

2020 INSTRUCTIONS Manual for FireCrunch (Boards) :Plaster joint setting and Painting

Attn: **PLASTER SETTING INSTALLERS THIS IS FOR YOU** ,Warranty provisions using FIRECRUNCH (FCA)

Read CAREFULLY before commencing....

Plaster joint setting using FireCrunch. FCA products are slightly different in procedures, plaster compound products are warranted by Pro Plaster QLD, who have tested the FCA product with it's compounds . FCA does not warrant any other manufacturers compound products .

Installers must ensure they proceed exactly to the Pro Plaster manufacturers instructions . See: proplaster.com.au for supply outlets in Australia FCA warrants the FireCrunch product tested in in fire and other specified areas of the FCA material capability, see<https://firecrunch.com.au/recommended-products/> and <https://firecrunch.com.au/technical-specifications/>

- 1• You can use other brands of compounds and toppings, however for their own commercial interests BORAL, GYPROCK ,CSR, KNAUF ,BGC and other plasterboard manufacturers, will only warrant their own SETTING COMPOUNDS with THEIR OWN supplied plaster board. Fiba Fuse and similar taping products can be used externally, please carefully check manufacturers instructions before use and only use and only use paper tape internally.
- 2• **IMPORTANT NOTE** ,Internal plaster set joints ,DO NOT, leave a 6mm fire sealant gap between INTERIOR set FCA boards. If you are also the FCA board installer, gun 3 beads of fire sealant down the internal wall stud joint face only, press boards on to sealant and screw fix min 12mm from edge and at 200 mm centres leaving only a 1 mm sealant pressured gap between boards, screw fix as to WEB site instruction manuals, firecrunch.com.au/technicalspecification.com.au/
Use other normal plaster set compound standard procedures . FIRE SEAL ALL PERIMETERS AND EDGES, after fixing the boards, use approved AS1530.4 FIRE / WATER SEALANT, BOSTIK FIRE BAN, TREMstop PU or Sikka products, firecrunch.com.au/recommendedproducts/
- 3• **NOTE:** IF BOARDS HAVE ALREADY BEEN INSTALLED BY OTHERS AND DO NOT MEET THE ABOVE FIRECRUNCH INSTALL SPECIFICATION, THEY WILL HAVE TO BE REMOVED RESET TO SPECIFICATION BEFORE SETTING PLASTER JOINTS, or FCA warranty will be voided.
- 4• Set expansion joints at minimum 4 / 5 meter intervals, and over and around doors and window areas, in good industry practice.
- 5• **IMPORTANT PRE COMMENCEMENT PROCEDURE PLASTER SETTING.** Ensure that the recessed edge AREA of FireCrunch board is **WELL PRE SOAKED with a wet sponge**, on warm days over 23 deg C , prior to applying the first coat of compound and tape, as FireCrunch is more absorbent than plaster board and the compound moisture may be absorbed before the joint is set cured and set THAT IS WHY A THE SHORTER SET TIME PRO PLASTER TRADES 40 COMPOUND IS USED.
- 6• USE (PRO PLASTER TRADES 40 ONLY) with 40 minutes FASTER set time base compound, EMBED with paper tape internally , 2nd coat screed out to 150 mm per side, or your experienced considered distance. **Use PRO PLASTER 4 T fine topping and** feathering out to 250mm for even flush finish. (Observe Mfg mixing and user Instructions).
- 7• **PRIMING AND PAINTING** FireCrunch is a fire and finish board which delivers a minimum class 4 finish. For paint application, (INTERNAL / EXTERNAL) (WARRANTY) first seal with KLAAS S1 VAPOUR PERMEABLE Primer sealer , you can then apply water based paint or texture top coats, obtainable on order from FireCrunch Australia. Once sealed you can use optional KLASS FINISH PRODUCTS ,or regular water based paints to finish as usual . A Top Class 4 /5 commercial finish is then obtained.
<https://www.firecrunch.com.au/recommended-products/>
- 8• FCA 10mm CAN BE DEEP SCORE SNAPPED. When cutting, USE BENCH SAW, use regular timber fine tooth cutting blades and a power dust extractor at blade ,always wear a mask.
- 9• Non carcinomas ,see Safety Data Sheet (SDS) web site firecrunch.com.au/technical-specifications/
- 10• See general technical manual for screws and fixings www.firecrunch.com.au-technical-specifications

