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NBS L20/610

ROLLER SHUTTERS

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APPENDIX 05k

FORTRESS DBi101 INSULATED ACOUSTIC SHUTTER

Product Reference	Fortress DBi101 Insulated Acoustic Roller Shutter.
Description	A double-skinned thermally insulated steel roller shutter designed for reducing building energy consumption and noise produced by wind loading and shutter action.
Application	Recommended for factories/ warehouses/ garages.
Size	Maximum recommended dimensions up to 6000mm x 6000mm. Last revision February 2018. Larger sizes by specification. Please consult Fortress SEFA for advice.
Performance	Acoustic performance: Weighted Level Difference D_w value 30dB. Thermal Performance: Insulation material U Value 0.7 W/m ² 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.
Arrangement	Vertical roller shutter for face fixing.
Barrel	Mild steel tube finished with one coat rust inhibitive primer encased into a galvanised sheet steel coil casing with acoustic seals.
End Plates	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.
Curtain	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. Curtain complete with vermiculite high density acoustic 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 bar complete with interlocking rubber seal to prevent vermin access, water ingress and unwanted air movement.
Guides	BS EN 12424 Fortress DB100 G-channel™ 2.5mm steel roll-formed guides with concealed fixing and wind locking channel. An acoustic brush extrusion profile ensures no sharp edges are exposed. DB100 G-channel™ complete with steel plated steel caps and intumescent edge protection to reduce friction and noise produced by the shutter action.
Finish	Standard finish is a galvanised steel curtain and guides with non-galvanised components lacquered.
Operation	BS EN 12453 Fortress DBi101 60% rated Direct 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.

Accessories

Brush seal to head.
High security ground lock.
Battery backup - 240 Volt single-phase operation (maximum dimensions 4500mm x 4500mm).
Micro switch

Electrical

Photocell (light beam sensor will detect the presence of a person or object that interrupts the light beam providing a non-contact safety system).

Curtain

Solid only

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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