Fire Test Certificate

This is to certify that the specimen described below has been examined by BRANZ Ltd on behalf of

ASSA ABLOY Australia Pty Ltd
235 Huntingdale Road
Oakleigh, Victoria 3166
Australia

Referenced standard: AS 1530.4:2014

Specimen name: Pyropanel FR Fire Doorsets

Specimen description: Steel or timber framed Pyropanel FR single and pair leaf doorsets mounted in a range of walls with leaf sizes up to that stated in the table overleaf.

Orientation: Fire exposure from either side

A full description of the test specimen and the test results are given in BRANZ Test Reports and Assessments:

FAR 4801 Issue 3

Conditions of laboratory registration by IANZ do not allow assessments by the Registered Laboratory to be covered by IANZ.

Regulatory authorities are advised to examine test reports before approving any product.

The assessed results were as follows:

See following pages for the tested/assessed performance for each doorset

Certificate issued: 4 July 2023

Certificate expiry: 4 July 2033

Certificate Number: FAR 4801 C6 Issue 1

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P Chapman
Senior Fire Testing Engineer
For BRANZ Limited

The following statement is required by the test standard *"This certificate is provided for general information only and does not comply with the regulatory requirements for evidence of compliance."*

Fire Test Certificate

Nominal 48 mm Pyropanel FR Maxi doorsets

Wall type	Maximum Single leaf nominal size (mm)[1, 3]	Maximum Pair leaf nominal size (mm)[1, 3, 6]	FRL
Plasterboard walls	2,700 mm x 1,500 mm	2,700 mm x 1,350 mm	-/120/30 [2, 3, 4]
	3,000 mm x 1,500 mm	3,000 mm x 1,500 mm	-/60/30 [2, 3, 4]
Masonry or Concrete walls or Hebel walls (walls min 150 mm thick)	2,700 mm x 1,500 mm	2,700 mm x 1,350 mm	-/120/30 [2, 3, 4]
	3,000 mm x 1,500 mm	3,000 mm x 1,500 mm	-/60/30 [2, 3, 4]
Knauf IntRWall	2,340 mm x 1,020 mm	2,340 mm x 1,020 mm	-/120/30 [3]
Speedpanel	2,400 mm x 1,200 mm or 2,700 mm x 1,050 mm	2,400 mm x 1,200 mm or 2,700 mm x 1,050 mm	-/120/30 [5]
PROMATECT® 50 and 100	2,700 mm x 1,500 mm	2,700 mm x 1,350 mm	-/120/30 [2, 4, 5]
	3,000 mm x 1,500 mm	3,000 mm x 1,500 mm	-/60/30 [4, 5]
CSR Hebel 75 mm PowerPanel/Plasterboard wall systems	3,000 mm x 1,500 mm	3,000 mm x 1,500 mm	-/60/30 [4]

Notes:
1) Maximum leaf size applies to steel frame doorset only.
2) 60 minutes insulation if the frame is packed with Pyropanel fire rated M4 lightweight Mortar or Mortar.
3) Timber frame application limited to 1hr (FRL -/60/60) and maximum leaf size of 2,700 mm x 1,020 mm or as stated in the above table if smaller.
4) For leaves wider than 1,200 mm the timber edge strips shall be replaced with the equivalent thickness of Greenboard.
5) Steel framed doorset only.
6) Optional Pyropanel JSS-01 seal to Pyropanel J-section meeting stile limited to FRL -/90/30.

