Promat
by etex

PROMINA®-X

SHED WALL INSTALLATION MANUAL



PROMINA®-X

PROTECTING BOUNDARY WALLS FOR STEEL CLAD BUILDINGS.

PROMINA®-X is an innovative high performing fire protective board, specifically designed to provide fire resistance to external walls of steel clad buildings where they are close to the boundary.

PROMINA®-X is a fire resistant product, made of sulphates and calcium silicate PROMAXON®, based on PromaX® exclusive technology, for fire resistant walls. PROMINA®-X has a water repellant facing and can be installed and left unprotected for a period of up to 6 months. Allowing for installation of the board and closing of the building element, long before the cladding is required to be installed. It has an intended life time of at least 25 years for internal and semi-exposed applications and is extremely easy to maintain and repair.

Mechanical stability, long durability, easy to score and snap, light-weight and excellent fire behaviour are the main characteristics of PROMINA®-X.

Appearance

PROMINA®-X comes with an orange smooth surface finish on both front and back sides. The board has square edges and is 20mm thick.

Health & Safety

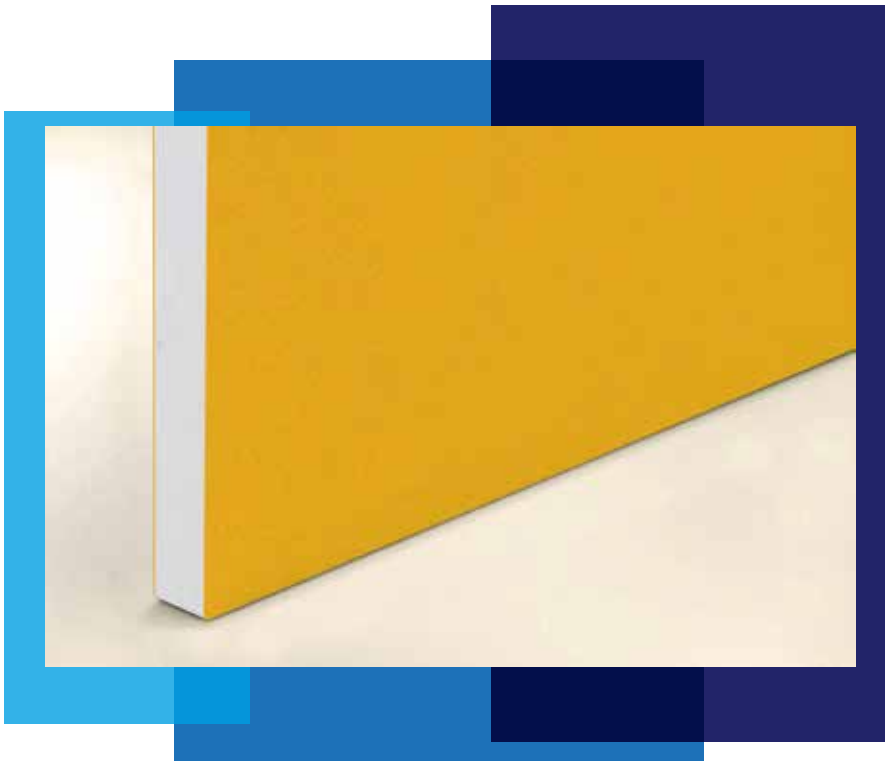
Refer to the PROMINA®-X safety datasheet.

Application

Fire resistant external steel clad walls.

Surface Finish

Smooth glass fibre reinforced orange facer on both sides suitable for accepting most architectural finishes.



Product Overview

PROMINA®-X is a high performance, water repellent, fire protection board with superior weather resistance.

Benefits

- Dimensionally stable
- Quick, easy to cut and install, saving time and reducing installed cost
- Integrates to existing shed framing system
- No requirement for adhesive or joint fillers
- Smooth, impact resistant surface
- Water, weather and mould resistant
- Can be installed before the building is weathertight (up to 3 months fully exposed & 6 months semi-exposed)*.
- Certified to AS 1530.4:2014
- Fire Resistance Level (FRL) of up to -/120/120
- Locally produced in Melbourne Australia

*To protect from driving rain it is recommended that a bead of external grade fire-resistant 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

DIMENSIONS, WEIGHT AND PACKAGING

Product Code	Thickness (mm)	Length (mm)	Width (mm)	Approximate weight (kg/m^2)	Boards/pallet
1001423	20	2400	1200	18,9	30

