



FIRESTOP CENTRE

Authorised New Zealand Distributor
Ph (09) 483 4000 www.firestopcentre.co.nz

Protecta FR Board - Plasterboard or Rigid Wall C-Purlin Penetration (200mm and 400mm) 120 minute (pg 1 of 2)



Test Report PF23060 Page 5
FAS AS1530.4-2014 AS4072.1-2005

System/FPA Register ID# FC743

Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of C-purlin penetration in fire-rated wall
Construction	Wall comprised of steel or timber studs with 2 layers of 13mm fireboard each side (or equivalent thickness rigid wall)

Fire & Smoke Classification

Pattress-fitted 60mm 2-sided Protecta FR Board each side of wall with Protecta FR Acrylic sealant

200mm C-purlin (3-sided penetration seal)
FRR -/120/120

400mm C-purlin (4-sided penetration seal)
FRR -/120/60

Thermal rating for these systems will be determined by the thermal conductivity and position of the purlin. For further assistance on thermal ratings, contact Firestop Centre. Buildings with sprinklers or no combustible material within 300mm of the penetration do not require any thermal rating. (NZ Building Code C/AS2 - Clauses 4.4.5 and 2.3.13b)

Smoke-safe (<0.1m³/h smoke leakage at 200Pa)

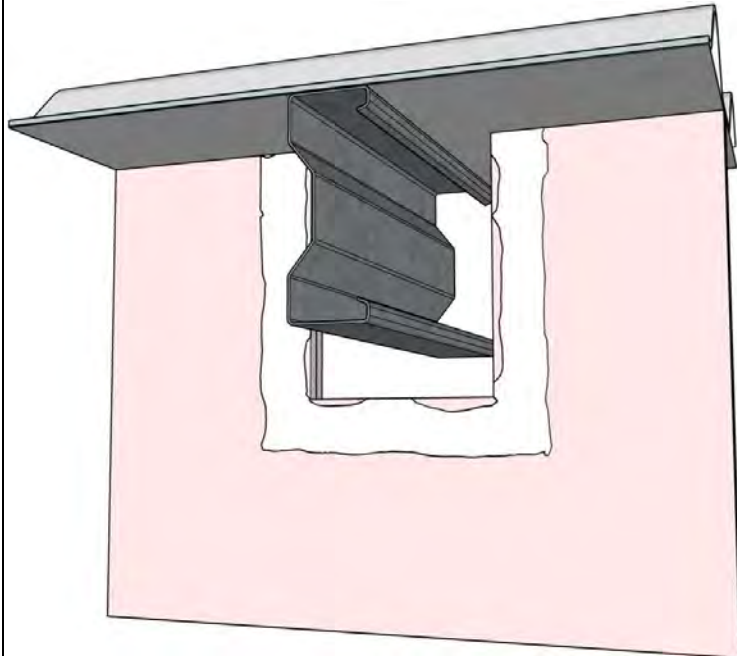


Protecta®

Sheet size:
A4

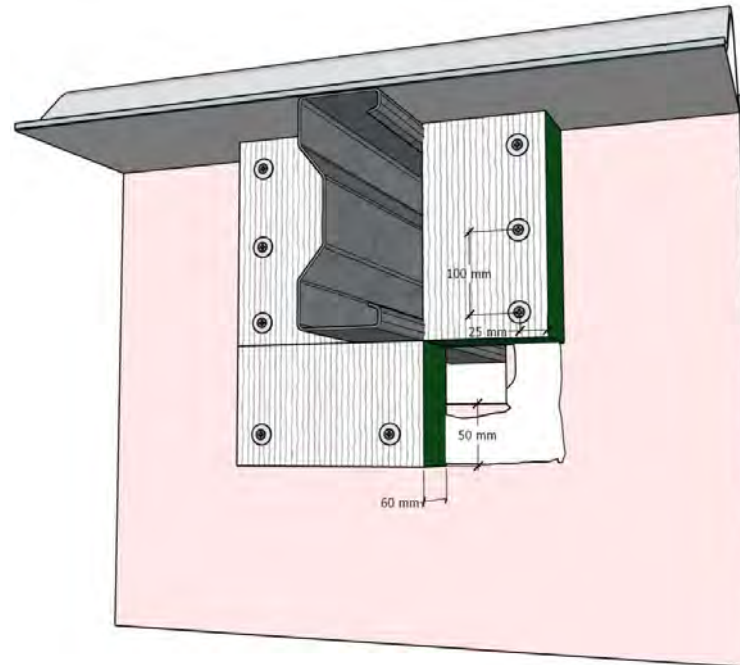
Drawn date & no:
20/4/23

Step 1 of 4 - apply FR Acrylic 50mm overlap to wall



1. Typical initial installation of a C-Purlin through a fire-rated wall with the purlin hard against soffit, showing cut-out area around purlin requiring fire-stopping.
2. Annular gap from purlin edges to wall should be 15 - 30mm.
3. The following steps must be applied to both sides of the wall.
4. Before installing Protecta® FR Board ensure that the surface is free from all loose contaminants, dust and grease.
5. Apply a thin coating of Protecta FR Acrylic to the wall 50mm around all sides which will aid adhesion of the FR Board.

