

Promat

by etex

VERSION 2

FEBRUARY 2026

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STRUCTURAL PROTECTION

PROMATECT®-XS

Structural steel protection
from every angle.



High performing
fire protection
board with excellent
weather resistance
and fast installation.

**PROMATECT®-XS NOW
HAS BESPOKE JUNCTION
TESTING, FOR INTERFACES
BETWEEN ENCASEMENTS
AND PARTITIONS.**

Who are Etex?



Etex is the UK's leading provider of lightweight construction solutions. Our combined expertise in drywall, passive fire protection and firestopping has created a range of unique solutions from the building envelope to internal linings, partitions and penetrations.

Part of the Etex group

We are proud to be part of Etex, playing a key role in its mission to build living spaces that are ever safer, smarter, and more sustainable. This means that our customers benefit from the certainty and choice from working with a key global manufacturer of interior and exterior building solutions.



Our fire stopping range is now available via our sister company FSi under the joint branding of FSi Promat. FSi have over 25 years of specialist knowledge in fire stopping and offer a large range of both fire stopping and cavity barrier products and systems.

Visit FSitld.com to find out more.

“WE’RE COMMITTED TO MAKING SURE OUR CUSTOMERS’ PROJECTS BENEFIT FROM HIGH QUALITY FIRE PROTECTION PRODUCTS AND SYSTEMS THAT ARE TESTED, CERTIFIED AND TRUSTED. COMBINED WITH OUR COMMITTED TECHNICAL SUPPORT, WE ENABLE THE BUILDING OF EVER SAFER LIVING AND WORKING SPACES, AS WELL AS MORE SUSTAINABLE INDUSTRIES AND ENERGY SOURCES.

WE’RE EXTREMELY PROUD OF THE HARD-EARNED TRUST OUR CUSTOMERS HAVE IN US AND OUR SOLUTIONS.”

JOSH SLACK,
PROMAT COMMERCIAL DIRECTOR.



Siniat is one of the leading manufacturers of interior and exterior materials for drywall construction. We develop products and systems that help make your building warmer, dryer, quieter and safer to work and live in.

Our extensive range of boards and metal frame systems combine to create tailored, high performance cost effective solutions for any type of building construction.

Promat are fire protection specialists with a long track record of doing one thing well: keeping building contents and occupants safe when fire strikes. For over 60 years, we’ve been designing, testing, certifying and classifying passive fire protection systems.

That’s not just boards, but full system solutions for structures, ductwork, and critical infrastructure.

SINIAT ARE THE DRYLINING BACKBONE AND PROMAT HOLD THE LINE WHEN FIRE PROTECTION IS CRITICAL. BETWEEN US YOU GET MORE THAN JUST SUPPLY — WE DELIVER COMPREHENSIVE SUPPORT FROM EVERY ANGLE. TECHNICAL KNOW-HOW, TEST EVIDENCE, BEST-IN-CLASS SUPPORT FROM EARLY DESIGN ALL THE WAY THROUGH TO THE LAST DAY ON-SITE.

Why choose us?

Our fire testing culture

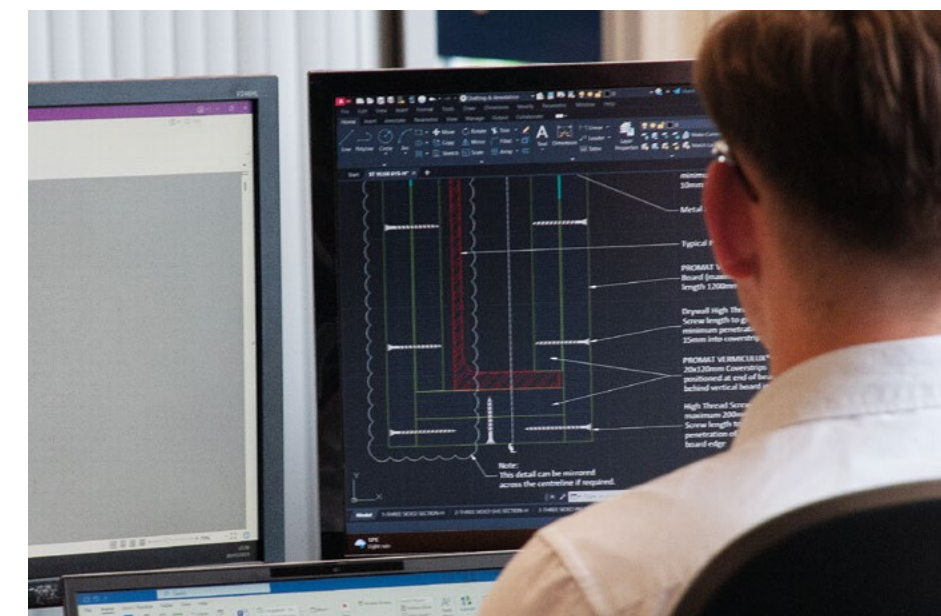
Our team of fire test engineers work with accredited laboratories to undertake an impressive program of global and local fire tests to ensure our systems perform at their best.

Our research and development

Our researchers constantly look for solutions to develop new, lightweight fire protection solutions that will help reduce our impact on the planet and contribute to the circular economy.

Our expertise

Our dedicated Technical Support team along with our extensive testing, classification and design support tools enable us to provide a superior level of support at every stage of your project.



WE GIVE YOU CONFIDENCE, SUPPORT, PROTECTION, FROM EVERY ANGLE. EVERY CUSTOMER TYPE, EVERY SECTOR, EVERY PROJECT. THIS IS NOT JUST A BOARD, OR A SYSTEM, WE SELL: IT’S ONE WE STAND BEHIND. FROM EVERY DIRECTION, EVEN WHEN IT’S MOST EXPOSED. PROTECTION FROM EVERY ANGLE.

Product Overview

PROMATECT®-XS is for use in structural steelwork protection systems with fire protection of up to 60 minutes and can be installed before the building is weathertight.

PROMATECT®-XS provides a clean, impact resistant finish and can be used where the fire protection system is in full view.

It offers the specifier a clean, boxed appearance. It is often a thinner solution in comparison with other fire-resistant constructions as it does not require sub-framing components, maximising useable space.

It can also accept a decorative finish and therefore be used where aesthetics are important.

UP TO 6 MONTHS WEATHER EXPOSURE*

*PROMATECT®-XS is resistant to the effects of moisture and will not physically deteriorate when used in damp and humid conditions. It can be installed up to 6 months before the building is weathertight. The board should not be subject to water run-off from slabs or other parts of the building. The board should not be in contact with standing water. Where the board is located on the perimeter of the building and sits proud of the building line, exposed surfaces should be given additional weather protection using a breather membrane.

FIRE RESISTANT



Classified A1 non-combustible to EN 13501-1.

MOULD RESISTANT



Resistant to the effects of moisture.

FLEXIBLE



No framing components required, maximising useable space.

DURABLE



PROMATECT®-XS will not degrade by age and has good impact strength.

EASY TO DECORATE



With a smooth, decorative finish.

PROMATECT®-XS is typically used:

- In any project where there is a requirement for up to 60 minutes fire protection
- In the early construction phase when the building is not weathertight
- Where space is limited, and speed of installation is important.



