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## NBS L20/610

## ROLLER SHUTTERS

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### APPENDIX 07a

### FORTRESS FC75 TUBE & LINK COMMERCIAL

<b>Product Reference</b>	Fortress Tube & Link Grille.
<b>Description</b>	An open grille fabricated from aluminium tubes & links designed to protect the building from the unwanted attentions of both the opportunist and the planned attack thief whilst allowing the maximum amount of visibility/ventilation.
<b>Application</b>	Fortress Tube & Link Grille is ideally suited to larger office, commercial and retail premises. Typical applications include exhibition halls, shopping centres, car parks, department stores, shop fronts, schools, hotels and community buildings.
<b>Size</b>	Under standard construction dimensions up to 6100mm x 3500mm. Last revision August 2008. 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. 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>	Vertical roller shutter for face <del>M</del> manual override as standard (winding handle)
<b>Barrel</b>	Mild steel tube finished with one coat rust inhibitive primer.
<b>End Plates</b>	4mm-6mm (depending on curtain size/weight) mild steel plates finished with one coat rust inhibitive primer.
<b>Curtain</b>	Constructed from M8 galvanised steel rods with aluminium mill finish tubes and links give a 225mm x 75mm brick bond or inline pattern providing 80% free airflow. Rods are restrained by end caps pressed onto each end rod. 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.
<b>Guides</b>	BS EN 12424 Fortress DB50/ Fortress DB80 G-channel™ 2mm/ 3mm Z-steel roll-formed guides with concealed fixing. Fortress DB50/ Fortress DB80 G-channel™ patented roll-formed guide design ensures that no sharp edges are exposed.
<b>Coil Casing</b>	BS EN 12453 galvanised sheet steel coil casing as standard.
<b>Finish</b>	Standard finish is galvanised steel curtain, 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 with normal day to day operation by low voltage key switch (24 Volt).

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#### OPTIONAL EXTRAS

##### Operating Controls

BS EN 12453 Fortress 2149/ 2035 controls complete with self-checking safety edge and photocell for applications where there are untrained door users.  
2020 Low voltage unit for 24 Volt control.  
2035 Auto remote/ Dead-man close.  
2134 Group command.  
2 button handset.  
4 button handset.  
BE Easy remote with up/down control.  
Rocker switch.  
Keyed switch system for alarm interface.

##### Accessories

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).

##### Curtain

Stainless steel tube & links

##### 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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