Other variations that may be included:
- Exposed timber edge strips (for leaves up to 1,200 mm wide).
- Grooves in the timber facing up to maximum 2 mm deep x 5 mm wide.
- Timber veneer or decorative laminates up to maximum 1.5 mm thick to the leaf face with FRL -/60/60 doorset.
- Timber veneer up to maximum 0.7 mm thick to the leaf face and edge.
- Transom panels up to 1,120 mm high.
- Transom panels without a transom frame for up to FRL -/60/30.
- Multiple side by side doorsets up to maximum combined width of 7,500 mm.
- Mild steel (Zincanneal, Zincalume, galvanised, Colorbond or other powder coating less than 0.5 mm thick) capping/facing up to 2.0 mm thick, stainless steel or aluminium capping/facing up to 1.6 mm thick.
- Stone, glass, MDF, plasterboard, Greenboard or similar non-combustible facings to one or both faces of the leaf, maximum weight per hinge limited to 25 kg and maximum leaf size limited to 2,400 mm high x 1,200 mm wide.
- Stone, glass, MDF, plasterboard, Greenboard or similar non-combustible facings secured to the doorset frame.
- 1.5 mm thick Altro Fortis Titanium™ 15 PVC laminate to the leaf face and optionally the leaf edges.
- 0.7 mm thick Polytec HPL laminate or Polytec LPM laminate with MDF substrate nominally 3 mm to 4.75 mm thick. The laminate may optionally be used on the leaf edges.
- 0.9 mm thick Abet Laminati F1 grade HPL.
- 0.8 mm thick Duropal laminate.
- 1.5 mm thick Pawling WC laminate sheet with modified intumescent details of 20 mm x 3 mm or two 10 mm x 3 mm Intumex L at the head.
- 1.0 mm to 3.0 mm thick Acrovyn 4000 kick plates or 1.5 mm Korogard kick plate installed from the bottom of the leaf up to within 50 mm of the lockset/furniture.