Design Benefits

Quick and easy installation

PROMATECT®-XS has been designed with ease of installation in mind.

- Easy installation with staple fixings and no glue or filler required
- Frameless installation for time, space and cost optimisation
- Thin board thickness needed for 60 minutes fire protection
- Can be installed during the early construction phase when the building is not weathertight*
- High quality surface finishing

*To protect from driving rain it is recommended that a bead of FSI Promat Pyrolastic® Silicone Sealant is applied at the cut edges after the boards are butted together and smoothed over the joint and exposed edge rather than applying between the edges and squeezing together.



Design Benefits

Fully EN tested and Classified

PROMATECT®-XS is used to provide 60 minutes fire protection to three or four sided encasements including:

- Universal columns and beams (I or H sections) and joists
- Beams supporting composite floors with profiled metal decking
- Structural hollow sections
- Partially exposed members
- Perimeter beams.

A fully EN fire tested solution which has been independently classified by Efectis UK/Ireland.

- Tested to EN 13381-4:2013
- Classified to EN 13501-2:2023
- Also tested for Integrity and Insulation to EN 1364-1
- Bespoke fire tests for interface of beams and columns to Siniat partitions.

THIRD PARTY CLASSIFICATION



Tested and Classified to EN Standards.

'REAL LIFE' TESTING



Bespoke testing completed for interfaces between encasements and partitions.

MAINTAINS COMPARTMENTATION



Additionally tested for fire integrity and insulation.



A thin solution for structural steel protection

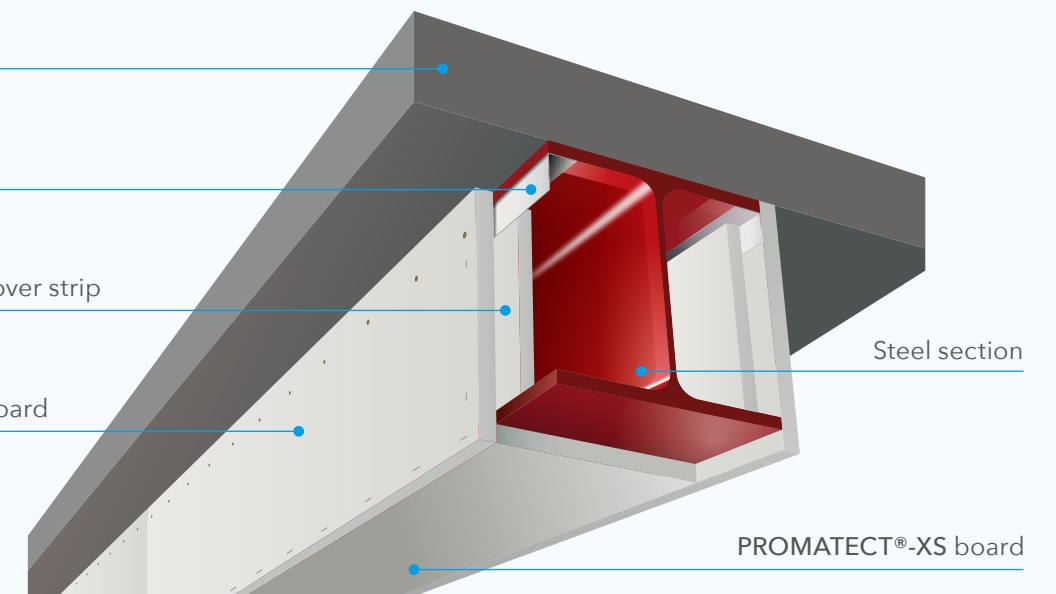
BEAM ENCASEMENT

Concrete structure

Siniat Metal Angle

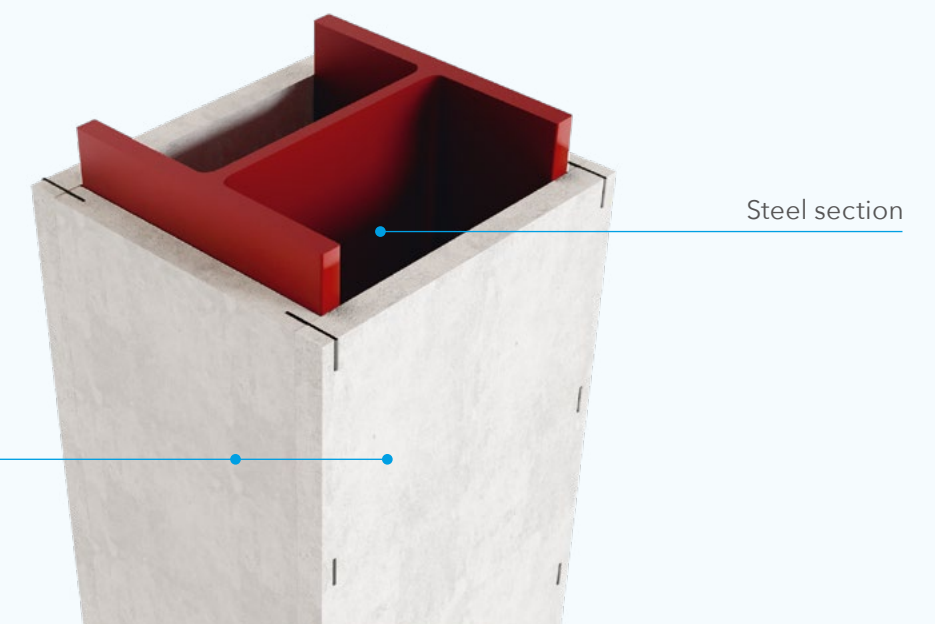
PROMATECT®-XS cover strip

PROMATECT®-XS board



COLUMN ENCASEMENT

PROMATECT®-XS board



PROMATECT®-XS has additional EN testing to EN 1364-1 for fire insulation and integrity and therefore fire compartmentation can be maintained where a structural element falls inline with the building's fire compartment walls and floors.

Where fire compartmentation is required as well as fire protection to the steel, fire insulation must be provided across the beam or column to the criteria of BS EN1363-1 (maintaining fire insulation to average temperature rise of 140°C, maximum temperature 180°C).

15mm thick PROMATECT®-XS on each side of the beam or column will maintain compartmentation for up to 60 minutes.

Insulation within encasements:

Low density (10-30kg/m³) glass mineral wool can be fitted if required for additional acoustic or thermal performance.

Fire/smoke-tight seal:

All boards abutting surrounding structure to be sealed using FSi PROMAT Pyrocoustic® Fire Resistant Sealant – Designed to seal any slight gaps at interfaces between the boards and the substrate, which have low movement requirements (±7.5%). Contains no solvents or halogen compounds.

Maximum board thickness:

PROMATECT®-XS is manufactured in 15mm and 20mm thicknesses and can only be applied in single layer arrangements.

Specifying PROMATECT®-XS

PROMATECT®-XS provides up to 60 minutes fire protection to structural steel. 15mm and 20mm thicknesses for ease and flexibility in specification.

SPECIFICATION IS BASED ON 4 FACTORS

1

THE SECTION FACTOR OF THE STEEL (A/V)*

2

WHETHER THE STEEL SECTION IS A BEAM OR A COLUMN

3

THE LIMITING TEMPERATURE FOR THE STEEL

4

THE FIRE PROTECTION PERIOD REQUIRED

As advised by the structural engineer or structural steel manufacturer.