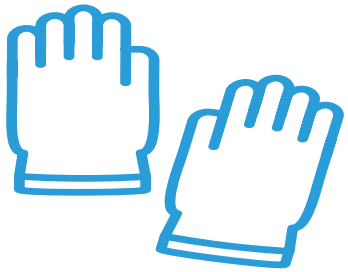
TECHNICAL DATA

Apparent density to EN 12467	915 kg/m^3 (± 8 %)
Nominal density at 23°C, 50% RH	950 kg/m^3 (± 8 %)
Thickness tolerance	± 0,5 mm
Length and width tolerance	-5; +0 mm
Reaction to fire to AS5637.1	Group 1
Compressive strength to EN 789	> 6 MPa
Durability to EAD 350142-00-1106	25 years of working life in internal (Z2) and semi-exposed (Y) use

Handling, cutting and fixing

Handling

The boards shall be horizontally stacked on a pallet or gluts at maxium 600mm centres on a flat surface in a dry and ventilated space to a mximum of three pallets high. The boards shall always be moved from the stack by two persons and then be transported vertically.



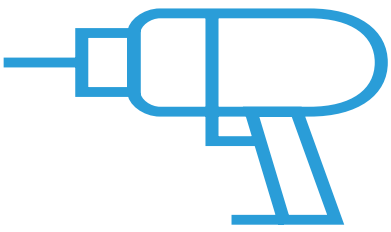
Cutting

- Use Score and Snap technique.
- Power tools with dust extraction:
- Circular saw with a tungsten carbide tipped sawblade.
- A vacuum cleaner is recommended while cutting especially with powered saws. As an additional safety precaution, always wear eye, ear and dust protection when using power tools of any type.
- While working with power saws, the following important points should be observed:
- Ensure that the boards to be cut are continuously supported on either side of the cut.
- A straight edge should be clamped in position to guide the cutting operation.
- Care must be taken to ensure the tool remains against the straight edge during the cutting operation.
- The cutting rate should be such that the blade is not labouring or over-heating.

