

Best doors PC60 Door Set -/60/60sm

The Best PC60 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.

The thickness of the PC60 door leaf is 48mm with an approximate leaf weight of 27kg/m²

Wall Type	Jamb Type	Maximum Fire Resistance Rating Stability / Integrity / Insulation	Door Application	Max Leaf Height (mm)	Max Leaf Width (mm)
Steel Stud Wall Timber Stud Wall Masonry Wall	Timber	-/60/60sm	Single	2700	1200
			Pair	2700	1200
Steel Stud Wall Timber Stud Wall Masonry Wall	Steel	-/60/60sm	Single	3000	1500
			Pair	3000	1500
Speed wall	Steel	-/60/30sm	Single & Pair	2400	1200
				2700	1050
James Hardie*	Steel	-/60/30sm	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 Speed wall are restricted to J-Section or Bullnose.

Timber jambs are not possible for doors installed into Speed wall or James Hardie

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

Some wall applications will have a maximum 30 minute insulation rating.

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.

JHETGJ60 is the only approved James Hardie fire rated wall system.

Product Options

LEAF FACINGS

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

Notes:

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

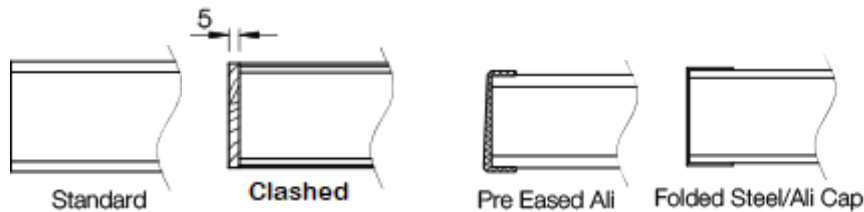
Steel frames are required where metal capping is used.

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 PC60 door set



Notes:

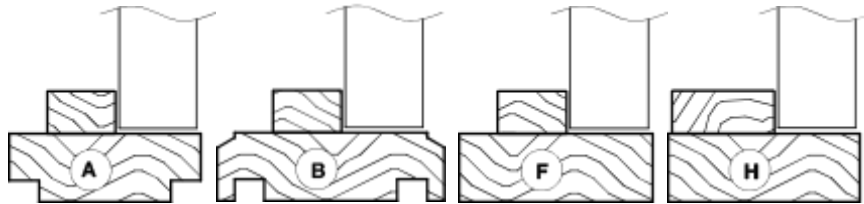
Aluminium cappings are not available for timber frame doorsets or doorsets installed into Speedwall or James Hardie wall.

FRAME TYPES & PROFILES

Timber Frame

The timber frame profiles listed below are available for the PC60 door set.

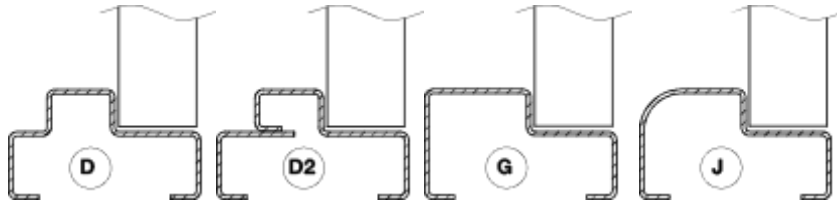
Timber density requirements exclude some species of timber.



Steel Frame

The steel frame profiles listed below are available for the PC60 door set.

The PC60 door set is available in the two-part steel frame system for fixing to walls already lined.



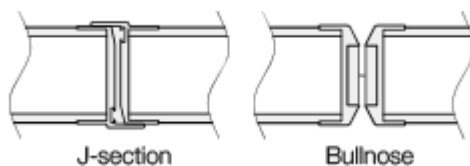
Notes:

D2 and D4 are not available with sidelights and overlights, and are not compliant in Speedwall or James Hardie wall.

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

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 (minimum 140mm thickness).