PROMATECT®-XS IS FULLY TESTED AT LIMITING TEMPERATURES FROM 300°C TO 700°C.



SPECIFYING PROMATECT®-XS

FIRE PROTECTION THICKNESS - PROMATECT®-XS

30 MINUTE FIRE PROTECTION - TESTED TO EN 13381-4 AND CLASSIFIED TO EN 13501-2

PROMATECT®-XS - A/V RATIO FOR 30 MINUTE COLUMN ENCASEMENTS

		Limiting steel temperatures							
		300°C	350°C	400°C	450°C	500°C	550°C	600°C	700°C
BOARD THICKNESS	15mm	200	330	355	355	355	355	355	355
	20mm	210	340	355	355	355	355	355	355

PROMATECT®-XS - A/V RATIO FOR 30 MINUTE BEAM ENCASEMENTS

		Limiting steel temperatures							
		300°C	350°C	400°C	450°C	500°C	550°C	600°C	700°C
BOARD THICKNESS	15mm	250	351	351	351	351	351	351	351
	20mm	351	351	351	351	351	351	351	351

60 MINUTE FIRE PROTECTION - TESTED TO EN 13381-4 AND CLASSIFIED TO EN 13501-2

PROMATECT®-XS - A/V RATIO FOR 60 MINUTE COLUMN ENCASEMENTS

		Limiting steel temperatures							
		300°C	350°C	400°C	450°C	500°C	550°C	600°C	700°C
BOARD THICKNESS	15mm	50	70	90	110	140	170	210	250
	20mm	90	120	160	220	300	355	355	355

PROMATECT®-XS - A/V RATIO FOR 60 MINUTE BEAM ENCASEMENTS

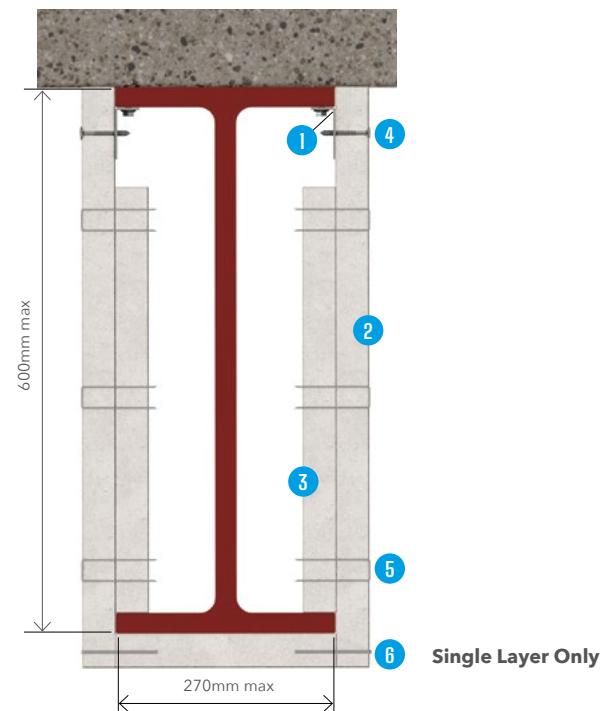
		Limiting steel temperatures							
		300°C	350°C	400°C	450°C	500°C	550°C	600°C	700°C
BOARD THICKNESS	15mm	50	70	90	120	150	200	260	340
	20mm	90	130	170	230	300	351	351	351

A/V RATIO FOR COLUMN AND BEAM ENCASEMENTS

*The section factor of the steel is based on the size of the steel and the number of sides exposed to the fire. The A/V ratios for steel sizes can be manually calculated or can be found in the Promat Passive Fire Protection Handbook (or the ASFP Yellow Book).

Design Guide

PROMATECT®-XS BEAM ENCASEMENTS 3-SIDED BEAM ENCASEMENT: TOP ANGLE FIX



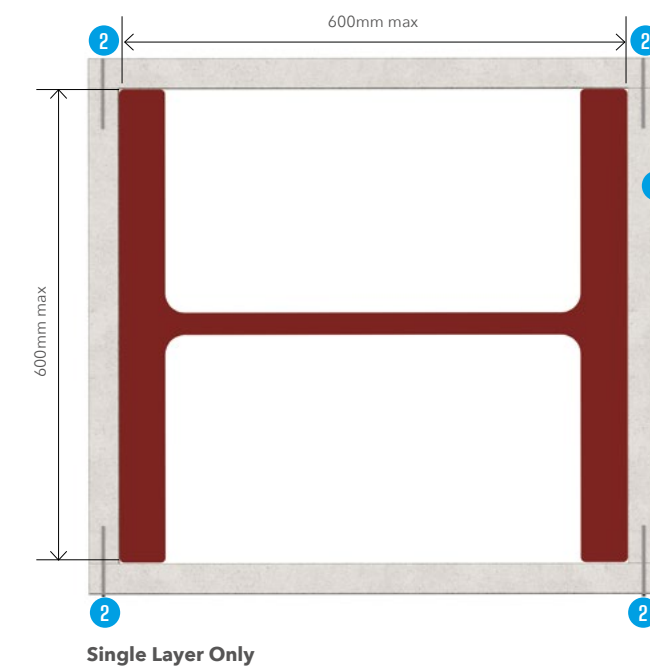
DETAIL 2.33

Instructions

Encasements are installed using metal angles fixed to the underside of the top steel flange.

1. Siniat Metal Angle 50 x 25 x 0.7mm. Metal Angle Fixing: 3.7mm x 16mm Shot-fire nails at maximum 300mm centres.
2. PROMATECT®-XS board, thickness determined by section factor (A/V), fire resistance period and limiting steel temperature. Maximum board length 1200mm. Board joints are coincident around the encasement.
3. PROMATECT®-XS coverstrip, fitted behind all vertical board joints, minimum 120mm wide.
4. Fixings to metal angles: Siniat 32mm Self-Tapping Screws at maximum 300mm centres.
5. Fixings to coverstrips: Chisel Point Staples minimum 35 x 10.5 x 1.45 x 1.30mm at maximum 100mm centres (50mm staples for 20mm board thickness). The end staples are located nominally 50mm from the corner of the board.
6. Fixings to Board Edge: Chisel Point Staples 35 x 10.5 x 1.45 x 1.30mm at maximum 100mm centres (50mm staples for 20mm board thickness). The end staples are located nominally 50mm from the corner of the board.

PROMATECT®-XS COLUMN ENCASEMENTS 4-SIDED COLUMN ENCASEMENT: FRAMELESS FIX



DETAIL 2.34

Instructions

Encasements are installed by edge fixing the boards around the column (Frameless).

1. PROMATECT®-XS board, thickness determined by section factor (A/V), fire resistance period and limiting steel temperature. Board joints are staggered by 500mm minimum on adjacent faces.
2. Fixings to Board Edge: Chisel Point Staples minimum 35 x 10.5 x 1.45 x 1.30mm at maximum 100mm centres (50mm staples for 20mm board thickness). The end staples are located nominally 50mm from the corner of the board.

Design Guide

PROMATECT®-XS Interfaces

BEAM ENCASEMENT CANTILEVER ALLOWANCE TABLES

Tested & warrantied Promat and Siniat interface details.