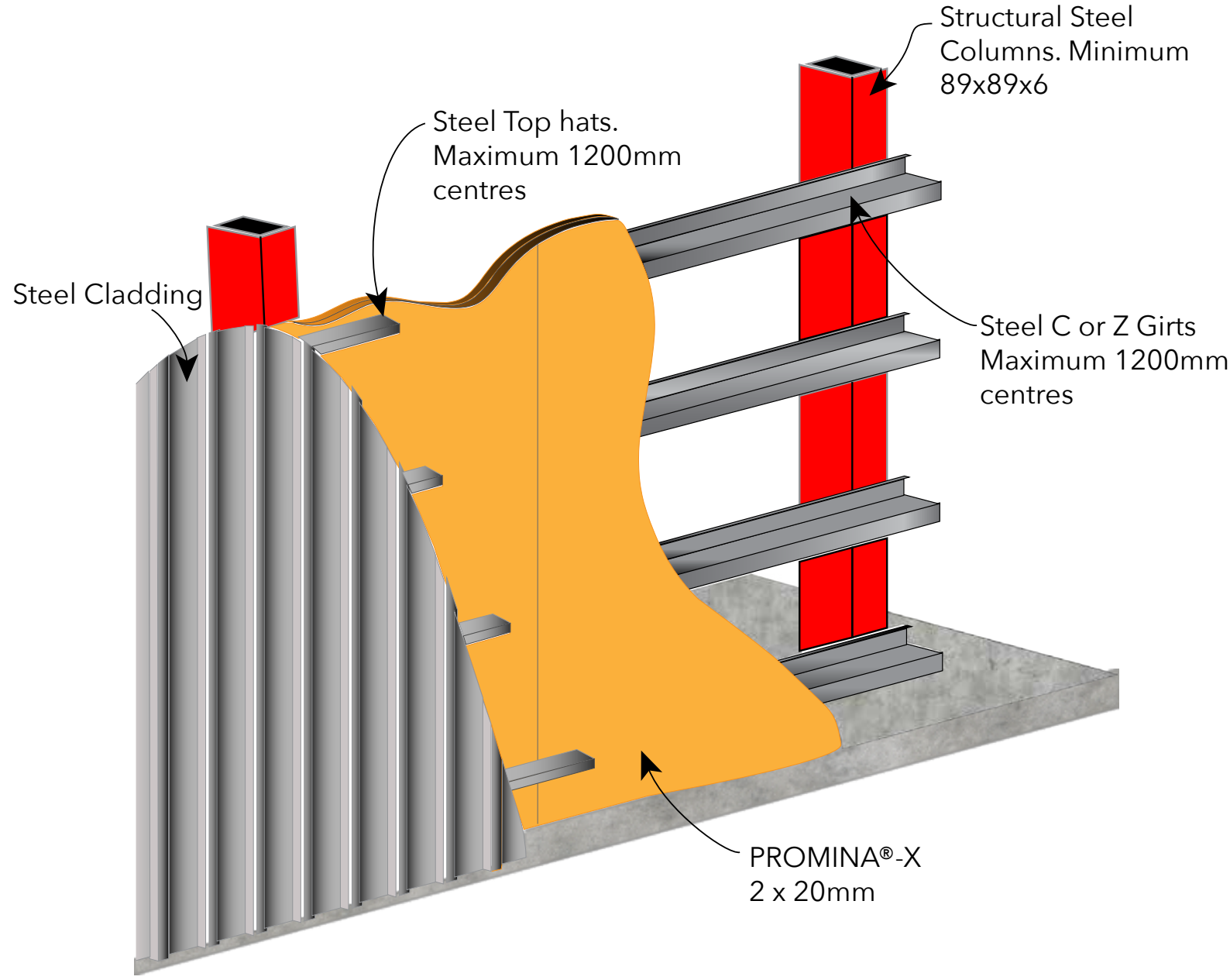


Fixing

- Screw Fixed. Refer to installation details for specifc sizes and types



System Overview



The National Construction Code (NCC) Performance Requirement C1P2 (1) c) requires that buildings are designed to prevent fire spread between buildings. Therefore external walls that are close to a boundary are protected from fire from the outside of the building, The required Fire Resistance Level (FRL) will vary depending on the type of building and the distance from the boundary. This wall system is designed for application to the external wall under the metal cladding used for sheds where the required FRL is up to -/120/120.

The system consists of two layers of PROMINA®-X board each in a thickness of 20mm. These boards are fixed vertically to the horizontally running C or Z purlins that are fixed between the structural columns. Top hats are then fixed horizontally through the boards to the girts and the cladding is applied to the outer face.

Material Requirements

Fixings



10g x 75mm self drilling bugle head screw*



6g x 45mm drill point bugle head plasterboard screw*



10g x 25mm hex head self drilling external cladding screw

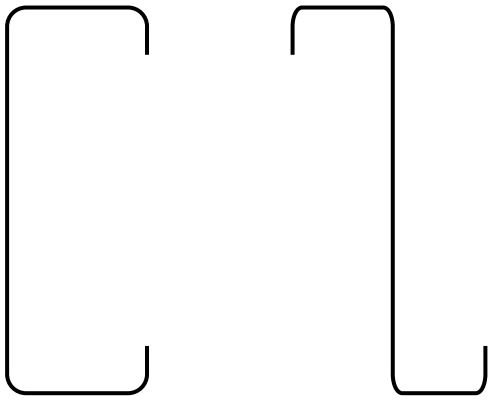
* If installation is within 1km of the ocean, screw head will require cover with external grade sealant or wall wrap. Alternatively change to a screw with a Class 4 coating which may require any increase in gauge.

Sealant

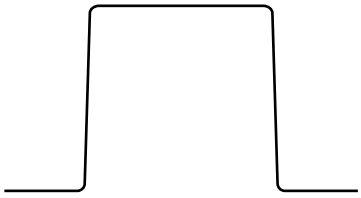


Selleys Flame Flex

Steel



Minimum C or Z 10010



Minimum 50 x 0.75mm Top Hat

Steel Frame Requirements

Support Columns

The frame requirement for this wall are largely the remit of the structural engineer for the particular project. It should be designed to support the proposed wall height and all relevant applied loads, including but not limited to self-weight, wind actions, imposed actions, and any project-specific load conditions. The steel support system must be designed to remain stable and to avoid structural failure or excessive deflection during service and fire exposure, as excessive movement of the support system could compromise the fire-rated board system, board joints, fixings, or perimeter detailing.
The only limitations are that the size of the support columns must not be less than 89 x 89 x 6mm if a hollow section is used. I or H sections are also acceptable provided the second moment of inertia about the axis parallel to the fire-rated board is greater than that of the tested 89 × 89 × 6 mm SHS section.

Horizontal Steel Girts

The steel girts are required to be set at a maximum of 1200mm centres but can be closer if other structural requirements demand it. Both C and Z style girts are acceptable. The minimum size of the girt is either a C10010 or Z10010. The size of the girt is to be determined by the stuructural engineer based on the distance between the structural columns and any other structural or environmental loads that are expected to be experianced. Additionally the calculated mid-span deflection of the purlins under the applicable design actions must not exceed 15 mm, as excessive purlin deflection could induce movement, cracking, joint opening, or loss of fixity in the PROMINA®-X board system.

