

LOSS PREVENTION CERTIFICATION BOARD

RED BOOK 2012

Volume 2
LIST OF APPROVED
PRODUCTS AND SERVICES

- PASSIVE FIRE PROTECTION PRODUCTS & SERVICES
- SECURITY PROTECTION SYSTEMS
- RELATED INSTALLERS

THIS VOLUME ALSO INCLUDES:

- MANAGEMENT SYSTEMS
- CONSTRUCTION PRODUCTS

A Specifier's Guide

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Part

2

*FIRE DOORS AND
SHUTTERS
(INCORPORATING
INSTALLER SCHEME FOR
FIRE AND SECURITY
DOORS)*

PART 2: FIRE DOORS AND SHUTTERS (INCORPORATING INSTALLER SCHEME FOR FIRE AND SECURITY DOORS)

INTRODUCTION

Fire doors and shutters contribute to the passive fire protection of buildings by maintaining the:

- fire separation of compartment walls, while allowing the passage of persons or objects
- fire separation in shafts or service ducts that penetrate compartment floors
- protection provided by walls forming protected routes for means of escape.

In addition to careful design and product selection, it is recommended that all products are installed and maintained by LPCB approved contractors who have demonstrated their competence.

Products

Doors and shutter assemblies are approved in accordance with: LPS 1056: *Test and Evaluation Requirements for the Approval and Listing of Fire Doorsets, Lift Landing Doors and Shutter Assemblies.*

The fire testing element of this LPS is based on BS 476:Part 20 - *Method for determination of the fire resistance of elements of construction (general principles)* or BS EN 1634-1 *Fire resistance test for doors and shutter assemblies- Part 1: Fire doors and shutters* and BS EN 81-58 *Landing doors fire resistance test.*

LPS 1056 also includes requirements for the reliability testing of the door and shutter assemblies, and assessment procedures for doors and shutters that are too big to be directly fire tested.

Installation contractors

LPCB approved installation contractors are assessed in accordance with: LPS 1271: *Requirements for Approval and Listing of companies installing fire and security doorsets, shutters and smoke barriers.*

Maintenance contractors

LPCB approved maintenance contractors who repair and maintain fire doors and shutters are approved in accordance with: LPS 1197: *Requirements for LPCB Approval and Listing of Companies Undertaking the Maintenance and Repair of Doorsets, Shutters, and Active Smoke/Fire barriers.*

This section lists firebreak doorsets and shutters approved to LPS 1056 *Test and Evaluation requirements for the LPCB Approval and Listing of Fire Doorsets, Lift Landing Doors and Shutter Assemblies*. LPS 1056 is based upon relevant BS or European test criteria and not only looks at the fire integrity and insulation (where applicable) but also includes reliability cyclic tests and grading.

For details of the specific fire resistance required for firebreak doors and shutters for different building types, see the *LPC Design Guide for the Fire Protection of Buildings:2000*.

Where insulation is marked as 0, this denotes that the insulation was not measured or that it could not be measured in accordance with the relevant standard.

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Certificate No: 131a to LPS 1056: Issue 5

Product Name	Spec.	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	LPCB Ref. No.
A200 Series	4	Rolling shutter	7.00	7.00	49.00	240	0	131a/01
A400 Series	4	Single - leaf hinged	2.42	1.02	2.24	240	0	131a/02
	4	Double - leaf hinged	2.42	2.04	4.48	240	0	131a/03

Attenborough Doors Limited

Merlin Way, Quarry Hill Industrial Estate, Ilkeston, Derbyshire DE7 4RA, United Kingdom
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Certificate No: 145b to LPS 1056: Issue 5

Product Name	Spec.	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	LPCB Ref. No.
Attenborough Fire Shutter	4	Rolling shutter	7.00	7.00	49.00	240	0	145b/01

Clark Door Limited

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Certificate No: 106a to LPS 1056: Issue 6

PART 2: SECTION 1.1

FIREBREAK DOORS AND SHUTTERS

Fireman

Product Name	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	Reliability (self closing durability Ref. LPS 1056 Clause 3.6)	LPCB Ref. No.
Fireman	Sliding door	4.0	4.0	16.00	240	0	No performance determined	106a/01
	Single leaf hinged door	2.76	1.423	3.57	240	0	No performance determined	106a/02
	Double leaf hinged door	2.76	2.845	7.15	240	0	No performance determined	106a/03

Notes:

1. Clark Door Ltd are also approved under LPS 1271 for installation of Fireman series of fire rated doorsets.
2. 106a/02 & 106a/03 - Vision panels, 6.5mm thick Pyroshield clear glass with maximum dimensions 1000mm wide x 1000mm high. Maximum area 1m²
3. 106a/03 - Double leaf doors, passive leaf must be fitted with a 3-point latching mechanism that engages in the top of frame, sill and the active leaf, and the active leaf must be fitted with a full length astragal that overlaps the passive leaf by at least 25mm.
4. 106a/01, 106a/02, & 106a/03 - Door leaf skins can be fabricated from galvanised mild steel or grade 316 stainless steel.
5. 106a/01, 106a/02, & 106a/03 - The doorsets can be installed in a rigid supporting construction such as brick, blockwork or concrete. The doorsets can also be installed in a composite wall panel system which provides equal or greater fire resistance than the doorset, when installed in a composite wall panel system the minimum fixing detail described in assessment report CC213834 shall be provided.

gte Brandschutz AG

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Certificate No: 735a to LPS 1056: Issue 5 excluding installation

Product Name	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (m) BS 476: Part 22 Integrity	Fire Resistance (m) BS 476: Part 22 Insulation	LPCB Ref. No.
CSS	Vertical sliding conveyor system shutter	1.3	1.4	1.82	90	90	735a/01
	Horizontal sliding conveyor system shutter	1.3	1.4	1.82	90	90	735a/02
	Flap type conveyor system shutter	1.3	1.1	1.43	90	90	735a/03
	(Single) Flap type conveyor system shutter (Stacked)	0.85	1.1	0.935	90	90	735a/04

Notes:

1. LPCB Product Ref. No's 735a/01, /02, /03 & /04 suitable for installation into masonry walls and Durasteel partitions as described in Assessment report No. CC221812.
2. CSS conveyor system shutters must be regularly maintained in line with the gte Brandschutz recommendations.