Standard fire tests often overlook how steel encasements and partitions connect, leaving junctions unprotected.

That's why Siniat and Promat have gone further, carrying out bespoke fire tests on partitions and encased beam and column interfaces, based on EN 1364-1:2015.

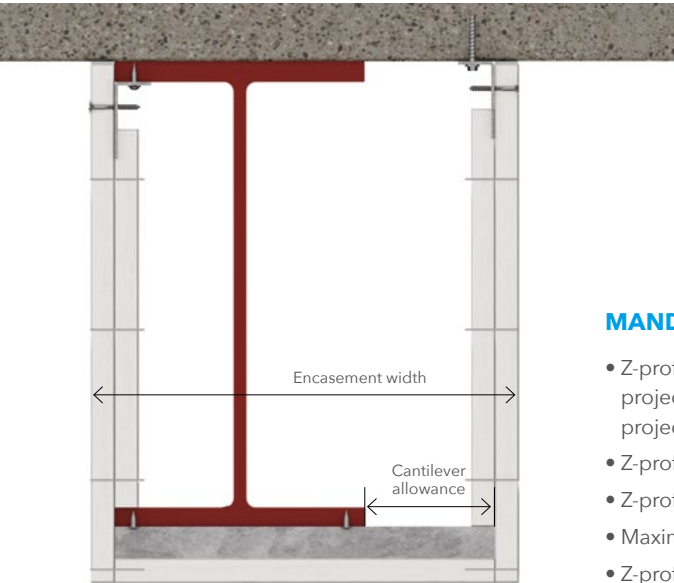
When specified by our Architectural Specification Managers and built to our guidance, these tested solutions are backed by the ETEX BP warranty.

PROMATECT®-XS INTERFACES

Z PROFILE CANTILEVER ALLOWANCE USING PROMATECT®-XS 15MM BOARD

The tables below show a non-exhaustive list of typical I-Beams

Beam flange width < 182mm			
Universal beams serial size (mm x mm x kg/m)	Flange width (mm)	Cantilever allowance (mm)	Maximum encasement width (mm)
127x76x13	76	99	205
152x89x16	89	115	234
178x102x23	102	132	264
203x102x23	102	132	264
203x133x25	133	173	336
254x102x28	102	133	265
254x146x31	146	190	366
305x102x33	102	133	266
305x165x40	165	215	410
356x171x45	171	222	424
406x178x60	178	231	439
457x152x52	152	198	381
533x165x66	165	215	410
Beam flange width > 182mm			
Universal beams serial size (mm x mm x kg/m)	Flange width (mm)	Cantilever allowance (mm)	Maximum encasement width (mm)
457x191x82	191	229	450
533x210x101	210	210	450



MANDATORY CRITERIA TO FOLLOW

- Z-profiles must be approved by the relevant project authority to ensure suitable design e.g. project structural engineer.
- Z-profile gauge no less than 1.2mm.
- Z-profile height no less than 25mm.
- Maximum beam encasement width 450mm.
- Z-profile must remain inside the encasement.

PROMATECT®-XS INTERFACES

Z PROFILE CANTILEVER ALLOWANCE USING PROMATECT®-XS 20MM BOARD

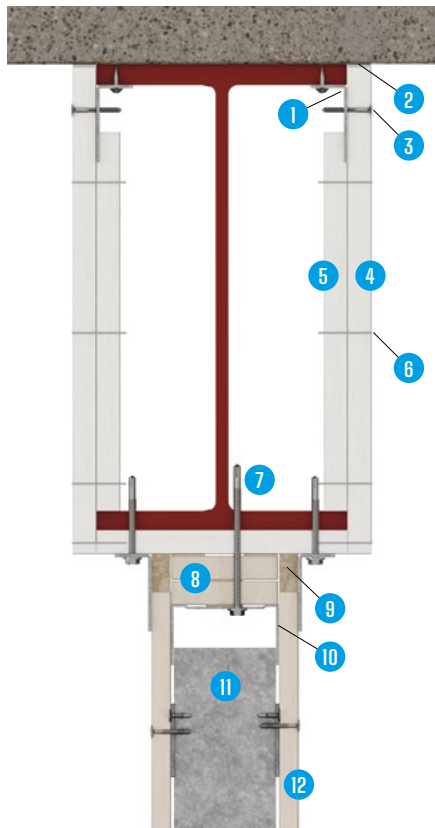
The tables below show a non-exhaustive list of typical I-Beams

Beam flange width ≤ 178mm			
Universal beams serial size (mm x mm x kg/m)	Steel Flange width (mm)	Cantilever allowance (mm)	Maximum encasement width (mm)
127x76x13	76	99	215
152x89x16	89	115	244
178x102x23	102	132	274
203x102x23	102	132	274
203x133x25	133	173	346
254x102x28	102	133	275
254x146x31	146	190	376
305x102x33	102	133	276
305x165x40	165	215	420
356x171x45	171	222	434
406x178x60	178	231	449
457x152x52	152	198	391
533x165x66	165	215	420
Beam flange width > 178mm			
Universal beams serial size (mm x mm x kg/m)	Flange width (mm)	Cantilever allowance (mm)	Maximum encasement width (mm)
457x191x82	191	219	450
533x210x101	210	200	450

Design Guide

PROMATECT®-XS INTERFACES 3-SIDED BEAM ENCASEMENT WITH SINIAT PARTITION

DIRECT FIX



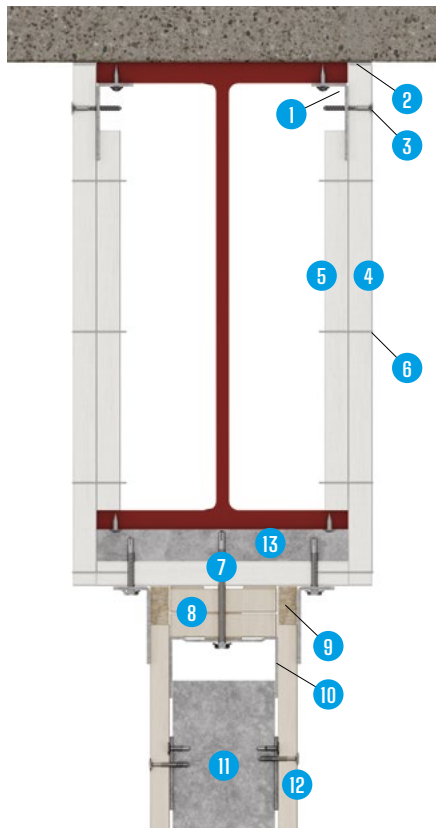
DETAIL ST PXS -114

Instructions

1. Siniat metal angle 50 x 25 x 0.7mm. Metal angle fixing: 3.7mm x 16mm shot-fire nails at maximum 300mm centres.
2. Siniat Intumescent Acoustic Sealant or FSi Pyrocoustic Sealant.
3. Siniat Self tapping screws at 300mm centres.
4. PROMAT PROMATECT®-XS board.
5. PROMAT PROMATECT®-XS coverstrip, fitted behind all vertical board joints, minimum 120mm wide.
6. Chisel Point Staples at maximum 100mm centres.
7. M6 TEK screws by others.
8. Deflection head Siniat Fire Board strips sealed with Siniat Intumescent Acoustic Sealant.
9. Stone wool packers cloaked with Siniat metal angle, fixed with TEK screws into steel at 600mm centres.
10. Siniat Head track fixed with TEK screws into steel at 600mm centres.
11. Siniat framing including accessories to achieve required fire resistance.
12. Siniat plasterboard partition to achieve required fire resistance, fixed to framing at 300mm centres.