Horizontal Top Hats

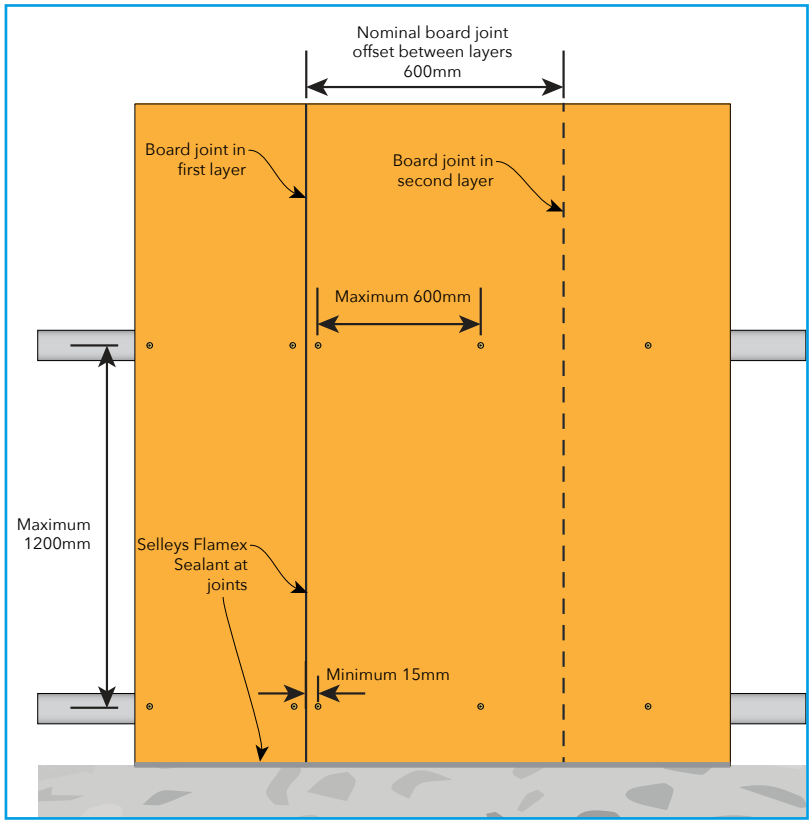
The top hats for fixing the steel sladding to the frame are fixed through the PROMINA® X into the underlying steel girts. They are to be a minimum of 50mm high x 25mm deep x 25mm flange x 0.75mm thickness.

Steel Cladding

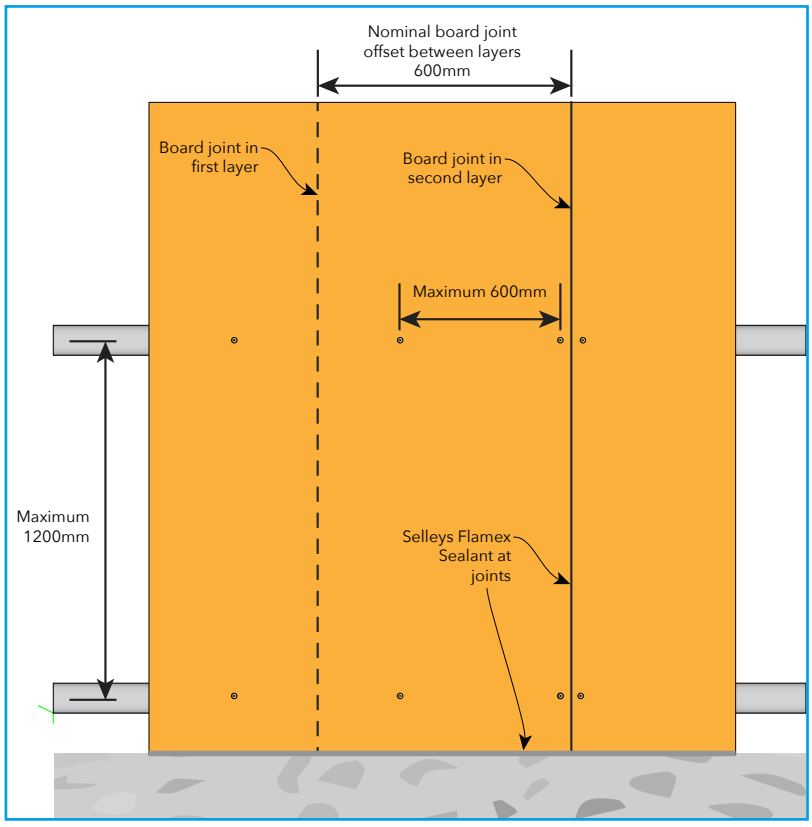
The cladding is fixed to the top hats with minimum 10g x 25mm long self drilling screws at 200mm centres. Side laps between adjacent sheets must be formed with a nominal one-rib overlap and fixed using screws at each top hat through the crest of the cladding at the lap joint.

