

# Sunray ExcluDoor® 1 FR Range (Fire Rated)

## Technical Specification

### Product Range Summary:

**A comprehensive range of premium quality, security and fire rated, steel hinged pedestrian doorsets.**

- Configurations: Single doorset, equal leaf double doorset and un-equal leaf double doorset options.
- Orientation: Single swing open out.
- 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.
- Loss Prevention Standard LPS 1175 Issue 8 Security Rating A1 (SR1).
- 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.
- Security rated vision panel, door viewer 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 with proprietary armoured materials to suit specified intruder resistance requirement.
- Minimum of 4 off stainless steel ball bearing butt hinges per leaf.
- Separate hinge bolts incorporated as standard for additional attack resistance.
- Door leaves infilled with light weight proprietary core materials to provide an attack/fire 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.

## 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.

## Security Rating:

- Tested and certified to Loss Prevention Standard LPS 1175 Issue 8 Security Rating A1 (SR1). Certificate No. 234q.

## Fire Rating:

- Certifire scheme 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/m<sup>2</sup>.K
- U-value for plain double doorsets: 3.1 W/m<sup>2</sup>.K

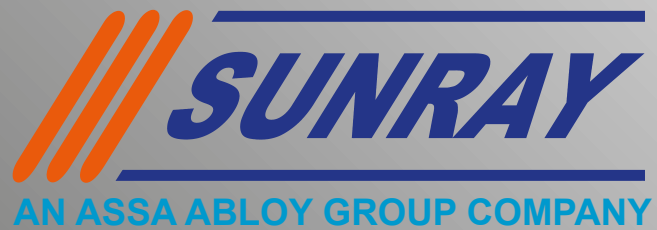
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## Hardware:

- Heavy duty stainless steel ball bearing butt hinges. Certified to Class 13 in accordance with BS EN 1935.
- ASSA Modular range single point mortice locks conforming to BS EN 12209 and DIN 18251.
- Surelock McGill Stirling range single point surface mounted locks, including access controlled versions, conforming to BS EN 1125 and BS EN 179.
- Surelock McGill Slimline range multi-point surface mounted locks, including access controlled versions, conforming to BS EN 1125 and BS EN 179.
- MICO MSR range multi-point surface mounted panic and emergency escape devices c/w optional external key access, conforming to BS EN 1125 and BS EN 179.
- ABLOY EL range single point mortice locks, including access controlled versions, conforming to BS EN 1125, BS EN 179 and BS EN 12209.
- Sunray and MICO LSTB surface mounted barrel bolts.
- Dorma TS 83 overhead door closers with backcheck facility. Conforming to BS EN 1154.
- Zero Z304 door selectors tested to BS EN 1158.
- Hardware 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.



**Sunray Doors**  
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