Hart Door Systems

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Certificate No: 016a to LPS 1056: Issue 5 excluding installation

PART 2: SECTION 1.1

FIREBREAK DOORS AND SHUTTERS

Product Name	Spec.	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	LPCB Ref. No.
Firebrand	4	Face-fixed rolling shutter	7.00	7.00	49.00	240	0	016a/01

Note:

- Hart Door Systems Ltd are also approved under LPS 1271 for installation of Firebrand rolling shutters.

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Certificate No: Certificate No: 655a to LPS 1056: Issue 6

Product Name	Max clear opening sizes Max Height (mm)	Max clear opening sizes Max Width (mm)	Max clear opening sizes Max Area (m ²)	Vision panel Max Clear View Height (mm)	Vision panel Max Clear View Width (mm)	Vision panel Max Clear View Area (m ²)	Transom panel Option Available (see note 5)	Fire resistance (min) BS476 Part 22 Integrity / Insulation	Reliability (self closing durability Ref. LPS1056 clause 3.6)	LPCB Ref. No.
HBS 60 C-1	2500	1250	3.125	781	435	0.34	Yes	60 / 0	No Performance determined	655a/07
HBS 60 C-2	2500	2500	6.250	781	435	0.34	Yes	60 / 0	No Performance determined	655a/08
HBS 90 C-1	2500	1250	3.125	781	435	0.34	Yes	90 / 0	No Performance determined	655a/09
HBS 90 C-2	2500	2500	6.250	781	435	0.34	Yes	90 / 0	No Performance determined	655a/10
HBS 120 C-1	2500	1250	3.125	781	435	0.34	Yes	120 / 0	No Performance determined	655a/11
HBS 120 C-2	2500	2500	6.250	781	435	0.34	Yes	120 / 0	No Performance determined	655a/12
HBS 30 D-1	4225	1950	6.580	2085	1080	2.25	No	30 / 0	No Performance determined	655a/13
HBS 60 D-1	4062	1875	6.330	2085	1080	2.25	No	60 / 0	No Performance determined	655a/14
HBS 90 D-1	3770	1740	5.850	2085	1080	2.25	No	90 / 0	No Performance determined	655a/15
HBS 30 F-2	3700	3388	11.372	-	-	-	No	30 / 30	No Performance determined	655a/16
HBS 60 F-2	3700	3388	11.372	-	-	-	No	60 / 30	No Performance determined	655a/17
HBS 90 F-2	3458	3166	10.424	-	-	-	No	90 / 30	No Performance determined	655a/18

Notes:

- LPCB ref No. 655a/07 & 08 for alternative approved thin/thick rebated doorsets, frame profiles, sill arrangements & door furniture please refer to BRE assessment report CC 94538 Review 3.
- LPCB ref No. 655a/09, 10, 11 & 12 for alternative approved thin/thick rebated doorsets, frame profiles, sill arrangements & door furniture please refer to BRE assessment report CC 92353 Review 3.
- LPCB ref No. 655a/13, 14 & 15 doorsets are approved with the following hardware only.
 - Hinges - 3 x Schwarte
 - Locking mechanism - A BKS 6065 lock with an additional BKS6138 lock
 - Door closer - Geze TS 4000
 - Door furniture - Eco Schulte 0432-EN 179-DO 20.3 plastic-coated steel lever handles, four dog bolts along the hinge edge.
- LPCB ref No. 655a/16, 17 & 18 doorsets are approved with the following hardware only.
 - Hinges - 2 pairs (4) Schwarte FH-615-20-KO on each leaf (passive/active leaf)
 - Door closer - GEZE TS 4000 (active/passive leaf)
 - Locking mechanism - BKS 6065 lock with additional BKS 6138 catch lock (active leaf), and BKS 1899 rebate locking bolt (passive leaf)
 - Door furniture - ECO Shulte DIN 18273-FS-SG-BB-PZ lever handles (active/passive leaf) along with ECO Shulte SR Basis-1 door selector and three security bolts.
- Where a doorset is fitted with a transom panel, the transom shall be up to a maximum height of 1000mm and not exceeding the maximum permitted height of the doorset, and be of the same construction as the door leaf which is fastened to the door frame with security bolts at the top and steel screws at the bottom at maximum 500mm centres. The transom panel may be fitted into the frame

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type either with or without flexible perimeter seals. For LPCB ref no 655a/07, 08, 09, 10, 11 & 12 a vision panel may be fitted within the transom panel in the same way as for the door leaf, see note 6.

6. LPCB ref No. 655a/07, 08, 09, 10, 11 & 12 Vision panel frames, steel channel spacers, minimum 1.0mm thick are welded to the leaf and connected together through the door leaf with M5 steel screws and threaded sockets at 250mm nominal centres. The frame depth which holds the 6.5mm-thick Georgian-wired glass is 15 mm. Ceramic fibre tape, nominally 4mm thick, is fitted between the glass and the frame. The single and double leaf doorsets may be fitted with one or more vision panels providing the following requirements are met
 - a. Where more than one panel is fitted the max total vision area must not exceed 0.34m² and each vision panel must be separated by at least 165mm
 - b. The vision panel must be a minimum of 165mm from the leaf edge.
 - c. The arrangement of the vision panels in double leaf doorsets shall be the same in both leaves
7. LPCB ref No. 655a/13, 14 & 15 Vision panel frames, comprising of 2mm-thick T-profiles, 30mm x 30mm, which are connected via 2mm fillet welds, the tail of the T-profiles are covered on both sides with strips of Promatect-L board, 30mm x 15mm. The vision panel Promaglas 90/35 Type 1.0 is held in place by a 2mm-thick steel glazing bead 44.5mm x 20.5mm fixed back to the glazing support frame with 4.2mm Ø x 50mm long self tapping screws. The perimeter on both sides is sealed against the glazing beads using EPDM seals.
8. LPCB ref No. 655a 07, 08, 09, 10,11 & 12 doorsets may be installed in either Masonry minimum 215mm-thick, Concrete/concrete block minimum 150mm-thick, autoclaved aerated concrete block walls minimum 215mm -thick / 400kg/m³ or Steel stud with plasterboard or calcium silicate board partitions. Where the doorset is installed in a plasterboard or calcium silicate board partition, the inside of the aperture to which the doorset is being fixed is lined with 2mm thick steel stud channel section, with flanges at least 40mm wide. The vertical studs either side of the aperture are fixed top and bottom to either a masonry or concrete supporting construction, and the horizontal stud along the top of the aperture is fixed to the vertical studs at either end. The door frame shall also be filled with fire resisting board and fixed to the partition using 5mm diameter self-tapping self-drilling screws.
9. LPCB ref No. 655a/13, 14, 15, 16, 17 & 18 doorsets may be installed in masonry or concrete walls minimum 240mm-thick.

