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NBS L20/610

FOLDING DOOR

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APPENDIX 15

FORTRESS LIBER INSULATED FOLDING DOOR

Product Reference	Fortress Liber Industrial Sectional Folding Door.
Description	A double-skinned thermally insulated steel panelled door designed for reducing building energy consumption.
Application	Recommended for factories/ warehouses/ garages.
Size	Maximum recommended dimensions up to 7500mm x 6000mm. Last revision January 2017. Larger sizes by specification. Please consult Fortress SEFA for advice.
Performance	Acoustic performance: Weighted Level Difference D_w value 18dB. Thermal Performance: Insulated panel material U Value 0.9 W/m ² K EN 12425: Water Ingress Class 3 @ 150pa CE-marked: Product Standard BS EN 13241-1 2003 + A1:2011. BS EN 12604 Industrial, commercial and garage doors and gates. Mechanical aspects - Requirements. BS EN 12453 Industrial, commercial and garage doors and gates. Safety in use of power operated doors - Requirements. BS EN 12424 Industrial, commercial and garage doors and gates. Resistance to wind load: BSEN 12424:2000, Classification 4. Manufacturer's Declaration of Conformity in accordance with the Construction Products Directive 2013. Manufacturer's Declaration of Incorporation in accordance with the Machinery Directive 98/37/EC.
Arrangement	Heavy duty horizontal track system.
Panels	Steel insulated panels 1000mm x 50mm. Door [panels can be solid or include vision panels (Maximum of 1 vision panel per linear metre width up to a maximum of 2 per panel), 50mm insulated CFC-free rigid polyurethane foam, density 40kg/m ³ . Panels have a U value of 0.9 W/m ² K and are completed with pre drilled galvanised steel end caps. EPDM 2mm thick weather proof seals to top and side reveals.
Tracks	All components fully galvanised with galvanised fixings. Horizontal 5mm tracks with heavy duty fixing angles. EPDM 2mm thick Side Seals.
Hardware	All components fully galvanised. Doors supplied with adjustable side hinges complete with carriers, intermediate hinges, nylon and steel rollers.
Finish	Door panels can be coated in either a polyester or plastisol finish to outer skin only.
Manual Operation	Push/pull open & close.
Electrical Operation	BS EN 12453 Fortress Drive System™ 415 Volt 3-phase or 1ph operator with push button controls, supplied with manual release cable device for use in the event of emergency open/closure.
Operating Controls	BS EN 12453 Hold-to-run and dead-man close automation for applications where there are untrained door users.

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OPTIONAL EXTRAS

Accessories

Wicket gate - standard size 800mm x 2000mm, complete with lock, handles and safety locking system.
Glazing panels 480w x 862h double glazed argon filled units
Spring load locking shoot bolts
Keyed shoot bolts
Micro switch.

Electrical

Self-checking safety edge (will stop and reverse the door movement immediately upon contact with an obstacle).
Photocell (light beam sensor will detect the presence of a person or object that interrupts the light beam providing a non-contact safety system).
Radar sensor.
Auto time return control panel.
Induction loop card.
Remote control receiver and transmitters

Panel Options

Fully glazed panoramic window panels.

Finishes

Door curtain and guides can be supplied BS EN 12206-1 DuPont® polyester powder coated (PPC) to the Fortress Pro-Tec range of 29 BS and RAL colours. Matt PPC finishes only. All finishes are applied in-house using an electrostatic process. Under normal circumstances average film thickness of 60-80µm (microns) is applied. Non-standard colours are available on request - this may increase lead times. Please consult Fortress SEFA for advice.

Standard DuPont® Colour Range

RAL 9002, RAL 9010, RAL 9006, RAL6005, RAL 3000, RAL 5010, RAL 5003, BS 08B29, BS 18E53, RAL 6003, BS 10E55, BS 18B17, BS 18C39, BS 04E53, RAL 6002, RAL 9007, BS 12B21, RAL 7016, BS 12B29, BS 10A05, BS 18B25.

Services

Fortress SEFA provides a full technical advice service.
NBS Specifications.
RIBA CPD.

Manufacturer

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