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NBS L20/610

ROLLER SHUTTERS

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APPENDIX 13

FORTRESS DBS501 FABRIC SMOKE CURTAIN

Product Reference	Fortress DBS501 Fabric Smoke Curtain.
Description	Fabric fire barrier designed to protect escape routes from the effects of fire, thus enabling building occupants to reach fire exits.
Application	Fortress DBS501 is ideally suited to larger office, commercial and retail premises. Typical applications include exhibition halls, shopping centres, department stores, schools, hotels and community buildings.
Size	Tailored specification to requirement. Last revision August 2008. Larger sizes by specification. Please consult Fortress SEFA for advice.
Performance	CE-marked: Product Standard BS EN 13241-1 2003 + A1:2011. BS EN 12604 Industrial, commercial and garage doors and gates. Mechanical aspects - Requirements. Fire performance: 2 hours fire resistance BS476: Parts 20 & 22 (1987) and parts 6 & 7 class 'O'. 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.
End Plates	2mm-3mm (depending on curtain size/weight) mild steel plates finished with one coat rust inhibitive primer.
Curtain	BS 476 Fortress 240+ Fire Shield Fabric™ specially designed reinforced woven glass-fibre material coated on both sides with a reflective micronized aluminium polymer with an integrity rating of 120 minutes. Galvanised steel bottom rail fabricated from 1.2mm galvanised steel.
Guides	N/A
Head Box	1.2mm galvanised steel 175mm x 175mm box assembly houses the curtain operator, barrel and curtain assembly BS EN 12453 Galvanised steel roll-formed base bar with Fortress Anti-Catch System™ designed to avoid any lifting hazard.
Finish	Standard finish is galvanised steel guides, coil casing and bottom rail, with non-galvanised components finished with one coat rust inhibitive primer.
Operation	BS EN 12453 Fortress FC IBM™ single-phase operator with normal day to day operation by low voltage key switch (24 Volt) linked to the building fire alarm system. On receiving a signal from the fire alarm, the control panel will either close the curtain under power close or controlled decent gravity drop. Control panel must be connected to a 13amp/non switched fused spur located within 1 m of the motor position.

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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 crank release for emergency use.

Accessories

DBF1: Volt free electrical signal will trigger the door to drive closed under power.
DBF2: Volt free electrical signal will trigger the door to: close under power control/ part close/ close under smoke detection signal/ close when signalled by fire alarm/ close on timer/ show a visual display 'Shutter Closing'/ sound an audio warning/ trigger a controlled descent unit activated by a battery backup power system.
DBF3: Thermal fusible link.
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.
Battery backup - 240 Volt single-phase operation

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).
Audio Visual Fire Alarm Interface Panel

Curtain

N/A

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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