

Head Office:

06 Trench Road, Hyde Park Industrial Estate  
Newtownabbey, Belfast, BT36 4TY

T +44 (0)28 9034 2655  
F +44 (0)28 9034 2651

sales@fortress-sefa.com  
www.fortress-sefa.com

## NBS L20/610

## ALUMINIUM SHUTTERS

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### APPENDIX 20

### FORTRESS CSG44 ALUMINIUM COMMERCIAL SHUTTER

|                          |   |
|--------------------------|---|
| <b>Product Reference</b> | Fortress CSG44 Aluminium Commercial Roller Shutter.   |
| <b>Description</b>       | A single-skinned aluminium shutter designed to protect the building from the unwanted attentions of both the opportunist and the planned attack thief.  |
| <b>Application</b>       | Fortress CSG44 is ideally suited to domestic, commercial and retail premises. Typical applications include offices, shopping centres, department stores, shop fronts, schools, hotels and community buildings.  |
| <b>Size</b>              | Under standard construction dimensions up to 3000mm x 3000mm.<br>Last revision August 2008. Larger sizes by specification.<br>Please consult Fortress SEFA for advice.  |
| <b>Performance</b>       | CE-marked: Product Standard BS EN 13241-1 2003 + A1:2011.<br>BS EN 12604 Industrial, commercial and garage doors and gates. Mechanical aspects - Requirements.<br>BS EN 12453 Industrial, commercial and garage doors and gates.<br>Safety in use of power operated doors - Requirements.<br>BS EN 12424 Industrial, commercial and garage doors and gates.<br>Manufacturer's Declaration of Conformity in accordance with the Construction Products Directive 2013.<br>Manufacturer's Declaration of Incorporation in accordance with the Machinery Directive 98/37/EC.  |
| <b>Arrangement</b>       | Vertical roller shutter for face or reveal fixing.  |
| <b>Barrel</b>            | Galvanised steel tube finished.   |
| <b>End Plates</b>        | Aluminium die cast end plates 3mm available in 165mm, 180mm, 205mm & 250mm depending upon shutter height.   |
| <b>Curtain</b>           | Interlocking double walled extruded aluminium laths, 44mm high & 9mm thick, with a solid curved profile restrained laterally by end locks riveted to both ends on alternate laths. Perforated latch available allowing 18% free airflow<br>BS EN 12453 aluminium L formed base bar with Fortress Anti-Catch System™ designed to avoid any lifting hazard.   |
| <b>Guides</b>            | BS EN 12424 Fortress Box channel™ 3mm extruded aluminium guides 60mm wide x 24mm deep, with integrated box section for reinforcement and to facilitate fixing. Fortress high density 5mm pile brush seals for quiet and smooth operation.   |
| <b>Coil Casing</b>       | BS EN 12453 roll formed aluminium casing in 2 sections, top & bottom boxes. Bottom box is chamfered at 45 degrees and is designed to be removable to allow installation and future maintenance.   |
| <b>Finish</b>            | Standard finish is white RAL 9016 and brown RAL 8019.   |
| <b>Operation</b>         | <p><b>Type a)</b> BS EN 12453 Fortress FC IBM™ single-phase operator with normal day to day operation by low voltage rocker switch (24 Volt). Comes as standard with a manual hand crank in the event of power failure.</p> <p><b>Type b)</b> Manual rod crank operation – incorporates a geared rod crank handle 1500mm long which hangs vertically and secures into a clip when not in use. The gear is located in the shutter box and the gear ratio varies dependent upon curtain weight (max 25kgs).</p> <p><b>Type c)</b> Spring Loaded operation – A counter balance spring in the axle ensures controlled raising &amp; lowering. An espagnolette key lock incorporated in the bottom slat locks the shutter.</p> |

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**Security Features**

Standard electrically operated shutters lock automatically at the top when in the fully closed position. For manually operated shutters there are guide locks or espagnolette base bar locks.

**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.  
UPS 240v battery back up unit  
2134 Group command.  
2 button handset.  
4 button handset.  
BE Easy remote with up/down control.  
Key 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**

Perforated curtain/ perforated lath sections within curtain providing 18% free airflow.

**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**

Fortress Pro-Tec Ltd. 120 Old Coach Road, Templepatrick, Ballyclare, County Antrim, BT39 0HA.  
Tel: +44 (0)28 9443 3693. Fax: +44 (0)28 9034 2651.  
Email: info@fortress-sefa.com Web: www.fortress-sefa.com