval

Fort Engineering Ltd

CERTIFICATE NUMBER	ISSUE	COMPANY ADDRESS
1607a	02	Unit E Bramingham Business Park Enterprise Way Luton LU3 4BU

The named company 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	STANDARDS
Fire Doorsets Fire Rated Doors	LPS 1056: Issue 6.2 Test and Evaluation Requirements for the LPCB Approval and Listing of Fire Doorsets, Lift Landing Doors and Shutters

This certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 certificate being maintained.

Signed for BRE Global Ltd.	Karen Coull Certification Manager	04 September 2025 Date of this Issue
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E: enquiries@bregroup.com



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Fire Doorsets

Product Name	Leaf type	Maximum Leaf Size			Filling/Glazing	Fire Resistance EN1634-1	LPCB Ref. No.
		Height (mm)	Width (mm)	Area (m ²)		Classification to EN13501-2	
Fort 001	Insulated, single, hinged, active leaf	2059	934	1.92	No	E _l 230	1607a/01
Fort 002LP2S	Insulated, single, hinged, active leaf	2059	934	1.92	No	E _l 230	1607a/02
Fort Vault FB4	Insulated, single, hinged, active leaf single action	2731	1125	2.79	No	E _l 90-C0	1607a/03
Fort Vault FB4	Insulated, single, hinged, active leaf single action	2731	1125	2.79	No	E _l 2120-C0	1607a/03
Fort Vault FB4	Insulated, single, hinged, active leaf single action	2731	1125	2.79	No	E _l 120-C0 See note 16	1607a/03

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Notes:

1. LPCB Ref 1607a/01 and 1607a/02– The door-set systems to be manufactured and installed to the manufacturer specification - Fort 001Rev 5, Fort 002LP2S Rev 5 and as detailed in Test Report no P100233-1002 issue 2.
2. LPCB Ref 1607a/01 and LPCB Ref 1607/02 - The supporting construction of a light-gauge steel framed, plasterboard partition minimal thickness 122mm. A light gauge steel framed partition comprising Speedline SPT94 Track (32mm x 94mm x 32mm-deep x 0.5mm-thick), Speedline SPS92 Standard C-stud (32mm x 92mm x 34mm x 0.5mm-thick), and 12.5mm-thick Knauf Fire Panel taper-edged plasterboard.
3. LPCB Ref 1607a/01 and LPCB Ref 1607/02 - Door frame - nominally 2100mm high x 1000mm wide, constructed from 1.5mm-thick x 55mm-wide x 80mm-deep folded steel and incorporated a nominal 18mm-wide x 15mm-deep rebate and supplied with a white painted, decorative finish. Maximum aperture is nominally 2110mm high x 1015mm. The frames comprising vertical jambs and horizontal head section welded together, should be mounted within the supporting construction (partition wall), screw fixed through the timber filled light gauge steel studs of the partition using a total of eight M6 screw fixings (660mm nominal centres), four fixings per jamb. The frame is insulated 12.5mm-thick GTEC Siniat Standard Board plasterboard and 50mm-thick mineral wool insulation (Rockwool RWA45 Slab insulation).
4. LPCB Ref 1607a/01 and LPCB Ref 1607/02 - The door leaves, nominally 2059mm high x 934mm wide x 75.5mm thick is constructed from 1.5mm-thick steel U-channel sections welded together to form a leaf frame. The outer face of the leaf frame is backed with a single layer of 1.5mm-thick flat sheet steel, and the leaf in-filled with 50mm-thick mineral wool insulation (Rockwool RWA45 Slab insulation). The surfaces of the leaf frame are covered with 12mm-thick MDF veneer surface finish, though due to the profile of the veneer, the thickness of the wood varied between 7mm – 12mm to both faces of each leaf. Decorative laminates and timber veneers up to 1.5mm thickness may be added to the faces (but not the edges) of doors.

