

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, AS 1905.1:2015 and NZS 4520:2010

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:

FC17846-01-3

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:

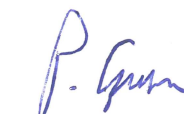
See following pages for the tested/assessed performance for each doorset

Certificate issued: 11 December 2025

Certificate expiry: 11 December 2035

Certificate Number: FC17846-01-C3-1

Page 1 of 7



P Chapman
Senior Fire Testing Engineer
For BRANZ Limited



This Laboratory is accredited by International Accreditation New Zealand (IANZ). The tests reported herein have been performed in accordance with the laboratory's scope of accreditation.

The National Association of Testing Authorities (NATA) and International Accreditation New Zealand (IANZ) are both signatories of the ILAC Mutual Recognition Agreement.

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 (Hebel 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 CLT plasterboard wall system 152 mm	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.
- Transoms and mullions may be fixed or removable.
- Transom panels may be clad with any of the approved leaf facings (metal, plastic or laminate) subject to any conditions/limitations of the facing.
- Frames may be 1.2 mm to 1.6 mm thick stainless steel if fully grouted in a masonry or concrete wall.
- Multiple side by side doorsets up to maximum combined width of 7,500 mm.
- Mild steel (Zincanneal, Zinalume, galvanised, Colorbond or other powder coating less than 0.5 mm thick) capping/facing up to 1.0 mm thick, stainless steel or aluminium capping/facing up to 1 mm thick. Maximum leaf size limited to 2,700 mm x 1,200 mm.
- Acrovyn 2000 sheet nominally 1.5 mm thick for up to FRL -/90/30.
- 1.5 mm thick Altro Fortis Titanium™ 15 PVC 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 LI Surfaces Duropal laminate.
- 1.5 mm thick Korogard 500 FRL -/90/30.
- 1.5 mm thick Pawling WC sheet with modified intumescent details of 20 mm x 3 mm or two 10 mm x 3 mm Pyropanel INTUL at the head.
- 0.8 mm thick LI Surfaces Innovus laminate on 4 mm thick FR MDF facing.
- Any of the materials listed above (metal, plastic or laminate) approved for use on the full face of the leaf may also be used as a kick plate and cover part or all of the leaf face.

Fire Test Certificate

Nominal 48 mm Pyropanel FR Maxi doorsets

Other variations that may be included:

- 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 doorsets with Pyropanel JSS-01 meeting edge seal for FRL -/90/30 or Pyropanel INTUL 30 mm x 3 mm for -/120/30.
- 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 rectangular or circular vision panels consisting of 5 mm thick Pyropanel Pyroceram ceramic glass with Pyropanel aluminium or stainless steel 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.
- Single leaf Pyropanel FR Maxi steel framed doorsets up to a maximum size of 2,700 mm x 920 mm installed in a 60 minute fire rated steel stud plasterboard wall of minimum 13 mm plasterboard each side of 64 mm deep steel studs. The doorset frame shall be filled with Plasterboard strips, cornice adhesive/plaster with or without plasterboard, Pyropanel M4 light weight mortar or mortar frame filling for an FRL of -/60/30.
- 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.
- Pyropanel FR acoustic doorset consisting of Greenboard/plywood/steel and weight per hinge not to exceed 25 kg.
- Sill clearance up to 15 mm with edge strip not greater than 10 mm.
- Optional steel reinforcing plate up to 2 mm thick, extending a maximum of 25 mm from the perimeter of the installed hardware may be added to one side of the door leaf. The plate may be optionally bonded with Pyropanel ADFACON fire rated contact adhesive, and through bolted to prevent hardware bolts from pulling through.
- Pyropanel AS-FRB-B/AS-FR-C acoustic doorset, nominally 55 mm thick consisting of Greenboard/plywood/steel.

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Fire Test Certificate

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 (Hebel 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 CLT plasterboard wall system 152 mm	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.
- Sill clearance up to 15 mm with edge strip not greater than 10 mm
- Optional steel reinforcing plate up to 2 mm thick, extending a maximum of 25 mm from the perimeter of the installed hardware may be added to one side of the door leaf. The plate may be optionally bonded with Pyropanel ADFACON fire rated contact adhesive, and through bolted to prevent hardware bolts from pulling through.