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Certificate No: 165a to LPS 1056: Issue 6

Product Name	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	Reliability (self closing Durability Ref LPS 1056 Clause 3.6)	LPCB Ref. No.
Sentry	Rolling shutter	7.0	7.0	49.0	240	0	No performance determined	165a/01
Sentry 2	Rolling shutter	7.0	7.0	49.0	120	0	No performance determined	165a/02
Sentry 1 Compact	Rolling shutter	2.20	3.40	7.48	60	0	No performance determined	165a/03
Sentry 1	Rolling shutter	2.20	2.20	4.84	60	0	No performance determined	165a/04

Notes:

1. LPCB Ref No. 165a/03 - Sentry 1 Compact rolling shutter can be fitted with either the flat or curved lath.
2. Industrial Door Engineering Limited are also Certified for the installation of fire rated Sentry rolling shutters against the requirements of LPS 1271.

L.B.S. Group (incorporating L.B.S Security Services Limited - t/a Specialized Door Services, Russell Shutters, Olsen Shutters and Ranford Doors)

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Certificate No: 247b to LPS 1056: Issue 5

Fireguard

Product Name	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance Integrity/Insulation (min) BS 476: Part 22 Integrity	LPCB Ref. No.
Fireguard	Rolling shutter	7.0	10.0	49.0	240/0	247b/01

Notes:

1. LPCB Ref 247b/01 - for a list of the component's and sizes for the shutter dimensions up to the maximum stated please refer to BRE Global assessment CC203994 Rev 2.

Lincs Doors Limited

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Certificate No: 777a to LPS 1056: Issue 6

Product Name	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	Reliability (self closing durability) Ref. LPS 1056 Clause 3.6)	LPCB Ref. No.
Pyroshield	Single leaf hinged without vision panel	2.114	0.942	1.99	120	0	No performance determined	777a/01
	Single leaf hinged without vision panel	2.536	1.130	2.48	60	0	No performance determined	
	Single leaf hinged with vision panel	2.114	0.942	1.99	90	0	No performance determined	777a/02
	Single leaf hinged with vision panel	2.536	1.130	2.48	60	0	No performance determined	
	Double leaf hinged without vision panel	2.114	1.884	3.98	120	0	No performance determined	777a/03
	Double leaf hinged without vision panel	2.536	2.260	4.96	60	0	No performance determined	
	Double leaf hinged with vision panel	2.114	1.884	3.98	90	0	No performance determined	777a/04
	Double leaf hinged with vision panel	2.536	2.260	4.96	60	0	No performance determined	

Notes:

1. LPCB Ref Nos. 777a/02 & 777a/04 - Vision panels, 10mm thick Pyrodur glass with maximum dimensions 245mm wide x 350mm high.
2. LPCB Ref Nos. 777a/03 & 777a/04 - Double leaf doors, passive leaf must be fitted with a 3-point latching mechanism that engages in the top of frame, sill and the active leaf, and the active leaf must be fitted with a full length astragal that overlaps the passive leaf by at least 25mm.
3. LPCB Ref Nos. 777a/01, 777a/02, 777a/03 & 777a/04 - Door leaf skins can be fabricated from galvanised mild steel or grade 316 stainless steel.
4. LPCB Ref Nos. 777a/01, 777a/02, 777a/03 & 777a/04 - The doorsets can be installed in a rigid supporting construction such as brick, blockwork or concrete. The doorsets can also be installed in a composite wall panel system which provides equal or greater fire resistance than the doorset, when installed in a composite wall panel system the minimum fixing detail described in assessment report CC223023 shall be provided.

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Mercian Shutters Limited

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Certificate No: 355b to LPS 1056: Issue 5 excluding installation

Product Name	Spec.	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	LPCB Ref. No.
SF Series	4	Rolling shutter	7.00	7.00	49.00	60, 120 & 240	0	355b/01
		Rolling shutter	5.00	10.0	50.00	60 & 120	0	

Notes:

- SF series rolling shutters ref 355b/01 - Reference must be made to assessment report no CC242948 issue 2 dated 11 June 2008 to confirm component dimensions relevant to the system size and fire resistance required.
- Mercian Shutters Ltd are also approved under LPS 1271 for installation of SF Series fire rated rolling shutters.

Middle East Insulation

P O Box 14225, Dubai, United Arab Emirates

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Certificate No: 708a to LPS 1056: Issue 6.1

Product Name	Maximum leaf size Height (mm)	Maximum leaf size Width (mm)	Maximum leaf size Area (m ²)	Vision Panel Glass type	Vision panel Maximum clear view height (mm)	Vision Panel Maximum clear view width (mm)	Vision panel Maximum clear view area (m ²)	Transom Panel Option Available (see note 2)	BS 476: Part 22 Fire Resistance (minutes) Integrity	BS 476: Part 22 Fire Resistance (minutes) Insulation	LPCB Ref. No.
FORT/HC single leaf doorset	2967	1196	3.22	N/A	-	-	-	NO	180	0	708a/01
	2968	1056	2.84	6mm Pyran S	500	200	0.10	YES	120	0	708a/03
	2968	1056	2.84	6mm Pyran S	805	230	0.17	YES	90	0	
	2968	1056	2.84	6mm Pyroshield	700	200	0.14	YES	90	0	
	2968	1056	2.84	6mm Pyroshield	805	230	0.17	YES	60	0	
	2968	1056	2.84	N/A	-	-	-	YES	120	0	
	2337	1017	2.16	6mm Pyran S	700	200	0.14	YES	120	0	708a/05
	2337	1017	2.16	6mm Pyran S	805	230	0.17	YES	90	0	
	2337	1017	2.16	6mm Pyroshield	700	200	0.14	YES	90	0	
	2337	1017	2.16	6mm Pyroshield	805	230	0.17	YES	60	0	
FORT/HC double leaf doorset	2337	1017	2.16	N/A	-	-	-	YES	120	0	
	2682	1196	2.91	6mm Pyran S	254	254	0.065	YES	120	0	708a/06
	2682	1196	2.91	6mm Pyran S	700	200	0.140	YES	90	0	
	2682	1196	2.91	6mm Pyroshield	700	200	0.140	YES	90	0	
	2682	1196	2.91	6mm Pyroshield	805	230	0.168	YES	60	0	

Notes:

- LPCB Ref. 708a/03, 708a/05 & 708a/06 Where a doorset is fitted with a transom panel, the maximum height of the doorset, including transom panel, should not exceed 3000mm. The transom panel should be a maximum of 580mm high and have the same construction as the door leaves and be separated from them by a transom bar. The panel should be fastened to the door frame using 5mm Ø bolts via 25mm x 25mm x 60mm long x 2mm-thick clips.
- LPCB Ref. 708a/01, 708a/03 & 708a/06 Doorset must be fitted with two pairs of hinges per leaf.
- LPCB Ref. 708a/05 Doorset must be fitted with one-and-a-half pairs of hinges per leaf.

