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## NBS L20/610

## ROLLER SHUTTERS

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## APPENDIX 12

## FORTRESS DBiF501 FABRIC INSULATED FIRE CURTAIN

<b>Product Reference</b>	Fortress DBiF501 Fabric Fire Curtain.
<b>Description</b>	Fabric fire barrier designed to protect escape routes from the effects of fire, thus enabling building occupants to reach fire exits.
<b>Application</b>	Fortress DBiF501 is ideally suited to larger office, commercial and retail premises. Typical applications include exhibition halls, shopping centres, department stores, schools, hotels and community buildings.
<b>Size</b>	Tailored specification to requirement. Last revision July 2017. Larger sizes by specification. Please consult Fortress SEFA for advice.
<b>Performance</b>	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: 60min fire integrity & 60min irradiance resistance BS1634-1 & 2 Smoke performance BS EN 1634-3 <3m <sup>3</sup> /h/m at 25Pa. 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. 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 roller shutter for face fixing.
<b>Barrel</b>	Mild steel tube finished with one coat rust inhibitive primer.
<b>End Plates</b>	2mm-3mm (depending on curtain size/weight) mild steel plates finished with one coat rust inhibitive primer.
<b>Curtain</b>	BS 1634-1 Fortress 240+ Fire Shield Fabric™ 640g/m <sup>2</sup> specially designed reinforced woven glass-fibre material coated on both sides with a reflective micronized aluminium polymer with an integrity & irradiance rating of 60 minutes. Galvanised steel bottom rail fabricated from 1.2mm galvanised steel.
<b>Guides</b>	Fortress GCR-10 system™ 2mm/3mm galvanised steel guides with a fabric retaining track system that prevents the curtain from dislodging from the guide under heat exhaust and ventilation pressure.
<b>Head Box</b>	1.2mm galvanised steel 175mm x 175mm box assembly (variable), 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.
<b>Finish</b>	Standard finish is galvanised steel guides, coil casing and bottom rail, with non-galvanised components finished with one coat rust inhibitive primer.
<b>Operation</b>	BS EN 12453 Fortress FC IBM™ single-phase operator supply 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.  
Galvanised sheet steel fascia.  
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 guides and canopy 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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