

Best Doors PR30 Hinged Door Set -/30/30sm

Best Doors PR30 is a side hung door set. The door set configuration may be single leaf or pair, finished with a variety of facings and hung in a steel or timber frame.

If required, bottom seals can be selected from the hardware list.

The thickness of the PR30 door leaf is 48mm with an approximate base weight of 27kg/m²

Wall Type	Jamb Type	Maximum Fire Resistance Rating Stability/Integraty/Insulation	Door Application	Max Leaf Height (mm)	Max Leaf Width (mm)
Steel Stud Wall Timber Stud Wall Masory Wall	Timber	-/30/30sm	Single	2700	1020
			Pair	2700	1020
Steel Stud Wall Timber Stud Wall Masory Wall	Steel	-/30/30sm	Single	3000	1500
			Pair	3000	1500
Korok/Speedpanel	Steel	-/30/30sm	Singe & Pair	2400	1200
				2700	1050
Korok	Timber	-/30/30sm	Single	2197	920
James Hardie*	Steel	-/30/30sm	Single	2400	1020

Notes:

Please note that the maximum leaf width shown above is measured per door leaf.

The 'sm' above denotes that the door is available as a smoke control door set.

Meeting styles for doors installed into Korok / Speedwall are restricted to J-Section or Bullnose.

Timber jambs have limited installation options in Korok / Speedwall.

Timber jambs are not possible in James Hardie walls.

Insulation ratings must be notified at time of pricing for steel frames.

Door sets with leaves larger than 2700 x 1200 are not intended for frequent use, we recommend they be typically either held open or closed with compliant hardware in normal operation.

Minimum width for a fire door leaf is governed by the need to fit a compliant closer. Typically, 400mm is the practical minimum.

Product Options

LEAF FACINGS

MDF	Fire Rated Formica *
Hardboard	High pressure laminate
Oil Tempered Hardboard	up to 1.5mm thick (e.g. Laminox, Formica)
Plywood	Decorative timber mouldings/panels
Timber Veneers *	Aluminium sheet (0.3 - 1mm) *
Acrylic - vinyl sheets up to 1.5mm thick (e.g.	Metal Sheet, mild or stainless (0.6 - 1.0mm) *
Acrovyn, Korogard)	Laminox Decoral *
Sheet Vinyl (1.25 - 2mm)	

Notes:

Of the above facings only those marked * may extend around the door edge.

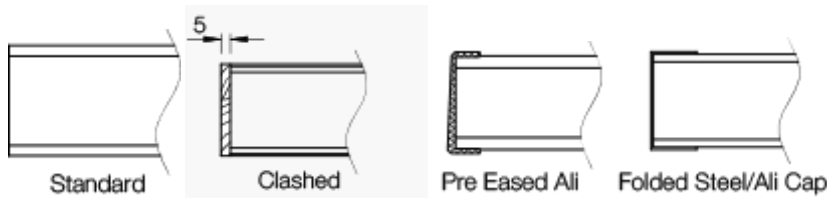
Steel frames are required where metal capping is used.

Standard Paint Quality doors are allowed 'non-clashed' to provide best surface for finish painting.

Other facings may be available, please contact Best Doors to discuss further options.

LEAF EDGES

The leaf edges listed below are available for the PR30 door set

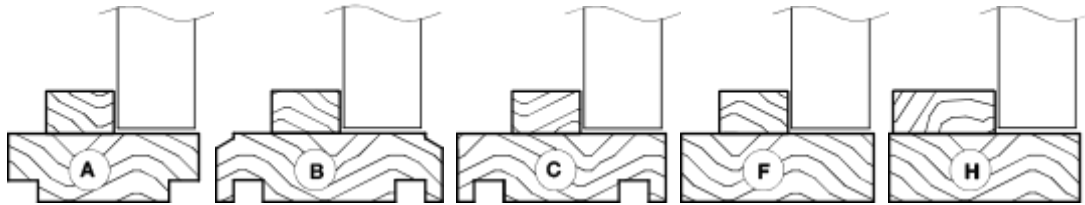


FRAME TYPES & PROFILES

Timber Frame

The timber frame profiles listed below are available for the PR30 door set.