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4. The approved doorsets have been tested or assessed for use with the following hardware types;
 - a. Hinges - FORT stainless steel ball bearing hinges, McKinney butt hinges. Alternative mild steel, galvanised or stainless steel hinges with characteristics as detailed in assessment report CC 271427.
 - b. Locking mechanism - Dorma 752F. Alternative locks and latches with characteristics as detailed in assessment report CC 271427.
 - c. Door furniture - All door furniture shall be manufactured from steel or stainless steel as detailed in assessment report CC 271427.
 - d. Door closer - Dorma 7601, Dorma TS72 or Geze TX4000 for use with single leaf doorsets, and Dorma TS72 for use with double leaf doorsets only.
5. LPCB Ref. 708a/01, 708a/03, 708a/05 & 708a/06 the doorsets listed have been tested in a brick wall surround and are therefore approved when installed in masonry or concrete wall surround only.

Saudi Factory For Fire Equipment Co.

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Certificate No: 403c to LPS 1056 Issue 6.1

Product Name	Door Type	Max Height (mm)	Max Width (mm)	Max Area (m ²)	Fire Resistance (minutes) BS 476: Part 22 Integrity	Fire Resistance (minutes) BS 476: Part 22 Insulation	Reliability (self closing durability) Ref. LPS 1056 Clause 3.6)	LPCB Ref. No.
SFFECO FIRE DOOR	Single leaf, hinged steel doorset	2197	1092	2.399	180	0	No Performance Determined	403c/01

Notes.

1. LPCB Ref. No. 403c/01 The SFFECO FIRE DOOR doorset is approved to withstand a fire exposure from the opening side only, as detailed in BRE Assessment report CC225304.

Stobich Brandschutz GmbH

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Certificate No: 1064a to LPS 1056: Issue 6.1

Product Name	Supporting construction	Penetration sealing	Max leaf height (m)	Max leaf width (m)	Max leaf area (m ²)	Fire Resistance (Min) BS EN 1366-7 Integrity/Insulation	LPCB Ref. No.
ECClos-Q conveyor system closure	160mm thick Plasterboard partition (see note 1)	See note 2	1.377 (note 3)	1.940 (note 3)	2.343 (note 3)	120/120	1064a/01
	200mm blockwork wall (see note 4)	See note 5 See note 6	1.377 (note 3)	1.940 (note 3)	2.343 (note 3)	240/120	1064a/02
ECClos-S conveyor system closure (horizontally closing)	200mm aerated concrete	See note 7	3.177	3.374	10.719	120/90	1064a/03
	200mm aerated concrete	See note 7	4.765	5.061	16.079	120/0	
ECClos-S conveyor system closure (vertically closing)	160mm thick Plasterboard partition (see note 1)	See note 8	3.187	3.374	10.753	120/120	1064a/04
	160mm thick Plasterboard partition (see note 1)	See note 8	4.780	5.061	16.129	120/0	
	240mm masonry	See note 9	4.780	5.061	16.129	120/90	1064a/05

PART 2: SECTION 1.1

FIREBREAK DOORS AND SHUTTERS

Product Name	Supporting construction	Penetration sealing	Max leaf height (m)	Max leaf width (m)	Max leaf area (m ²)	Fire Resistance (Min) BS EN 1366-7 Integrity/Insulation	LPCB Ref. No.
ECClos-Flex conveyor system closure (vertically closing)	200mm aerated concrete	See note 11	3100	3652	11.321	90/0	1064a/06
	200mm aerated concrete	See note 12	3100	3852	11.321	60/0	
	200mm aerated concrete	See note 13	3100	3652	11.321	60/0	

Notes:

