

COLORBOND® steel clad roofing system construction



Details for bushfire-prone AS3959-2009 BAL-FZ sites



This Fact Sheet describes a range of new steel clad roofing systems that have been designed for areas determined to be “Bushfire Attack Level – Flame Zone (BAL-FZ)”, the most severe risk level under the Standard. The Fact Sheet is intended to provide assistance to homeowners, builders and designers who are looking to build or re-build homes on BAL-FZ sites.

AS3959-2009 requires a roofing system to comply with AS1530.8.2 when tested from the outside. The roofing systems detailed in this Fact Sheet have been assessed by a registered testing authority as being likely to achieve bushfire attack level BAL-FZ if tested in accordance with AS1530.8.2-2007.

It is essential that the construction details and product specifications for each roofing system set out in this Fact Sheet are strictly followed. Any changes may mean that the roof constructed may not meet the performance requirements of AS3959-2009.

It is important to be aware that no single fire test can assess the performance of building materials under all fire conditions

and there is no guarantee that the roofing systems detailed in this Fact Sheet will survive a bushfire.

Australian Standard AS3959-2009: Construction of buildings in bushfire-prone areas

Australian Standard AS3959-2009 specifies the requirements for the construction of buildings in bushfire-prone areas in order to improve their resistance to bushfire attack from burning embers, radiant heat, flame contact and combinations of the three attack forms. The objective of the Standard is to provide greater protection for the occupants who may be sheltering in a building while the fire front passes and to increase the chances of the building surviving (Ref. *A guide to building in Victoria after the bushfires, Victorian Building Commission*).

Although AS3959-2009 is designed to improve the performance of buildings when subjected to bushfire attack in designated bushfire-prone areas, it does not guarantee that a building will survive a bushfire event on every occasion. This is substantially due to the unpredictable nature and behaviour of fire and extreme weather conditions (Ref. *Australian Standard AS3959-2009, Construction of buildings in bushfire-prone areas*).

Disclaimer and warning

To the extent permitted by law, BlueScope Steel excludes all liability (including liability in negligence) for any loss or damage suffered by any person arising out of, or in connection with, any use of or reliance of the information contained in this Fact Sheet.

This Fact Sheet provides general information about the performance of specified complete roofing systems

against Australian Standard AS3959-2009. The information provided is of a general nature only and is based on data available to BlueScope Steel at the time of publication. It is your responsibility to consider the suitability of products to be used in your specific project.

It is important to be aware that compliance with this Fact Sheet does not guarantee that a building or its occupants will survive a bushfire.

AS3959-2009 classifies building sites into six different “Bushfire Attack Levels”. The most severe risk zone is “Bushfire Attack Level – Flame Zone” (BAL-FZ). In this zone, there is an extremely high risk of ember attack and burning debris ignited by windborne embers, and a likelihood of exposure to an extreme level of radiant heat and direct exposure to flames from the fire front (Ref. *Australian Standard 3959-2009*). This is an extremely aggressive environment for all building materials, and building systems that perform in this environment can be expensive and complex to install.

Building performance in a fire event is dependent on the simultaneous performance of a range of building elements including the subfloor, floors, external walls, external glazed elements and assemblies (windows), external doors and the roofing system.

This Fact Sheet relates only to the roofing system requirements of AS3959-2009 and should be used as a guide only.

Australian Standard AS3959–2009: Roofing System

This Fact Sheet contains diagrams with construction details for a range of steel clad roofing systems.

The systems have been assessed by a registered testing authority, Exova Warringtonfire, as being likely to achieve bushfire attack level BAL-FZ if tested in accordance with AS1530.8.2-2007 section 16. The testing method contained in AS1530.8.2-2007 was developed specifically for building materials to be used in bushfire prone areas and is the required test method under AS3959-2009 for BAL-FZ sites.

See the table below for an index of construction details contained in this Fact Sheet:

System Variant	Roof System Construction Material	Page
1	Roof: COLORBOND® or ZINCALUME® steel Battens: TRUECORE® steel Truss: TRUECORE® steel Barrier Material: PROMATECT® 40 board Fascia: COLORBOND® or ZINCALUME® steel	4-12
2	Roof: COLORBOND® or ZINCALUME® steel Battens: TRUECORE® steel Truss: Timber Barrier Material: PROMATECT® 40 board Fascia: COLORBOND® or ZINCALUME® steel	13-21
3	Roof: COLORBOND® or ZINCALUME® steel Battens: TRUECORE® steel Truss: Timber Barrier Material: Plywood Fascia: Timber	22-30

It is essential that the construction details and product specifications for each roofing system set out in this Fact Sheet are strictly followed. Elements of one variant system must not be combined with elements of another variant system. Only the products specified in each variant should be used. Any changes may mean that the system may not meet the performance requirements of AS3959-2009.

The roofing systems detailed in this Fact Sheet contain a combination of BlueScope Steel and non-BlueScope Steel manufactured products:

- BlueScope Steel makes no representation and accepts no liability regarding the performance, durability or health and safety effects of non-BlueScope Steel manufactured

products specified in this Fact Sheet. Variations in the materials and methods of manufacture of those products may affect likely compliance of the roofing system with AS3959-2009.

- Refer to the respective product manufacturers for information regarding these products prior to commencing construction.
- Install all products in accordance with the respective component manufacturer’s recommendations and associated technical data, unless otherwise stated in this Fact Sheet.
- Confirm with the manufacturers of non-BlueScope Steel products that the product specifications have not changed since the date of system assessment (29 June 2009). Other manufacturers’ product specifications change from time to time, even if product names don’t. In the event that the product specifications have changed, the roof system construction details contained in this document should be considered to no longer be likely to comply with the performance requirements of AS3959-2009. You should seek expert advice from an accredited bushfire test lab should this situation arise.
- Prior to commencing work, ensure you read all relevant, product safety information and follow all directions relating to the safe handling and use of each of the products included in the roofing system construction details.

Changes to this Fact Sheet and to Australian Standards

This Fact Sheet will be updated from time to time. Only the most up to date version of this document should be utilised for the construction of your roof system. You should check BlueScope Steel’s website www.bluescopesteel.com.au/bushfiredesign to ensure that you have the latest version of this document.

The design and assessment of the roofing systems detailed in this Fact Sheet has been undertaken with reference to the requirements of Australian Standards AS3959-2009, AS1530.8.2-2007 and AS1530.4-2005. Australian Standards are updated from time to time, and changes may affect the likely compliance of the steel clad roofing systems detailed in this Fact Sheet. Before using this Fact Sheet, you should check whether there have been any revisions to those Standards from the date of publication of this Fact Sheet.

Assessment of roofing systems detailed in this Fact Sheet

In preparing this Fact Sheet BlueScope Steel has relied upon the assessment of the roofing systems detailed in this Fact Sheet undertaken by Exova Warringtonfire (Ref. Exova Warringtonfire Report No: 24286-02, *An assessment of the bushfire attack level (BAL) performance of various sheet metal roof systems in tested in accordance with AS1530.8.2-2007 Section 16 (Flame Zone)*) (15 December 2010).

Using your roofing system

Maintain your roofing system in good order

The components of your roofing system will need to be maintained in accordance with standard practices to achieve optimal roof system performance in a fire event. Degradation of products may impact on system performance in a fire.

Avoid condensation and moisture in your roofing system

The roof space of a house with a roofing system designed to comply with AS3959-2009 is tightly sealed compared to standard steel roofing construction. The combination of a tightly sealed roof cavity and cool climatic conditions can potentially

lead to a build up of moisture and condensation in the roof cavity. This is likely to occur if high levels of moisture enter the roof space, such as venting from bathrooms and kitchens.

Where high levels of moisture entering the roof space cannot be avoided, expert advice should be obtained as excessive condensation can lead to issues including degradation of structural members, wetting of insulation, ceiling stains and leaks and will also void your BlueScope Steel product warranties.