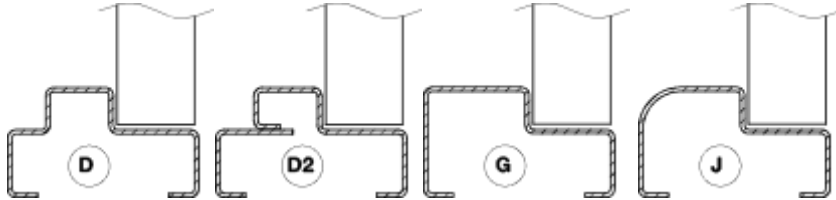
The timber species of the frame must be pine or denser (500 kg/m^3)



Steel Frame

The steel frame profiles listed below are available for the PR30 door set.

The PR30 door set is available in the two-part steel frame system for fixing to walls already lined.



Notes:

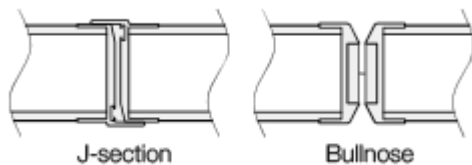
D2 not available for doors with sidelights or overlights, and is not compliant in Speedwall.

D2 require 110mm minimum wall thickness.

For more in depth information on frame profiles and sizes, please see our Installation Instructions.

MEETING STILES

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



WALL TYPES

As previously noted, Jambs may be connected to timber stud, steel stud or concrete/masonry walls. The minimum specification for each wall type is:

Precast Concrete of 100mm thickness minimum or grouted blockwork of 140mm thickness minimum.

Non-load bearing timber stud partitions of minimum lining thickness 10mm Fyrelite Gib Board in accordance with GBT60a/GBT60b (steel framed door set) according to Gib Fire Rated Systems 2001. Where steel framed door sets are used, wall framing must be 100 x 50mm minimum.

Non-load bearing steel stud partitions of minimum specification GBS60 (Gib Fire Rated Systems Catalogue)

Universal Wall systems GB UW 30a or GB UW 30b

Speedpanel & Korok walls (51mm, 64mm or 78mm)

James Hardie JHETGJ60 fire rated wall system.

Boral 25mm shaftliner wall (Note special installation details and size restrictions apply refer Best Doors for details)

Product Optional Extras

Glazing Type	Maximum Glazed Area		Max Height (mm)	Max Width (mm)	Glazing Bead		FRR with Vision Panel	
	Per VP	Total			Timber	Aluminum	Up to 0.065m ²	Over 0.065m ²
Pyrobel*	0.6m ²	0.96m ²	1630	950	✓	✓	-/30/30	-/30/30
Georgian Wired	0.32m ²	0.32m ²	850	950	✓	✓	-/30/30	-/30/-
Firelite	0.32m ²	0.32m ²	850	950	✓	✓	-/30/30	-/30/-
Robax	0.32m ²	0.32m ²	850	950	✓	✓	-/30/30	-/30/-
Pyran*	0.32m ²	0.32m ²	850	950	✓	✓	-/30/30	-/30/-

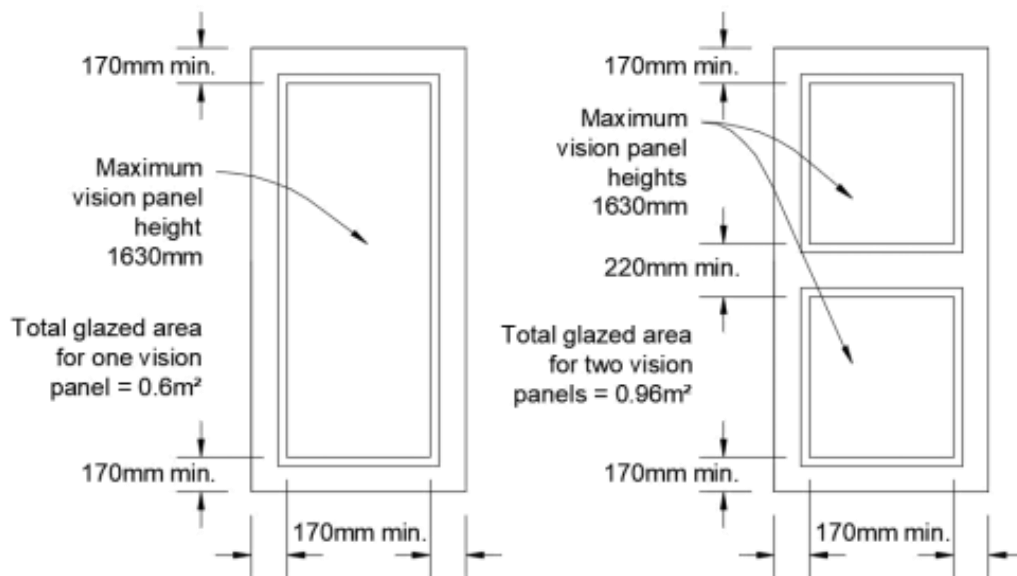
Notes:

Please note that the height and width of the vision panel must still fall within the maximum glazed area.