- LPCB Ref 1064a/01 - Standard flexible supporting construction according to BS EN 1366-7, table no 3, giving a fire resistance of 120 minutes, a cross bar type steel frame consisting of two uprights spanning from the floor to ceiling with a horizontal steel spanning between the sections (all 100mm x 100mm x 4mm thick) is located within the partition, around the structural opening to bear the load of the conveyor system. The conveyor system closure shall be face fixed and may be located on the exposed or unexposed side.
- LPCB Ref 1064a/01 where the conveyor track penetrates the 160mm thick structural opening 1700mm (w) x 1500mm (h) a blockwork wall/panel is formed below (built from the finished floor level), minimum density 350kg/m³, 150mm thick, 800mm high and 2060mm wide, the top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed to the cross bar steel frame uprights (within the partition) at 200mm centres. A nominal 175mm opening is left around the conveyor track and blockwork wall/panel, this is built up with layers of Promatect-H25/H20/H15/H12 and H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement/expansion.
- LPCB Ref 1064a/01 and 1064a/02 The closure leaf is "T" shaped and may be increased by a maximum of 15% in height and/or 15% in width provided the surface area of the leaf is not increased by more than 20% from the dimensions given in the table above. The leaf may not be reduced by more than 50% in width and 75% in height.
- LPCB Ref 1064a/02 - Standard low density rigid wall construction according to BS EN 1366-7, table no 2, with a minimum density of 613kg/m³. The conveyor system closure shall be face to face fixed and may be located on the exposed or unexposed side.
- LPCB Ref 1064a/02 where the conveyor track penetrates the 200mm thick structural opening 1700mm (w) x 1500mm (h), a blockwork wall/panel is formed below minimum density 350kg/m³, 150mm thick and supported 300mm above the finished floor level with 4 x 300mm and 1 x 500mm L profile fixing brackets 150mm x 100mm x 10mm thick with threaded rods and nuts (M10). The top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles though fixed back to the 200mm thick wall at 200mm centres. A nominal 175mm opening is left around the conveyor track and blockwork wall/panel, this is built up with layers of Promatect-H25/H20/H15/H12 and H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement/expansion.
- LPCB Ref 1064a/02 the penetration seal may incorporate a cable penetration, with maximum penetration size of 60mm x 220mm x 175mm (thickness x height x depth). The penetration must be lined with 20mm Promatect-H boards and the perimeter of the opening sealed with one layer of Tenmat Firefly 102, all control cables must then individually pass through a mineral wool batt (Rockwool RPB9 minimum density 90kg/m³) which is held in place within the penetration with EMPE glue.
- LPCB ref No. 1064a/03 where the conveyor track penetrates the 200mm thick supporting construction a recess 175mm deep is formed in the base of the 3000mm x 3000mm structural opening, a blockwork wall/panel 150mm thick is formed supported 260mm below the structural opening with 5 x 500mm and 2 x 300mm L profile fixing brackets 150mm x 100mm x 10mm thick with threaded rods and nuts (M10). The top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed back to the 200mm thick supporting construction. A nominal 60mm gap is left around the vertical sides with a nominal 120mm gap left on the underside of the conveyor track and blockwork wall, this is built up with layers of Promatect-H25/H20/H15, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement /expansion. The conveyor system closure shall be face fixed and may be located on the exposed side only.
- LPCB ref No. 1064a/04 where the conveyor track penetrates the 160mm thick supporting construction 3000mm (w) x 3000mm (h) a blockwork wall/panel is formed below (built from the finished floor level), minimum density 350kg/m³, 150mm thick, 1240mm high and 3545mm wide, the top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed to the cross bar steel frame uprights (within the partition) at 100mm centres. A recess positioned centrally 388mm deep x 1066mm long is formed on the top of the wall to accommodate the conveyor. A nominal 200mm opening is left around the conveyor track and blockwork wall/panel, this is built up with layers of Promatect-H25/H20/H15/H12 and H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement /expansion. The conveyor system closure shall be face fixed and may be located on the un-exposed side only.
- LPCB ref No. 1064a/05 where the conveyor track penetrates the 240mm thick supporting construction a recess 110mm deep x 695mm long is formed in the base of the 3000mm x 3000mm structural opening, a blockwork wall/panel 150mm thick is formed and supported 480mm below the structural opening with 5 x 500mm and 2 x 300mm L profile fixing brackets 150mm x 100mm x 10mm thick with threaded rods and nuts (M10). The top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed back to the 240mm supporting construction. A nominal 60mm gap is left around the vertical sides and underside of the conveyor track and blockwork wall, this is built up with layers of Promatect-H25/H20/H15/H12/H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement /expansion. The conveyor system closure shall be face fixed and may be located on the exposed side only.
- LPCB ref No. 1064a/06 The locking mechanism for the ECClos-Flex system is located at the base of the structural opening and is fixed to the supporting construction via a Z section and continuous 10mm-thick x 268mm high Durasteel plate section. The conveyor system closure shall be face fixed and may be located on the exposed side only.
- LPCB ref No. 1064a/06 The chain conveyor track system where it penetrates the locking mechanism (see note 10) consists of a C profile 105 x 56 x 3mm surrounded on three sides with 12.5mm fireproof gypsum plaster board through fixed to Durasteel board using brackets and 5mm blind steel rivets, the inside of the C section is packed with layers of intumescent fabric (Helitex EW 120), or

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alternatively a C profile 105 x 56 x 3mm surrounded by two layers of intumescent fabric (Heliotex EW 120), fixed using metal strips to the Durasteel board.

12. LPCB ref No. 1064a/06 The belt conveyor track system (450mm x 105mm) where it penetrates the locking mechanism (see note 10) is protected up to a depth of 70mm with calcium silicate boards which are fastened to the Durasteel locking mechanism using brackets and 5mm thick blind steel rivets. Where there are gaps between the conveyor track and the calcium silicate boards (approx 4mm) they are lined with a layer of Tenmat firefly 102.
13. LPCB ref No. 1064a/06 The chain conveyor track system where it penetrates the locking mechanism (see note 10) consists of a C profile 105 x 56 x 3mm surrounded on three sides with mineral wool minimum density 150kg/m³, the mineral wool has a 20mm deep channel cut out and is inserted tightly onto the Durasteel board, the inside of the C section is packed with mineral wool, where there are gaps between the conveyor track and mineral wool (approx 4mm) they are lined with a layer of Tenmat firefly 102.

Sunray Engineering Limited

Kingsnorth Industrial Estate, Wotton Road, Ashford, Kent TN23 6LL, United Kingdom

Tel: +44 (0)1233 639039 • Fax: +44 (0)1233 625137

E-mail: sales@sunraydoors.co.uk • Website: www.sunraydoors.co.uk

Certificate No: 234b to LPS 1056: Issue 6.1

Product Name	Spec.	Door Type	Max Height (m)	Max Width (m)	Max Area (m ²)	Fire Resistance (min) BS 476: Part 22 Integrity	Fire Resistance (min) BS 476: Part 22 Insulation	LPCB Ref. No.
ExcluDoor 4, 2 lock version	4	Single-leaf hinged door	2.25	1.05	2.40	30	0	234b/01

Notes:

1. LPCB Ref: 234b/01 this product achieved an integrity rating of 120 minutes when tested opening towards the furnace with the deadlocks engaged.
2. LPCB Ref 234b/01 this product is also certificated to Security Rating 4 against the requirements of LPS 1175: Issue 5.
3. Sunray Engineering Ltd is also approved to LPS 1271 for installation of fire and security doors, see approval listing for details.

Certificate No: 234b to LPS 1056: Issue 6.1

Product Name	Door Type	Max leaf Height (m)	Max leaf Width (m)	Max leaf Area (m ²)	Fire Resistance (min) BS EN 1634-1: 2008 Integrity/Insulation	LPCB Ref. No.
ExcluDoor 4, Mk2 FR	Single-leaf hinged door	2.350	1.155	2.71	240/0	234b/02
	Double-leaf hinged door	2.350	1.155	5.42	240/0	234b/03
	Unequal width Double-leaf hinged door	2.350	1.155	5.42	240/0	
ExcluDoor 3, Mk3 FR	Single-leaf hinged door	2.350	1.155	2.71	240/0	234b/04
	Double-leaf hinged door	2.350	1.155	5.42	240/0	234b/05
	Unequal width Double-leaf hinged door	2.350	1.155	5.42	240/0	

Notes:

1. LPCB Ref: 234b/02, 234b/03, 234b/04 and 234b/05 doorsets may be fitted with a plain outer face so that there is no method of external access.
2. LPCB Ref: 234b/02, 234b/03, 264b/04 and 234b/05 these products are also certificated to Security Rating 4 against the requirements of LPS 1175: Issue 7.
3. Sunray Engineering Ltd is also approved to LPS 1271 for installation of fire and security doors, see approval listing for details.
4. LPCB Ref: 234b/02, 234b/03, 234b/04 and 234b/05 doorsets are approved with the following Surelock Slimline three-point lock system as shown below.