Ensure you comply with warranty terms and conditions
COLORBOND®, TRUCORE® and ZINCALUME® steel are backed by warranties from Australia's BlueScope Steel. To comply

with our warranty terms and conditions, these steels must be isolated from contact with materials that are incompatible with steel products or which are likely to retain moisture. Additionally, these steels must also be isolated from the leachate of such materials. Suitable methods of isolation include painting with an approved product or isolation by impervious membranes.

Installation of your steel clad roofing system strictly in accordance with the details contained in this fact sheet will maximise the performance of your BAL-FZ roofing system. Incorrect installation of the roofing system can invalidate your product warranties. Please refer to www.bluescopesteel.com.au for full warranty terms and conditions, warranty application and eligibility criteria.

Common Questions and Answers:

Q: Will this new building standard save me and my home if a bushfire hits?

A: The new building standard will improve protection for new buildings. However, it does not guarantee that a building or its occupants will survive a bushfire due to the unpredictable nature of bushfires (Ref. *A guide to building in Victoria after the bushfires*, Victorian Building Commission).

Q: Only AS1445 corrugated profile sheeting is shown in the construction details. Can I use other profiles (such as Lysaght KLIP-LOK®) in place of the AS1445 corrugated profile?

A: At this stage only a roofing system with the AS1445 corrugated profile has been assessed for likely compliance with AS3959-2009. As the various roofing profiles may perform slightly differently in a fire event, only those profiles specifically assessed should be utilised in your roofing system.

Q: Why is the roofing system installation so complex?

A: A BAL-FZ site is an aggressive environment for your roof system in the event of a bushfire. A considerable number of small and larger scale fire tests have been carried out to determine the required type and location of fire resistant materials.

Q: How much will the complete roofing system cost?

A: The cost of the steel components in the roofing systems specified in this Fact Sheet will be similar to that for a standard roof, however these steel products must be installed with a range of insulating products. You should refer to your builder for advice regarding the total cost of installing the complete roofing system on your property.

Q: Why do I have to use specific brands of products when constructing my roofing system?

A: The composition and therefore performance of insulating products can vary from brand to brand. The construction details for the roofing systems specified in this Fact Sheet reflect the combination of products that have been assessed as being likely to meet the performance requirements of AS3959-2009. A roofing system constructed in accordance with this Fact Sheet, but with alternately branded products may not meet the performance standards required for BAL-FZ sites.

Q: Are the roofing systems detailed in this fact sheet the only options I have available if I want to use roofing made from COLORBOND® steel on my house?

A: There are other BAL-FZ COLORBOND® steel clad roofing systems now available on the market, however care should be taken when considering these alternate construction details as some systems can impact on the durability of your roof and may invalidate your product warranties (eg. this situation may occur where cladding manufactured from COLORBOND® steel is in contact with an incompatible insulating material).

Q: Can I put penetrations through my roof for items such as roof ventilators, whirlybirds, stink pipes (plumbing vent pipes), TV aerial/satellite dish/solar panel cables and mounts, sky lights, evaporative coolers, etc?

A: The roof systems detailed in this Fact Sheet were designed and tested without roof penetrations. Any changes to the tested systems detailed in this Fact Sheet, including the addition of roof penetrations, may result in the systems not meeting the performance requirements of AS3959-2009.

See following pages for construction details of each of the 3 steel clad roofing systems...

Colorbond® Zinalume® Truecore®

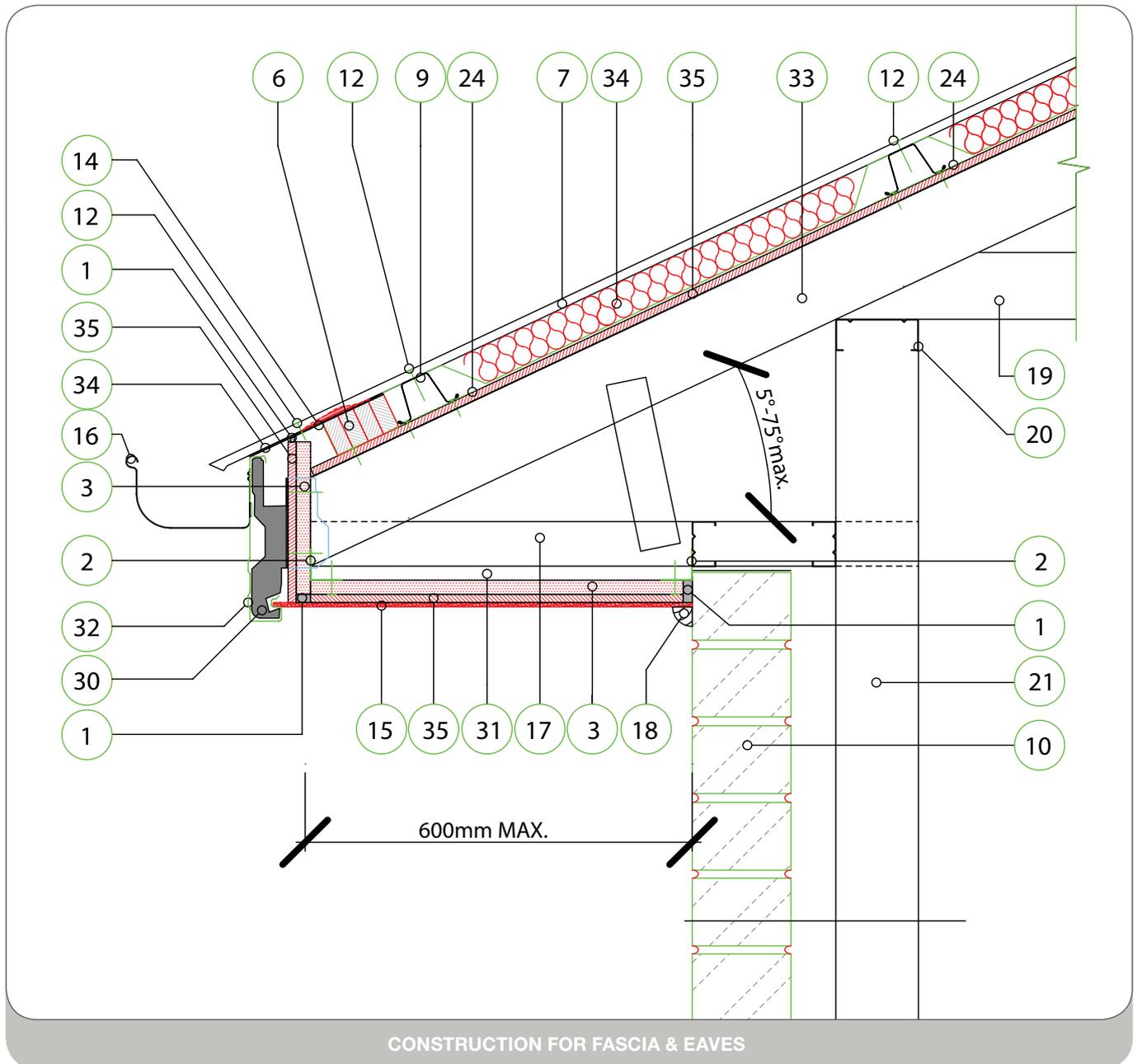


For more information call BlueScope Steel on 1800 022 999 or visit www.bluescopesteel.com

This document provides general information about the performance of a complete roofing system against Australian Standard AS3959-2009 and should not be read as a statement of compliance to AS3959-2009 by COLORBOND® steel roofing materials in isolation of the roofing system. The information provided is of a general nature only and is based on data available to BlueScope Steel at the time of publication. It is your responsibility to consider the suitability of products to be used in your specific project and to confirm that there have been no revisions to the standard from the date of this document's publication. To the extent permitted by law, BlueScope Steel excludes liability for any loss, claim or instance of non-compliance relating in any way to information contained in this document. BlueScope Steel does not make any representations about the performance, durability or health and safety effects of any products used in the system that are not manufactured by BlueScope Steel. Nothing in this document is intended to extend, modify or otherwise affect any published product warranty – other than its performance as a component of the roofing system, BlueScope Steel makes no representations or warranties in relation to roofing material made from COLORBOND® steel including, without limitation, the ongoing use of a roof made from COLORBOND® steel exposed to fire.