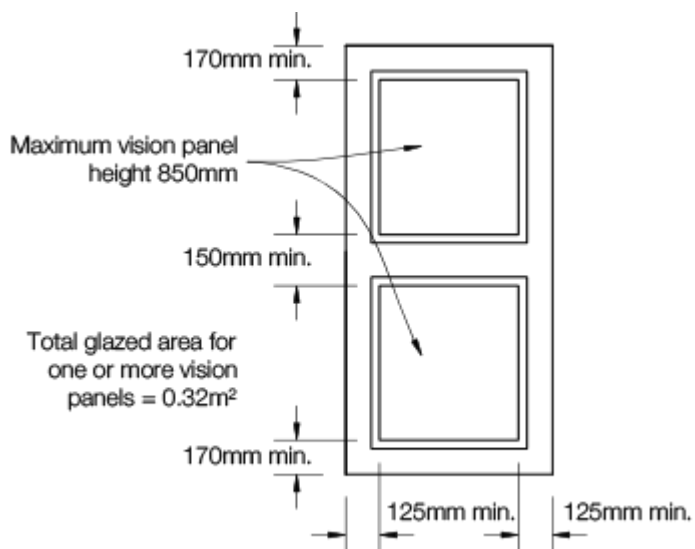
Glazing types marked with * indicate Grade A Safety glass.

Circular vision panels are not possible with Pyrobel glazing.

Glazing details for Pyrobel vision panels.