Non-load bearing timber stud partitions of minimum specifications GBT60a or GBT60b. Note that steel framed PC60 door sets 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 GBUW 60a or GBUW 60b

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	
				Timber	Aluminium	Up to 0.065 m ²	Over 0.065 m ²
Pyrobel*	0.32 m ²	850	950	✓	✓	- /60 /60	- /60 /30
Georgian Wired	0.32 m ²	850	950		✓	- /60 /60	- /60 /-
Firelite	0.32 m ²	850	950		✓	- /60 /60	- /60 /-
Robax	0.32 m ²	850	950		✓	- /60 /60	- /60 /-
Pyran*	0.32 m ²	850	950		✓	- /60 /60	- /60 /-

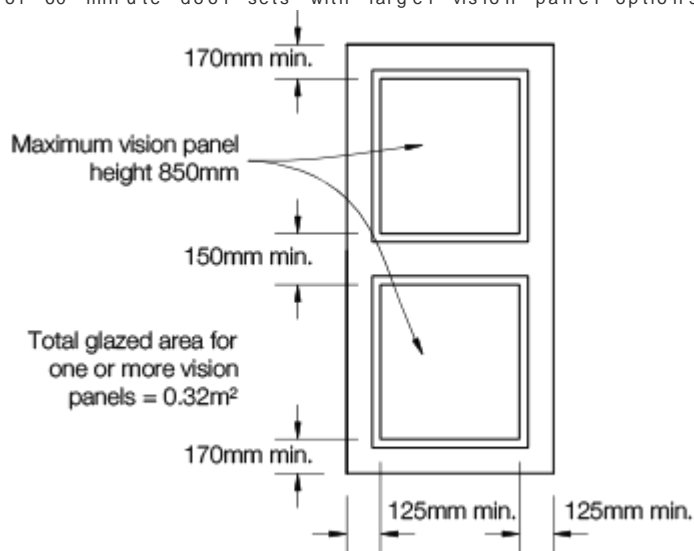
Notes:

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.

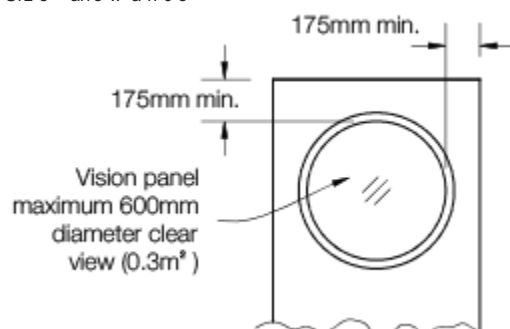
Circular vision panels are not available with Pyrobel glazing.

For 60 minute door sets with larger vision panel options, please refer to the PC60P

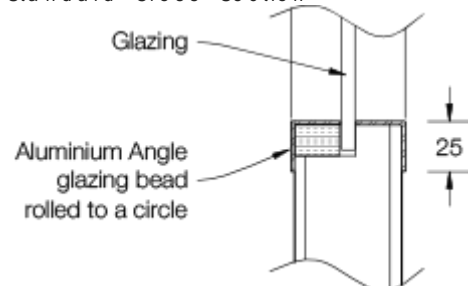


CIRCULAR VISION PANELS

Size allowance



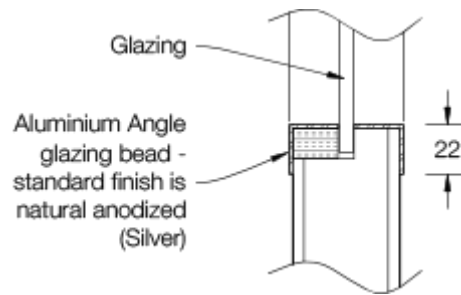
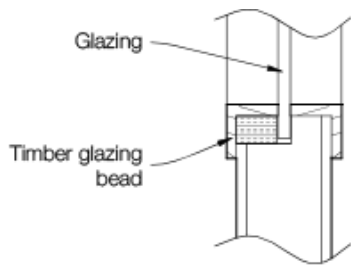
Standard Cross Section