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CONSTRUCTION FOR FASCIA & EAVES

ITEM NO. & DESCRIPTIONS

1 PROMAT PROMASEAL® SUPA MASTIC

Installed into gap 6–10mm wide at the eaves fascia and eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.

2 GALVANISED STEEL ANGLE

35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.

3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING

Plasterboard to be fixed at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.

6 CAVITY SEAL INSULATION

Bradford Fibretex 650 Rockwool 75mm thick.

At eaves – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).

7 CORRUGATED ROOF SHEETING

0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.

Roof sheeting installed to structural battens by at least one fixing every second corrugation.

At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.

9 ROOFING BATTENS – TRUECORE® STEEL

40mm deep steel batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.

10 SUPPORT WALL – SINGLE LEAF BRICKWORK

Wall otherwise tested or assessed to achieve a performance of BAL-FZ.

12 ROOF SHEETING SCREWS

Self-drilling hex head with EPDM seal and shank guard.

Size to suit structural requirements – for location refer to item 7.

14 CAVITY CLOSURE FLASHING

'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.

Fixed at fascia to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

15 EAVES LINING

4.5mm fibre cement sheeting.

Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the joint. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

16 EAVES GUTTER

Eaves gutter made from COLORBOND® or ZINCALUME® steel (any profile) fixed to steel fascia (item 32).

17 EAVES STEEL TRIMMER

To support eaves linings ie. Promatect® 40 board, fire-rated plasterboard and fibre cement sheeting. To be sized in accordance with the relevant framing standards.

18 QUAD BEADING

Fixed at junction of soffit and support wall.

19 STEEL CEILING JOISTS

To be sized in accordance with the relevant framing standards.

20 STEEL STUD TOP PLATE

To be sized in accordance with the relevant framing standards.

21 STEEL STUD WALL

To be sized in accordance with the relevant framing standards.

24 110MM WIDE DAMP PROOF COURSE

110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.

30 MULTI-PURPOSE FASCIA BRACKET

Made from ZINCALUME® or galvanised steel. Fixed through the fascia to the ends of the rafters at each rafter point. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

31 EAVES PACKING SECTION

Packing fixed to the underside of the eaves trimmer to support eaves lining, fire-rated plasterboard and Promatect® 40 board.

32 STEEL FASCIA

Made from ZINCALUME® or COLORBOND® steel supported by Multi-Purpose Fascia Brackets (item 30).

33 ROOF STEEL FRAMING – RAFTER

Steel framing or trusses designed in accordance with the relevant framing standards and spaced at 600, 900 or 1200 centres. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

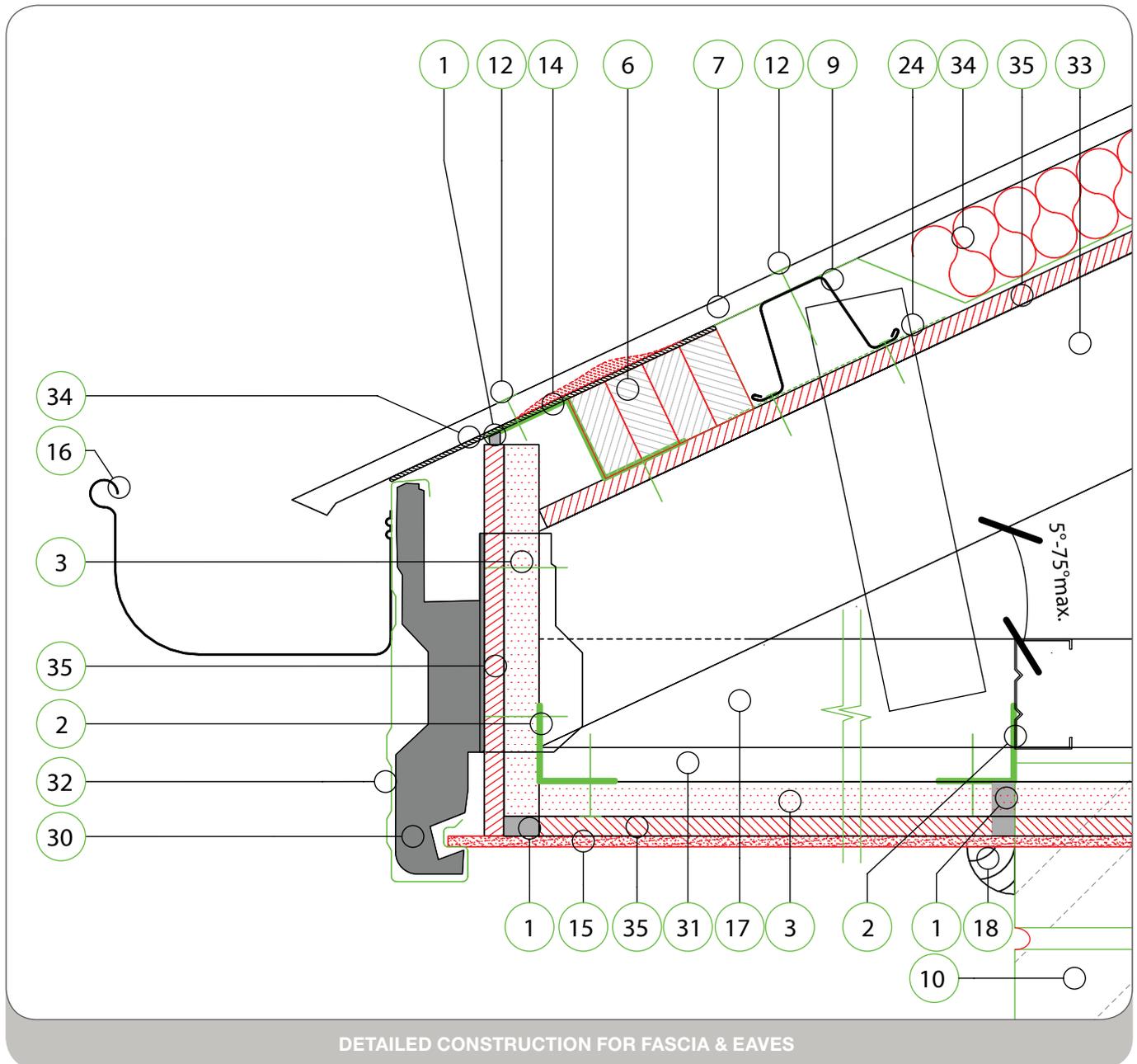
34 ROOF INSULATION AND SARKING

60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.

At fascia – sarking foil continuous past fascia, but no further than end of sheeting.

35 9MM PROMATECT® 40 BOARD

Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing and orientated so that all joints do not fall on joints in the plasterboard. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).



DETAILED CONSTRUCTION FOR FASCIA & EAVES

ITEM NO. & DESCRIPTIONS

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| <p>1 PROMAT PROMASEAL® SUPA MASTIC
Installed into gap 6–10mm wide at the eaves fascia and eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.</p> <p>2 GALVANISED STEEL ANGLE
35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.</p> <p>3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING
Plasterboard to be fixed at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.</p> <p>6 CAVITY SEAL INSULATION
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).</p> | <p>7 CORRUGATED ROOF SHEETING
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.</p> <p>9 ROOFING BATTENS – TRUECORE® STEEL
40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.</p> <p>10 SUPPORT WALL – SINGLE LEAF BRICKWORK
Wall otherwise tested or assessed to achieve a performance of BAL-FZ.</p> <p>12 ROOF SHEETING SCREWS
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.</p> |
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14 CAVITY CLOSURE FLASHING

'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.