Note: It is recommended that for all board installations which may be subject to long-term moisture exposure, all cut and prepared surfaces of the boards are sealed using a bead of FSi PROMAT Pyrolastic® silicone sealant prior to installation. The bead should be applied at the cut edges after the boards are butted together and smoothed over the joint and exposed edge rather than applying between the edges and squeezing together.

TOP HAT OR Z BAR FIX (NO CANTILEVER)



DETAIL ST PXS -115

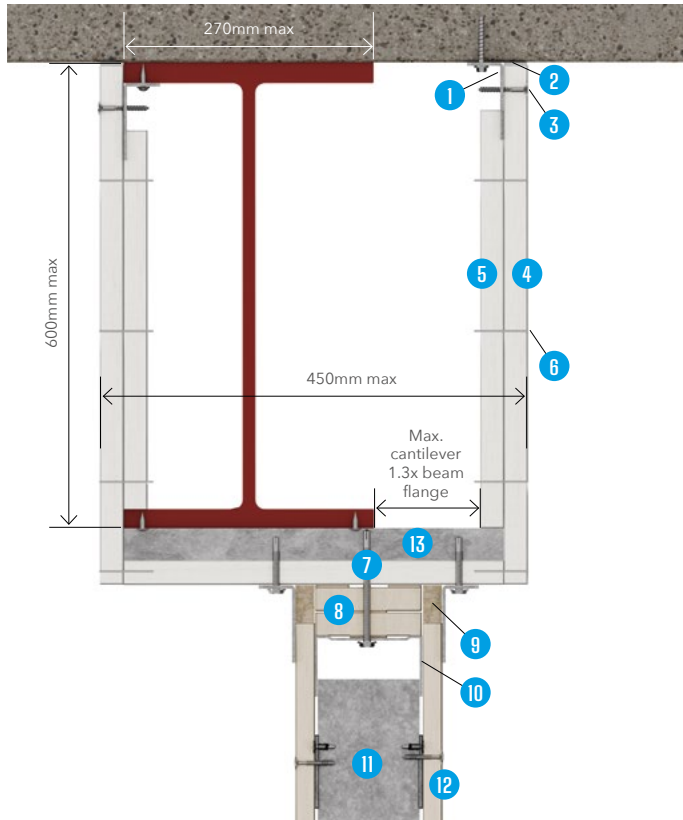
Instructions

1. Siniat metal angle 50 x 25 x 0.7mm. Metal angle fixing: 3.7mm x 16mm shot-fire nails at maximum 300mm centres.
2. Siniat Intumescent Acoustic Sealant or FSi Pyrocoustic Sealant.
3. Siniat Self tapping screws at 300mm centres.
4. PROMAT PROMATECT®-XS board.
5. PROMAT PROMATECT®-XS coverstrip, fitted behind all vertical board joints, minimum 120mm wide.
6. Chisel Point Staples at maximum 100mm centres.
7. M6 TEK screws by others.
8. Deflection head Siniat Fire Board strips sealed with Siniat Intumescent Acoustic Sealant.
9. Stone wool packers cloaked with Siniat metal angle, fixed with TEK screws into steel at 600mm centres.
10. Siniat Head track fixed with TEK screws into steel at 600mm centres.
11. Siniat framing including accessories to achieve required fire resistance.
12. Siniat plasterboard partition to achieve required fire resistance fixed to framing at 300mm centres.
13. Siniat MFCC50 Ceiling Channel or Remagin Z-Bar fixed to steel flange using a minimum of 2 No. 3.7mm x 16mm Shot-fire nails per profile. Choice of profile option defined by project requirements and specifications.

Note: It is recommended that for all board installations which may be subject to long-term moisture exposure, all cut and prepared surfaces of the boards are sealed using a bead of FSi PROMAT Pyrolastic® silicone sealant prior to installation. The bead should be applied at the cut edges after the boards are butted together and smoothed over the joint and exposed edge rather than applying between the edges and squeezing together.

PROMATECT®-XS INTERFACES
3-SIDED BEAM ENCASEMENT WITH SINIAT PARTITION

Z-BAR FIX CANTILEVER



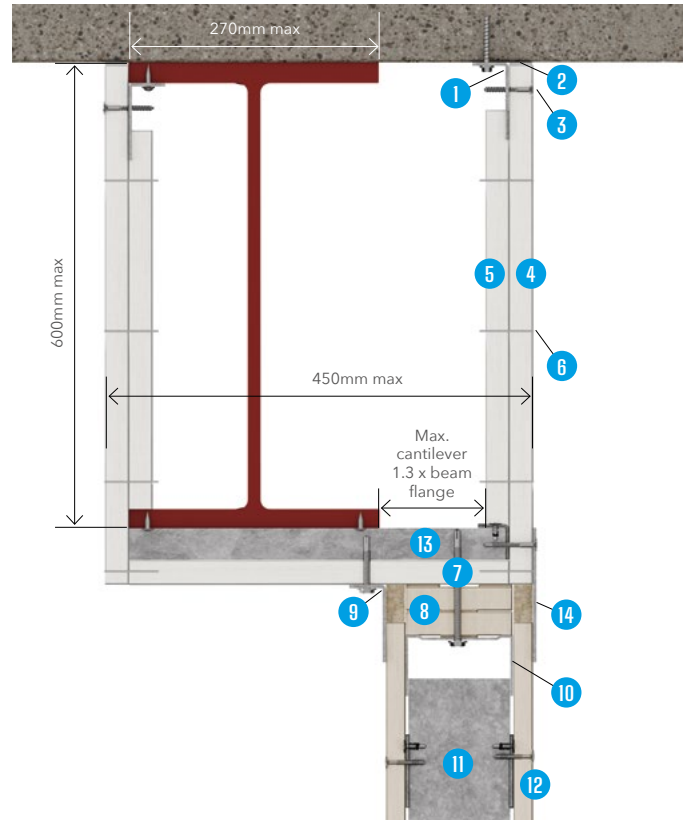
DETAIL ST PXS -115A

Instructions

1. Siniat metal angle 50 x 25 x 0.7mm fixed to soffit using non-combustible concrete anchors or screws by others.
2. Siniat Intumescent Acoustic Sealant or FSi Pyrocoustic Sealant.
3. Siniat Self tapping screws at 300mm centres.
4. PROMAT PROMATECT®-XS board.
5. PROMAT PROMATECT®-XS coverstrip, fitted behind all vertical board joints, minimum 120mm wide.
6. Chisel Point Staples at maximum 100mm centres.
7. M6 TEK screws by others.
8. Deflection head Siniat Fire Board strips sealed with Siniat Intumescent Acoustic Sealant.
9. Stone wool packers cloaked with Siniat metal angle, fixed with TEK screws into steel at 600mm centres.
10. Siniat Head track fixed with TEK screws into steel at 600mm centres.
11. Siniat framing including accessories to achieve required fire resistance.
12. Siniat plasterboard partition to achieve required fire resistance, fixed to framing at 300mm centres.
13. Remagin Z-bar fixed to steel flange using 3.7mm x 16mm Shot-fire nails at maximum 300mm centres.