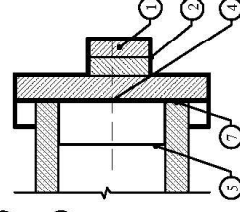
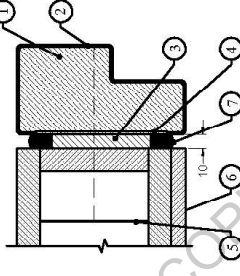
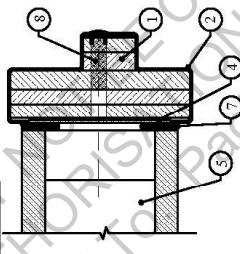
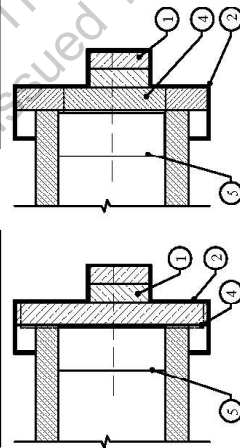
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Fire Test Certificate

Typical installation details with Pyropanel doorsets

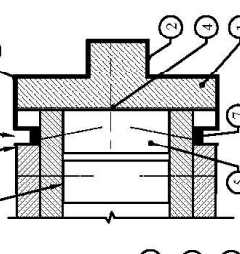
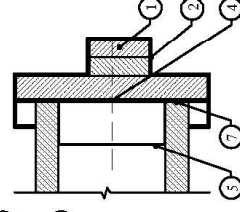
Plasterboard walls:

Saddle brackets/Tube fixings

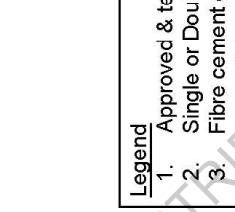
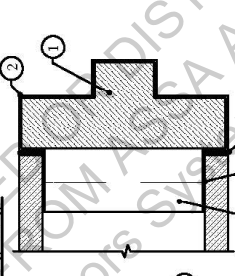
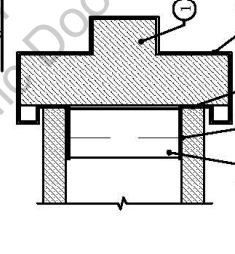
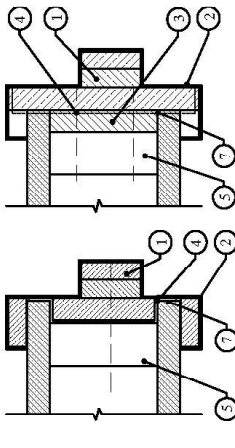


Additional stud for outer plasterboard layer fixing.

Strap fixings

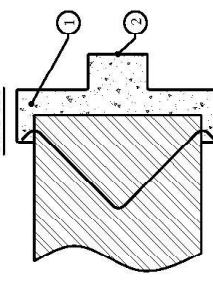


Flange/Wind fixings

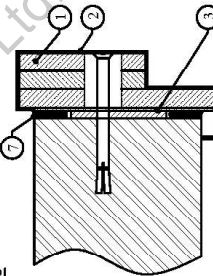
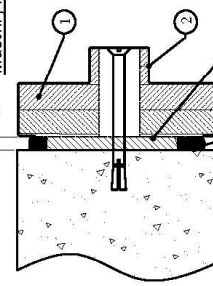


Masonry or Concrete walls:

Wire ties



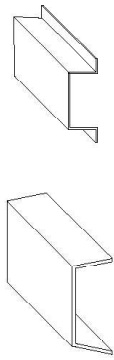
Masonry Anchors



Notes:

2 hr plasterboard walls require 2 layers of fire rated plasterboard each side of wall.
Lorient intumescent sealant or Pyropanel Pyropanel Pyropanel sealant to be used to seal any gaps between wall and frame.

Example of saddle bracket fixings:



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. Lorient intumescent sealant or Pyropanel Pyropanel sealant.
8. Rockwool plug in screw holes under plastic cap.