Fixed at fascia to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

15 EAVES LINING

4.5mm fibre cement sheeting.

Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the joint. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

16 EAVES GUTTER

Eaves gutter made from COLORBOND® or ZINCALUME® steel (any profile) fixed to steel fascia (item 32).

17 EAVES STEEL TRIMMER

To support eaves linings ie. Promatect® 40 board, fire-rated plasterboard and fibre cement sheeting. To be sized in accordance with the relevant framing standards.

18 QUAD BEADING

Fixed at junction of soffit and support wall.

24 110MM WIDE DAMP PROOF COURSE

110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.

30 MULTI-PURPOSE FASCIA BRACKET

Made from ZINCALUME® or galvanised steel. Fixed through the fascia to the ends of the rafters at each rafter point. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

31 EAVES PACKING SECTION

Packing fixed to the underside of the eaves trimmer to support eaves lining, fire-rated plasterboard and Promatect® 40 board.

32 STEEL FASCIA

Made from ZINCALUME® or COLORBOND® steel supported by Multi-Purpose Fascia Brackets (item 30).

33 ROOF STEEL FRAMING – RAFTER

Steel framing or trusses designed in accordance with the relevant framing standards and spaced at 600, 900 or 1200 centres. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

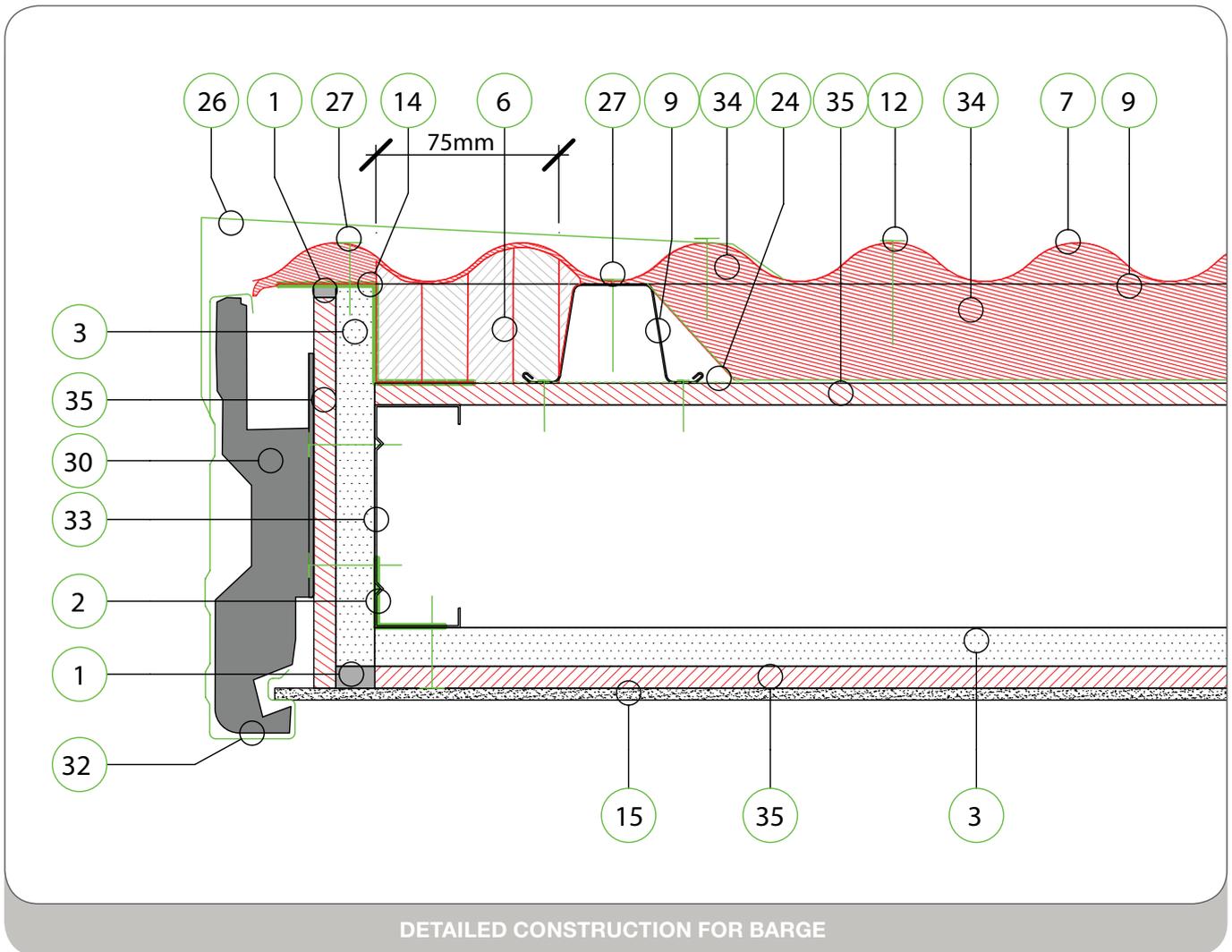
34 ROOF INSULATION AND SARKING

60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.

At fascia – sarking foil continuous past fascia, but no further than end of sheeting.

35 9MM PROMATECT® 40 BOARD

Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing and orientated so that all joints do not fall on joints in the plasterboard. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).



DETAILED CONSTRUCTION FOR BARGE

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap 6–10mm wide at the eaves fascia and eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm (min) eaves framing angle – fixed to the end of trusses and along wall to support eaves lining.
- 3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING**
Plasterboard to be fixed at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At barge – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting.
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans. Additional batten fixed parallel to barge rafter 75mm in from cavity closure flashing. Rockwool insulation (item 6) between additional batten and cavity closure flashing.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at barge to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 15 EAVES LINING**
4.5mm fibre cement sheeting.
Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the joint. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.

26 BARGE CAPPING

Barge capping made from COLORBOND® or ZINCALUME® steel – 200mm x nominal 75mm leg.

27 ROOF SHEETING SCREWS ALONG BARGE

Roof sheeting screwed to cavity closure flashing and parallel batten at 100mm centres.

Where screw locations coincide with the roof sheet crest, pan head screws shall be used.

30 MULTI-PURPOSE FASCIA BRACKET

Made from ZINCALUME® or galvanised steel. Fixed through the fascia to the ends of the rafters at each rafter point. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

32 STEEL BARGE FASCIA

Made from ZINCALUME® or COLORBOND® steel supported by Multi-Purpose Fascia Brackets (item 30).