INSTRUCTIONS:
: Plaster joint setting
and Painting

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NOTE: FCA ref, is FireCrunch Australia

CALL TODAY **1300 933 102**

sales@firecrunch.com.au



firecrunch.com.au



SINGLE TIMBER FRAMED FIRE WALLS FRL 60/60/60

SINGLE FRAME TIMBER FIRE WALL FRL 30/30/30 TO 60/60/60

NOTE: LOAD BEARING COMMENT BELOW ****

SUMMARY INSTALLATION,

SINGLE TIMBER FRAME FIRE WALL (INTERNAL & EXTERNAL)

WHAT YOU NEED :-

- 1 • TIMBER FRAMING MGP10 OR SIMILAR .90mm x 45mm
- 2 • Steel Self C/S TIMBER PENETRATION NEEDLE POINT screw fixings (see web site "Tech Specs")
firecrunch.com.au/technical-specifications/
- 3 • Steel, Self C/S corrosion proof steel penetration bugle head, for fixings see web site tech specs
- 4 • R 2.5 Glass Wool batts Bradford/ CSR or similar (R 2.5 minimum)
- 5 • AS/ 1530.4 Fire / weather sealant see web site Recommended Products
- 6 • FCA SHEETS 24/12, 27/12 and 30/12 , width all 1200mm.

STEPS

- 1 • ASSEMBLE THE TIMBER FRAMING FRAMING MAX STUD CENTRES 400mm allow for 6mm fire seal gap creep on linear 1200 assembly
- 2 • INSERT THE 90mm R2.5 FIRE BATTS, INTO THE FRAME CAVITY
- 3 • GUN 3 BEADS 2/3mm THICK BEADS FIRE SEALANT DOWN THE STUD FACE WHERE THE BOARD JOINTS MEET.
- 4 • START BOARD 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).
- 5 • CONTINUE TO ASSEMBLE LINEAR TO RIGHT, LEAVING A 6mm FIRE SEALANT GAP BETWEEN BOARDS. GUN FIRE SEALANT INTO 6mm GAP AND TOOL DOWN 2/3mm FOR SHADOW LINE PANEL JOINT EFFECT.
SEAL THE external surface only WITH ONE COAT OF KLAAS S1 Primer sealer .

PRIMING AND PAINTING

PRIMER SEALER (See web site recommend ed support products)

FireCrunch Board MUST be :Pre primed and Sealed, use **KLAAS S1 VAPOUR PERMEABLE sealer** for **interior and exteriors** Then paint or texture paint with water based finish coats for supply.

Use **KLAAS S 1 Primer sealer**. For fire sealant, use Bostik Fire Ban or any (PU) AS1530.4 fire sealant see website firecrunch.com.au/recommended-products/ . RENDERS follow manufacturers instructions afer **priming with Klaas S 1**

NOTE. ****

Load bearing rating (1st figure of FRL) IN TIMBER ONLY must be assessed by a structural engineer as all support framing and types vary. The FCA product in 10mm has a PRODUCT integrity and insulation of 60 minutes using steel or timber framing and will not allow fire pass during that max period on a SINGLE 90mm x 45mm steel frame 1.15 BMT AND 90 MINUTES MGP 10 timber DOUBLE stud Discontinuous Frame /NATA / CSIRO and Res Labs QLD See general technical manual web site for corrosion proof for screw types and lengths scale.