Note: It is recommended that for all board installations which may be subject to long-term moisture exposure, all cut and prepared surfaces of the boards are sealed using a bead of FSi PROMAT Pyrolastic® silicone sealant prior to installation. The bead should be applied at the cut edges after the boards are butted together and smoothed over the joint and exposed edge rather than applying between the edges and squeezing together.

Z-BAR FIX CANTILEVER FLUSH



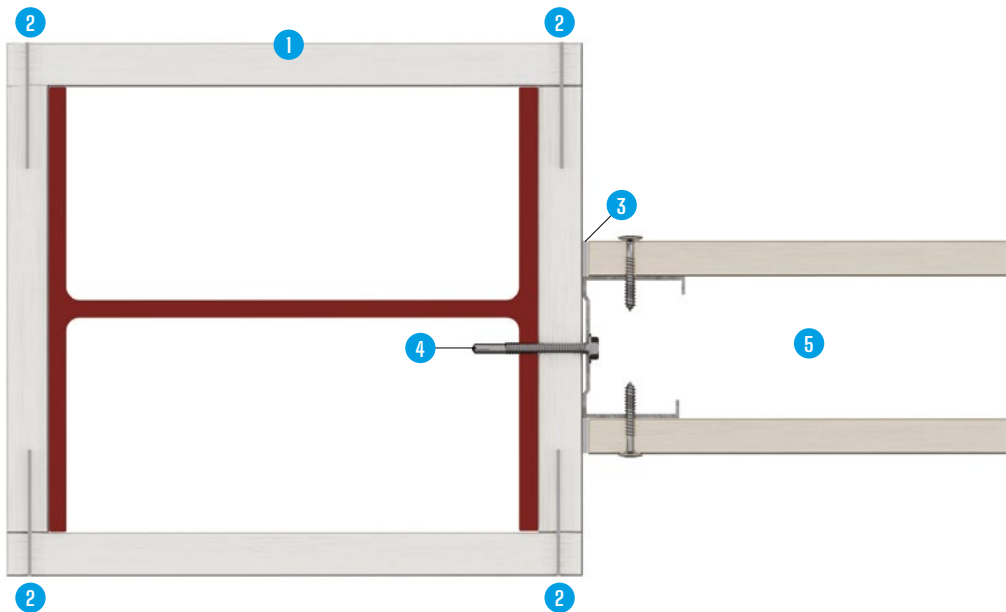
DETAIL ST PXS -115B

Instructions

1. Siniat metal angle 50 x 25 x 0.7mm fixed to soffit using non-combustible concrete anchors or screws by others.
2. Siniat Intumescent Acoustic Sealant or FSi Pyrocoustic Sealant.
3. Siniat Self tapping screws at 300mm centres.
4. PROMAT PROMATECT®-XS board.
5. PROMAT PROMATECT®-XS coverstrip, fitted behind all vertical board joints, minimum 120mm wide.
6. Chisel Point Staples at maximum 100mm centres.
7. M6 TEK screws by others.
8. Deflection head Siniat Fire Board strips sealed with Siniat Intumescent Acoustic Sealant.
9. Stone wool packer cloaked with Siniat metal angle fixed with TEK screws into the Z bar at 600mm centres.
10. Siniat Head track fixed with TEK screws into steel at 600mm centres.
11. Siniat framing including accessories to achieve required fire resistance.
12. Siniat plasterboard partition to achieve required fire resistance, fixed to framing at 300mm centres.
13. Remagin Z-bar capped with a Siniat metal angle, fixed with Siniat 12mm wafer head screws.
14. Stone wool packer cloaked by a Siniat Flat Strap, flush fixed using a Siniat self drilling screw.

PROMATECT®-XS INTERFACES
4-SIDED COLUMN ENCASEMENT WITH SINIAT PARTITION

DIRECT FIX



DETAIL ST PXS -116

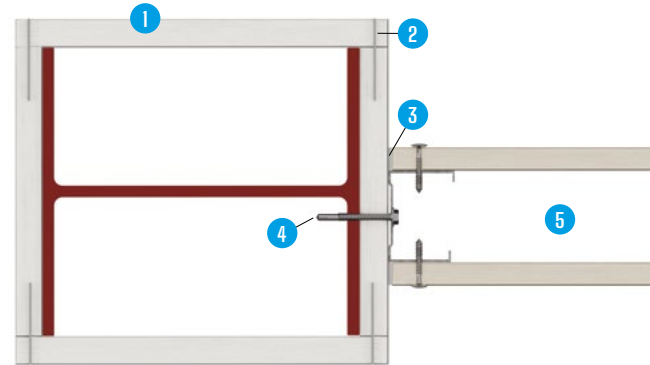
Instructions

1. PROMATECT®-XS board.
2. Chisel Point Staples at maximum 100mm centres.
3. Siniat Intumescent Acoustic sealant.
4. M6 TEK screws by others.
5. Siniat partition to achieve required performance.

Note: It is recommended that for all board installations which may be subject to long-term moisture exposure, all cut and prepared surfaces of the boards are sealed using a bead of FSi PROMAT Pyrolastic® silicone sealant prior to installation. The bead should be applied at the cut edges after the boards are butted together and smoothed over the joint and exposed edge rather than applying between the edges and squeezing together.

PROMATECT®-XS INTERFACES
4-SIDED COLUMN ENCASEMENT WITH SINIAT PARTITION

DIRECT FIX

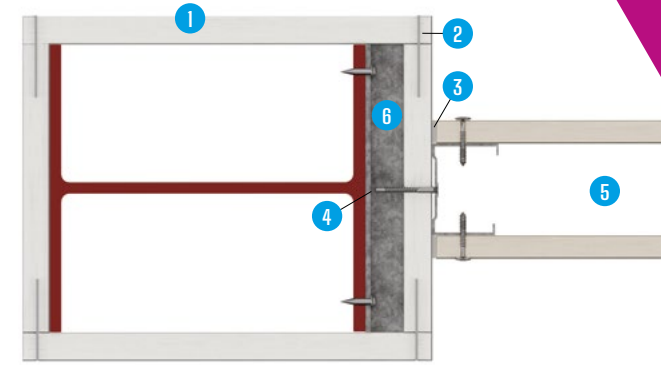


DETAIL ST PXS -116

Instructions

1. PROMAT PROMATECT®-XS board.
2. Chisel Point Staples at maximum 100mm centres.
3. Siniat Intumescent Acoustic sealant.
4. M6 TEK screws by others.
5. Siniat partition to achieve required performance.