33 ROOF STEEL FRAMING

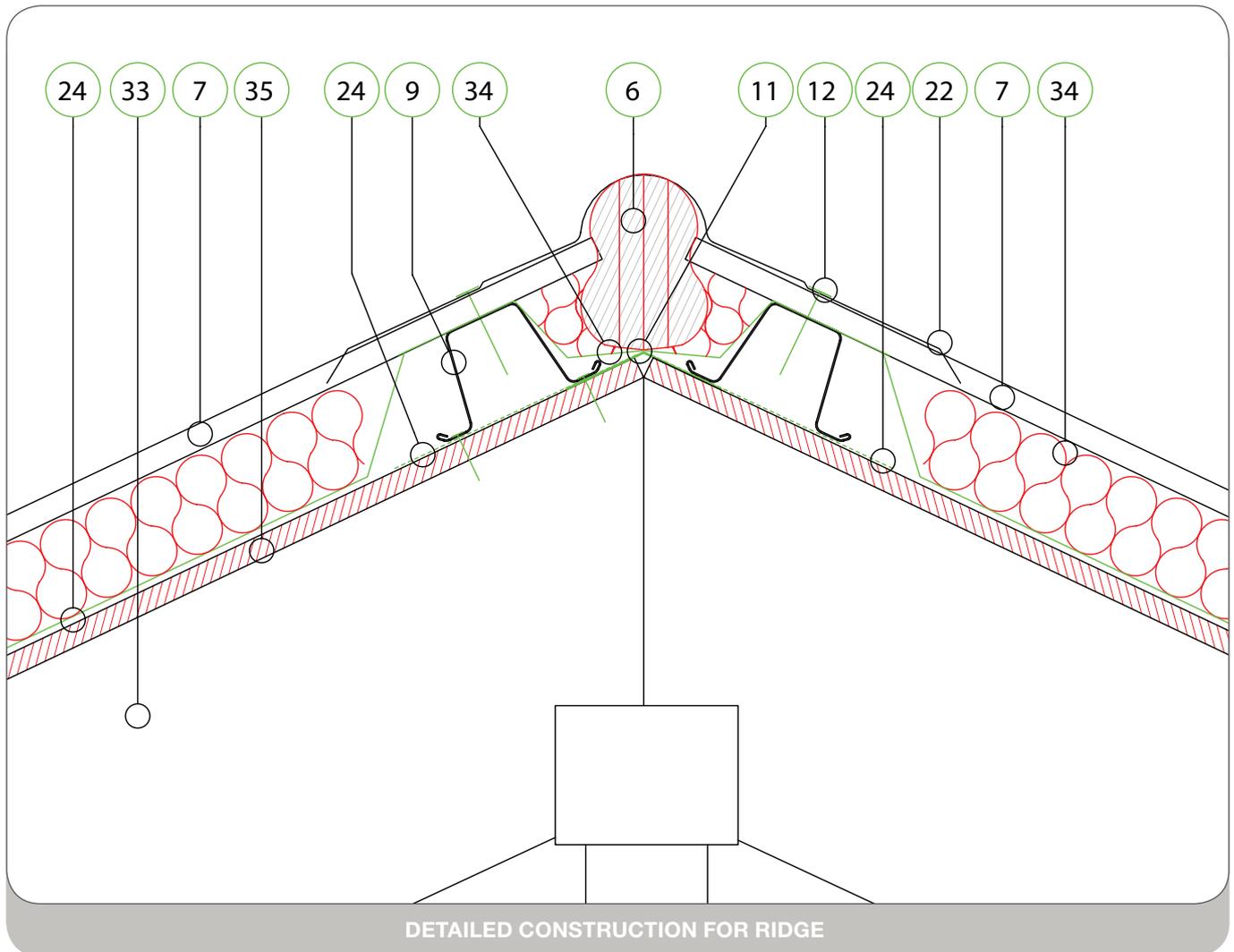
Steel framing or trusses designed in accordance with the relevant framing standards and spaced at 600, 900 or 1200 centres. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

34 ROOF INSULATION AND SARKING

60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.

35 9MM PROMATECT® 40 BOARD

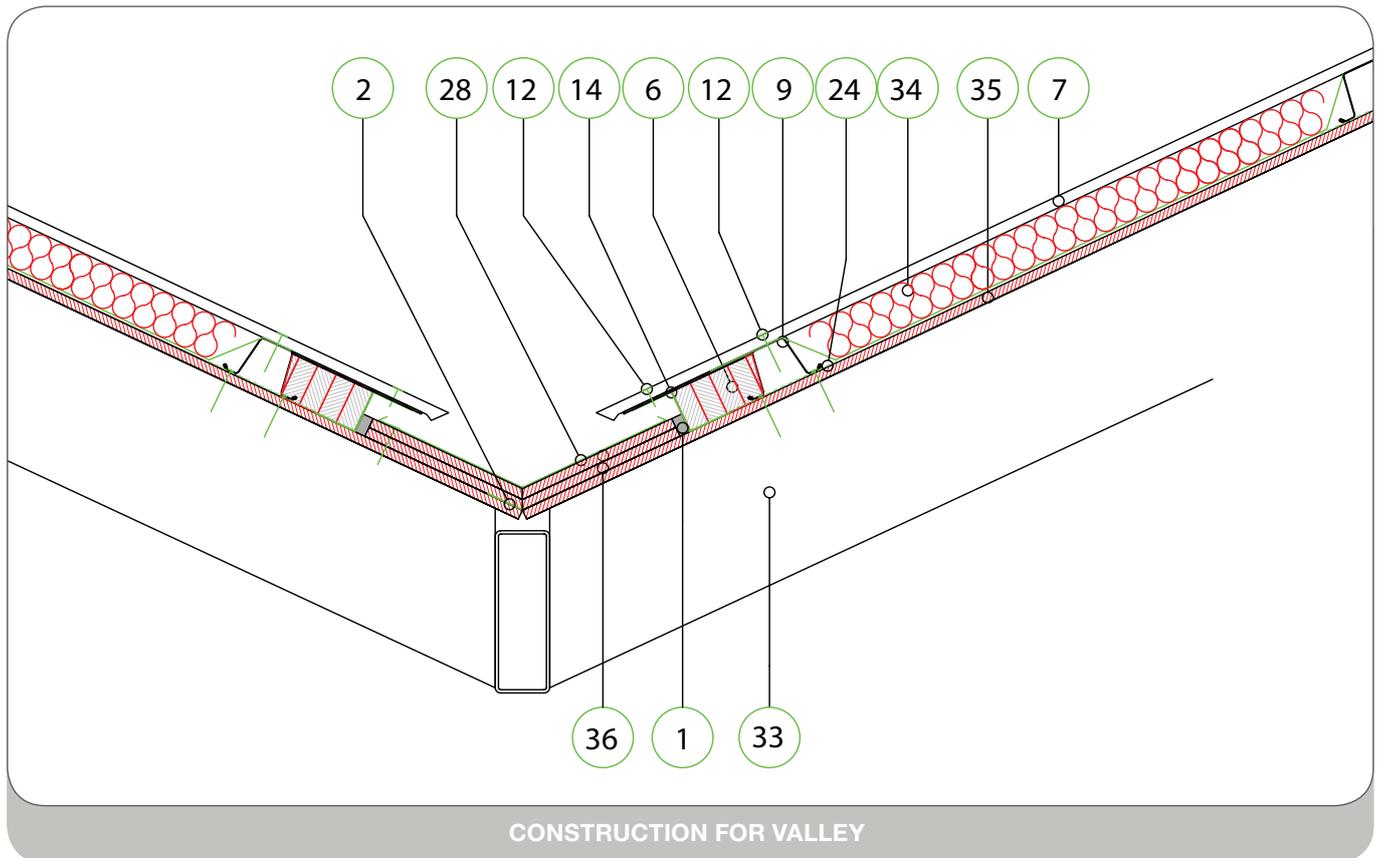
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing and orientated so that all joints do not fall on joints in the plasterboard. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).



DETAILED CONSTRUCTION FOR RIDGE

ITEM NO. & DESCRIPTIONS

- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At ridge – install a strip 90mm wide to gap between roof sheet edges so that Rockwool is compressed to 50% of original thickness.
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At ridge – the sheeting should be fixed at every second corrugation with fixings (item 12) through the sheeting into the structural batten. The ridge capping should be fixed on alternate corrugations through the ridge capping and sheeting (every second corrugation).
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 11 GALVANISED STEEL FLASHING**
35mm x 35mm x 0.55mm flashing fixed at joint in Promatect® at ridge and hips to cover gaps between Promatect® 40 linings. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 22 RIDGE CAPPING**
Ridge capping made from COLORBOND® or ZINCALUME® steel (any profile). Approx. 310mm wide.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.
- 33 ROOF STEEL FRAMING – RAFTER**
Steel framing or trusses designed in accordance with the relevant framing standards and spaced at 600, 900 or 1200 centres. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 34 ROOF INSULATION AND SARKING**
60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 35 9MM PROMATECT® 40 BOARD**
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).

