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## NBS L20/610

## ROLLER SHUTTERS

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## APPENDIX 05

## FORTRESS DBi101 INSULATED INDUSTRIAL

|                          |   |
|--------------------------|---|
| <b>Product Reference</b> | Fortress DBi101 Industrial Roller Shutter.  |
| <b>Description</b>       | A double-skinned thermally insulated steel roller shutter designed for reducing building energy consumption and noise produced by wind loading and shutter action.  |
| <b>Application</b>       | Recommended for factories/ warehouses/ garages.   |
| <b>Size</b>              | Maximum recommended dimensions up to 6000mm x 6000mm.<br>Last revision January 2019. Larger sizes by specification.<br>Please consult Fortress SEFA for advice.   |
| <b>Performance</b>       | Acoustic performance: Weighted Level Difference $D_w$ value 22dB.<br>Thermal Performance: Insulation material U Value 0.7 w/m <sup>2</sup> K<br>CE-marked: Product Standard BS EN 13241-1 2003 + A1:2011.<br>BS EN 12604 Industrial, commercial and garage doors and gates. Mechanical aspects - Requirements.<br>BS EN 12453 Industrial, commercial and garage doors and gates.<br>Safety in use of power operated doors - Requirements.<br>BS EN 12424 Industrial, commercial and garage doors and gates.<br>Resistance to wind load: BSEN 12424:2000, Classification 5.<br>Manufacturer's Declaration of Conformity in accordance with the Construction Products Directive 2013.<br>Manufacturer's Declaration of Incorporation in accordance with the Machinery Directive 98/37/EC. |
| <b>Arrangement</b>       | Vertical roller shutter for face fixing.  |
| <b>Barrel</b>            | Mild steel tube finished with one coat rust inhibitive primer.  |
| <b>End Plates</b>        | 6mm-8mm (depending on curtain size/weight) mild steel plates finished with one coat rust inhibitive primer or BS EN 12206-1 DuPont® polyester powder coated (PPC) finish.   |
| <b>Curtain</b>           | Interlocking galvanised steel laths, 100mm in depth, with dual ribbed solid flat profiles restrained laterally by end locks riveted to both ends on each lath.<br>Curtain complete with 100% FCF-free expanded polystyrene insulated core.<br>Fortress Wind lock System™ and Retention Test Certification to lath.<br>BS EN 12453 Galvanised steel roll-formed base bar with Fortress Anti-Catch System™ designed to avoid any lifting hazard.<br>Base bar complete with interlocking rubber seal to prevent vermin access, water ingress and unwanted air movement.  |
| <b>Guides</b>            | BS EN 12424 Fortress DB100 G-channel™ 2.5mm steel roll-formed guides with concealed fixing and wind locking channel. A nylon and brush extrusion profile ensures no sharp edges are exposed. DB100 G-channel™ complete with steel plated steel caps and nylon edge protection with mohair anti-friction strip to reduce friction and noise produced by the shutter action.  |
| <b>Finish</b>            | Standard finish is a galvanised steel curtain and guides with non-galvanised components lacquered.  |
| <b>Operation</b>         | BS EN 12453 Fortress DBi101 30% duty Chain 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.<br>BS EN 12604 Inertia safety brake system fitted to prevent door from dropping and closing in an unsafe manner.   |

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|         |           |          |         |            |        |
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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.

#### Accessories

Wicket gate - standard size 600mm x 1830mm, complete with lock, handles and safety locking system.  
High duty Direct Drive 3ph motors for semi automatic application  
Galvanised sheet steel coil casing or fascia hood.  
Motor hood (BS EN 13241-1: all moving parts to be covered by casing on all Shutters less than 2500mm high).  
Brush seal to head.  
High security ground lock.  
Battery backup - 240 Volt single-phase operation (maximum dimensions 4500mm x 4500mm).  
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

#### Curtain

Fortress Punched + double Glazed sections with anti scratch polycarbonate UV stabilising vision 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

BS 00A05; BS 08B29; BS 04E53; BS 12B27; BS 18B25; BS 18E53; RAL 1015; RAL 1021; RAL 3005; RAL 3020; RAL 5003; RAL 5005; RAL 5010; RAL 5013; RAL 5015; RAL 6005; RAL 6029; RAL 7016; RAL 7021; RAL 7031; RAL 7035; RAL 7037; RAL 8016; RAL 9001; RAL 9005 (BLACK); RAL 9006 (SILVER); RAL 9007; RAL 9010 (WHITE); RAL 9910.

#### Services

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

#### Manufacturer

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