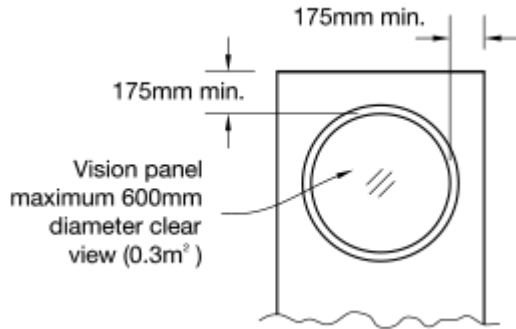


Glazing details for other glazing types

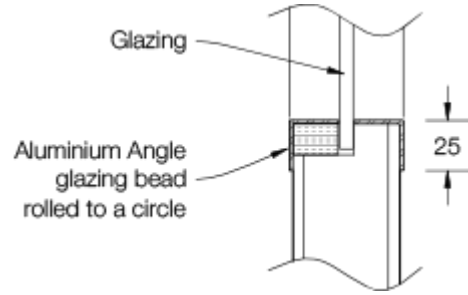


CIRCULAR VISION PANELS

Size allowance

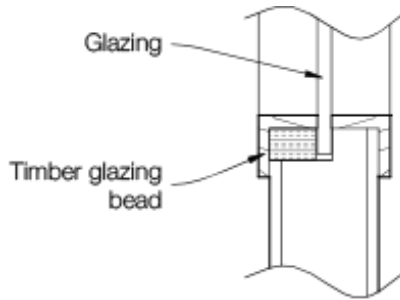


Standard Cross Section

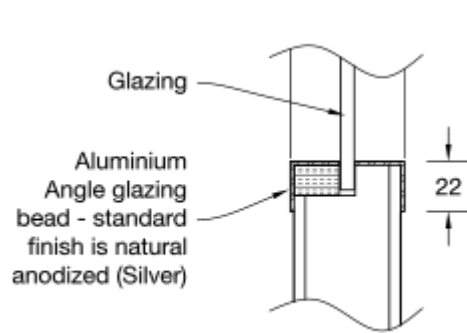


STANDARD VISION PANEL CROSS SECTIONS

Timber Bead



Aluminium Bead

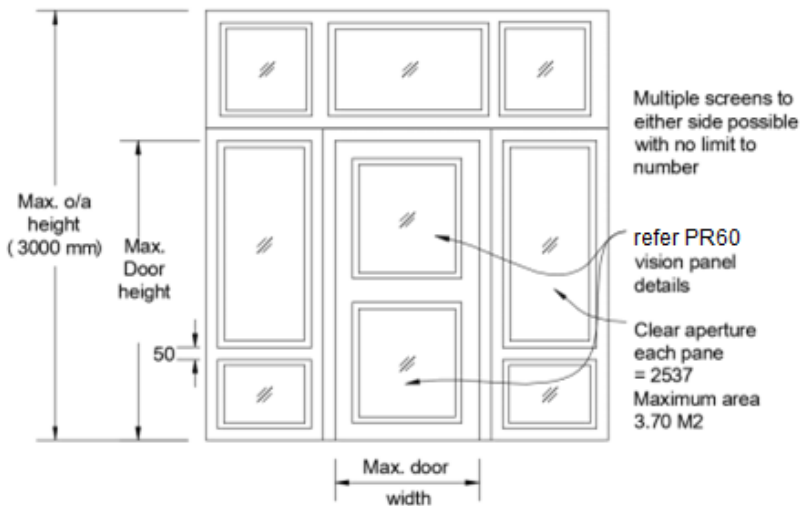


TIMBER FRAMED SIDELIGHT & OVERLIGHT

Pyrobel Glazing

The Pyrobel glazing system can include panes of up to 2537h or 2537w, up to a maximum glazed area of 3.70m²

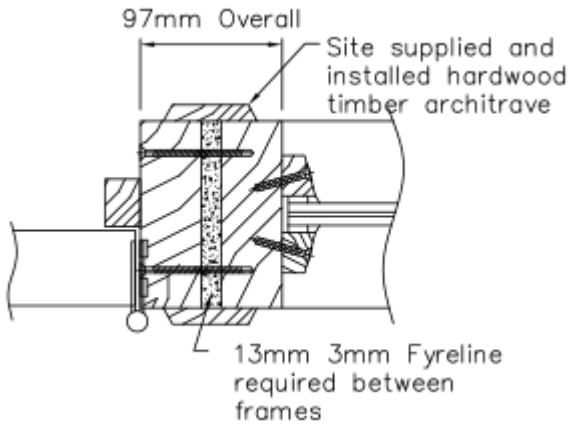
Pyrobel is not suitable for exterior use.



Detail

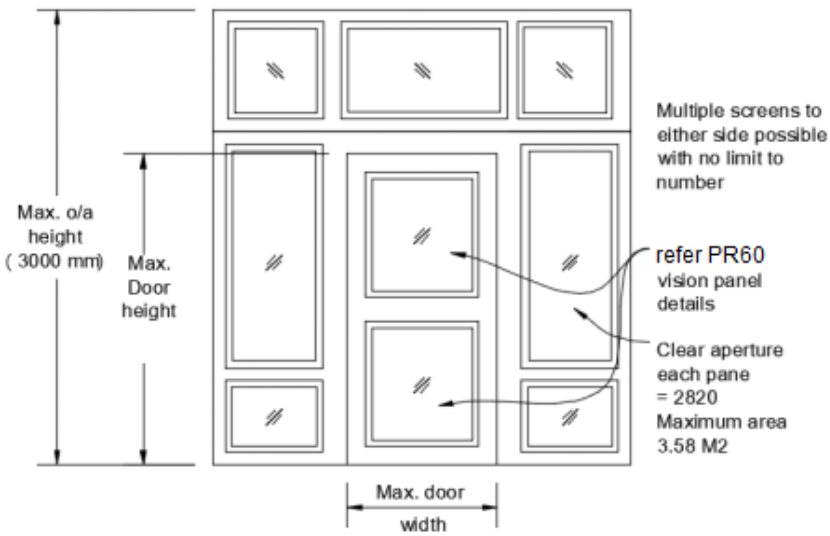
For the PR30 system, the separate glazed sidelight is connected to the fire door frame with a layer of 13mm plasterboard between. The joint is covered by a timber architrave as illustrated below. Door set, sidelite and overlite will be made and dispatched separately for on site assembly. 13mm Fyreline and architraves not supplied by Best Doors.

Sidelights & overlights are not available in Korok walls.