STANDARD VISION PANEL CROSS SECTIONS

Timber Bead

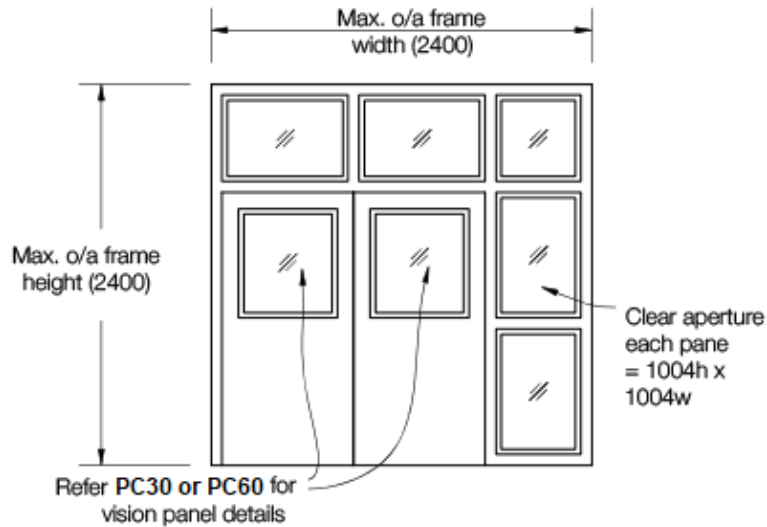
Aluminium Bead



*Pyrobel only

SIDE LIGHTS

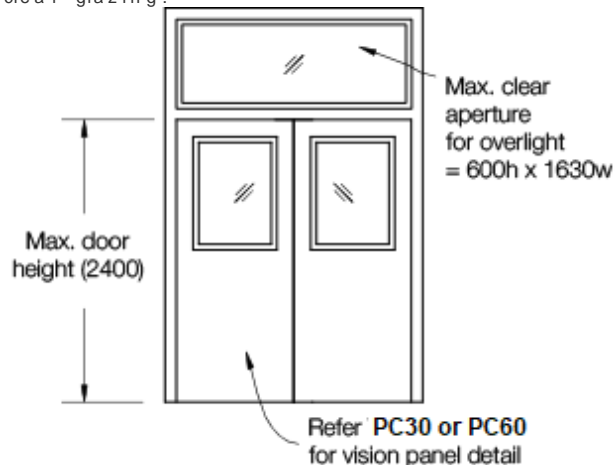
Sidelight and overlights in a glazed steel framed unit are available to a maximum overall frame size 2400 x 2400 mm.



Alternatively a wall segment of minimum width 250 mm must separate the FW 60 fire window from a PC 60 door set.

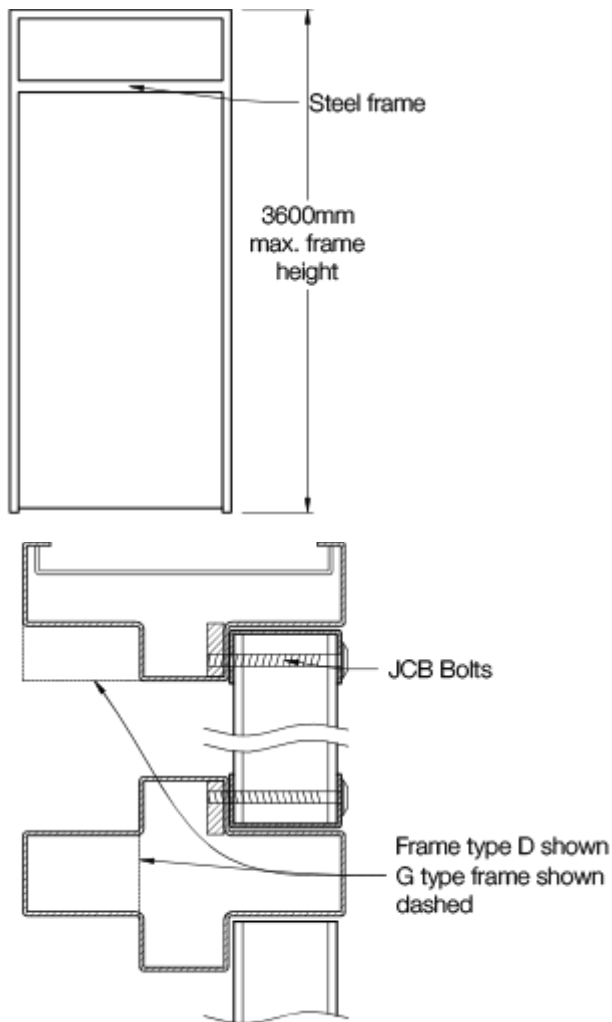
OVERLIGHTS

An overlight of maximum clear aperture 600h x 1630w is available in a steel framed door set with clear glazing.