Board Installation

1. Fix the first layer of PROMINA® X boards to the purlins at maximum 600mm centres using minimum 6g x 45mm long, drill point, bugle head plasterboard screws
2. The board should be positioned so that the gap between the bottom of the board and the slab is nominally 10mm. This gap is sealed with a fire resistant external grade sealant once both layers are installed.
3. Seal joints between boards with Selleys Flame Flex (or equivalent) fire resistant external grade sealant.
4. Offset vertical joins by 600mm nominal between layers.
5. Fix the second layer of PROMINA® X to the purlins at maximum 600mm centres using 10g x 75mm long self drilling bugle head screws. Ensure that the fixing locations are offset from the first layer.
6. Seal joints between the second layer boards with Selleys Flame Flex (or equivalent) fire resistant external grade sealant



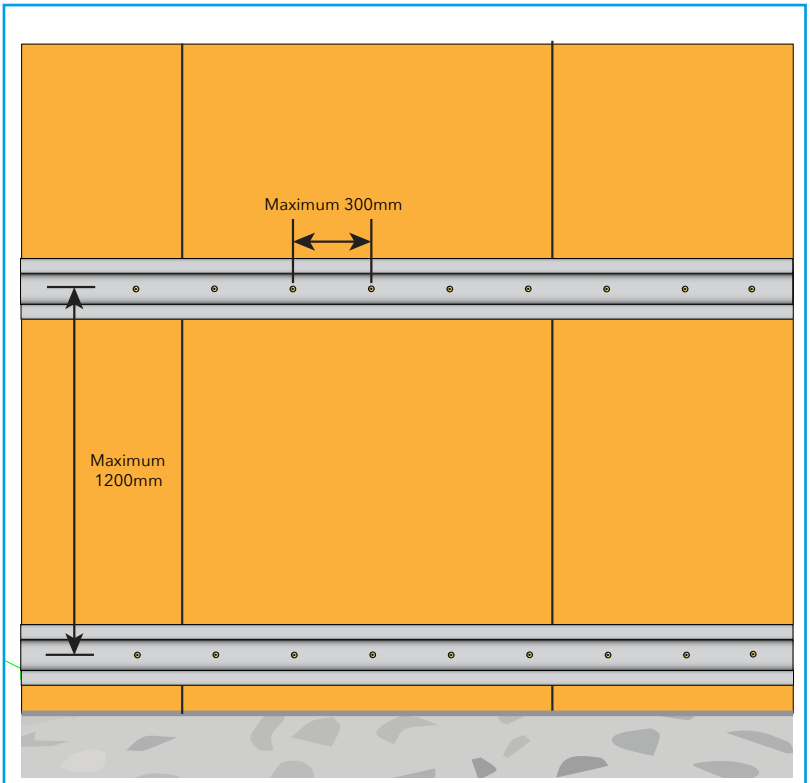
First Layer



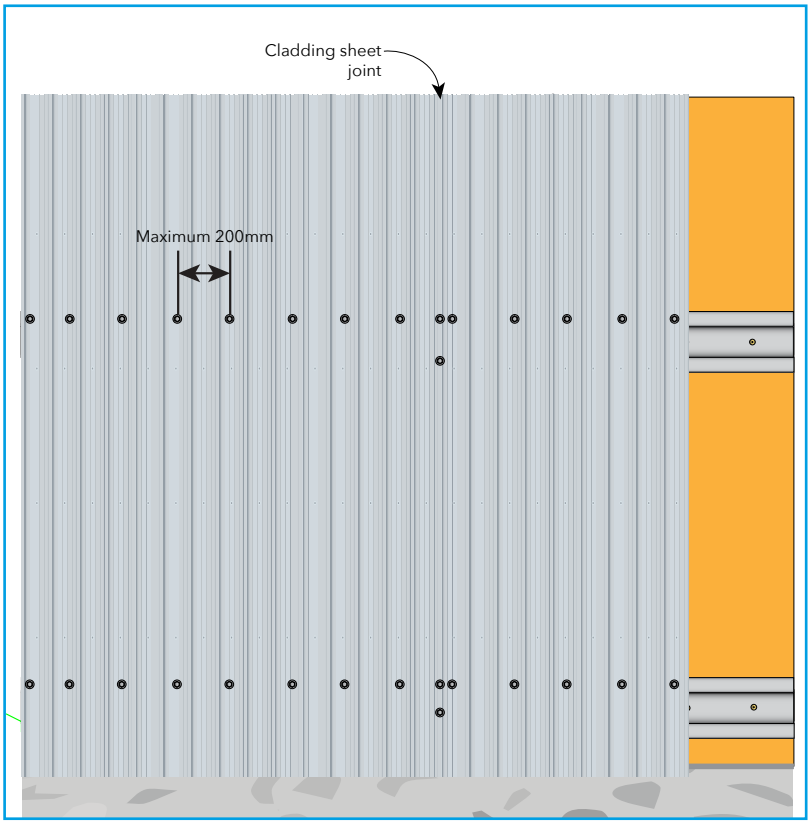
Second Layer

Top Hat & Cladding Installation

1. Install top hat, with legs facing out, horizontally in line with the underlying steel purlins with minimum 10g x 75mm self drilling bugle head, batten screws at maximum 300mm centres.