STEEL FRAMED SIDELIGHT & OVERLIGHT

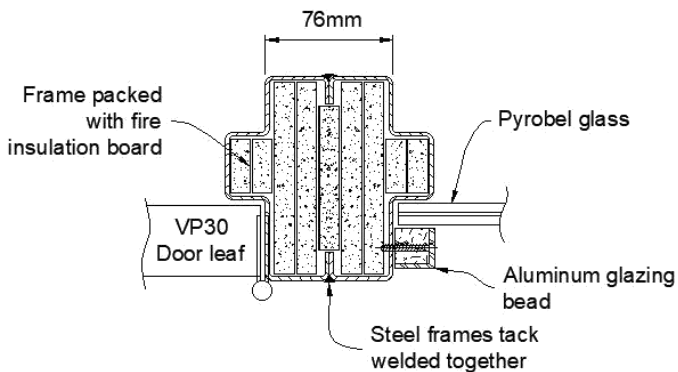
The steel framed glazing system can include panes of up to 2820h or 2820w, up to a maximum glazed area of 3.58 m²



Detail

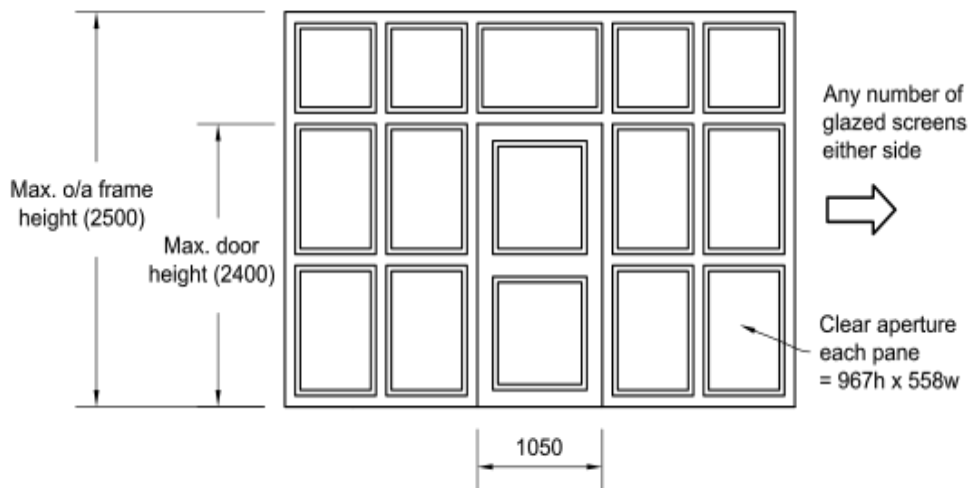
The steel frame between the window and the door must be packed with fire insulation board. Unit is required to be factory welded therefore practical limitations of size need to be considered for freight. Powder coat finish is not available.

Sidelights & overlights are not available in Korok walls.



Note: Pyrobel glazing can be used for interior applications only.

Timber Frame - Uninsulated Sidelights and Overlights



Restrictions

Maximum height of overall unit is 2500mm. This sidelight and overlight configuration is available for single and paired door sets, however the maximum height and width of the door set is 2400h x 1050w when a sidelight and/or overlight is added.

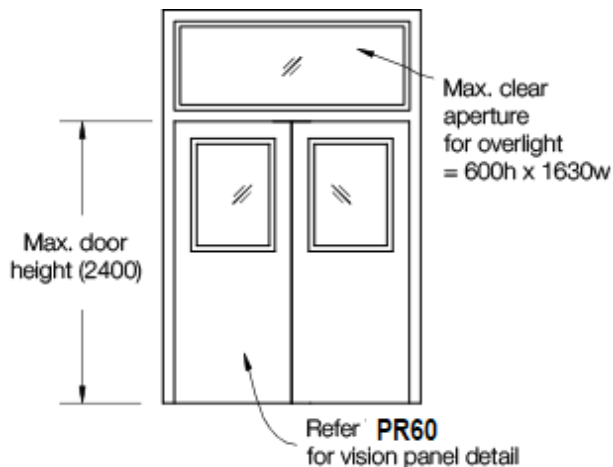
This sidelight and overlight configuration applies to the following uninsulated glazing types:

- Fire lite
- Georgian Wired
- Robax
- Pyran

Clear pane size of 967h x 558w for all applicable glazing types.

Sidelights & overlights are not available in Korok walls.