- Lockwood KP kickplate or steel checker plate or flat plate up to 2 mm thick, width up to the distance between frame stops, x 200 mm high.
- Timber bolection mouldings to the face of the leaf.
- 1.0 mm to 1.5 mm thick Acrovyn 4000 door edge protector. The edge protector shall be installed as tested/assessed and installed from the bottom of the leaf up to within 50 mm of the lockset/furniture.
- Pair leaf meeting edge with additional maximum 8 mm thick Greenboard.

Nominal 48 mm Pyropanel FR Maxi doorsets

Other variations that may be included:
- Pair leaf doorsets with Pyropanel JSS-01 meeting edge seal. FRL -/90/30.
- Pair leaf doorsets with a Pyropanel roller latch to the top of the active/inactive leaves or at the top of the inactive leaf in conjunction with an approved lockset at nominally 1,000 mm from the sill.
- Pair leaf doorsets with a Pyropanel autobolt at the top of the inactive leaf in conjunction with an approved lockset at nominally 1000 mm from the sill.
- Opposite swing or double egress pair leaf doorset.
- Uninsulated vision panels consisting of 5 mm thick Pyropanel Pyroceram ceramic glass with Pyropanel aluminium surrounds up to 65,000 mm² up to an FRL of -/120/30.
- Insulated vision panels consisting of 13 mm thick Pyrodur glazing with Pyropanel aluminium surrounds up to a maximum clear vision dimension of nominally 600 mm and up to 65,000 mm² for up to an FRL of -/120/30.
- Steel conduit up to nominally 13 mm diameter in conjunction with approved lockset and power transfer device.
- Steel or timber framed doorsets in a CLT wall lined with 16 mm fire rated plasterboard to each face. Overall wall thickness not less than 152 mm. FRL -/60/30.
- Pyropanel FR cylindrical or mortice lock cut-out patching.
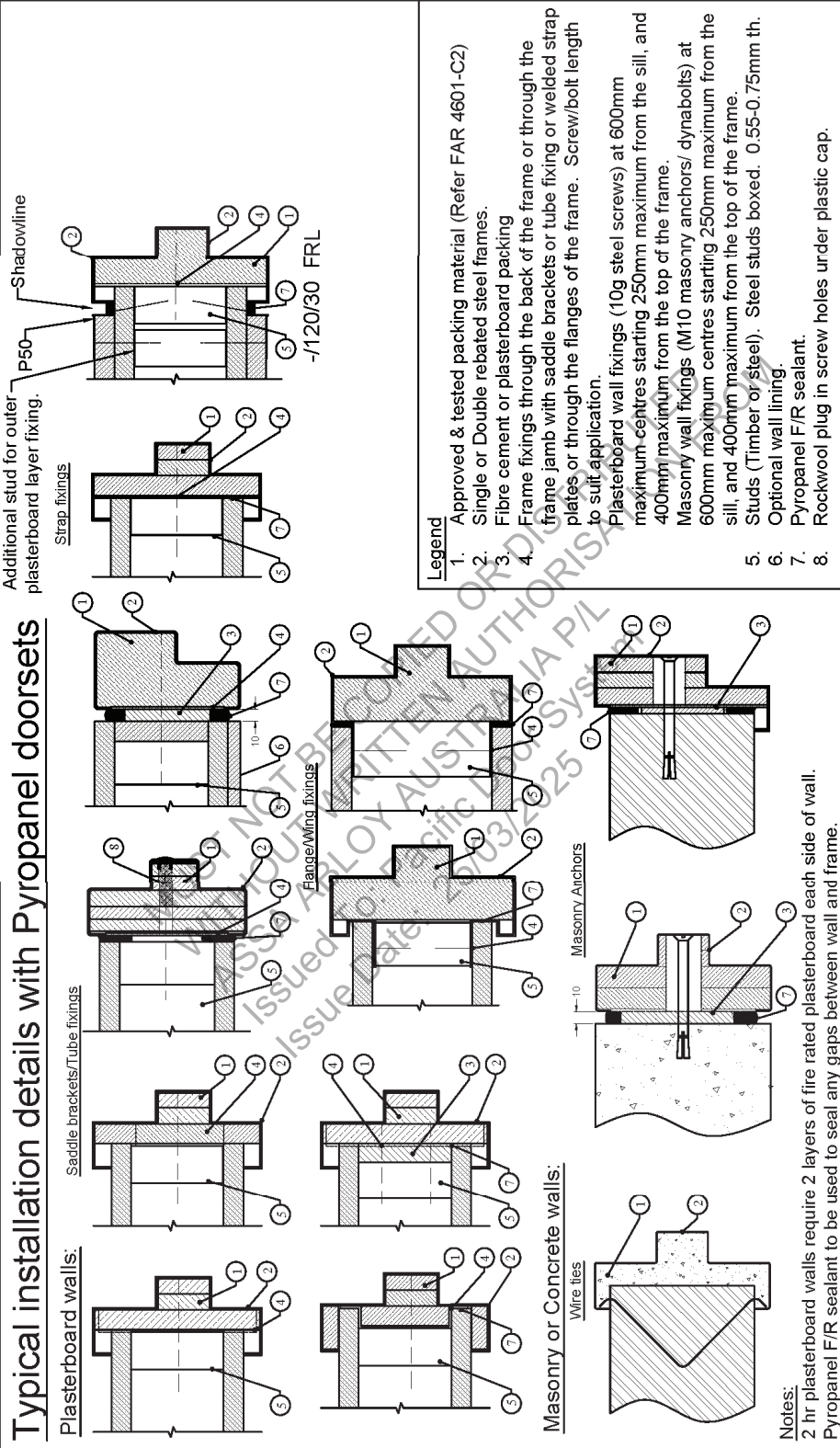
Nominal 38 mm Pyropanel FR Mini steel framed doorsets