Top Hat Install Detail

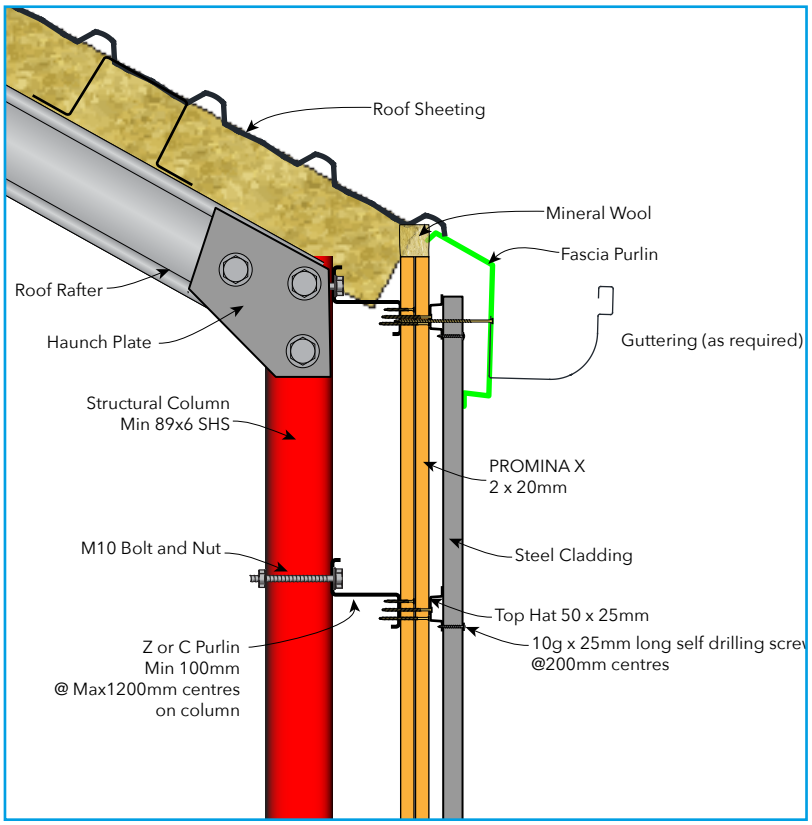


Cladding Install Detail

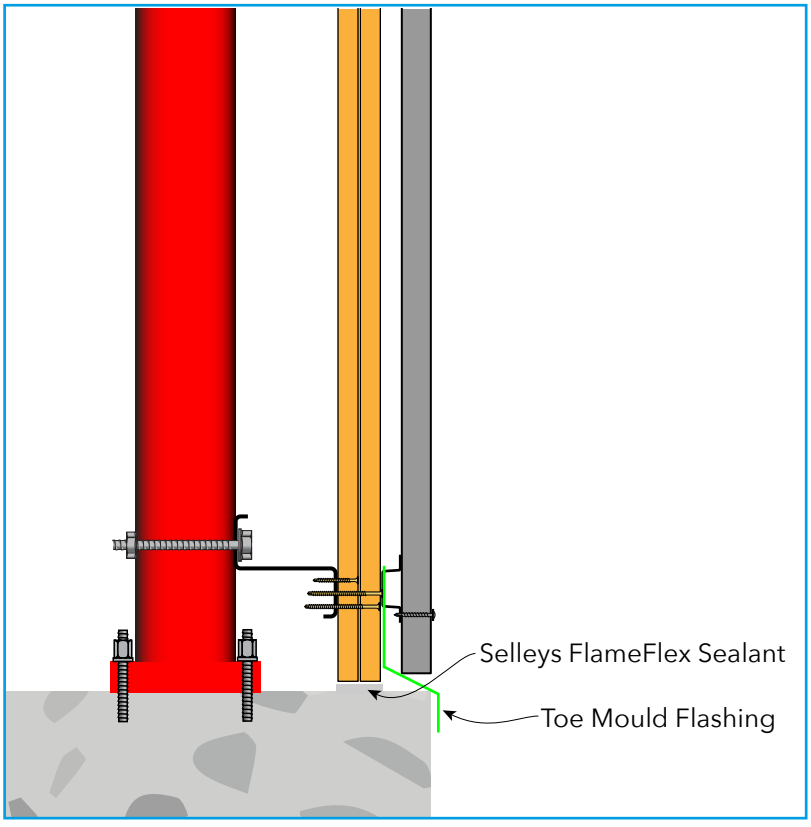
1. Fix cladding to the tophats at maximum 200mm centres with minimum 10g x 25mm Hex Head self drilling screws. Overlap adjacent cladding sheets with a mimimum one-rib overlap and fix using 10g x 25mm Hex Head self drilling screws through the cladding crest at each top hat location
2. Where fascias, guttering, toe moulds and other attachments are installed. Ensure that any fixings are into the primary steel framing and not into the PROMINA® X alone.

