



FIRESTOP CENTRE

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

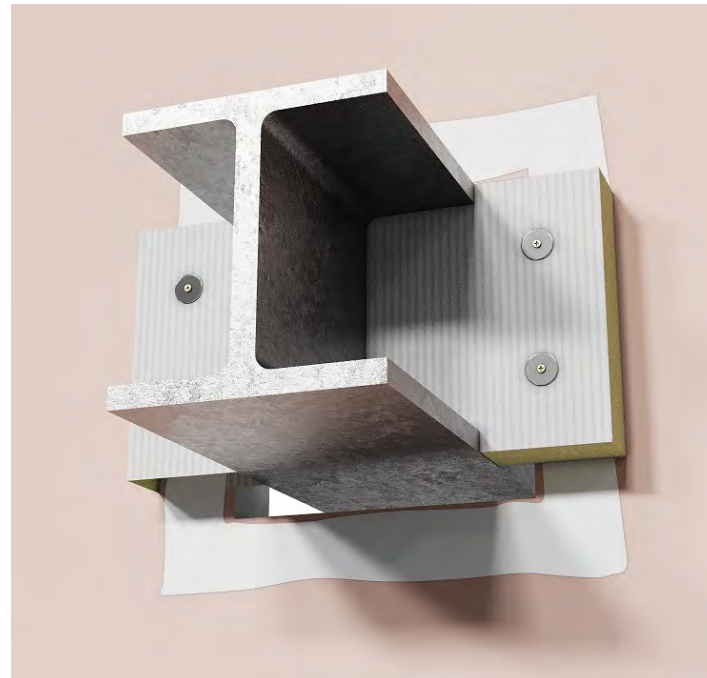
Protecta FR Board - Plasterboard or Rigid Wall I-Beam Penetration 120minute (pg 1 of 2)

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



1. Typical initial installation of an I-Beam through a fire-rated plasterboard showing cut-out area around beam requiring fire-stopping.
2. Minimum annular gap from beam edge to wall should be 15-35mm.
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 shown above to fit each side of the beam from the web face to minimum 50mm overlap of the aperture. The fit does not need to be exact - gaps of 10mm are acceptable.
2. Press the FR Board firmly against the wall and tight against the beam.
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 four-sided as shown above or 3-sided if beam is hard against soffit.

FireTS Lab

FAS AS1530.4-2014 AS4072.1-2005

System/FPA Register ID# FC783

Products Protecta FR Board
Protecta FR Acrylic
Firestop Thermal Wrap (optional)

Application Fire stopping of I-beam 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

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

250mm I-beam (3-sided penetration seal with wrap) FRR -/120/120

250mm I-beam (4-sided penetration seal without wrap) FRR -/120/90

Thermal rating for these systems will be determined by the thermal conductivity and position of the beam. 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 2.3.13(b) and 4.4.5]

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



Protecta®

Sheet size:
A4

Drawn date & no:
20/4/23

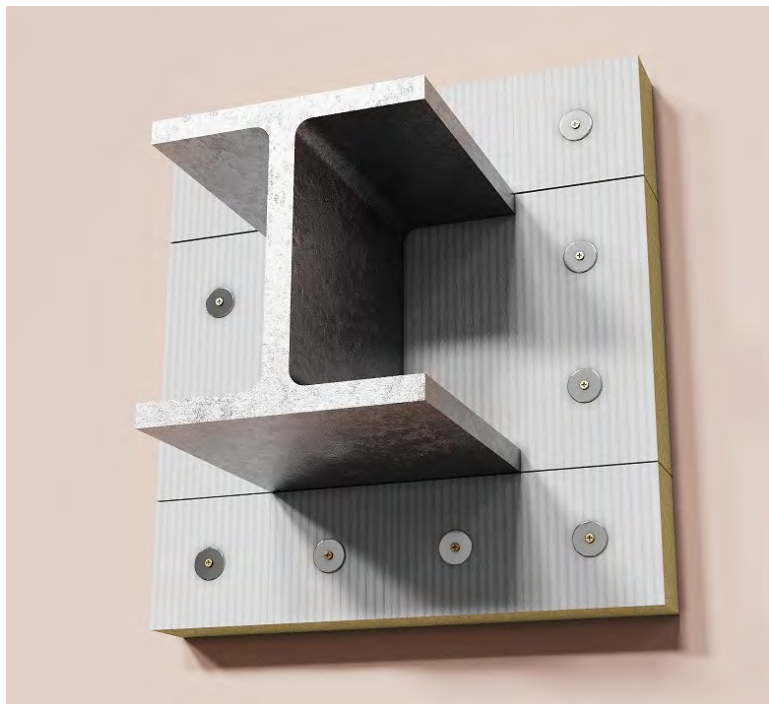


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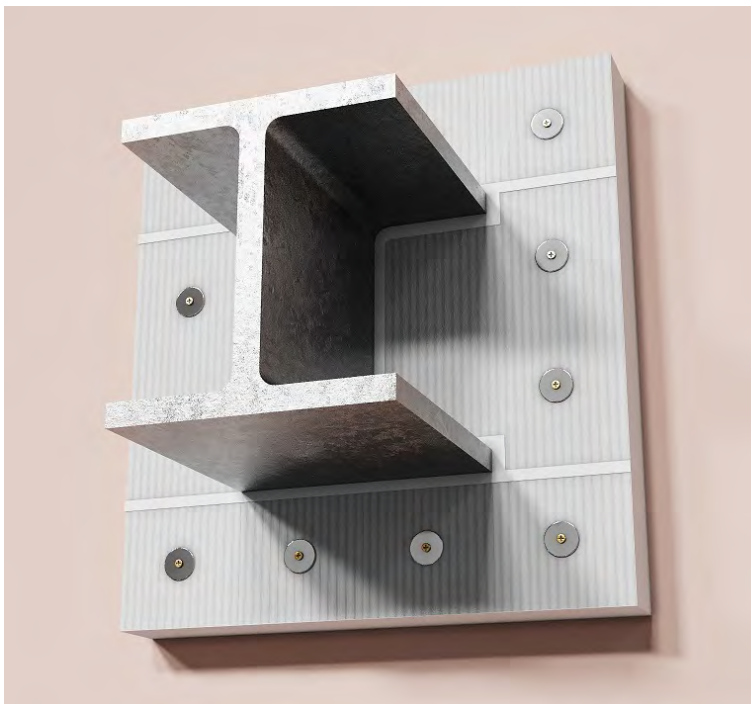
Protecta FR Board - Plasterboard or Rigid Wall I-Beam Penetration 120minute (pg 2 of 2)

Step 3 of 4 - Complete Protecta FR Board collar



1. Cut a section of Protecta FR Board to form a bottom collar (and a top collar for a 4-sided seal) and fit tightly against the beam. Fix to the wall as per instructions on pg1.
2. Beam may be bare or wrapped with FIRESTOP Thermal Wrap for higher thermal ratings.
3. If wrapping is required, apply a 300mm wide strip of FIRESTOP Thermal Wrap attached with steel strips to the soffit (for 3-sided seals) or wrap the beam completely with an overlap of 75mm and fix with two FIRESTOP Stainless Steel Bands (for 4-sided seals).

Step 4 of 4 - finish with Protecta FR Acrylic sealant



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 beam, apply a bead of sealant along the entire length of the joint.
3. Where there is a gap between the FR Board and the beam apply sealant in the gap to a min depth of 25mm.
4. Completely fill any gap where the Wrap meets the FR Board.
5. The exposed cut edges of the FR Board should be protected with a thin coating of Protecta FR Acrylic.
6. Repeat the above steps on the other side of the wall.

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