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FIREBREAK DOORS AND SHUTTERS

Description	Code	Entry			Exit				
		Key	Access control	Combination	Key	Turnknob	Access control	Panic	Emergency
3-point bolting	SL304	*						✓	
3-point bolting	SL305	*							✓
3-point deadlocking	SL301	✓			✓			✓	
3 point deadlocking	SL 303					✓		✓	
3-point deadlocking		SL310	✓						
3-point deadlocking	SL311	✓			✓			✓	
3-point deadlocking	SL313	✓				✓		✓	
3-point deadlocking	SL314	✓						✓	
3-point deadlocking	SL315	✓							✓
3-point deadlocking	SL320	*	✓						
3-point deadlocking	SL321	*	✓		✓	✓	✓	✓	
3-point deadlocking	SL322	*	✓				✓		
3-point deadlocking	SL323	*	✓			✓	✓	✓	
3-point deadlocking	SL324	*	✓					✓	
3-point deadlocking	SL325	*	✓						✓
3-point deadlocking	SL330			✓					
3-point deadlocking	SL335			✓					✓

Technocover Limited (incorporating TechnoRail and Strataform)

Henfaes Lane, Welshpool, Powys SY21 7BE, United Kingdom

Tel: +44 (0)1938 555511 • Fax: +44 (0)1938 555527

E-mail: techadvice@technocover.co.uk • Website: www.technocover.co.uk

Certificate No: 450g to LPS 1056: Issue 6

Product Name	Door Type	Maximum Leaf Size Height (mm)	Maximum Leaf Size Width (mm)	Maximum Leaf Size (m ²)	Door Hardware Variations	BS476: Part 22 Fire resistance (minutes) Integrity	BS476: Part 22 Fire resistance (minutes) Insulation	LPCB Ref. No.
Sentinel UltraSecure	DS1/LV Single leaf outward opening hinged doorset uninsulated	2200	940	2.06	SM3,SM4,SM6,SM7, SM8,SM10,SM13,SM14, SM16,SM17,SM18,SM20 SM23,SM24,SM26,SM27, SM28 & SM30.	240	0	450g/01

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FIREBREAK DOORS AND SHUTTERS

Product Name	Door Type	Maximum Leaf Size Height (mm)	Maximum Leaf Size Width (mm)	Maximum Leaf Size (m ²)	Door Hardware Variations	BS476: Part 22 Fire resistance (minutes) Integrity	BS476: Part 22 Fire resistance (minutes) Insulation	LPCB Ref. No.
	DS1/LV Single leaf outward opening hinged doorset uninsulated	2640	1128	2.58	SM3,SM4,SM6,SM7, SM8,SM10,SM13,SM14, SM16,SM17,SM18,SM20 SM23,SM24,SM26,SM27, SM28 & SM30.	120	0	
	DS2/LV Double leaf outward opening hinged doorset uninsulated	2768	1218	2.80	SM3,SM4,SM6,SM7, SM8,SM10,SM13,SM14, SM16,SM17,SM18,SM20 SM23,SM24,SM26,SM27, SM28 & SM30.	120	0	450g/02
	DS2/LV Double leaf outward opening hinged doorset uninsulated	2215	975	2.15	SM3,SM4,SM6,SM7, SM8,SM10,SM13,SM14, SM16,SM17,SM18,SM20 SM23,SM24,SM26,SM27, SM28 & SM30.	240	0	

Notes:

1. The Sentinel UltraSecure Doorsets are also certified to Security Level 3 & 4 against the requirements of LPS1175: Issue 6.
2. LPCB ref 450g/01 & 450g/02, for approved Door Hardware Variations please refer to Manufacturer's Technical Literature.
3. LPCB ref 450g/01 & 450g/02, the Sentinel UltraSecure Doorsets are approved when installed in concrete/masonry walls or drywall partitions.

PART 2: SECTION 1.2

LIFT LANDING DOORS

This section lists lift landing doors approved to LPS 1056 *Test and Evaluation requirements for the LPCB Approval and Listing of Fire Doorsets, Lift Landing Doors and Shutter Assemblies*. LPS 1056 is based upon relevant BS or European test criteria and not only looks at the fire integrity and insulation (where applicable) but also includes reliability cyclic tests and grading.

This section lists companies approved to LPS 1271 *Requirements for LPCB Approval and Listing of Companies Installing Fire and Security Doorsets, Shutters and Smoke Barriers*. This standard was developed to ensure that the product performance is not compromised by poor installation of the fire door or shutter. This section includes manufacturers installing doors and independent installation companies.

Information regarding the security of doors is available in Part 4: Section 5.

Avert Fire (UK) Ltd

P O Box 248, Dawes lane, Scunthorpe DN16 1DW, United Kingdom
Tel: +44 (0)1724 853712 • Fax: +44 (0)1724 278848
E-mail: admin@avertfire.co.uk; kevin@avertfire.co.uk • Website: www.avertfire.co.uk

Certificate No. 850Pla to LPS 1271: Issue 1.0

Approved Installer of certified fire doors and doorsets

Clark Door Limited

Unit F Central, Kingmoor Park, Carlisle, Cumbria CA6 4SJ, United Kingdom
Tel: +44 (0)1228 522321 • Fax: +44 (0)1228 401854
E-mail: mail@clarkdoor.com • Website: www.clarkdoor.com

Certificate No. 106b to LPS 1271: Issue 1

Approved installer of Fireman series of fire rated doorsets.

Grange Door Systems

Unit 12, Bilston Glen Industrial Estate, Edinburgh EH20 9LZ, United Kingdom
Tel: +44 (0)131 440 7000 • Fax: +44 (0)131 440 7003
E-mail: admin@grangedoor.com • Website: www.grangedoor.com

Certificate No. 573b to LPS 1271: Issue 1

Approved installer of Kenrick Fire Stopper Face-fixed rolling shutter (LPCB Ref No 477a/01)

Gunfire Trading Divison of Gunite (Eastern) Limited

Endeavour House, Compass Point, St Ives, Cambridgeshire PE27 5JL, United Kingdom
Tel: +44 (0)1480 466880 • Fax: +44 (0)1480 308999
E-mail: admin@gunite.co.uk • Website: www.gunite.co.uk

Certificate No. 848Pla to LPS 1271: Issue 1

Approved Installer of certified fire doors and doorsets

Hart Door Systems

Redburn Road, Westerhope Industrial Estate, Westerhope, Newcastle upon Tyne NE5 1PJ, United Kingdom
Tel: +44 (0)191 214 0404 • Fax: +44 (0)191 271 1611
E-mail: sales@speedor.co.uk • Website: www.speedor.com

Certificate No. 016b to LPS 1271: Issue 1

Approved installer of Firebrand fire rated rolling shutters.