TOP HAT FIX

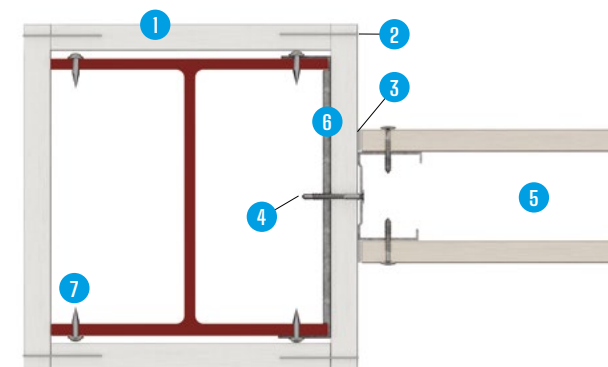


DETAIL ST PXS -117

Instructions

1. PROMAT PROMATECT®-XS board.
2. Chisel Point Staples at maximum 100mm centres.
3. Siniat Intumescent Acoustic sealant.
4. Siniat self tapping screw.
5. Siniat partition to achieve required performance.
6. Siniat MFCC50 Ceiling Channel (top hat) fixed to column in a ladder pattern using 3.7mm x 16mm Shot-fire nails.

MFIX BRACKET FIX: NARROW STEEL WEB

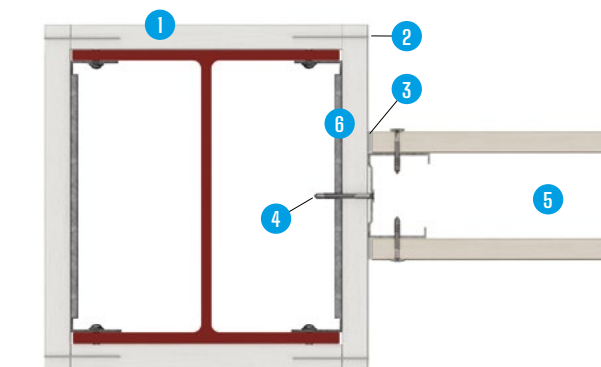


DETAIL ST PXS -118

Instructions

1. PROMAT PROMATECT®-XS board.
2. Chisel Point Staples at maximum 100mm centres.
3. Siniat Intumescent Acoustic sealant.
4. Siniat self drilling screw.
5. Siniat partition to achieve required performance.
6. Siniat MFix Fitting Channel fixed to the outside of the steel column in a ladder pattern using 3.7mm x 16mm Shot-fire nails.
7. Cavity spacer nails to maintain encasement squareness.

MFIX BRACKET FIX: WIDE STEEL WEB



DETAIL ST PXS -119

Instructions

1. PROMAT PROMATECT®-XS board.
2. Chisel Point Staples at maximum 100mm centres.
3. Siniat Intumescent Acoustic sealant.
4. Siniat self drilling screw.
5. Siniat partition to achieve required performance.
6. Siniat MFix Fitting Channel fixed to the inside of the steel column in a ladder pattern using 3.7mm x 16mm Shot-fire nails.

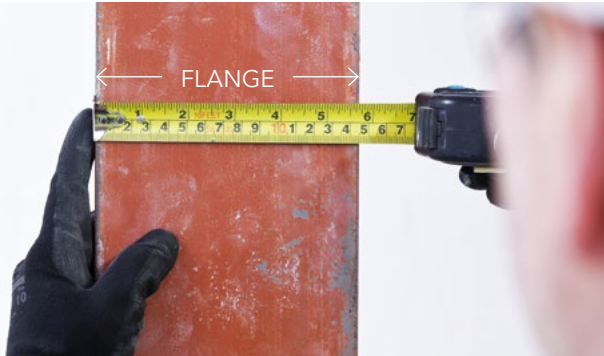
Step by Step Guide

Fire protection for column encasements (showing 4-sided encasement)



1 MEASURE FOR FLANGE PANEL

Measure the flange of the structural steel column plus 3-4mm.



2 MARK UP FLANGE PANEL

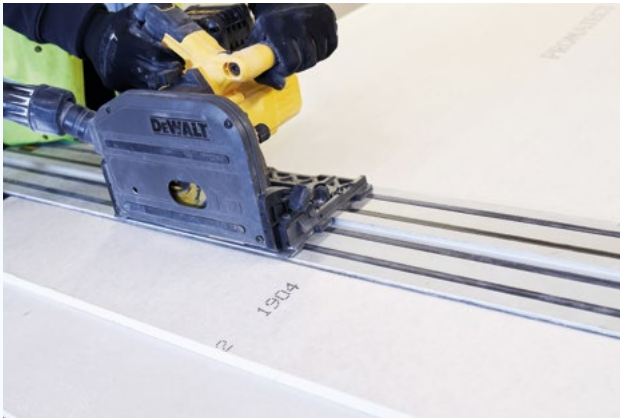
Mark up PROMATECT®-XS board to fit flange plus 3-4mm.



3 CUT FLANGE PANEL

Cut boards using a power circular saw in conjunction with tungsten carbide tipped blades, or a jigsaw. All cutting should be carried out in well ventilated spaces, using dust extractors. Operators should wear protective face masks.

Note: Promat recommends the use of a power plunge saw with a guiding rail to ensure straight clean edges.



4 COLUMN TO BEAM JUNCTION

Mark up, cut and fit boards around junctions by butt jointing the square edges of PROMATECT®-XS.



5 MEASURE FOR WEB PANEL

Measure the web of the structural steel column plus the thickness of the two PROMATECT®-XS flange panels.

Note: Stagger joints on adjacent faces by at least 500mm.



6 MARK UP WEB PANEL

Mark up and cut PROMATECT®-XS board to the dimensions in step 5.

(measure twice, cut once!)



7 FIXING WEB PANEL TO FLANGE PANEL

Clamp board around steel to ensure tight fit. Fix web panels to flange panels using staples.

Staple details

Material:	Galvanised steel
Length:	35mm (15mm Board) 50mm (20mm Board)
Width:	1.45mm
Crown:	10.5mm
Thickness:	1.3mm
Fixing centres (max):	100mm

Note: Recommended SENCO staple guns and staples for best compatibility with PROMATECT®-XS.



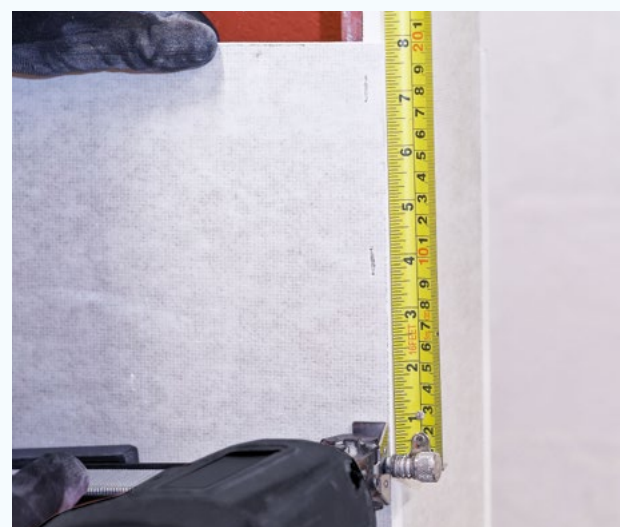
Fire protection for column encasements (showing 4-sided encasement) (continued)

Fix board at a minimum of 25mm and a maximum 50mm from cut edge.

Staple fix the remainder of boards ensuring you aim for the centre of the board edge

Tip: Practice on offcuts of boards to adjust the staple gun settings such as pressure and staple sinking depth.

Full length boards can be used for column encasements.



