



TECHNICAL SPECIFICATION

ExcluLouvre SR2 FR Door-set.

DOCUMENT
SUN-FRLD-TS-001

VERSION
1.0

DATE
14 September 2026

STATUS
Public

ExcluLouvre SR2 FR Door-set

01 Product range summary

- A comprehensive range of premium quality, security rated, steel hinged industrial doorsets. Tested to BS EN 1634-1 and classified in accordance with EN 13501-2, fire rated up to 90 minutes, specification dependent.
- Aesthetically pleasing due to rear concealed fixings, and complementary to other Sunray louvre products.
- To suit structural openings of varying sizes depending on the configuration and rating. Single leaf doorsets range from 430mm wide by 1000mm high up to 1500mm wide by 2400mm high. Double leaf doorsets range from 730mm wide by 1000mm high up to 2400mm wide by 2400mm high.
- Configurations include single, double, and leaf and a half.
- Opening direction: outward.
- Each leaf is constructed with a minimum of three factory assembled lift off hinges, designed for on-site fitting convenience.
- Certified to Loss Prevention Standard LPS 1175 Issue 8, Security Classification SR2 (B3).
- Anti-vermin mesh to the rear of the fire block panels fitted to the louvre door.
- Excellent airflow characteristics.

02 Door leaf construction

- 50mm thick leaf. Manufactured from 50 x 65 x 5mm mild steel angle.
- Incorporation of proprietary reinforcement materials to suit the specified intruder resistance classification.
- Louvre blades manufactured from natural 2.5mm thick mild steel prime HRPO coil and set at a 49 degree angle.
- Each leaf is constructed with a minimum of three factory assembled lift off hinges, designed for on-site fitting convenience.
- Depending on the intruder resistance classification, each leaf has the benefit of two specialised surface mounted hooked dog bolts for increased protection against leveraged attacks.
- Anti-vermin mesh to the rear of the fire block panels.
- Fire block panels to the rear of the door-set.

03 Frame construction

- Framework can be fully welded or demountable and is constructed with mild steel hollow box sections (100 x 50 x 3mm) and a 100 x 10mm plate threshold. Other box sections, plates and orientations available on request.
- Door stops fitted to the inside of the framework, constructed from mild steel hollow box section (for example 40 x 20 x 2mm).

04 Accessories

- Option of packers to partition between Sunray products and structural openings. Whatever the requirements, packers can be formed from mild steel hollow box sections or plates.
- Customisation trims to fit between Sunray products and the structural opening, designed to cover unsightly structural features and finishes.
- Optional weather canopy fitted above the frame head member for those environments highly prone to precipitation, and coastal environments.

05 Fixing method

- Either concealed through-frame or variable anchorage cleats, with the option of being welded or demountable, to accommodate demanding and diverse structural opening layouts.
- Compatible fixing substrates include blockwork, concrete and structural brickwork.
- Associated fastener types include expansion anchors for masonry and concrete.
- Perimeter gap sealed with manufacturer approved fire sealant.

06 Security rating

- Tested and certified to Loss Prevention Standard LPS 1175 Issue 8.
- Security Rating 2, certificate number 234t Part 2.
- Security Rating 2 Mk3, certificate number 234u Part 2.
- Secured by Design accredited.

07 Fire rating

- Third party certified fire certification scheme, rated up to E90, giving 90 minutes fire integrity duration.
- Tested to BS EN 1634-1 and classified in accordance with EN 13501-2.

08 Hardware

- Bright mild steel heavy duty lift off hinges.
- Surelock McGill Slimline range multi-point surface mounted locks, including access controlled versions, conforming to BS EN 1125 and BS EN 179.
- Depending on the mode of egress, a unique anti-fishing device can be tailored for the locking system.
- Sunray surface mounted barrel bolts.
- Dorma TS 93 overhead door closers, conforming to BS EN 1154.
- Hardware factory fitted as standard.

09 Finishes

- All steelwork shot blasted prior to paint system application.
- Primer coat for enhanced corrosion resistance: marine grade corrosion resistant zinc rich primer, 60 to 80 microns thickness.
- Top coat: architectural grade polyester powder coat, 30% gloss level, 60 to 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.

10 Document control

VERSION	DATE	CHANGE	PREPARED BY
1.0	14 September 2026	First issue.	Sunray Engineering

Certification documents, datasheets and fitting instructions are available on request. Manufactured in Ashford, Kent.

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