Details

1. Ensure gap between top of wall and roof sheeting is filled with non combustible mineral fibre.
2. Ensure that any attachments to the wall such as guttering or fascias are fixed to the primary steel frame and not the PROMINA® X



Wall to Roof Connection

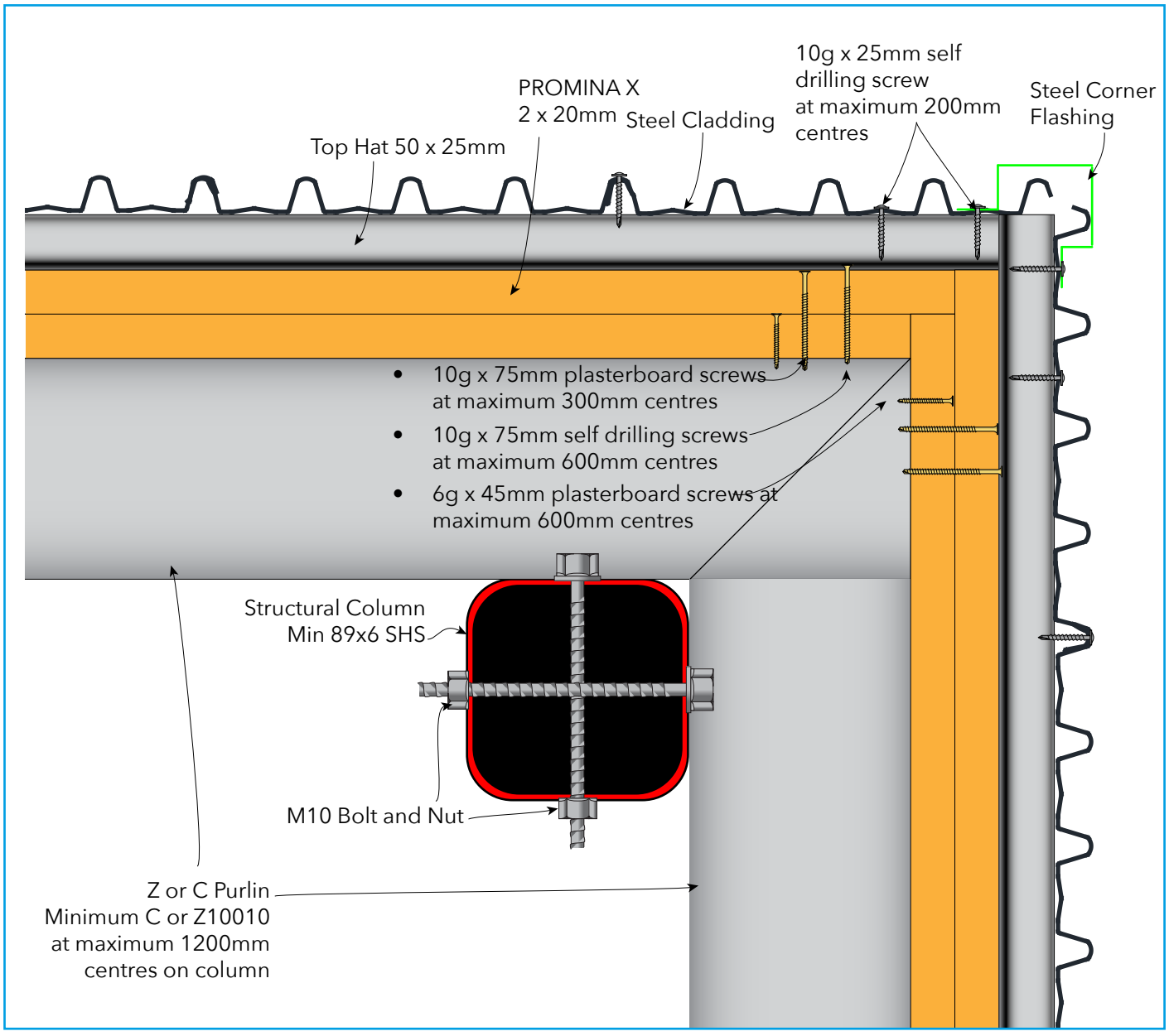


Wall to slab connection

1. Install Selleys Flame Flex or equivalent external grade fire resistant sealant to the maximum 10mm gap between underside of the PROMINA® X and slab.
2. Ensure that any attachments to the wall such as toe mouldings are fixed to the primary steel frame and not the PROMINA® X