Steel Frame - Uninsulated Sidelights and Overlights



Restrictions

Maximum height of overall unit is 3100mm.

This sidelight and overlight configuration is available for single and paired door sets, however the maximum height and width of the door set is 2400h x 1200w when a sidelight and/or overlight is added.

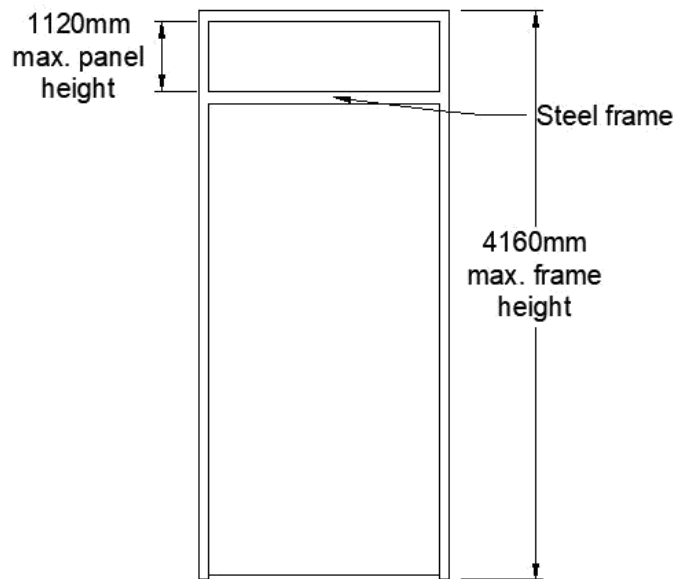
This sidelight and overlight configuration applies to the following uninsulated glazing types:

- Fire lite
- Georgian Wired
- Robax
- Pyran

Clear pane size of 600h x 1630w for all applicable glazing types.

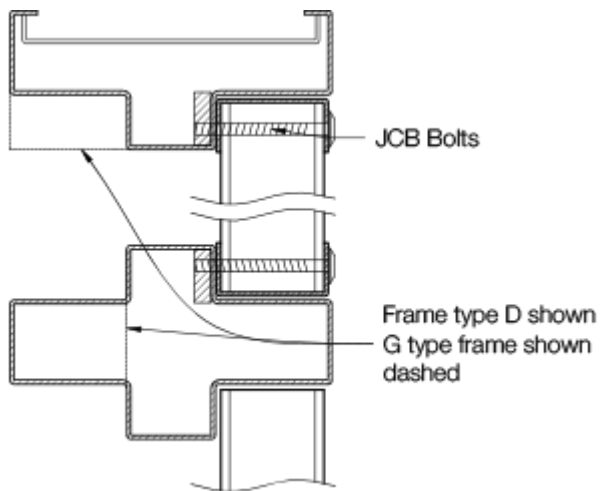
Sidelights & overlights are not available in Korok walls.

Overpanel With Transom Elevations in Steel Frame



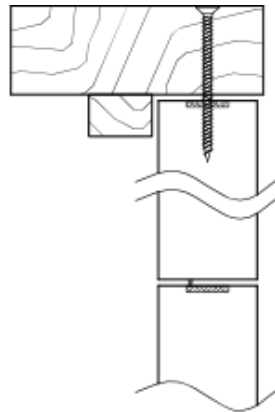
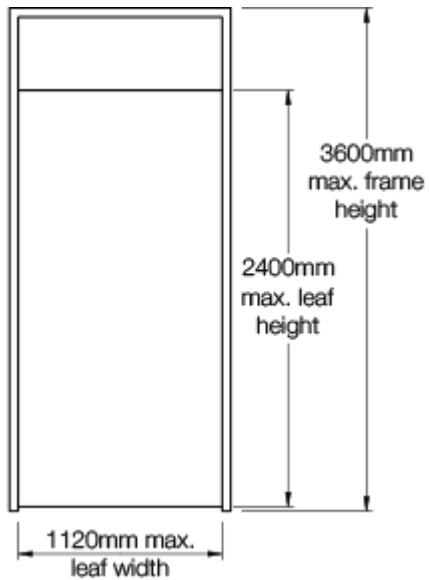
Overpanels with transom are available in steel jambs to an overall height of 4160mm both in single leaf and pair door sets.

Steel Transom Overpanel Detail



Transomless Overpanel Elevation and Detail

An overpanel without transom is available in steel or timber jambs to an overall height of 3600mm with maximum door leaf dimension 2400 x 1200mm in single leaf only.