Wall type	Maximum Single leaf nominal size (mm)	FRL
Plasterboard walls	2,350 mm x 1,020 mm	-/120/30
	2,400 mm x 1,100 mm	-/60/30
Masonry or Concrete walls or Hebel walls (walls min 150 mm thick)	2,350 mm x 1,020 mm	-/120/30
	2,400 mm x 1,100 mm	-/60/30
PROMATECT® 50 and 100 walls	2,350 mm x 1,020 mm	-/120/30
	2,400 mm x 1,100 mm	-/60/30
CSR Hebel 75 mm PowerPanel/Plasterboard wall systems	2,400 mm x 1,100 mm	-/60/30

Other variations that may be included:
- 1.0 mm to 3.0 mm thick Acrovyn 4000 kick plates.
- 1.0 mm to 1.5 mm thick Acrovyn 4000 door edge protector.
- Pyropanel FR cylindrical or mortice lock cut-out patching.
- Insulated vision panels consisting of 13 mm thick Pyrodur glazing up to a maximum clear vision dimension of nominally 600 mm and up to 65,000 mm² for up to an FRL of -/120/30.

Typical installation details with Pyropanel doorsets

Plasterboard walls:

Strap fixings

Saddle brackets/Tube fixings

Flange/Wing fixings

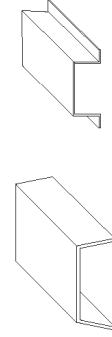**Masonry or Concrete walls:**

Masonry Anchors

Wire ties

Legend

1. Approved & tested packing material (Refer FAR 4601-C2)
2. Single or Double rebated steel frames.
3. Fibre cement or plasterboard packing
4. Frame fixings through the back of the frame or through the frame jamb with saddle brackets or tube fixing or welded strap plates or through the flanges of the frame. Screw/bolt length to suit application.
   Plasterboard wall fixings (10g steel screws) at 600mm maximum centres starting 250mm maximum from the sill, and 400mm maximum from the top of the frame.
   Masonry wall fixings (M10 masonry anchors/ dynabolts) at 600mm maximum centres starting 250mm maximum from the sill, and 400mm maximum from the top of the frame.
5. Studs (Timber or steel). Steel studs boxed. 0.55-0.75mm th.
6. Optional wall lining.
7. Pyropanel F/R sealant.
8. Rockwool plug in screw holes under plastic cap.

Additional stud for outer plasterboard layer fixing.

Shadowline

P50

-/120/30 FRL

Notes:
2 hr plasterboard walls require 2 layers of fire rated plasterboard each side of wall.
Pyropanel F/R sealant to be used to seal any gaps between wall and frame.

Example of saddle bracket fixings:

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Drawn by:		Date: 20/04/22	Issue
Checked by:		Date:	

Typical installation details with Pyropanel doorsets

Double stud Plasterboard walls:

Strap fixings

Flange/Wing fixings

Saddle brackets/Tube fixings

Shadowline

-/120/30 FRL

P50

Additional studs for outer plasterboard layer fixing.

Example of a saddle bracket fixing:

Notes:
2 hr walls require 2 layers of fire rated plasterboard each side of wall.
Pyropanel F/R sealant to be used to seal any gaps between wall and frame.

Legend

1. Approved & tested packing material (Refer FAR 4601-C2)
2. Single or Double rebated steel frames.
3. Fibre cement or plasterboard packing
4. Frame fixings through the back of the frame or through the frame jamb with saddle brackets or tube fixing or welded strap plates or through the flanges of the frame. Screw/bolt length to suit application.
   Plasterboard wall fixings (10g steel screws) at 600mm maximum centres starting 250mm maximum from the sill, and 400mm maximum from the top of the frame.
   Masonry wall fixings (M10 masonry anchors/ dynabolts) at 600mm maximum centres starting 250mm maximum from the sill, and 400mm maximum from the top of the frame.
5. Studs (Timber or steel). Steel studs boxed. 0.55-0.75mm th.
6. Optional wall lining.
7. Pyropanel F/R sealant.
8. Rockwool plug in screw holes under plastic cap.

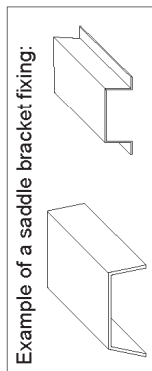|	
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Filling holes in Pyropanel Fire Doors

Cylindrical/Tubular Lock

EDGE VIEW   SIDE VIEW   SECTION A-A

Lock bolt hole

Facing Patch

FR Board pieces

Polyester filler (eg builder's bog)

Hole through door (see section A-A for filling method)

Fill edge of hole with hardwood timber (bond in place with polyester filler.) Reinstate any intumescent if originally in door.

Fill lock bolt hole with FR Board (fix with polyester filler)

Mortice Lock

EDGE VIEW   SIDE VIEW   SECTION B-B

Fill mortice cutout with Pyropanel FR Board. (bond in place with polyester filler)

Fill faceplate cutout and hole in edgestrip with hardwood. (bond in place with polyester filler). Reinstate any intumescent if originally in door.

Facing patch

FR Board pieces

Polyester filler (eg builder's bog)

DRAWING No.	Door Hole Filling (patching)
TITLE:	

