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**NBS L20/610**

**ROLLER SHUTTERS**

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**APPENDIX 05i**

**FORTRESS DBi101 ACOUSTIC INDUSTRIAL SHUTTER**

<b>Product Reference</b>	Fortress DBi101 Industrial Acoustic Roller Shutter Direct Drive Operator.
<b>Description</b>	A double-skinned thermally insulated steel roller shutter designed for reducing building energy consumption and noise.
<b>Application</b>	Recommended for factories/ Cinema/Theatre & Exhibition Halls.
<b>Size</b>	Maximum recommended dimensions up to 6000mm x 6000mm. Last revision January 2019. Larger sizes by specification. Please consult Fortress SEFA for advice.
<b>Performance</b>	Acoustic performance: Weighted Level Difference $D_w$ value 53dB. Thermal Performance: Insulation material U Value 0.7 w/m <sup>2</sup> K 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 5. 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>	Dual vertical roller shutters for face fixing.
<b>Barrel</b>	Mild steel tube finished with one coat rust inhibitive primer.
<b>End Plates</b>	8mm mild steel plates encased in a side frames and 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 one side and perforated internally, restrained laterally by end locks riveted to both ends on each lath. Curtain complete with rockwool and sound deadening infill insulated core. Fortress Wind lock System™ and Retention Test Certification to lath. BS EN 12453 Galvanised steel roll-formed base bar with Fortress Anti-Catch System™ designed to avoid any lifting hazard. Base bars complete with interlocking acoustic 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 acoustic seal brush extrusion profile ensures no sharp edges are exposed. DB100 G-channel™ complete with steel plated steel caps and nylon edge protection with mohair acoustic anti-friction strip to reduce friction and noise produced by the shutter action. Guides and plates are encased in a steel acoustic enclosure.
<b>Finish</b>	Standard finish is a galvanised steel curtain, guides and enclosure with non-galvanised components lacquered.
<b>Operation</b>	BS EN 12453 Fortress DBi101 60% rated dual Direct Drive System™ 415 Volt 3-phase operators with push button controls so that each shutter can be operated independently. Both shutters are supplied with hand chain operation for use in the event of emergency open/closure.

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### APPENDIX 05i

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#### Operating Controls

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

#### Optional Accessories

High security ground lock.  
Battery backup - 240 Volt single-phase operation (maximum dimensions 4500mm x 4500mm).  
Group command for single button operation of 2 shutters  
Micro switch interlock controller

#### Support Structure

Main roller shutter with heavy duty dual plates is fixed to the main building steel work. 100SHS secondary support posts are supplied for the guide fixing of the secondary shutter. These are connected to the floor and dual plates creating a secondary support frame. All the framing and guides are encased in an acoustic baffle type guide and canopy enclosure.

#### Finishes

Door curtain, guides and acoustic enclosure 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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