DOUBLE STUD DISCONTINUOUS FRAME FIRE WALLS FRL 90/90/90

DOUBLE STUD "DISCONTINUOUS" TIMBER FRAME ACOUSTIC RATED RW62 INTER TENANCY OR PARTY WALL

FIRE WALL UP TO FRL 90/90/90

(TOTAL WALL WIDTH ONLY 220mm)

NOTE: LOAD BEARING COMMENT BELOW ****

SUMMARY INSTALLATION,

DOUBLE FRAME TIMBER FIRE WALL (INTERNAL & EXTERNAL)

WHAT YOU NEED :-

- 1 • 90mm x 45mm TIMBER FRAMING MGP 10 OR SIMILAR .
- 2 • Self C/S RIBBED HEAD BUGLE Timber penetration, needle point screw fixings (see web site)
firecrunch.com.au/technical-specifications/
- 3 • Steel Self C/S steel penetration winged screw fixings see web site tech specs
- 4 • R 2.5 Glass Wool batts Bradford/ CSR or similar (R 2.5 minimum)
- 5 • AS/ 1530.4 Fire / weather sealant web site firecrunch.com.au/recommended-products/
- 6 • FireCrunch sheets 24/12, 27/12 and 30/12 and WIDTH all 1200mm.

STEPS

- 1 • ASSEMBLE THE TIMBER FRAMING FRAMING .MAX STUD CENTRES 400mm 3 x PER 1200 WIDTH SHEET AVOID 300mm RUN OFF ON 450mm studs. Allow for 6mm gap creep ea.1200mm sheet for fire seal gap.
- 2 • INSERT THE R2.5 FIRE BATTS TO THE FRAME CAVITY .
- 3 • GUN 3 BEADS 2/3mm THICK FIRE SEALANT DOWN THE STUD FACES WHERE THE JOINTS MEET.
- 4 • START BOARD ASSEMBLY VERTICALLY FROM LEFT SIDE OF SIDEONE, 1200mm WIDE SHEETS . SCREW FIX TO STUDS AND NOGS AT 200mm CENTRES (DO NOT ASSEMBLE HORIZONTALLY AS FIRE JOINTS WILL FAIL !!) (Leave 10mm expansion joints each 5m to 6m).
- 5 • CONTINUE TO ASSEMBLE LINEAR TO RIGHT, LEAVING A 6mm FIRE SEALANT GAP BETWEEN BOARDS. (EXTERNAL ONLY) ALLOW 6mm "CREEP" OVER LINEAR EACH 1200mm on 45mm STUD WIDTH SEE , PLASTER BOARD AND PAINT SUMMARY ABOVE AND FOR INTERNAL FLUSHED JOINT PROCEDURES **YOU DO NOT LEAVE ANY 6mm FIRE SEAL GAPS on internal set boards (6mm GAPS EXTERNAL WALLS ONLY).**

PRIMING AND PAINTING

PRIMER SEALER (See web site recommended support products)

FireCrunch Board MUST be :Pre primed and Sealed, use KLAAS S 1 primer sealer for interior and exteriors. Then paint or texture paint with water based finish coats for supply. (warranty) . **Fire sealant** , use Bostik Fire Ban or any (PU) AS1530.4 fire sealant see website [firecrunch.com.au/ recommended-products](http://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).

******NOTE:** The 1st figure is the structural adequacy of the load bearing frame ,the 2nd figure is the PERFORMANCE INTEGRITY of the cladding product, the 3rd figure is the insulation capability to control the temperature required to BCA level for the applied period of the test. As 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.



SINGLE STEEL FRAMED FIRE WALLS FRL 60/60/60

STEEL FRAMED FIRE WALL

FRL 60/60/60 (DTS, BCA, NATA LABS TESTED)

1 x 10mm FCA SHEET EACH SIDE OF FRAME

SUMMARY INSTALLATION,

STEEL FIRE WALLS

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 • R 2.5 Glass wool.
- 5• AS/ 1530.4 Fire / weather sealant web site Recommended Products.
- 6 • FireCrunch 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 2.5 standard glasswool batts into the frame cavity.
- 3 • GUN 3 BEADS (2/3mm) thick Recc 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 use fire sealant on the stud face only for interiors ,not between the boards.
- 6 • Gun Fire sealant into the exterior side with the 6mm GAP AND TOOL DOWN 2mm / 3mm for EXPOSED PANEL EFFECT visible joints between the sheets.