PART 2: SECTION 2

FIRE AND SECURITY DOOR INSTALLERS

Industrial Door Engineering Limited

Winnington Avenue, Winnington, Northwich, Cheshire CW8 4EQ, United Kingdom
Tel: +44 (0)1606 871832 • Fax: +44 (0)1606 871482
E-mail: sales@industrial-door-eng.co.uk • Website: www.industrial-door-eng.co.uk

Certificate No. 165c to LPS 1271: Issue 1

Approved installer of Sentry, Sentry 1, Sentry 1 Compact and Sentry 2 fire rated rolling shutters.

Kone PLC

Global House, Station Place, Chertsey, Surrey KT16 9HW, United Kingdom
Tel: +44 (0)8451 999 999 • Fax: +44 (0)870 7701144
E-mail: sales.marketinguk@kone.com • Website: www.kone.co.uk

Helpdesk KONE ONE

KONE PLC, Global House, Station Place, Chertsey, Surrey KT16 9HW, United Kingdom
Tel: +44 (0)8451 999 999 • Fax: +44 (0)870 770 114
E-mail: sales.marketinguk@kone.com • Website: www.kone.co.uk

Certificate No. 122P to LPS 1271: Issue 1

Installation of Certified fire rated Rolling Shutters, Hinged Doorsets and Lift Landing Sliding Folding Shutters

Full UK Coverage

Mercian Shutters Limited

Pearsall Drive, Brades Road Industrial Estate, Oldbury, West Midlands B69 2RA, United Kingdom
Tel: +44 (0)121 544 6124 • Fax: +44 (0)121 552 6793
E-mail: info@merciandoors.co.uk • Website: www.merciandoors.co.uk

Also at:

Mercian Industrial Doors (Southern) Limited, t/a Mercian Industrial Doors Southern, 10-12 Galleymead Road, Colnbrook, Slough, Berkshire SL3 0EN, United Kingdom

Certificate No. 355c to LPS 1271: Issue 1

Approved installer of SF series of fire rated rolling shutters.

Prestige Fire Door Services Limited

15 Kings Road, Fleet, Hampshire GU51 3DJ, United Kingdom
Tel: 01252 645534 • Fax: 01252 678742
E-mail: info@prestigefiredoorservices.com • Website: www.prestigefiredoorservices.com

Certificate No. 1066PI to LPS 1271: Issue 1

Approved Installer of certified fire doors and doorsets

Safe Partnership

3 East Street, Wareham, Dorset BH20 4NN, United Kingdom

Tel: +44 (0)1929 551100 • Fax: +44 (0)1929 553300

E-mail: safe@safepartnership.org • Website: www.safepartnership.co.uk

Certificate No. 835c to LPS 1271: Issue 1

Approved installer of Safe Partnership Ltd Safe Door timber security doors as approved under LPS 1175 (Ref Certificate 835a).

Sunray Engineering Limited

Kingsnorth Industrial Estate, Wotton Road, Ashford, Kent TN23 6LL, United Kingdom

Tel: +44 (0)1233 639039 • Fax: +44 (0)1233 625137

E-mail: sales@sunraydoors.co.uk • Website: www.sunraydoors.co.uk

Certificate No. 234e to LPS 1271: Issue 1

Approved installer of certified Sunray Excludoor 3, Excludoor 3 MK 2 and Excludoor 4 (Ref product certificates 234b, 234c and 234d).

PART 2: SECTION 3

SERVICE AND MAINTENANCE OF DOORS

This section lists companies approved to LPS 1197 *Requirements for LPCB Approval and Listing of Companies Undertaking the Maintenance and Repair of Doorsets, Shutters, and Active Smoke/Fire Barriers.*

The effectiveness of a door is dependent upon regular inspection and servicing in accordance with the manufacturer's recommendations. Companies approved to LPS 1197 have demonstrated their ability to carry out this work effectively. The listings include the geographical areas covered by the companies and the level of service provided.

For the purposes of this document, the term fire door comprises any doorset or shutter assembly including any frame or guide, door leaf or leaves, rolling or folding curtain etc. which is designed to give a fire resisting capability when used for closing off permanent openings in separating elements of construction, including apertures for lift landing doors. This includes any side panels, vision panels or transom panels together with the door hardware and any seals (whether provided for the purpose of fire resistance and/or smoke control or for other purposes such as draught or acoustic reduction) which form the assembly.

Ascot Doors Limited

Britannia Way Industrial Park, Union Road, Bolton BL2 2HE, United Kingdom

Tel: +44 (0)1204 545801 • Fax: +44 (0)1204 545800

E-mail: sales@ascotdoors.co.uk • Website: www.ascotdoors.co.uk

Certificate No. 131c to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of all of England, Scotland and Wales.

Avert Fire (UK) Ltd

P O Box 248, Dawes lane, Scunthorpe DN16 1DW, United Kingdom

Tel: +44 (0)1724 853712 • Fax: +44 (0)1724 278848

E-mail: admin@avertfire.co.uk; kevin@avertfire.co.uk • Website: www.avertfire.co.uk

Certificate No. 850PIb to LPS 1197: Issue 3.0

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	No
24 hour emergency service	No

Service and maintenance of fire doors

Bond Engineering (Maintenance) Ltd

PO Box 7, North Road, Loughborough, Leicestershire LE11 1RL, United Kingdom

Tel: 0844 5611 007 • Fax: +44 (0)1509 231638

E-mail: info@bondengineeringuk.com • Website: www.bondengineeringuk.com

Certificate No. 908a to LPS 1197: Issue 3

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in West Midlands, Staffordshire, Hereford, Worcester, Warwickshire, Milton Keynes, Northamptonshire, Peterborough, Lincolnshire, Nottinghamshire, Derbyshire, South Yorkshire and Leicestershire.

Crawford UK Limited

Central & Southern UK

7 Churchill Way, 35A Business Park, Chapelton, Sheffield, South Yorkshire S35 2PY, United Kingdom
Tel: +44 (0)870 609 4474 • Fax: +44 (0)114 257 4397
E-mail: service.uk@crawfordsolutions.com • Website: www.crawfordsolutions.com

Certificate No. 001c to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

Out of office hours: Tel: +44 (0)1244 355235.