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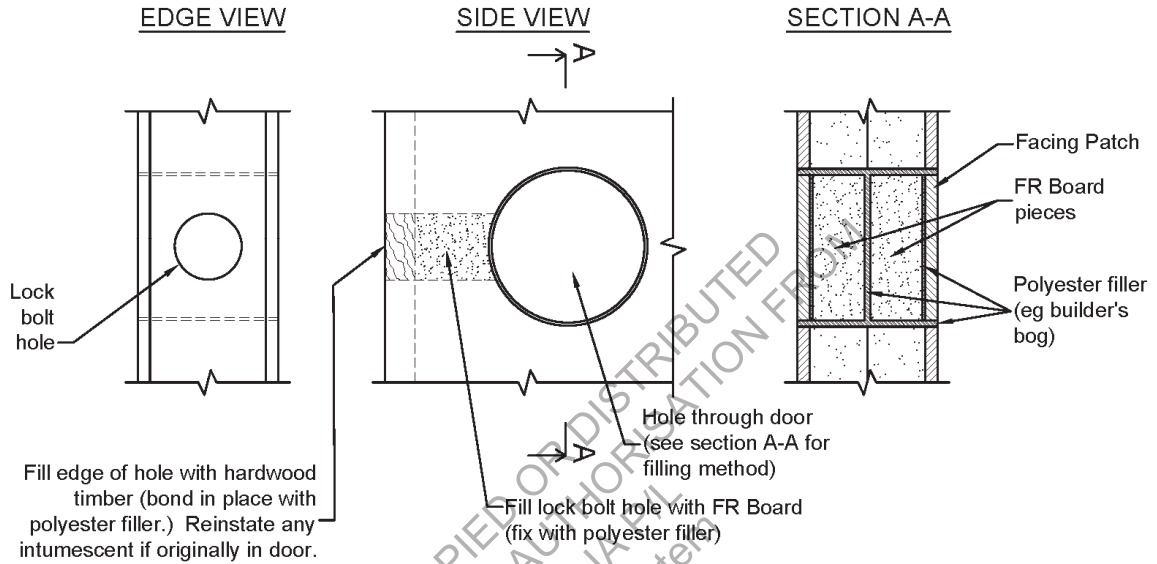This drawing is the property of ASSA ABLOY Australia Pty Ltd and must not be leased, sold or reproduced without written authorisation.

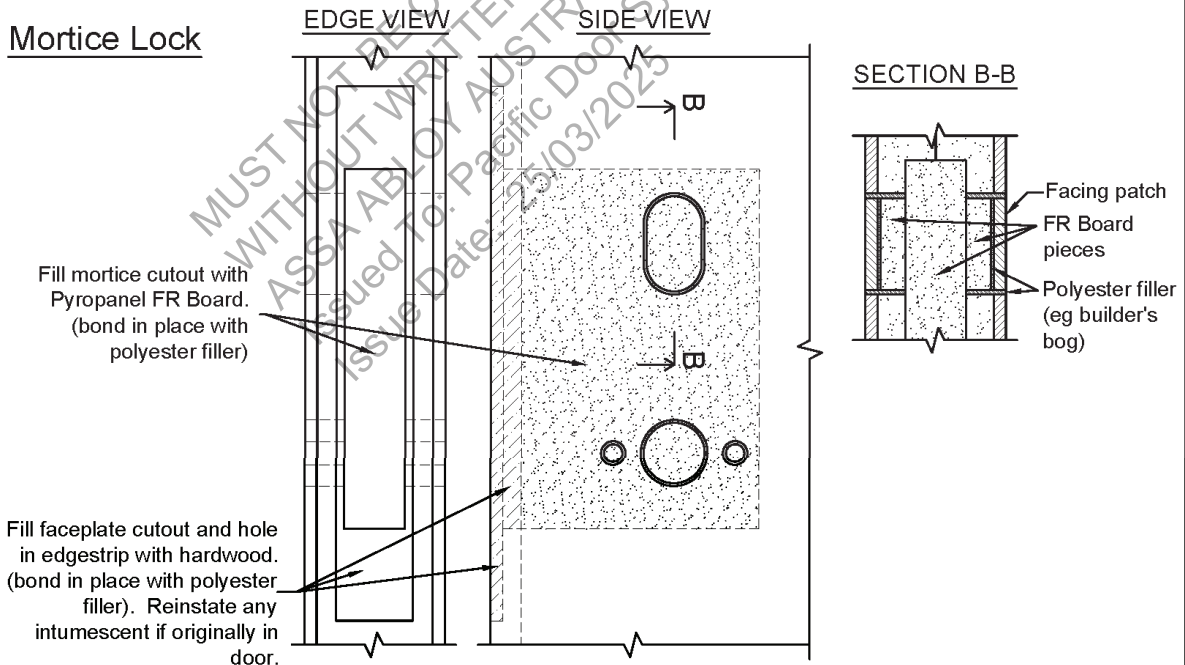**Certificate Number:** FAR 4801 C6 Issue 1

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