FireCrunch
Australian Certified Building Solutions

INSTALL STEPS
SINGLE STEEL FRAME FIRE WALL

FRL 60/60/60

1 x 10mm FireCrunch sheet each side of the frame

NATA Labs Australia Fire Tested Systems AS1530.4 and more

- FIRE PROOF
- FLOOD PROOF
- IMPACT RESISTANT
- TERMITE PROOF
- MOULD & BACTERIA PROOF

FIRE TESTED BY CSIRO / NATA AND OTHERS

NATA CERTIFIED NO METAL CORROSIVE CHLORIDE MgSO4 Sulphate Board

SUMMARY INSTALLATION
SINGLE STEEL FRAME FIRE WALL
FRL 60/60/60 ***
1 x 10mm FCA sheet each side of frame (DTS, BCA, NATA Labs tested)

IMPORTANT NOTE - NEW NCC 2025

External walls, cavity moisture battens and thermal bridging (not shown in illustrations) See part 10.8.1 NCC 2025 (FCA Warranty).

What You Need

1. Cold roll formed steel 92mm x 45mm framing, available major steel suppliers shelf stock items.
2. Steel gauge 1.0 BMT 300 or 0.95 BMT using 550 density steel.
3. Steel self countersunk steel penetration winged screw fixings - see *Technical Specifications* web site.
4. R2.5 Glass wool batts.
5. AS1530.4 Fire/weather sealant - see *Recommended Products* web site.
6. FireCrunch sheets available 24/12, 27/12 and 30/12 and width all 1200mm.

Steps

1. Assemble the steel framing max. stud centres 400mm (1200mm wide boards).
2. Insert the 90mm thick R2.5 standard glass wool batts into the frame cavity.
3. Gun 3 beads (2/3mm) thick recommended fire sealant down the vertical where the joints meet and all the external perimeters of the frame.
4. Start board 10mm assembly (vertically from left side of side one) 1.2m wide sheets. Screw fix to studs and nogs at 200mm centres (do not assemble horizontally as fire joints will fail). Exterior wall base connection use metal U-Track and fire seal the fit.
5. Continue to assemble linear to right, leaving a 6mm fire sealant gap between boards. A 6mm “creep” over vertical stud face will occur and this should be allowed for every 1200mm in stud set points in setting up framing. Create 10mm expansion joint every 5 to 6m. DO NOT LEAVE 6mm gap on internal plaster set joints and use paper tape only for plaster set interiors.
   IMPORTANT: Use fire sealant on the stud face only for interiors only, not between the boards.
6. Gun fire sealant into the exterior side with the 6mm gap and tool down 2/3mm for exposed panel effect, creates visible joints between the sheets which can then be painted in suitable colours.

SEALER + UNDERCOAT + PAINTING OR RENDERING:

For both internal/external paint application. Failure to follow these procedures and use the specified products will void the warranty. See *Recommended Products* on web site.

STEP 1 Ensure all surfaces are clean and dry to max 10% sheet hydration.
STEP 2 Apply one coat of the ***recommended primer*.**
STEP 3 After the ***recommended primer*** is dry to manufacturer’s specification, apply the recommended **undercoat** for your finish top coat paint brand.
STEP 4 Apply two coats of **water-based acrylic paint.**

The ***Recommended Warranty Primer*** is available at major hardware stores (Bunnings, Mitre10)

DO NOT ALLOW FireCrunch boards to get WET or hydrate over 10% BEFORE sealing with primer.

NOTE: Load bearing timber walls may require a structural engineer’s confirmation as to load bearing weight in timber framing. Steel framing is already confirmed to FRL 90/90/90 with NATA CSIRO test, FCA SE 10mm products (55kN) load bearing 1.0 BMT.

*** The 1st figure is the *structural adequacy* of the load bearing frame, the 2nd figure is the *performance integrity* of the FCA cladding product, the 3rd figure is the *insulation capability* to control the temperature required to BCA level unexposed face for the applied period of the test. Load bearing requirements vary considerably; the load bearing providing the structural adequacy of the support flooring or wall framing is determined by the project’s structural engineer relating to the NATA Labs Time Temperature Curve shown in the fire test report. Not applicable in slab to slab construction.

PLASTER SET OF INTERNAL JOINTS ONLY
WARRANTY: Use fire sealant (PU based) showing AS1530.4 on the container pack. Use only Pro Plaster base Trades 40 and 4T Multi-Purpose topping compounds in plaster set work.