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5. LPCB Ref 1607a/01 and LPCB Ref 1607/02 - Additional strips of Rockwool should be used to fill gaps between the frame and partition prior to the application of a Marvon Tecnoflame sealant gunned around the perimeter edges of the frames, both door-set faces.
6. LPCB Ref 1607a/01 and LPCB Ref 1607/02 - Each door-set furniture:
 - A three point, mortised 'Fiam – ISEO 678G' locking system;
 - Cylinder lock ('ISEO R6 Plus');
 - Two Assa Abloy 3278 110mm long stainless-steel butt hinges. The top hinge was located 165mm below the top edge of the leaf, the bottom hinge was located 200mm above the door threshold. The hinges were fixed to the frame via four M5 bolts;
 - Two stainless steel, levered door handles Algarve V7210, located 950mm above the threshold of the leaf, 111mm from the lock-side edge of the leaf;
 - One eyespot / spyhole Pedret GEN Chrome 38, 2752GEN38-70MC, located down the centre of the leaf, 1500mm above the threshold of the leaf;
 - Smith & Locke Contract Overhead Door Closer, SKU 870G (185mm-long x 45mm-deep x 67mm-wide).
7. LPCB Ref 1607a/01, LPCB Ref 1607/02 and LPCB ref 1607/03 – self – closing has not been determined.
8. LPCB Ref 1607a/01, LPCB Ref 1607/02 and LPCB ref 1607/03 - Unlimited size reduction is permitted for all types except insulated metal doors where a reduction to 50% width and 75% height of the tested specimen is the limit of variation. Size increase is not permitted.
9. LPCB Ref 1607a/01, LPCB Ref 1607/02 and LPCB ref 1607/03 - The number of hinges and dog bolts may be increased but shall not be decreased.
10. LPCB Ref 1607a/01, LPCB Ref 1607/02 and LPCB ref 1607/03 - The number of any movement restrictors such as locks, latches are not covered by this certificate.

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11. LPCB Ref 1607a/03 The door-set systems including approved hardware to be manufactured and installed to the manufacturer Door Installation and Maintenance Instruction - Fort Vault 004 FB4 Rev 00 and as detailed in Test Report P117786-1001 issue 2 and classification report P123632-1003A Issue 1 dated 02 August 2024, available from the certificate holder.
12. LPCB Ref 1607a/03 - The supporting construction of aerated concrete 150mm thick with a nominal density of 600kg/m³.
13. LPCB Ref 1607a/03- Door frame - nominally 2495mm high x 1060mm wide, constructed from 2mm-thick x 150mm-deep folded steel. The frames comprising 2 vertical jambs and horizontal head section welded together, should be mounted within the supporting construction (block wall), and held in place with twenty-eight screw guides (14 per door frame) which wound out the frame. The frame is then secured to blockwork by screws fixed through the screw guides using a total of twenty-eight 150mm long Anchor screws (twelve fixings per jamb).
14. LPCB Ref 1607a/03- The door leaves, nominally 2375mm high x 978mm wide x 140mm thick. The door leaf is constructed from an 86mm deep core, comprising of 6mm-thick steel sheet, a layer of fine casting plus plaster either side and on one face additional 30mm-thick Rockwool, clad on the defence face with an 18mm thick Light wood veneer panel and a 12mm thick Light wood veneer panel on the attack face. After installation of the leaf within the frame each hinge cavity is packed with a 20mm wide intumescent strip.
15. LPCB Ref 1607a/03 - Door-set furniture:
 - FIAM ISEO X1R Smart lock 262mm-high x 300mm-wide cover plate with four horizontal bolts and two latches with Key turn, positioned 745mm up from base of leaf to keyhole;
 - Mottra 3 bolt swith-lock 262mm-high x 35mm-wide cover plate with 3 horizontal bolts positioned 215mm up from base of leaf to central bolt;
 - One silver handle each face of leaves nominally 900mm from base of leaf;
 - Dorma ED100/ED250 concealed door closer at top of leaf;
 - Four concealed hinges in the fixed edge of the leaf;

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- Seven dog bolts on the fixed edge of the leaf, nominally 70mm, 370mm, 670mm, 1370mm, 1670mm, 1970mm and 2270mm up from the base of the leaf);
 - ABLOY Concealed Fixing Power Transfer Unit Z281;
 - Finger protection strip fixed across the hinges, full height of the leaf. FSR6000;
 - Double drop-down seal on the base of the leaf (Swiss Planet).
16. LPCB ref 1607/03 classification EI₁120-C0 is relating to fire exposure from the closing side only.
17. Manufacturing site:
 Fort Engineering Ltd (LPCB 1607),
 Unit E,
 Bramingham Business Park,
 Enterprise way,
 Luton,
 LU3 4BU

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