

PYRO PANEL VP60 HINGED DOORSET

DESCRIPTION

The Pyropanel VP60 is a side hung doorset which complies with the requirements of NZS 4520 *Fire-resistant doorsets*, as referenced in the New Zealand Building Code (NZBC Appendix C 6.1.1). The doorset configuration may be single leaf or pair, finished with a variety of facings and hung in a steel or timber frame.

Types: VP60 and VP60-P

VP60-P allows larger vision panels and timber-framed sidelights (using Pyrobel 16 glass) and is described under VP60-P Doorset/Fire Window.

FIRE RESISTANCE RATING (FRR)

-/60/60 (sm)

(Stability/Integrity/Insulation Smoke Control)

Note: in general the requirement for the Insulation rating is a maximum of 30 minutes. In the NZBC Acceptable Solutions C/AS* the FRR for doors is stated in clause 4.16.1 and will be, for example, -/60/30 sm, or -/60/- sm.

A FRR of -/60/60 can be achieved with a door with no vision panels, or with vision panels of fire resisting glass of no greater area than 0.065m² per door leaf (NZS 4520 3.2).

Doorsets with larger vision panels of uninsulated glass have FRR of - /60/ -.

A FRR -/60/30 can be achieved with a door with larger vision panels of insulating glass (refer to the VP60-P Doorset/Fire Window specification)

FIRE TESTING

Pyropanel VP60 Fire Doors are supported by numerous tests conducted by Building Research Association of New Zealand (BRANZ) in accordance with AS1530.4 and BS476:22.

The fire resistance achieved by the Pyropanel VP60 fire doorset was:

-/60/60

BRANZ is accredited by International Accreditation New Zealand for testing to the above fire test standards.

VP60 has been successfully tested to the physical testing requirements of NZS 4520 Appendix A.

VP60 can be supplied in a version which complies with the tests of physical strength and impact resistance included in Specification 1524 set by Telecom Australia and conducted by BRANZ.

SMOKE CONTROL

VP60 can be supplied as a smoke control door as defined in the NZBC Acceptable Solutions Appendix C, C6.1.2.

Timber-framed smoke control doors include a brush seal in the frame. Steel framed doors include the Euroseal or the stop-mounted PFS-3 seal (refer Seals datasheet).

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

LEAF SPECIFICATIONS

Refer to the Door Leaf Edge Details page for leaf edge options – standard is unclashed.

Leaf Weight: 27kg/m² (with standard facings).

Leaf Thickness: 48mm

Maximum Leaf Size:

	Single	Pair
Steel Stud Wall	2700x1200	2700x1200
Timber Stud Wall	2700x1200	2700x1200
Concrete/Masonry	3600x1200	3000x1500

PAIR MEETING STILES

VP60 pair meeting stiles include:

- Timber step-rebated
- Aluminium bullnose
- Aluminium J-section
- Aluminium rebated

Pair meeting stiles are illustrated on the Meeting Stile Details datasheet.

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LEAF FACINGS

MDF (3 or 4mm)

#Metal sheet, mild or stainless (0.6 - 1.0mm)

#Plywood 3,4mm

#FR Formica (0.8, 1.2mm)

Standard Formica HPL

#Timber Veneers

Sheet vinyl (1.25 – 2mm)

Versilux (one side)

#Wilsonart Decorative Laminate

Decorative timber mouldings/panels

#Aluminum sheet (0.3 - 1.0mm)

#Acrovyn, Korogard

#Hygienic Resin Coating.

Ply/Lead (X-ray Barrier construction)

#Laminex Decoral(0.8mm)

Note: Of the above facings only those marked # may extend around the door edge. Steel frames are required where metal leaf capping is used.

FRAME MATERIALS

Steel, mild or stainless (1.2 - 1.6mm)

Timber. Density requirements for fire doors exclude some species of timber.

FRAME INSTALLATION AND PROFILES

For approved frame profiles and installation refer to the individual Installation datasheets.

For timber frames, slimline and architrave profiles are permitted. Restrictions apply to architrave dimensions.

For steel frames single or double rebate frames are permitted with rebate 25mm and reveal 25-65mm (standard is 38mm)

A two-part steel frame system is available for fixing to openings in walls already lined – refer to the Two Part Steel Frame datasheet.