PYRO PANEL

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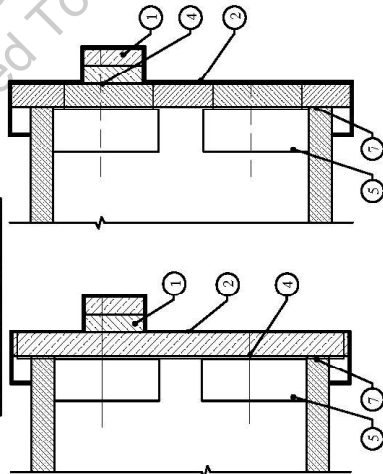
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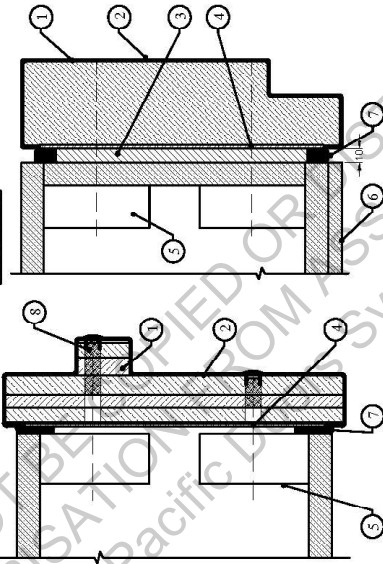
Typical installation details with Pyropanel doorsets

Double stud Plasterboard walls:

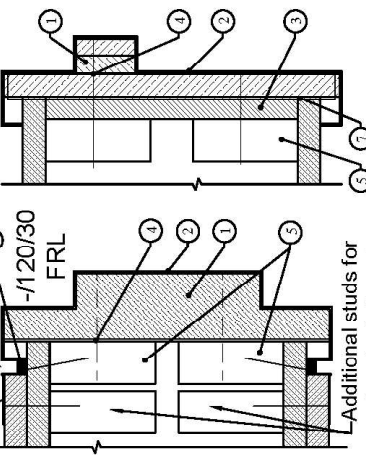
Saddle brackets/Tube fixings



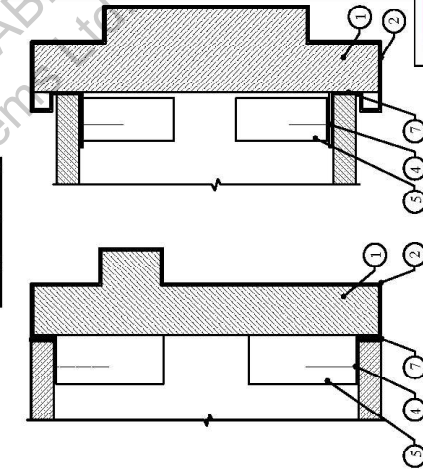
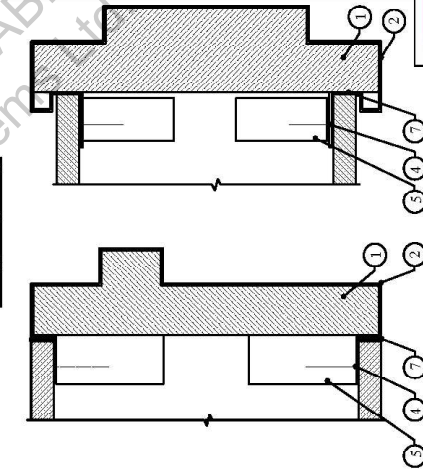
Strap fixings



P50 Shadowline



Flange/Wing fixings



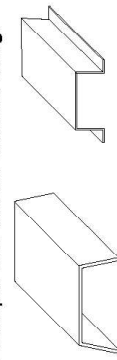
Notes:

2 hr walls require 2 layers of fire rated plasterboard each side of wall.
Lorient intumescent sealant or Pyropanel Pyropanel 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.
5. 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.
6. 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.
7. Studs (Timber or steel). Steel studs boxed. 0.55-0.75mm th. Optional wall lining.
8. Lorient intumescent sealant or Pyropanel Pyropanel sealant.
9. Rockwool plug in screw holes under plastic cap.

Example of a saddle bracket fixing:



