

# Pacific Armashield-FR Security Fire Door

## DESCRIPTION

The Pacific Armashield-FR door set is an all-steel security door set, hung in a steel frame. The door set is designed for resistance to attack on the outside (hinge) face. Test results refer to a single leaf hinged door set.

For other door sets fully tested for burglar resistance, fire resistance, bullet resistance, and explosion resistance, refer to the Pacific Protector Series.

## Product Features

- 120min fire rating
- Single leaf
- 2 frame options
- 3 glass options
- Compatible with masonry wall
- Bullet and Burglar Resistant
- Meets NZS4520.2010 standard

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

<https://www.pacificdoors.co.nz/products/fire/fire-doors/frr-120-minute/armashield-fr>

## PRODUCT OPTIONS

### Leaf size and wall type

#### Leaf size

The thickness of the Armashield-FR door leaf is 48mm with an approximate leaf weight of 80kg/m<sup>2</sup>.

Wall Type	Fire Resistance Rating Stability/Integrity/Insulation	Door Application	Max Leaf Height (mm)	Max Leaf Width (mm)
Masonry Wall	-/120/60sm	Single	2168	1021
	-/90/-	Single	2700	1200

## Notes:

1. Sizes outside of this range are possible, but this will affect the fire rating of the door set.
2. 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

Installation of the fire-rated Armashield-FR requires a fully grouted steel frame in a masonry or precast concrete wall of the appropriate fire rating.

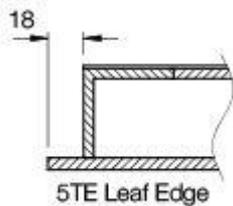
## Door Leaf Options

### Leaf facing

All steel leaf with attack face in 6mm steel. Non-attack (inside) face is a removable light-gauge steel panel.

### Leaf edges

The Armashield-FR has leaf edges edges as shown below.



### Meeting Stile

This door set is not available as a pair.

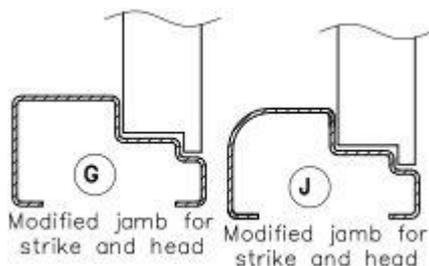
## Frame types & profiles

### Timber Frame

This door set is only available in a steel frame.

### Steel Frame

The steel frame profiles listed below are available for the Armashield-FR door set.



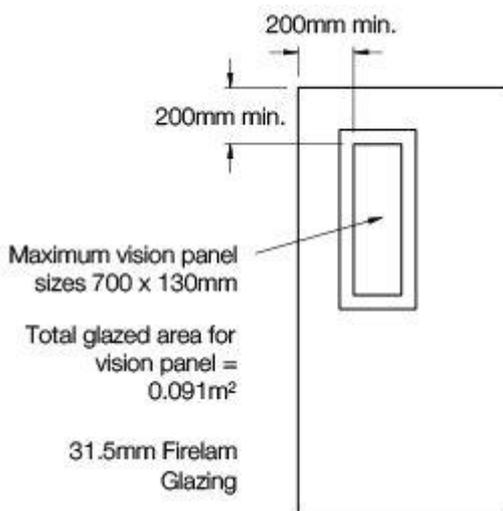
Standard frames are three-sided only with no sill. Four-sided frames and/or custom sills may be available on request. Timber sills are not available on fire doorsets. For more in-depth information on frame profiles and sizes, please see our Installation Instructions.

## Vision Panel

Glazing Type	Maximum Glazed Area (mm)		Max Height (mm)	Max Width (mm)	Glazing Bead		FRR with Vision Panel	
	Per VP	Total			Timber	Steeling Glaze Bead	Up to 0.065m <sup>2</sup>	Over 0.065m <sup>2</sup>
Firelam (2)	0.091m <sup>2</sup>	0.091m <sup>2</sup>	700	130		✓	-/120/-	-/120/-
Pyran S (2)	1.08m <sup>2</sup>	2.16m <sup>2</sup>	1200	900		✓	-/90/-	-/90/-
Novolay Secure BR4 NS / 1.5.4 (4)	0.42m <sup>2</sup>	0.84m <sup>2</sup>	700	600		✓	-/60/-	-/60/-

### Notes:

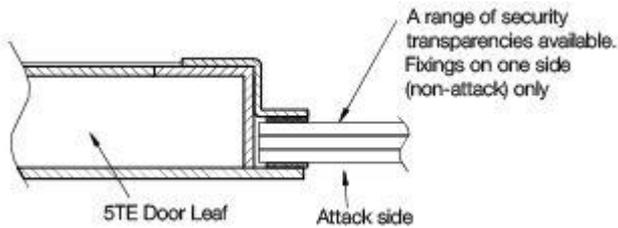
- Please note that the height and width of the vision panel must still fall within the maximum glazed area.
- This glazing is fire glazing, not security glazing. For apertures more than 200 mm wide, we recommend steel bars for security.
- Blast, Attack, and Ballistic ratings may be affected if the door has a vision panel.
- Mass of door leaf not to exceed 44 kg/hinge.



The standard glazing system provides a flush attack face and steel beading with fixings on the "non-attack" face. The system is adaptable to various thicknesses of security glazing according to requirements.

### Standard vision panel cross sections

Steel Bead only



## PERFORMANCE

A version of the Armashield-FR is available, tested to R2 rating.

## Security Testing

A hinged Armashield-FR door set with Surelock McGill D4 three-point locking was subjected to a Level 4 attack according to AS3555-1988 "Building Elements - Testing and Rating for Intruder Resistance".

Two men attacked the door set with common hand & power tools and succeeded in removing the door leaf from its frame (thus forming an opening in the door set) after 27 minutes and 30 seconds.

## Ballistic Testing

The standard Armashield-FR door set has been successfully tested to AS/NZS 2343:1997 "Bullet resistant panels and elements" with ratings of:

- G2 .44 Magnum
- S0 Shotgun 12 gauge 32g SG shot

A version of the Armashield-FR is available, tested to R2 rating.

Ballistic-rated door sets require either a fully grouted frame installation to masonry or concrete walls, or else ballistic protection built into the frame during manufacture. Matching Ballistic Wall Panels are described in a separate section.

## Thermal Insulation

This door leaf has a thermal insulation rating (R-value) of 0.029 Km<sup>2</sup>/W.

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

<https://www.pacificdoors.co.nz/products/fire/fire-doors/frr-120-minute/vp120>