WALL TYPE

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

- Precast concrete (100mm thickness) or grouted blockwork (190mm thickness).
- Non-load bearing timber stud partitions of minimum specifications GBT60a or GBT60b. Note that steel framed VP60 doorsets may only be installed in walls of minimum stud size ex 100x50mm (Gib® Fire Rated Systems).
- Non-load bearing steel stud partitions of minimum specification GBS90 (timber framed doors) or GBS60 (Steel framed doors) (Gib® Fire Rated Systems).
- Universal Wall systems GBUW60a or GBUW60b

VISION PANELS

Glazing options are shown on the Vision Panel Details datasheet.

Special rules apply for VP60-P (doorset with insulating glazing) in which glazed area may be 0.6m² maximum with one vision panel or 0.96m² maximum with 2 vision panels.

HARDWARE

A wide range of hinges, locksets, closers and other accessories have been tested or approved to NZS 4520. Refer to the website www.pacificdoors.co.nz for the current list.

Fixture of surface mounted closers on Pyropanel fire doors requires self-tapping screws, which must penetrate at least 32mm into the leaf.

Pull handles must be through-fastened.

RETROFIT DOOR LEAVES

In some circumstances new fire door leaves can be fitted to existing steel frames of the correct dimensions and installation. The feasibility of this should be discussed with Pacific Door Systems Ltd before specifying.

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EXTERIOR QUALITY

Refer to the conditions listed in the General Information for Fire Doorsets datasheet.

EXTRAS

Push or Kickplates

Permitted materials: Steel (mild or stainless), Formica, Acrovyn, Korogard, Sheet vinyl. These materials may be surface mounted or recessed flush. Fixing may be via screws or contact adhesive only.

Ventilation Grille

(Not permitted in smoke control doorsets)

A Drop Shutter Grille is available to a maximum aperture 600 x 600mm as illustrated on the Ventilation Grille datasheet (top). Shutters are not available for exterior quality doors.

Fixed Side Panels

A complete doorset with screw fixed side panels can be supplied, with the steel mullion between panel and door leaf to be grout-filled during installation.

Adjacent Doors

Adjacent fire rated doors are permitted provided the central mullion is grouted steel, except that for any frame with clear aperture less than 2396 x 1454mm the mullion may be factory packed rather than grouted. Maximum width of the coupled doorsets with grouted mullion is 3600mm overall.

Overpanels

Overpanels with transom are available in steel jamb to an overall height of 3600mm.

An overpanel without transom is available in steel jambs to an overall height of 3600mm with maximum door leaf dimensions 2400x1200mm, in single leaf only.

Refer to the Overpanels datasheet for details.

Decorative timber mouldings and panels

Nominal 43x12mm untreated timber mouldings or 20mm thick panels are permitted on the

facings provided they are kept 50mm from the leaf edge or vision panel.

Overlight

An overlight of maximum clear aperture 1630x600mm (WxH) is available in a steel framed doorset with clear glazing.

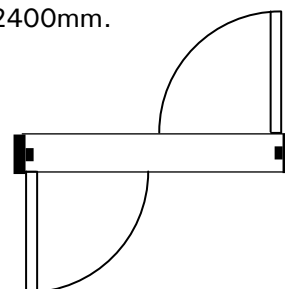
Sidelights

The FW60 Fire Window can be supplied connected to a VP60 doorframe as a sidelight or overlight in a glazed steel-framed unit of maximum overall frame size 2400 x 2400mm.

Alternatively a wall segment of minimum width 250mm must separate the FW60 fire window from a VP60 doorset.

Restaurant function

A doorset can be supplied with a modified frame (timber or steel) allowing two door leaves to open in opposite directions. Maximum door height is 2400mm.



Double acting doors may also be modified for restaurant function.

FIRE DOOR DURABILITY

Pacific Fire doors will satisfy the requirements of NZBC, B2 "Durability" under conditions of use, installation and maintenance specified by Pacific Door Systems Limited, or specific contractual guarantees, whichever is overriding.

ORDERING PACIFIC FIRE DOORSETS

A Doorset Order Form is provided to clients for confirming details of all orders.