PYROANEL

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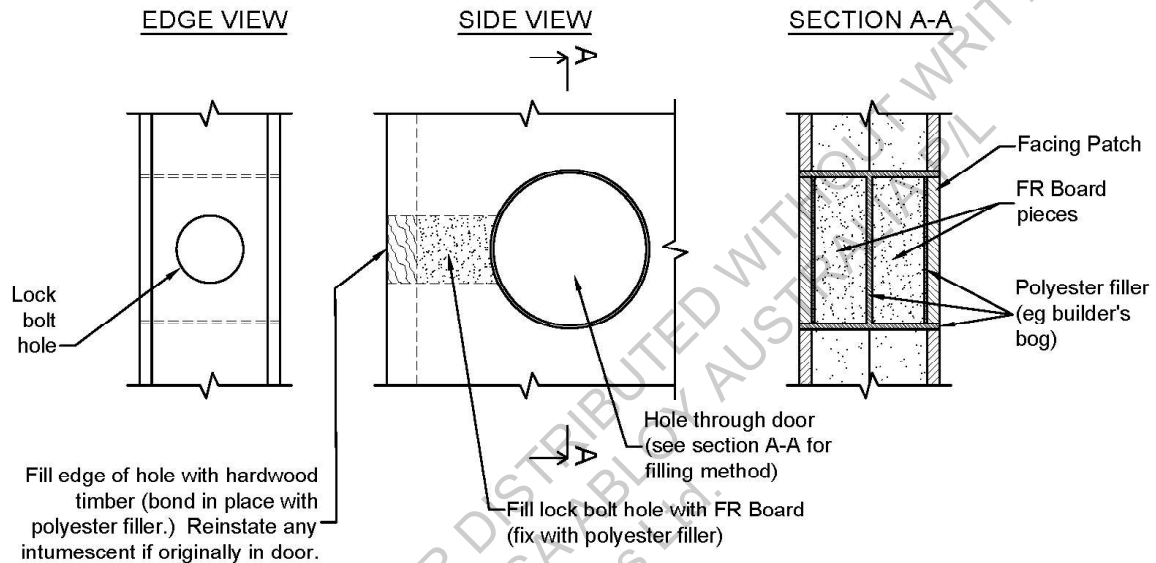
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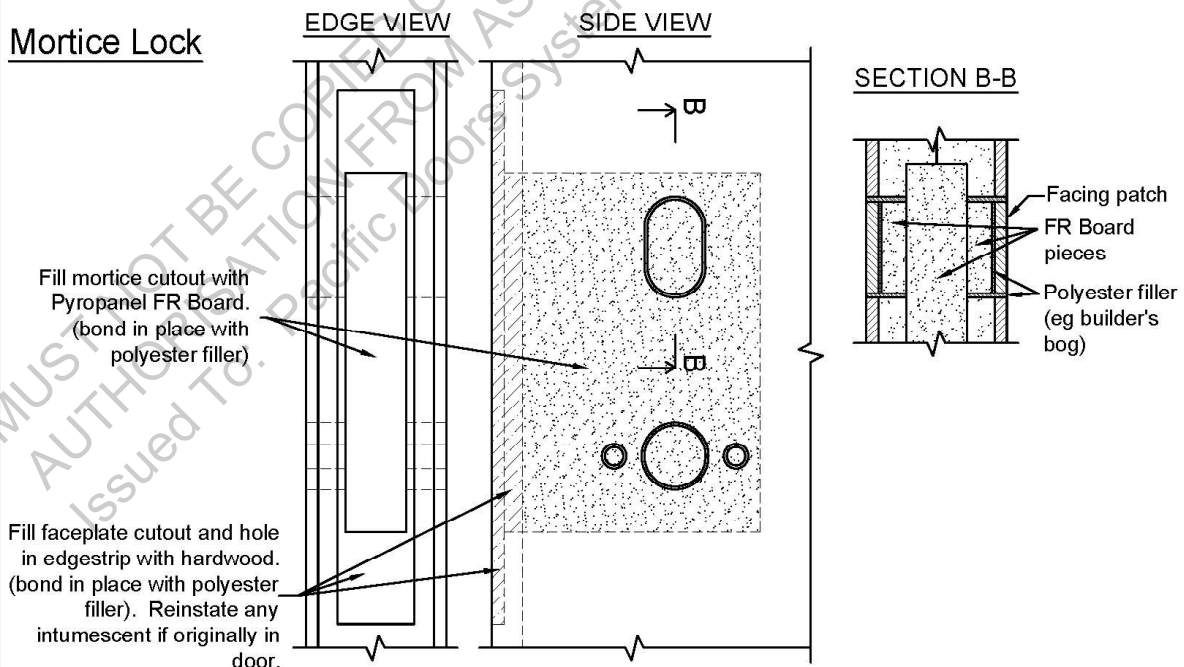
Fire Test Certificate

Filling holes in Pyropanel Fire Doors

Cylindrical/Tubular Lock



Mortice Lock



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PYRO PANEL

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