Fire Crunch AUSTRALIAN CERTIFIED BUILDING SOLUTIONS

SINGLE STEEL FRAMED **FIRE WALLS**

FRL 120/120/120

FireCrunch MgSO4, Fireproof Cladding Products

NATA Labs Australia Fire Tested Systems **AS1530.4** and more

T: 1300 933 102

Please email orders to sales@firecrunch.com.au

FIRE TESTED BY NATA / CSIRO & OTHERS

NATA CERTIFIED NO METAL CORROSIVE CHLORIDE MgSO4 Sulphate Board

STEEL FRAME **FIRE WALLS FRL 120/120/120**

FRL 120/120/120 (DTS, BCA, NATA LABS TESTED)

2 x 10mm FCA sheet each side of frame.

SUMMARY INSTALLATION,

STEEL FIRE WALLS **FRL 120/120/120**

WHAT YOU NEED :-

1• COLD ROLL FORMED STEEL 92mm x 45mm framing, available major steel suppliers shelf stock items.
2• Steel Gauge 1.15 BMT 300, or 0.95 BMT using 550 density steel.
3• Steel Self C/S steel penetration winged screw fixings see web site tech specs.
4• 90mm THICK , R 2.5 GLASSWOOL BATT.
5 • AS/ 1530.4 Fire / weather sealant web site Recommended Products.
6• FCA Sheets avail 24/12, 27/12 and 30/12 and WIDTH all 1200mm.

STEPS

1• ASSEMBLE THE STEEL FRAMING MAX STUD CENTRES 400mm.
2 • INSERT the 90mm thick R 2.5glass wool batts into the 90mm frame cavity.
3 • GUN 3 BEADS (2/3mm) thick Recc FIRE SEALANT down the vertical stud face where the joints meet and all the external perimeters of the frame.
4 • START BOARD 10mm ASSEMBLY(VERTICALLY SET) 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 in the joint. IMPORTANT -.THE 10mm SHEETS MUST HAVE JOINTS OFF SET 50mm, SO NOT ALLIGNED.
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 OR TOP HAT 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 use fire sealant on the stud face only on interiors, not between the boards.

6 •.Gun Fire sealant into the exterior side 6mm joints AND TOOL DOWN 2mm / 3mm for EXPOSED PANEL EFECT, creates visible joints between the sheets. CONTINUE TO ASSEMBLE LINEAR TO RIGHT, LEAVING A 6mm FIRE SEALANT GAP BETWEEN EACH BOARD A 6mm "CREEP" OVER VERTICAL STUD FACE WILL OCCUR AND THIS SHOULD BE ALLOWED FOR EVERY 1200mm IN STUD OR TOP HAT 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 INTERIOR. Use fire sealant on the stud face only on interiors, not between the boards. Gun Fire sealant into the exterior side 6mm joints and TOOL DOWN 2mm / 3mm for EXPOSED PANEL EFECT, creates visible joints between the sheets

SEALER + UNDERCOAT + PAINTING OR RENDERING :

FireCrunch is a fire and finish board which delivers a minimum class 4 finish. For paint application, (INTERNAL / EXTERNAL) (WARRANTY) first ensure surface is dust free and clean, seal with :

1st step : **AquaCrunch / KLAAS Si VAPOUR PERMEABLE sealer (interior and exteriors)** ,
2nd : you must then apply **Dulux Precision MAX ADHESION undercoat,** then apply
3rd STEP : **Dulux** paints or texture top coats.

AquaCrunch / KLAAS Si VP sealer primer is obtainable on order from FireCrunch Australia. A Top Class 4 /5 commercial finish is then obtained. https://www.firecrunch.com.au/recommended-products/**DO NOT ALLOW FIRECRUNCH Boards to get WET or Hydrate over 10% BEFORE Sealing with AquaCrunch Sealant..**

- Fire sealant , use Bostik Fire Ban or any (PU) AS1530.4 fire sealant see website firecrunch.com.au/ recommended-products

NOTE: Load bearing timber walls may require a structural engineers confirmation as to load bearing weight in Timber framing.
Steel framing is already confirmed to FRL 90/90/90 WITH NATA CSIRO TEST, FCA SE10mm PRODUCTS (55kN).load bearing 1.15BMT

******NOTE:**
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. A load bearing requirements vary considerably the load bearing providing the structural adequacy of the SUPPORT FLOORING or WALL FRAMING is determined by the projects structural engineer RELATING TO THE NATA Labs THE TIME TEMPERATURE CURVE shown in the fire test report. Not applicable in slab to slab construction.

Plaster set of internal joints only
WARRANTY NOTE: USE FIRE SEALANT (PU BASED) SHOWING AS 1530.4 ON THE CONTAINER PACK. USE ONLY **PRO PLASTER BASE COMPOUNDS PRO BASE 40 AND 4 T TOPPINGS IN PLASTER SET WORK • WARRANTY NOTE: USE FIRE SEALANT (PU BASED) SHOWING AS 1530.4 ON THE CONTAINER PACK.**

FIRE TESTED BY CSIRO / BCA

firecrunch.com.au