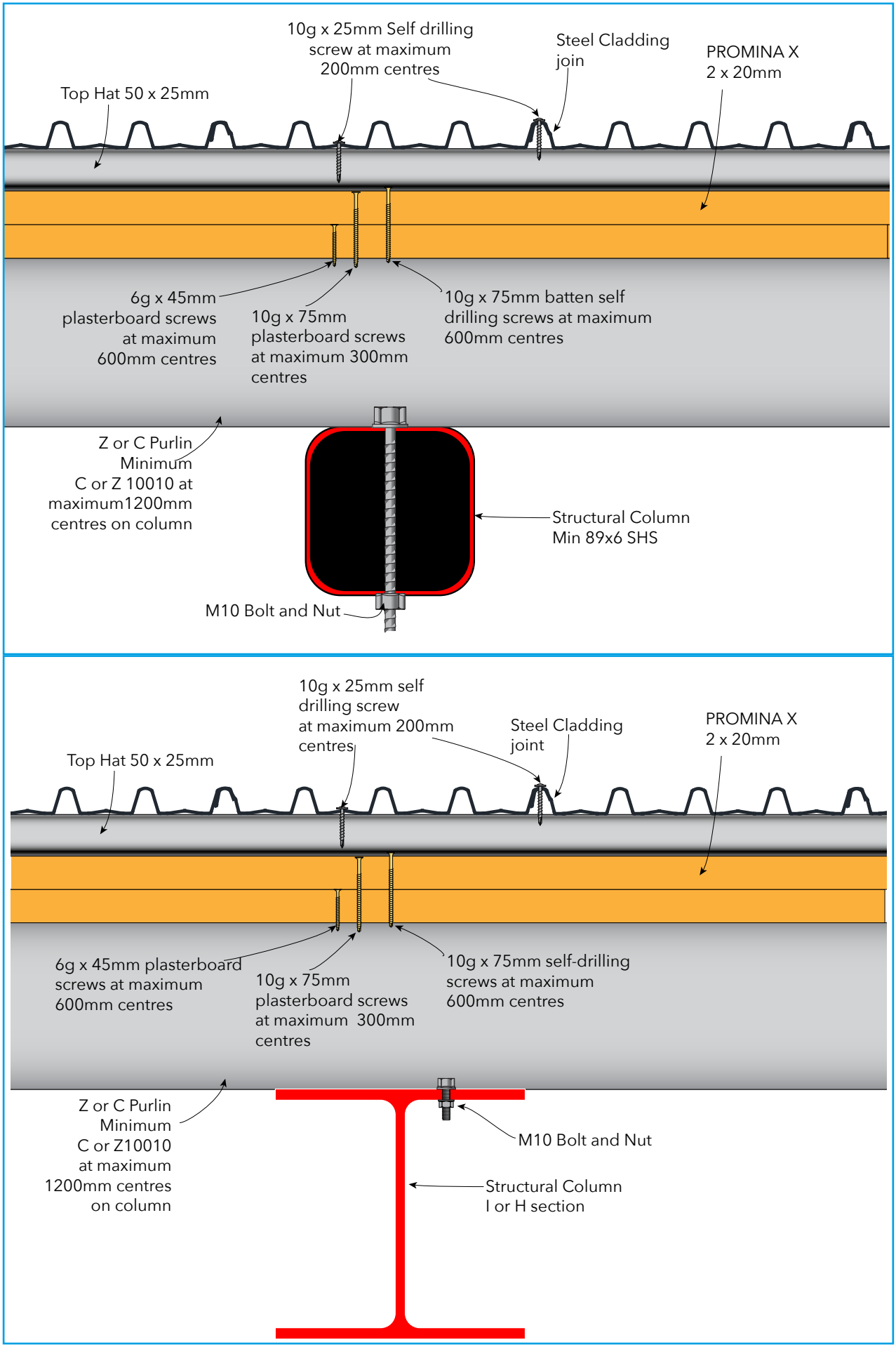
Installation Details

1. Install steel corner flashing over corners for weather protection



Wall corner connection

Installation Details



Wall installation - Plan View

Etex Australia

South Australia office
1 Scotland Road
SA 5031 Mile End South
1800 Promat (776 628)
+61 8 8352 1014
PAPL.mail@etexgroup.com

New South Wales office
Unit 1, 175 Briens Road
Northmead, NSW 2152
1800 Promat (776 628)
+61 2 9630 0258
PAPL.mail@etexgroup.com

Victoria office
10-20 Jordan Close
Altona, VIC 3018
1800 Promat (776 628)
1800 334 598
PAPL.mail@etexgroup.com

Queensland office
80 Stradbroke St
Heathwood QLD 4110
1800 011 376
1800 334 598
PAPL.mail@etexgroup.com

promat.com

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