

Pacific Doors

Data Sheet

www.pacificdoors.co.nz

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**Pacific SPS1-FR Security Fire Door**

**Description**

The Pacific SPS1-FR door set offers fire protection up to 60 minutes and is a detention or commercial security door fully encapsulated in steel, resistant to physical attack using hand tools, levers and heavy impacts from either face. The SPS1 includes features designed to increase impact resistance and durability in high-use situations. The SPS1 is suitable for interior and sheltered exterior use.

**Product features**

60min fire rating

Single or pair

Steel leaf face

2 frame options

3 glass options

Compatible with timber stud, masonry wall

Meets NZS4520.2010 standard

**Most common applications include:**

Prison Fire Door

Police Station Cell Door

Commercial Security Fire door

Stairwell door in multi-level buildings

**For further information on this product, visit:**

<https://www.pacificdoors.co.nz/products/fire/fire-doors/frr-60-minute/sps1-fr>

**PRODUCT OPTIONS**

**Leaf Size and Wall Type**

**Leaf Size**

The Pacific SPS1-FR door set is a detention or commercial security fire door, resistant to physical attack using hand tools, levers and heavy impacts from either face. The door leaf is a solid core panel, fully encapsulated in steel sheet with seam-welded edges, hung in a steel frame.

The door set is suitable for both interior and sheltered exterior use.

The thickness of the SPS1-FR door leaf is 50mm with an approximate leaf weight of 59kg/m2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Wall Type** | **Fire Resistance Rating (FRR)** | **Door Application** | **Max LeafHeight (mm)** | **Max Leaf****Width (mm)** |
| Timber StudMasonry | -/60/60 (sm) | Single | 2350 | 1150 |
| Pair | 2150 | 1000 |

*Notes:*

1. Please note that the maximum leaf width shown above is measured per door leaf.
2. The ‘sm’ above denotes that the door is available as a smoke control door set.
3. Minimum width for a fire door leaf is governed by the need to fit a compliant closer. Typically, 400 mm is the practical minimum.

**Wall Types**

The SPS1 fire rated door set can be installed into concrete and masonry walls, timber stud walls, or walls including RHS steel posts.

The tested timber stud wall is a Gib® GBT 60a wall and optionally may include a 2mm steel sheet lining for additional security.

For details of RHS post walls contact Pacific Door Systems Ltd.

**Door Leaf Options**

**Leaf Facings**

The SPS1-FR is fully encapsulated in steel sheet.

**Leaf Edges**

The SPS1-FR has seam welded edges as shown below.



**Meeting Stile**

The meeting stiles listed below are applicable to paired door sets only.



The fire rated pair door set requires particular latching arrangements for compliance. The square meeting stile requires steel flushbolts to the top and bottom of the inactive leaf as well as a steel mortice latch at the centre.

A rebated meeting stile is available upon request. Please contact Pacific Doors to discuss your requirements.

**Frame Types & Profiles**

**Timber Frame**

This door set is only available in a steel frame.

**Steel Frame**

The steel frame profiles listed below are available for the SPS1 door set



Standard frames are three-sided only with no sill. Four-sided frames and/or custom sills may be available on request. Timber sills are not available on fire doorsets. For more in depth information on frame profiles and sizes, please see our Installation Instructions.

**Vision Panel**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Glazing Type** | **Maximum Glazed Area(m2)** | **Max Height (mm)** | **Max Width (mm)** | **Glazing Bead** | **FRR with Vision Panel** |
| **Per VP** | **Total** | **Steel Bead** | **Up to 0.065m2** | **Over 0.065m2** |
| Firelam (2) | 0.091m2 | 0.182m2 | 700 | 700 | a | -/60/60 | -/60/- |
| Pyran S (2) | 0.85m2 | 1.7m2 | 1000 | 850 | **a** | -/60/60 | -/60/- |
| NOVOLAY Secure BR4 NS / 1.5.4 (3) | 0.42m2 | 0.84m2 | 700 | 600 | **a** | -/60/60 | -/60/- |

*Notes:*

1. Please note that the height and width of the vision panel must still fall within the maximum glazed area.
2. This glazing is fire glazing, not security glazing. For apertures more than 200 mm wide we recommend steel bars for security
3. Mass of door leaf not to exceed 36 kg / hinge



**Standard Vision Panel Cross Sections**

Steel Bead



**Performance**

**Security Testing**

The SPS1 door set was subjected to 50 impacts from a 200kg cement-filled bag at 4.8m/s, in the direction of opening of the door. The door was able to be opened at the end of the test and was substantially undamaged.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Rating** | **Standard** | **Description** |
| Fire Resistance | FRR -/60/60 (sm) | AS1530.4 |  |
| Bullet Resistance | G1 | AS/NZ 2343 | .357 Magnum |
| S0 | AS/NZ 2343 | Shotgun 12 gauge SG shot |

**Thermal Insulation**

This door leaf has a thermal insulation rating (R-value) of 0.615 Km2/W.

**Ballistic Testing**

The SPS1-FR door set has been successfully tested to AS 2343:1984 “Bullet-resistant panels for interior use” with ratings of:

* G1 .357 Magnum
* S0 Shotgun 12 gauge SG shot

**Hardware**

**Hinges**

Full mortise 4½” x 4½“ Institutional Hinges are standard (material is Stainless Steel 304).

**Locks and Accessories**

The SPS1-FR may be fitted with a range of security hardware, including locks with steel or brass components, any closers, pull handles and minor items of hardware provided they are non-combustible and fixed with steel fasteners. Note that fitting of deadlocks and other non-self-latching hardware will make the door set non-compliant in respect to the standard NZS 4520 Fire-resistant door sets.