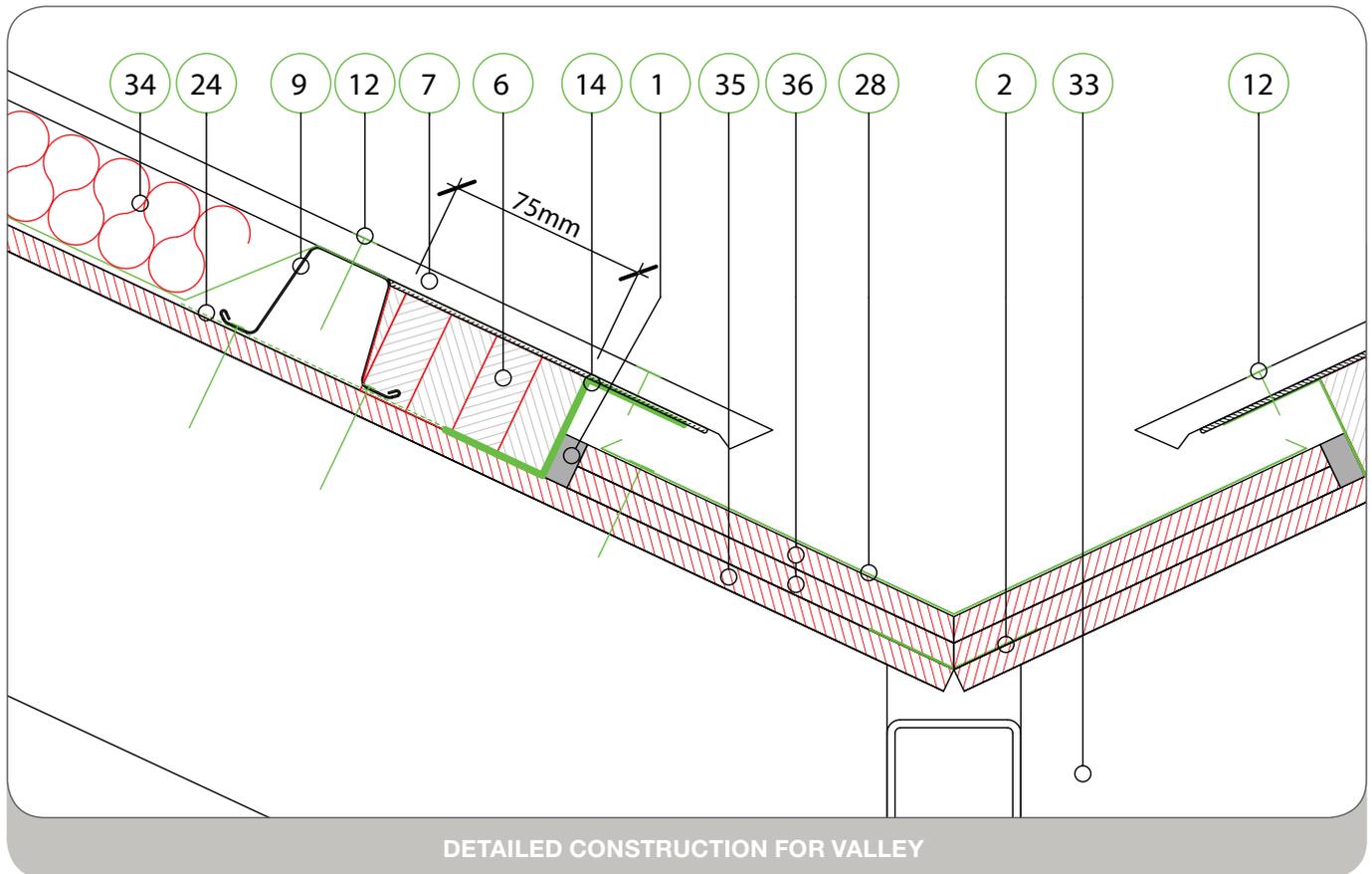


CONSTRUCTION FOR VALLEY

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap at the side of the valley linings.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – roof lining flashing.
Fixed at the joint of Promatect® 40 at the apex of the valley to cover gaps between Promatect® 40 linings. Promatect® 40 board to be isolated from steel by Tremco Brushable Hydroseal.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves and valleys – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At valley – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at valley to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.
- 28 VALLEY GUTTER**
Valley gutter made from COLORBOND® or ZINCALUME® steel complying with relevant standards secured through the valley lining into the roof linings with screws at nominal 300 centres down each side.
- 33 ROOF STEEL FRAMING – RAFTER**
Steel framing or trusses designed in accordance with the relevant framing standards and spaced at 600, 900 or 1200 centres.
Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 34 ROOF INSULATION AND SARKING**
60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 35 9MM PROMATECT® 40 BOARD**
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joins shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).
- 36 2 LAYERS OF PROMATECT® 40 BOARD TO VALLEY GUTTER**
Cut to fit under the valley gutter and wrapped with Proctor Roof Shield for protection from affect of water. Promatect® 40 board nominally fixed to roof lining only to hold in position. Butt joints in Promatect® 40 board offset between layers.

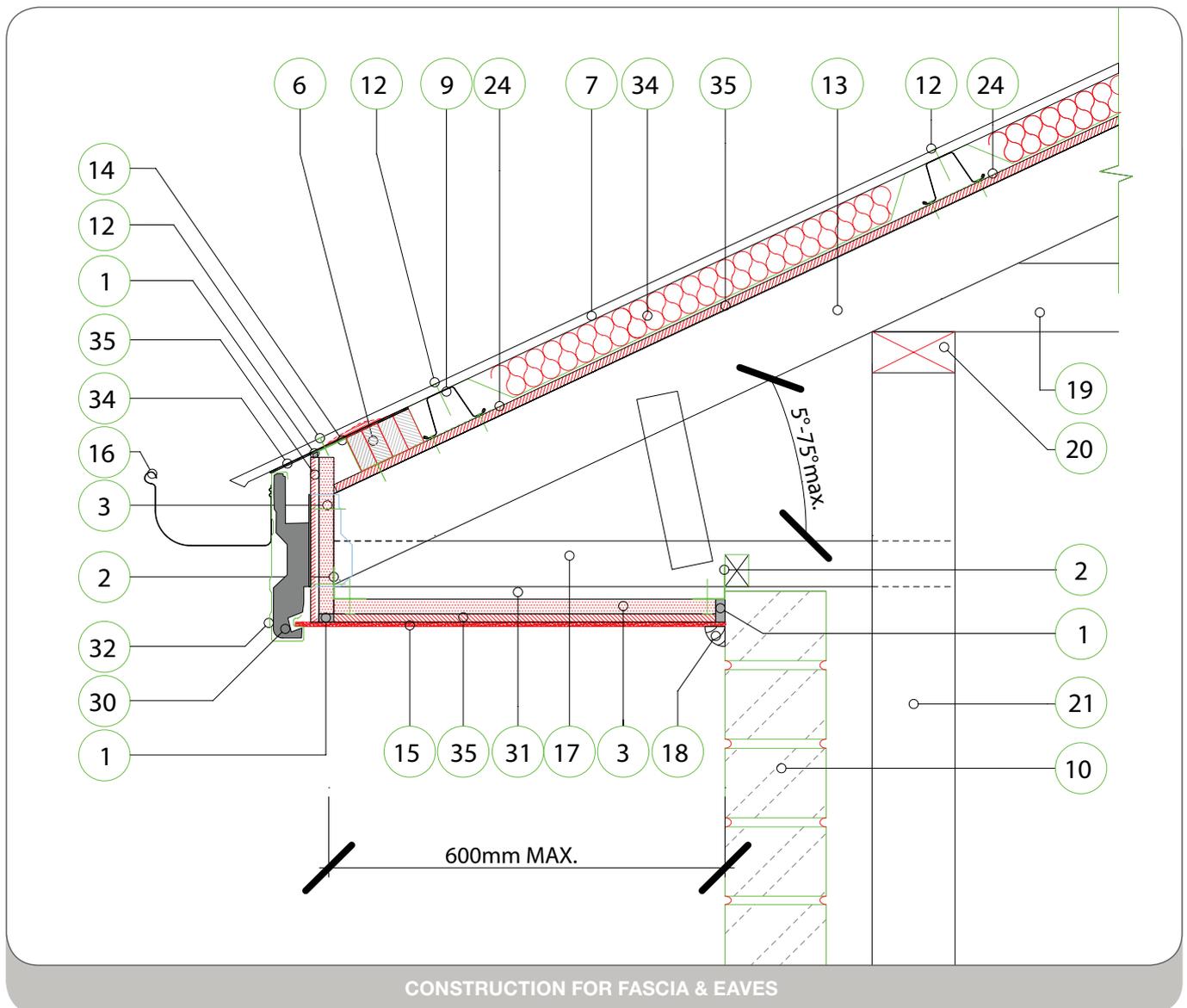
STEEL FRAME, PROMATECT® 40 BARRIER MATERIAL, TRUCORE® STEEL BATTENS, METAL FASCIA



