

Sunray SaverDoor® FR Range (Fire Rated)

Technical Specification

Product Range Summary:

A comprehensive range of premium quality, general purpose, fire rated, steel hinged pedestrian doorsets.

- Configurations: Single doorset, equal leaf double doorset and un-equal leaf double doorset options.
- Orientations: Single swing open out or open in.
- Door leaves 44mm thick. Manufactured from 1.5mm thick zinc coated mild steel. (Zintec).
- Door frames manufactured from 1.5mm thick zinc coated mild steel. (Zintec). Single rebate profile as standard. Other profiles available on request.
- Certifire range up to 1 hour fire integrity duration. Tested to BS EN 1634-1.
- CE/UKCA marked range up to 4 hours fire integrity duration. Tested to BS EN 1634-1.
- External doors CE/UKCA marked in accordance with harmonised standards BS EN 14351-1 and BS EN 16034.
- Available with weather/smoke resistant seals and threshold options.
- Fire rated vision panel and louvre vent options.

Door Leaf Construction:

- 44mm thick. Manufactured from 1.5mm thick zinc coated mild steel (Zintec) for enhanced corrosion resistance.
- Fully enclosed pop-riveted and welded twin tray construction. Internally reinforced to suit specified hardware.
- Minimum of 4 off stainless steel ball bearing butt hinges per leaf.
- Separate hinge bolts incorporated, where applicable, for increased security resistance.
- Door leaves infilled with light weight proprietary core materials to provide a fire and impact resistant, flat, warp and distortion free panel.
- Leading edge of single door leaf provided with external zinc coated steel anti-pry strip which overlaps frame and protects lock bolt. Double doorset incorporates both external and internal anti-pry strips at meeting stiles for additional security.
- All hardware preparations pre-threaded for fasteners and suitably reinforced as appropriate.

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Frame Construction:

- Standard frame profile: Single rebate 100mm x 57mm overall. Other profiles and sizes available on request.
- Manufactured from 1.5mm thick zinc coated mild steel (Zintec) for enhanced corrosion resistance.
- Knock-down butt jointed and bolted frame assembly method for ease of assembly on site. Welded frame option also available.
- Factory prepared hinge and strike plate mounting plates.
- Weather/smoke seal: Silicone self-adhesive tear drop gasket. Colour: black. Fire and smoke tested in accordance with BS EN 1634-1 & 3.

Threshold Options:

- Standard threshold: Satin anodised aluminium low profile c/w integral seal. Approved Document M compliant. Clear threshold option and alternative aluminium/steel profile designs available on request.

Vision Panels:

- Standard range of square, rectangular and round fire rated vision panels with bevelled beading and tight mitred corner joints. Available up to 1 hour duration.
- Clear vision sizes (W x H): 406mm x 406mm, 406mm x 711mm, 152mm x 457mm, 152mm x 711mm, 406mm diameter.
- Fire rated glass specification: 9mm thick Firelite safety glass.
- Method of fixing in accordance with manufacturer's instructions using fire resistant gasket.

Louvre Vents:

- Standard range of square and rectangular fire rated louvre vents with bevelled beading and tight mitred corner joints. Available up to 1 hour duration.
- Clear vent sizes (W x H): 305mm x 305mm, 457mm x 305mm, 457mm x 457mm, 305mm x 1524mm, 457mm x 1524mm.
- Vermin mesh available on request.
- Free area excluding vermin mesh: 40%.
- Method of fixing in accordance with manufacturer's instructions.

Fixing Method:

- 2nd fix between structural reveals with steel shims and expansion type anchors. Gap sealed with manufacturer approved fire retardant mastic sealant.
- Frame fixing holes infilled with snap-fit low profile hole plugs. Colour: black.

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Fire Rating:

- Certifire scheme latched and unlatched product available with fire integrity ratings up to 1 hour duration. Tested to BS EN 1634-1. Certifire certificate No. CF 5673.
- External doors CE/UKCA marked in accordance with harmonised standards BS EN 14351-1 and BS EN 16034. Fire integrity ratings up to 4 hours duration when tested in accordance with BS EN 1634-1.

Thermal Rating:

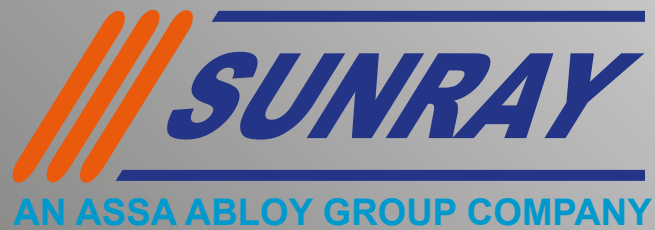
- Thermal transmittance certified in accordance with BS EN ISO 10077-1 by Element Materials Technology.
- U-value for plain single doorsets: 3.0 W/m².K
- U-value for plain double doorsets: 3.0 W/m².K

Hardware:

- Heavy duty stainless steel thrust bearing butt hinges. Certified in accordance with BS EN 1935.
- Dorma 300 CE Series mortice locks conforming to BS EN 12209 and BS EN 179.
- Union HD72 Series mortice locks conforming to BS EN 12209 and BS EN 179.
- Union Exidor 200 Series panic and emergency escape devices tested to BS EN 1125 and BS EN 179.
- Briton 376 Series panic and emergency escape devices tested to BS EN 1125 and BS EN 179.
- Dorma TS72, TS73 and TS83 overhead door closers with backcheck facility conforming to BS EN 1154.
- Dorma Pure 4 Series lever handle furniture approved to BS EN 1906.
- Union lever handle furniture approved to BS EN 1906.
- Zero Z304 door selectors tested to BS EN 1158.
- MICO LSTB barrel bolts.
- Other Certifire approved hardware available on request.
- Factory fitted as standard.

Finishes:

- Top coat: Architectural grade polyester powder coat. 30% gloss level. 60-80 microns thickness.
- Optional primer for enhanced corrosion resistance: Marine grade corrosion resistant zinc rich primer. 60-80 microns thickness.
- Standard stock colour range of 58 colours, 30% gloss level. Other colours and finishes available on request at additional cost and with longer lead times.



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