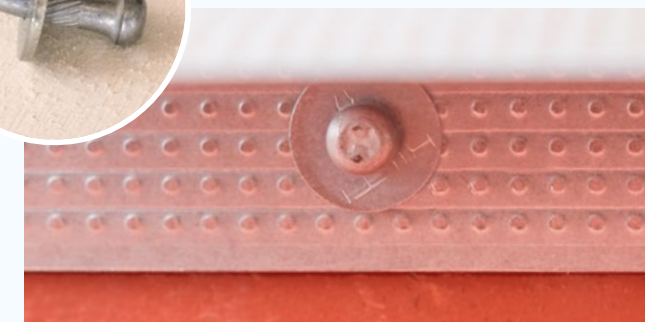
Step by Step Guide



Fire protection for beam encasements (showing 3-sided encasement)

1 FIXING STEEL ANGLE

Fix 50mm x 25mm x 0.7mm Siniat Metal Angle 90° to the underside of the top flange of the structural steel beam, using 3.7mm x 16mm shot-fire nails at 300mm centres.



2 MEASURE FOR WEB PANEL

Measure depth between the soffit and the bottom edge of the flange and add the thickness of the PROMATECT®-XS flange panel.



Fire protection for beam encasements (showing 3-sided encasement) (continued)

3 MEASURE WEB PANEL

Measure, mark up and cut PROMATECT®-XS boards to the dimensions in step 2, plus an additional 3-4mm.

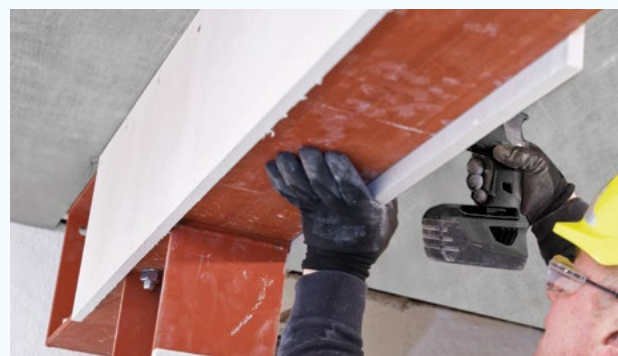
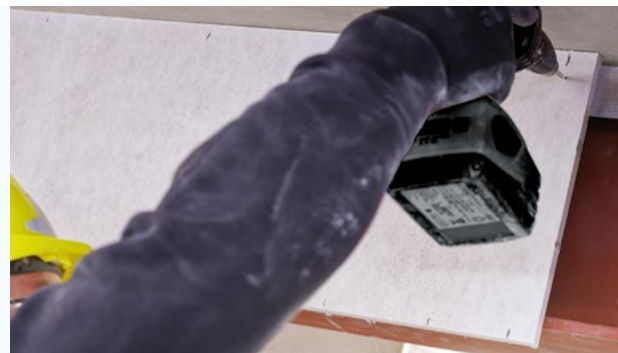


4 FIXING WEB PANEL

Fix web panels to steel angle using Siniat Self Tapping screws spaced at 300mm centres. Screws should be approximately half way down the angle.

First fixing 50mm from board edge, second fixing, 300mm from board edge and then at 300mm centres.

Repeat process on other side of steel beam, fixing into angle as detailed above.



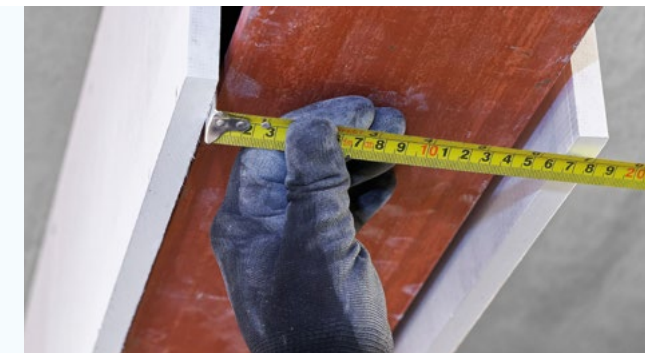
5 PLACING COVER STRIP

Install 120mm wide cover strips behind the web panel joints. These should extend minimum 15mm up behind the angle and are fixed with staples at maximum 100mm centres.



6 FLANGE PANEL

Measure, mark up and cut flange panel to fit between web panels.



Fire protection for beam encasements (showing 3-sided encasement) (continued)

7 FIXING FLANGE PANEL

Staple flange panels into position through the face of web panels at maximum 100mm centres.

Fixings should be a minimum 25mm and maximum 50mm from each end of flange panel.

Board joints must be coincident around the encasement.

Maximum board length is 1200mm

Staple details

Material:	Galvanised steel
Length:	35mm (15mm Board)
	50mm (20mm Board)
Width:	1.45mm
Crown:	10.5mm
Thickness:	1.3mm
Fixing centres (max):	100mm

Note: Recommended SENCO staple guns and staples for best compatibility with Promat[®]-XS.



8 COMPLETED BEAM WITH COVER STRIP



Finishing

Plastering and painting

Plastering

If a skim coat is required, apply a sealing coat of diluted universal primer/PVA (e.g. 1 part PVA and 5 parts water). Sealing coat should be allowed to dry thoroughly (approximately 24 hours). Apply bonding coat (3 parts PVA and 1 part water). Alternative bonding coats are available to control suction and improve adhesion. One example is Parex Micro Gobetis 3000.

Apply plaster skim (3mm thick) while the bonding coat is wet and tacky. It is recommended that a small test area is plastered initially to ensure that the boards have been adequately sealed.

Siniat Joint tape can be applied to all joints and internal corners. **Self Adhesive Scrim (Patch Tape) is not recommended.**

The plaster manufacturers' recommendations should be followed at all times.

Painting

Promat boards have an attractive, smooth finish but if required they can be painted with emulsion or water based paints. With water based paints, a diluted first coat or sealer coat e.g. Siniat Universal Sealer should be used.

All coatings should be supplied by a reputable manufacturer and their recommendations regarding surface preparation, sealing and finish coat should be followed at all times.

Note: It is recommended that for all board installations which may be subject to long-term moisture exposure, all cut and prepared surfaces of the boards are sealed using a bead of FSI PROMAT Pyrolastic[®] silicone sealant prior to installation. The bead should be applied at the cut edges after the boards are butted together and smoothed over the joint and exposed edge rather than applying between the edges and squeezing together.



Technical Characteristics

PROMATECT® XS Properties	
Board Format Data	
Product code	
15mm	299044
20mm	299045
Length x width (mm)	2500 x 1200
Edge	Square
Approximate weight (kg/m²)	
15mm	13.7
20mm	18.3
General Technical Data	
Designation	Fire protection board
Reaction to fire to EN 13501-1	A1 non-combustible
Apparent density (kg/m³)	915 (+/- 8%)
Nominal density at 23°C, 50% RH (kg/m³)	950
Thermal conductivity (W/mK)	0.30
Dimentional stability to BS EN 318	Dimentionally stable
Thickness tolerance (mm)	+/-0.5
Length x width tolerance (mm)	-5,+0mm
Compressive strength (N/mm²)	6

Reference ETA 18/0645 and manufacturing data. All physical property values are averages based on standard production. As our products are subject to continuous improvement, for current details of the product properties and system applications, please visit our PROMATECT®-XS product page on our website.

For more product properties, visit siniat.co.uk



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