DETAILED CONSTRUCTION FOR VALLEY

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap at the side of the valley linings.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – roof lining flashing.
Fixed at the joint of Promatect® 40 at the apex of the valley to cover gaps between Promatect® 40 linings. Promatect® 40 board to be isolated from steel by Tremco Brushable Hydroseal.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves and valleys – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At valley – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 9 ROOFING BATTENS – TRUCORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at valley to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.
- 28 VALLEY GUTTER**
Valley gutter made from COLORBOND® or ZINCALUME® steel complying with relevant standards secured through the valley lining into the roof linings with screws at nominal 300 centres down each side.
- 33 ROOF STEEL FRAMING – RAFTER**
Steel framing or trusses designed in accordance with the relevant framing standards and spaced at 600, 900 or 1200 centres.
Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 34 ROOF INSULATION AND SARKING**
60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 35 9MM PROMATECT® 40 BOARD**
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joins shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).
- 36 2 LAYERS OF PROMATECT® 40 BOARD TO VALLEY GUTTER**
Cut to fit under the valley gutter and wrapped with Proctor Roof Shield for protection from affect of water. Promatect® 40 board nominally fixed to roof lining only to hold in position. Butt joints in Promatect® 40 board offset between layers.



CONSTRUCTION FOR FASCIA & EAVES

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap 6–10mm wide at the eaves fascia and eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.
- 3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING**
Plasterboard to be fixed at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
- At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 10 SUPPORT WALL – SINGLE LEAF BRICKWORK**
Wall otherwise tested or assessed to achieve a performance of BAL-FZ.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING – RAFTER**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at fascia to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

15 EAVES LINING

4.5mm fibre cement sheeting.

Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the join. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

16 EAVES GUTTER

Eaves gutter made from COLORBOND® or ZINCALUME® steel (any profile) fixed to steel fascia (item 32).

17 EAVES TIMBER TRIMMER

To support eaves linings ie. Promatect® 40 board, fire-rated plasterboard and fibre cement sheeting. To be sized in accordance with the relevant framing standards.

18 QUAD BEADING

Fixed at junction of soffit and support wall.

19 TIMBER CEILING JOISTS

To be sized in accordance with the relevant framing standards.

20 TIMBER STUD TOP PLATE

To be sized in accordance with the relevant framing standards.

21 TIMBER STUD WALL

To be sized in accordance with the relevant framing standards.

24 110MM WIDE DAMP PROOF COURSE

110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.

30 MULTI-PURPOSE FASCIA BRACKET

Made from ZINCALUME® or galvanised steel. Fixed through the fascia to the ends of the rafters at each rafter point. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

31 EAVES PACKING SECTION

Packing fixed to the underside of the eaves trimmer to support eaves lining, fire-rated plasterboard and Promatect® 40 board.

32 STEEL FASCIA

Made from ZINCALUME® or COLORBOND® steel supported by Multi-Purpose Fascia Brackets (item 30).

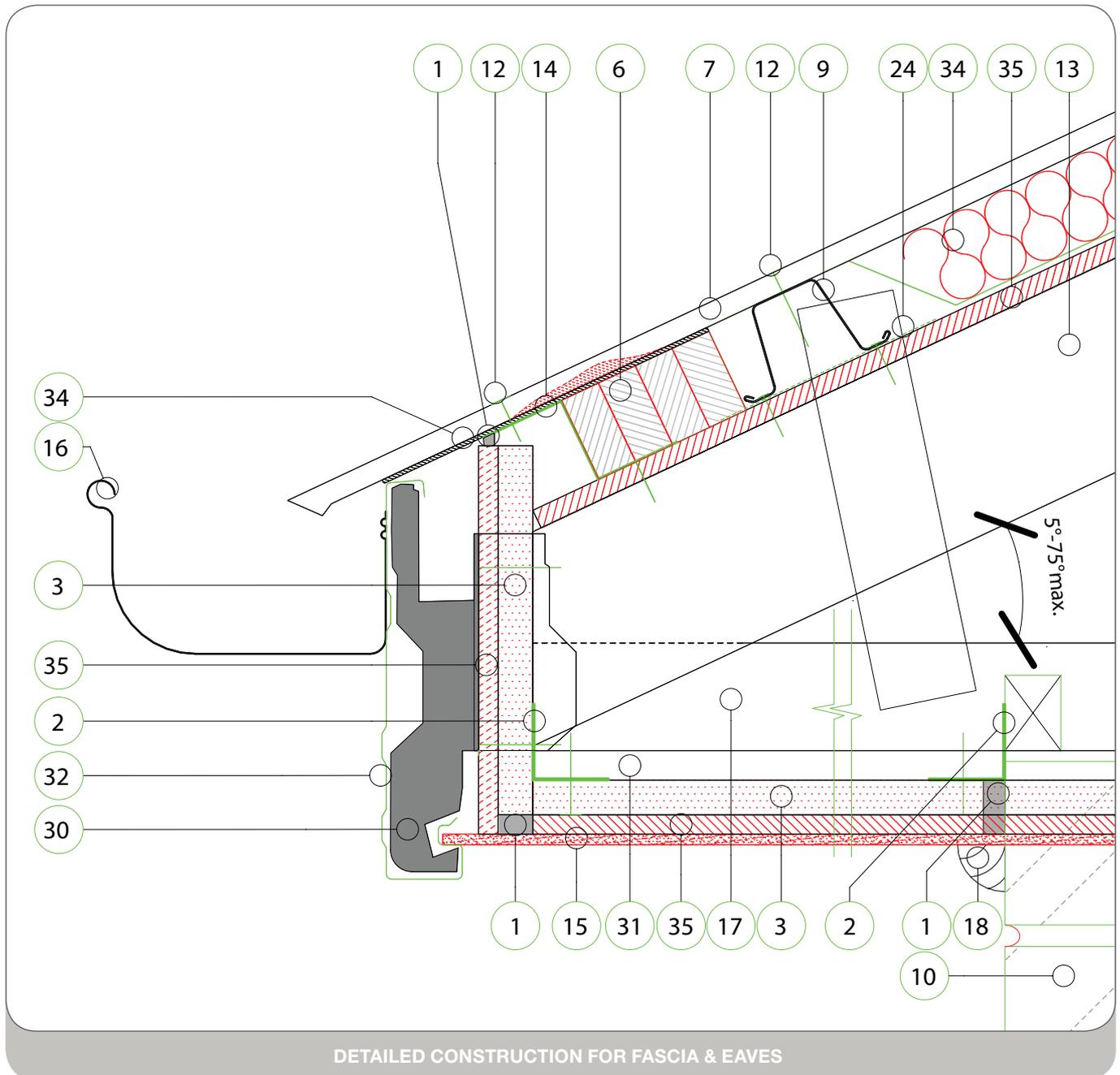
34 ROOF INSULATION AND SARKING

60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.

