

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

## ROLLER SHUTTERS

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### APPENDIX 11

### FORTRESS CLEARVIEW TRANSPARENT COMMERCIAL

<b>Product Reference</b>	Fortress Clearview Commercial Roller Shutter.
<b>Description</b>	A transparent polycarbonate roller shutter designed to protect the building without visually obstructing the windows.
<b>Application</b>	Ideal solution for retail, shopping centres, department stores and commercial applications.
<b>Size</b>	Maximum recommended dimensions 6000mm x 3500mm (revised April 2007).
<b>Performance</b>	<p>Transparent glazed area allowing Vision: 70%</p> <p>CE-marked: Product Standard BS EN 13241-1 2003 + A1:2011.</p> <p>BS EN 12604 Industrial, commercial and garage doors and gates. Mechanical aspects - Requirements.</p> <p>BS EN 12453 Industrial, commercial and garage doors and gates.</p> <p>Safety in use of power operated doors - Requirements.</p> <p>BS EN 12424 Industrial, commercial and garage doors and gates.</p> <p>Manufacturer's Declaration of Conformity in accordance with the Construction Products Directive 2013.</p> <p>Manufacturer's Declaration of Incorporation in accordance with the Machinery Directive 98/37/EC.</p>
<b>Arrangement</b>	Vertical roller shutter surface mounted/recessed.
<b>Barrel</b>	127mm or 159mm 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>	<p>2mm thick UV stabilised polycarbonate sections, 100mm in depth, linked together with specially extruded 30mm aluminium profiles. Curtain is restrained laterally by nylon end locks riveted to both ends on aluminium profiles.</p> <p>BS EN 12453 Galvanised steel sheet folded base bar with Fortress Anti-Catch System™ designed to avoid any lifting hazard.</p> <p>Base bar complete with interlocking rubber seal to prevent vermin access, water ingress and unwanted air movement.</p>
<b>Guides</b>	Fortress DB50/ DB80 G-channel™ 2mm/ 3mm Z-steel roll-formed guides with concealed fixing. Complete with anti-chatter brush strips to reduce noise produced by shutter action. Fortress DB50/ DB80 G-channel™ patented roll formed guide design ensures that no sharp edges are exposed.
<b>Operation</b>	BS EN 12453 Fortress FC IBM™ 240 Volt single-phase operator with low voltage key switch (24 Volt), supplied with manual override for use in the event of emergency open/closure.

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## APPENDIX 14

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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.  
Fortress Security Solenoid Latch Lock System™ for additional security.  
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

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

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