Crawford UK Limited

Northern UK

First Floor, Cedar House, Quarrywood Court, Livingston, West Lothian EH54 6AX, United Kingdom
Tel: +44 (0)1506 417237 • Fax: +44 (0)1506 412726
E-mail: service.uk@crawfordsolutions.com • Website: www.crawfordsolutions.com

Certificate No. 001c/02 to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

Out of office hours: Tel: +44 (0)1244 355235.

DoorCheck Limited

255 Chase Cross Road, Collier Row, Romford RM5 3XS, United Kingdom
Tel: 01708 762224 • Fax: 01708 762222
E-mail: contact@doorcheck.co.uk / doorchecklimited@gmail.com • Website: www.door-check.co.uk

Certificate No. 1119PI to LPS 1197: Issue 3.0

General servicing/maintenance	Yes
Maintenance contracts	No
24 hour answering service	No
24 hour emergency service	No

General servicing and maintenance of fire doors and fire doorsets

PART 2: SECTION 3

SERVICE AND MAINTENANCE OF DOORS

Grange Door Systems

Unit 12, Bilston Glen Industrial Estate, Edinburgh EH20 9LZ, United Kingdom

Tel: +44 (0)131 440 7000 • Fax: +44 (0)131 440 7003

E-mail: admin@grangedoor.com • Website: www.grangedoor.com

Certificate No. 573a to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in Scotland, Cumbria, North Lancashire, Teesside and Tyneside.

Industrial Door Engineering Limited

Winnington Avenue, Winnington, Northwich, Cheshire CW8 4EQ, United Kingdom

Tel: +44 (0)1606 871832 • Fax: +44 (0)1606 871482

E-mail: sales@industrial-door-eng.co.uk • Website: www.industrial-door-eng.co.uk

Certificate No. 165b to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in Cheshire, Clwyd, Derbyshire, Greater Manchester, Gwynedd, Lancashire, Merseyside and Yorkshire.

Kone PLC

Global House, Station Place, Chertsey, Surrey KT16 9HW, United Kingdom

Tel: +44 (0)8451 999 999 • Fax: +44 (0)870 7701144

E-mail: sales.marketinguk@kone.com • Website: www.kone.co.uk

Helpdesk KONE ONE

KONE PLC, Global House, Station Place, Chertsey, Surrey KT16 9HW, United Kingdom

Tel: +44 (0)8451 999 999 • Fax: +44(0)870 770 1144

E-mail: sales.marketinguk@kone.com • Website: www.kone.co.uk

Certificate No. 122n to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

Onsite within 4 hours of call, Full UK Coverage

L.B.S. Group (incorporating L.B.S Security Services Limited - t/a Specialized Door Services, Russell Shutters, Olsen Shutters and Ranford Doors)

Unit 6, Sterling Trading Estate, Rainham Road South, Dagenham, Essex RM10 8TX, United Kingdom

Tel: +44 (0)208 526 8572 • Fax: +44 (0)208 984 0378

E-mail: sales@lbsgroup.co.uk

Certificate No. 247a to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call-out in Bedfordshire, Berkshire, Buckinghamshire, Cambridgeshire, Essex, Hampshire, Hertfordshire, Kent, London, Norfolk, Northamptonshire, Oxfordshire, Suffolk, Surrey, East Sussex, West Sussex.

Mercian Shutters Limited

Pearsall Drive, Brades Road Industrial Estate, Oldbury, West Midlands B69 2RA, United Kingdom

Tel: +44 (0)121 544 6124 • Fax: +44 (0)121 552 6793

E-mail: info@merciandoors.co.uk • Website: www.merciandoors.co.uk

also at:

Mercian Industrial Doors (Southern) Limited, t/a Mercian Industrial Doors Southern, 10-12 Gallymead Road, Colnbrook, Slough, Berkshire SL3 0EN, United Kingdom

Certificate No. 355a to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in Hereford and Worcestershire, Shropshire, Staffordshire, Warwickshire and West Midlands.

Safe Partnership

3 East Street, Wareham, Dorset BH20 4NN, United Kingdom

Tel: +44 (0)1929 551100 • Fax: +44 (0)1929 553300

E-mail: safe@safepartnership.org • Website: www.safepartnership.co.uk

Certificate No. 835b to LPS 1197: Issue 3

General servicing/maintenance	Yes
Maintenance contracts	No
24 hour answering service	Yes
24 hour emergency service	No

Scope: Area of cover, all regions of England, Wales and Northern Ireland.

Maintenance and repair of Safe Partnership Ltd Safe Door timber security doors approved to LPS 1175 (Ref cert. 835a) only.

Response service arising from perpetrators attempting or gaining entry into sanctuary or safe room based on agreed priority system.

PART 2: SECTION 3

SERVICE AND MAINTENANCE OF DOORS

Stanair Industrial Door Services Limited

2 Henson Way, Telford Way Industrial Estate, Kettering, Northamptonshire NN16 8PX, United Kingdom

Tel: +44 (0)1536 482187 • Fax: +44 (0)1536 411799

E-mail: info@stanair.co.uk • Website: www.stanair.co.uk

Certificate No. 141a to LPS 1197- Issue 3

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in Bedfordshire, Buckinghamshire, Cambridgeshire, Leicestershire, Northamptonshire.

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Tyco Park, Grimshaw Lane, Newton Heath, Manchester M40 2WL, United Kingdom

Tel: +44 (0)161 205 2321 • Fax: +44 (0)161 455 4459

Website: www.tycofis.com

Certificate No. 014c/01 to LPS 1197

General servicing/maintenance	No (see note)
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in mainland UK.

Note: General service/maintenance operated through Barnsley and Wigan offices.

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Albion Road, Carlton Industrial Estate, Barnsley S71 3HW, United Kingdom

Tel: +44 (0)1226 702000 • Fax: +44 (0)1226 702001

Website: www.tycofis.com

Certificate No. 014c/02 to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in mainland UK.

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Unit 4, Bradley Hall Industrial Estate, Bradley Lane, Standish, Wigan WN6 0XQ, United Kingdom

Tel: +44 (0)161 205 2321 • Fax: +44 (0)161 455 4459

Website: www.tycofis.com

Certificate No. 014c/03 to LPS 1197

General servicing/maintenance	Yes
Maintenance contracts	Yes
24 hour answering service	Yes
24 hour emergency service	Yes

On site within 4 hours of call in mainland UK.