Step 2 of 4 - add 60mm 2-S Protecta FR Board collar



1. Prepare one layer of 60mm 2-sided Protecta FR Board as a collar ensuring minimum 50mm overlap of the aperture. Joints may be vertical or horizontal. It is not necessary to follow small swage indentations less than 10mm - a straight cut is acceptable.
2. Press the collar firmly against the wall and tight against the purlin.
3. Fix the Protecta FR Board to the wall with 5mm x 100mm steel screws (timber, concrete, masonry or plasterboard depending on substrate) with steel penny washers at max 25mm from board edges and max 100mm centres.
4. Penetration may be three-sided as shown above or 4-sided if purlin is not hard against soffit. Four-sided system requires a collar section on top.



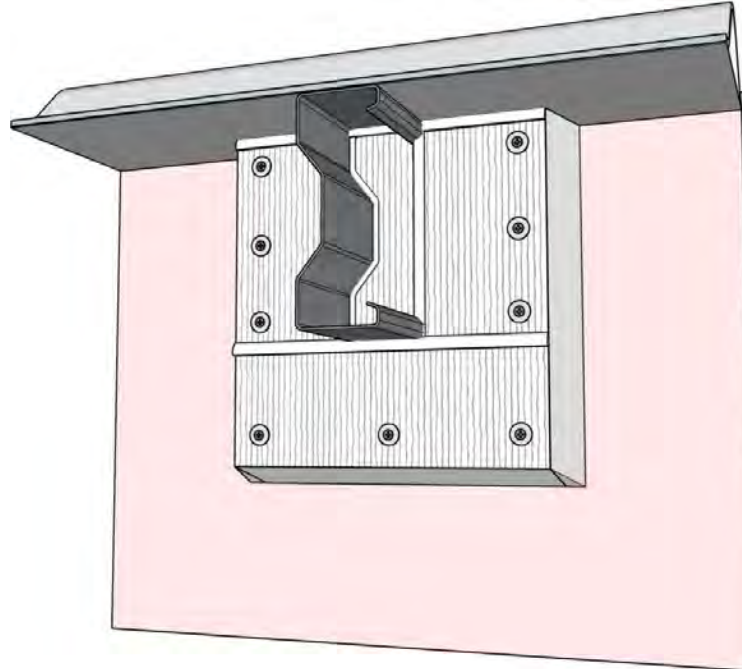
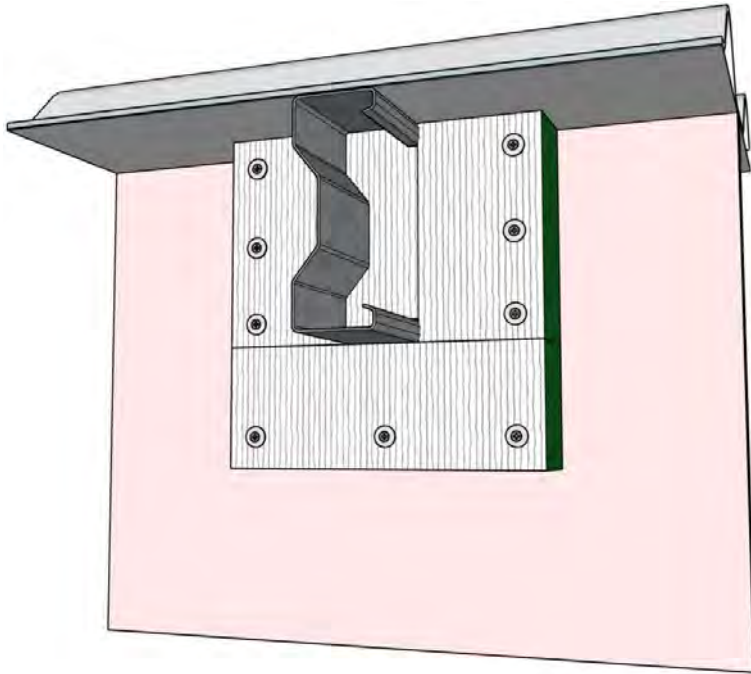
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Step 3 of 4 - insert Protecta FR Board webbing infill

Step 4 of 4 - finish with Protecta FR Acrylic sealant



1. Cut a section of Protecta FR Board to fit the interior of the purlin. It is not necessary to follow every small swage indentation of less than 10mm. Allow enough width to engage the lips of the purlin, as shown above.
2. Insert the infill at an angle and compression fit into the purlin by straightening against the purlin lips. This will help hold the infill firmly in place. Align flush with the wall mounted collar.

1. Finally, finish by applying Protecta FR Acrylic sealant to all joints and gaps.
2. Where the FR Board abuts tightly to the wall or purlin, apply a bead of sealant along the entire length of the joint.
3. Where there is a gap between the FR Board and the purlin apply sealant in the gap to a min depth of 25mm.
4. The exposed cut edges of the FR Board should be protected with a thin coating of Protecta FR Acrylic.
5. Repeat the above steps on the other side of the wall.

FireTS Lab

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