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## NBS L20/610

## SECTIONAL DOOR

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### APPENDIX 17

### FORTRESS SEC600 INSULATED SECTIONAL DOOR

<b>Product Reference</b>	Fortress SEC600 Industrial Sectional Door.
<b>Description</b>	A double-skinned thermally insulated steel panelled door designed for reducing building energy consumption.
<b>Application</b>	Recommended for factories/ warehouses/ garages.
<b>Size</b>	Maximum recommended dimensions up to 6000mm x 6000mm. Last revision January 2016. Larger sizes by specification. Please consult Fortress SEFA for advice.
<b>Performance</b>	Acoustic performance: Weighted Level Difference $D_w$ value 25dB. Thermal Performance: Insulated panel material U Value 0.6 W/m <sup>2</sup> 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 3. 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.
<b>Arrangement</b>	Vertical, hi lift, standard lift and low headroom track systems are available for face fixing.
<b>Springs</b>	Drums, steel shaft. End bearing plates, intermediate bearing plates, bearings, steel couplers, plus & winders, Helical balancing springs from high tensile steel wire to DIN 17223 sort C.
<b>Panels</b>	Steel insulated panels 610mm x 40mm. Door [panels can be solid, include vision panels or be fully glazed.(Maximum of 1 vision panel per linear metre width up to a maximum of 5 per panel), 40mm insulated CFC-free rigid polyurethane foam, density 40kg/m <sup>3</sup> . Panels have a U value of 0.6 W/m <sup>2</sup> k and are completed with pre drilled galvanised steel end caps. EPDM 2mm thick weather proof seals to top and side reveals.
<b>Tracks</b>	All components fully galvanised with galvanised fixings. Vertical Tracks, Horizontal tracks with curve. Vertical angle, Horizontal angle, EPDM 2mm thick Side Seals. Track slice plates.
<b>Hardware</b>	All components fully galvanised. Doors supplied with adjustable side hinges complete with carriers, intermediate hinges, nylon and steel rollers, cable sets, bottom corner brackets, spring bumpers, self tapping panel fixings. Doors up to 5000mm wide will be supplied with single hardware and single width end caps. Doors 5001mm wide and above will be supplied with double hardware and double end caps. Doors 6001mm wide and above will be supplied with wind bracing bars. All doors are fitted with cable and spring brake safety device as standard.
<b>Finish</b>	Door panels can be coated in either a polyester or plastisol finish to outer skin only. Standard internal panel finish is stucco embossed PPC finish in RAL 9010.
<b>Operation</b>	BS EN 12453 Fortress SEC600 Drive System™ 415 Volt 3-phase operator with push button controls, supplied with hand chain operation for use in the event of emergency open/closure.

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### OPTIONAL EXTRAS

#### Operating Controls

BS EN 12453 Hold-to-run and dead-man close automation for applications where there are untrained door users. Drive unit incorporates a manual release for emergency use of hand chain.

#### Manual Operation

Push up/pull down or Hand chain (maximum recommended dimensions 3000mm wide x 3000mm high).

#### Accessories

Wicket gate - standard size 800mm x 1850mm, complete with lock, handles and safety locking system.  
Glazing panels 650w x 345h double glazed 3mm clear acrylic  
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 or 80mm high insulation 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, RAL 6005, 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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