PRIMING AND PAINTING

PRIMER SEALER (See web site recommended support products)

FireCrunch Board MUST be :Pre primed and Sealed, use KLAAS S 1 primer sealer for interior and exteriors .

Apply to face of board only then paint or texture paint with water based finish coats . FireCrunch will supply the primer sealer. For Fire sealant down stud faces ,and in (exterior only) 6mm board spacing gap, use Bostik Fire Ban or any (PU) AS1530.4 fire sealant see website . RENDERS check manufacturers instructions first.
firecrunch.com.au/recommended-products

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 Trades 40 AND 4 T TOPPINGS IN PLASTER SET WORK .

See install manuals web site for all other requirements, REQUEST COPY FCA WARRANTY support@firecrunch.com.au and proplaster.com.au



FIRE TESTED BY CSIRO / BCA

firecrunch.com.au



SINGLE STEEL FRAMED FIRE WALLS FRL 90/90/90

STEEL FRAMED FIRE WALL

FRL 90/90/90 (DTS, BCA, NATA LABS TESTED)

1 x 10mm FCA sheet each side of frame

SUMMARY INSTALLATION, STEEL FIRE WALLS

WHAT YOU NEED :-

- 1 • COLD ROLL FORMED STEEL 92mm x 45mm framing, available major steel suppliers shelf stock items.
- 2 • Steel Gauge 1.00 BMT 300 ,or 0.95 BMT using G 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 2.5 GLASS WOOL BATTs into the 90mm frame cavity.
- 3 • GUN 3 BEADS (2/3mm) thick Recc 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 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 INTERNAL PLASTER SET INTERIORS 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 EFFECT, creates visible joints between the sheets.

PRIMING AND PAINTING

PRIMER SEALER (See web site recommended support products)

FireCrunch Board MUST be :Pre primed and Sealed, using KLAAS S1 primer sealer for interior and exteriors

Then paint or texture paint with water based finish coats for supply. Use KLAAS S1 Primer Sealer

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

Call FCA 1300 933 102 RENDERS check manufacturers instructions before applying any primers

WARRANTY NOTE: USE ANY FIRE SEALANT (PU BASED) SHOWING AS 1530.4 ON THE CONTAINER PACK. USE ONLY PRO PLASTER BASE TRADES 40 COMPOUNDS AND 4 T TOPPINGS IN PLASTER SET WORK . see install manuals web site for all other requirements, REQUEST COPY FCA WARRANTY support@firecrunch.com.au



FIRE TESTED BY CSIRO / BCA

firecrunch.com.au



SINGLE STEEL / TIMBER FRAMED **FIRE WALLS FRL 120/120/120**

STEEL / TIMBER FRAMED FIRE WALL

FRL 120/120/120 (DTS, BCA, NATA LABS TESTED)
2 x 10mm FCA sheet each side of frame.

SUMMARY INSTALLATION, **STEEL FIRE WALLS**

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. 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.

FireCrunch Board MUST be sealed with KLAAS S 1 primer sealer to MFGS INSTRUCTIONS.THEN PAINT, or TEXTURE COAT WITH WATER BASED PAINTS. RENDER , FOLLOW MANUFACTURERS INSTRUCTIONS AS REQUIRED WARRANTY NOTE: USE ANY FIRE SEALANT (PU BASED) SHOWING AS/1530.4 ON THE PACK. USE ONLY PRO PLASTER BASE TRADES 40 COMPOUNDS AND 4 T TOPPINGS IN PLASTER SET WORK INTERNAL. See install manuals web site for all other requirements, REQUEST COPY FCA WARRANTY support@firecrunch.com.au www.proplaster.com.au



FIRE TESTED BY CSIRO / BCA

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