Detail for transomless overpanel in timber frame (PR30 single door only)

Transomless overpanels are not available with a smoke control rating.

Fixed side panels may be fitted as part of this door set in a steel frame.

Sidelights, Overlights and Panels are not permitted in Korok / Speedwall or James Hardie wall.

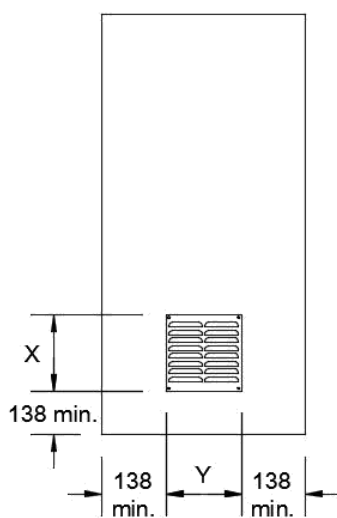
PUSH OR KICKPLATES

Push plates or kickplates can be of the below permitted materials and can be either surface mounted or recessed flush. Fixing may be via screws or contact adhesive only.

- Steel (mild or Stainless)
- Vinyl Sheets up to 2mm
- Formica
- Acrovyn 4000
- Korogard

Rubber kickplates can only be surface mounted – special conditions do apply, please contact us for more detail.

VENTILATION GRILLES



Lorient LVH intumescent grilles are available in the following sizes:

- 300 x 300 mm
- 450 x 450 mm
- 600 x 300 mm

- 600 x 600 mm

Two such intumescent grilles may be fitted to each leaf separated from each other and hardware by at least 300 mm (only one 600 x 600 mm grille allowed per leaf).

Ventilation grilles are not suitable for exposed exterior doors. Grilles in exterior doors require an additional, custom made cover plate.

Please note that fire doors with ventilation grilles cannot be certified as 'Smoke control' door sets.

Drop shutter grilles are not an option on this doorset.

SLOPING /RAKED HEAD FIRE DOOR

The PR30 leaf is available with a raked top edge. The length of the inclined edge must not exceed 1200mm.

ADJACENT DOORS

Adjacent fire rated doors are permitted provided the central mullion is grouted steel or else timber (100 x 75mm lined with Fyreline Gib Board 13mm each side or hardwood 60 x 115mm minimum without linings).

Adjacent fire rated doors are not permitted in Speedwall or James Hardie walls.

DECORATIVE TIMBER MOULDINGS AND PANELS

Nominal 43 x 12mm untreated timber mouldings or 20mm thick panels are permitted on the facings provided they are kept 50mm from the leaf edge or vision panel.

DECORATIVE PANELS

Decorative panels (stone, glass, MDF, plasterboard, hardboard or greenboard) can be added to one face of the door leaf provided:

- Panel is glue fixed (no screws or nails)
- Additional weight is less than 20 kg per hinge
- Leaf dimensions are 2400 x 1020 or less
- Leaf is hung in a steel frame

Panels to be installed on site by others. They can be either glued directly to the face of the leaf or onto timber battens glued to the leaf.

If the decorative panel is on the hinge face of the leaf, please specify extended "wide throw" hinges.

Decorative panels on push face of leaf may not extend under the frame stop.

Please note that special hardware items may be required (e.g. extended spindles).

Decorative panels are not allowed in conjunction with vision panels.

This door leaf has a thermal insulation rating (R-value) of 0.645 Km²/W.

TECHNICAL COMPLIANCE STATEMENT

The PR30 fire door complies with the requirements of NZS 4520 Fire-resistant door sets when installed in accordance with Best Doors' Installation Instructions into a complying fire-resistant wall, and when fitted with approved hardware.

NZS 4520 is referenced in the New Zealand Building Code Acceptable Solutions (Appendix C 6.1.1)

Best Doors PR30 fire doors have been successfully fire-tested in accordance with AS1530.4, as referenced in NZS 4520 and in Appendix C 5.1.1.

The fire resistance achieved by the PR30 was FRR -/30/30

The PR30 has been tested to and met the physical endurance requirements of NZS 4520 Appendix A.

The PR30 fire door will satisfy the requirements of NZBC, B2 "Durability" under conditions of use, installation and maintenance specified by Best Doors, or specific contractual guarantees, whichever are overriding.