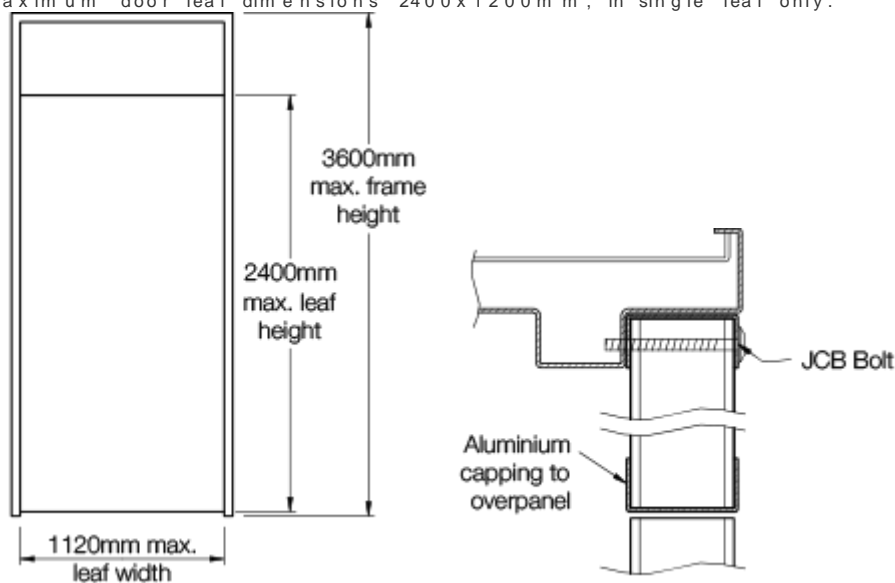
Transom Overpanels

Overpanels with transom are available in steel jamb to an overall height of 3600 mm in a single or paired door set.



Transomless Overpanels

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.



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

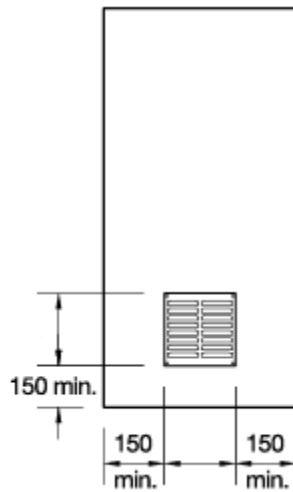
Sidelights, Overlights and Panels are not available for door sets installed into Speedwall or James Hardie wall.

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
 Korogard

VENTILATION GRILLES



Lorient LVDH intumescent grilles are available to a maximum rating of ~/120/30.

Pyropanel Pyrogrilles can be supplied if required to achieve ~/180/30 fire rating

Special grille covers are required for exterior situations

Available sizes are:

W	H
600	300mm
450	450mm
600	600mm

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.

ADJACENT DOORS

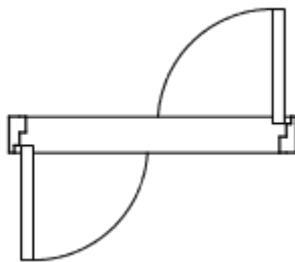
Adjacent fire rated doors are permitted provided the central mullion is grouted steel, except that for any frame with clear aperture less than 2396 x 1454mm the mullion may be factory packed rather than grouted. Maximum width of the coupled doorsets with grouted mullion is 3600mm overall. Adjacent fire rated doors are not permitted installed into Speedwall or James Hardie wall.

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.

RESTAURANT FUNCTION

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



Restaurant function door sets are not permitted installed into Speedwall or James Hardie wall.

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

TECHNICAL COMPLIANCE STATEMENT

The PC60 fire door complies with the requirements of NZS 4520 Fire-resistant doorsets 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 PC60 fire doors have been successfully fire-tested in accordance with AS 1530.4, as referenced in NZS 4520 and in Appendix C 5.1.1.

The fire resistance achieved by the PC60 was FRR ~/60/60

The PC 60 has been tested to and met the physical endurance requirements of NZS 4520 Appendix A.

The PC 60 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.