At fascia – sarking foil continuous past fascia, but no further than end of sheeting.

35 9MM PROMATECT® 40 BOARD

Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing and orientated so that all joints do not fall on joints in the plasterboard. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).



DETAILED CONSTRUCTION FOR FASCIA & EAVES

ITEM NO. & DESCRIPTIONS

1 PROMAT PROMASEAL® SUPA MASTIC

Installed into gap 6–10mm wide at the eaves fascia and eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.

2 GALVANISED STEEL ANGLE

35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.

3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING

Plasterboard to be fixed at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.

6 CAVITY SEAL INSULATION

Bradford Fibretex 650 Rockwool 75mm thick.

At eaves – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).

7 CORRUGATED ROOF SHEETING

0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.

Roof sheeting installed to structural battens by at least one fixing every second corrugation.

At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.

9 ROOFING BATTENS – TRUECORE® STEEL

40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.

10 SUPPORT WALL – SINGLE LEAF BRICKWORK

Wall otherwise tested or assessed to achieve a performance of BAL-FZ.

12 ROOF SHEETING SCREWS

Self-drilling hex head with EPDM seal and shank guard.

Size to suit structural requirements – for location refer to item 7.

13 ROOF TIMBER FRAMING – RAFTER

Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.

14 CAVITY CLOSURE FLASHING

'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.

Fixed at fascia to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

15 EAVES LINING

4.5mm fibre cement sheeting.

Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the join. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

16 EAVES GUTTER

Eaves gutter made from COLORBOND® or ZINCALUME® steel (any profile) fixed to steel fascia (item 32).

17 EAVES TIMBER TRIMMER

To support eaves linings ie. Promatect® 40 board, fire-rated plasterboard and fibre cement sheeting. To be sized in accordance with the relevant framing standards.

18 QUAD BEADING

Fixed at junction of soffit and support wall.

24 110MM WIDE DAMP PROOF COURSE

110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.

30 MULTI-PURPOSE FASCIA BRACKET

Made from ZINCALUME® or galvanised steel. Fixed through the fascia to the ends of the rafters at each rafter point. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

31 EAVES PACKING SECTION

Packing fixed to the underside of the eaves trimmer to support eaves lining, fire-rated plasterboard and Promatect® 40 board.

32 STEEL FASCIA

Made from ZINCALUME® or COLORBOND® steel supported by Multi-Purpose Fascia Brackets (item 30).

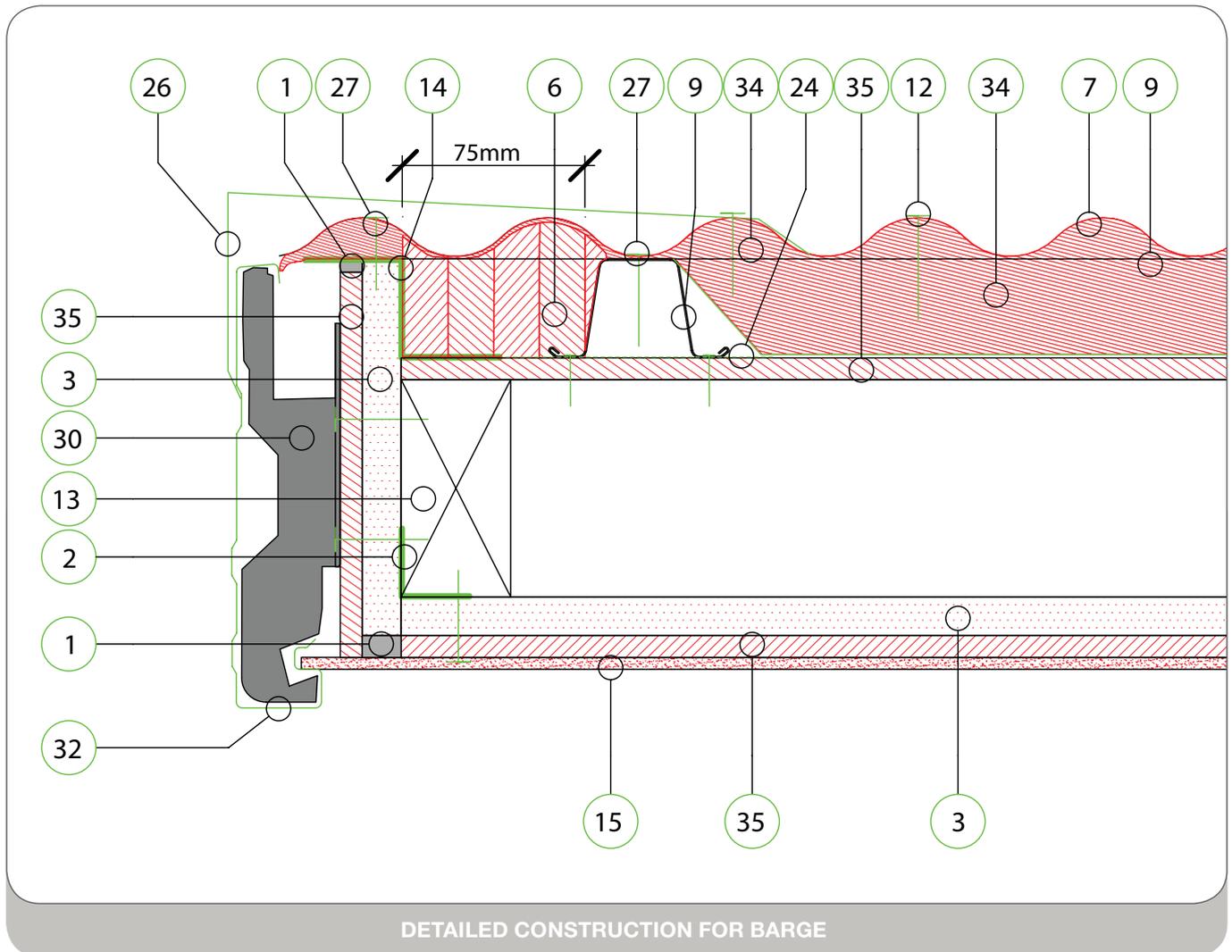
34 ROOF INSULATION AND SARKING

60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.

At fascia – sarking foil continuous past fascia, but no further than end of sheeting.

35 9MM PROMATECT® 40 BOARD

Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing and orientated so that all joints do not fall on joints in the plasterboard. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).



DETAILED CONSTRUCTION FOR BARGE

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap 6–10mm wide at the junction of the eaves lining (item 15) and fascia (item 32) as well as the junction of the fascia (item 4) and the cavity closure flashing (item 14).
Installed into a gap 3mm wide at the recessed plaster joints backed by framing.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.
Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING**
Plasterboard to be fixed at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At barge – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting.
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
- 9 ROOFING BATTENS – TRUCORE® STEEL**
40mm deep steel roof batten fixed through Promatect lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans. Additional batten fixed parallel to barge rafter 75mm in from cavity closure flashing. Rockwool insulation (item 6) between additional batten and cavity closure flashing.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at barge to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 15 EAVES LINING**
4.5mm fibre cement sheeting.
Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the joint. Sheetting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

24 110MM WIDE DAMP PROOF COURSE

110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.

26 BARGE CAPPING

Barge capping made from COLORBOND® or ZINCALUME® steel – 200mm x nominal 75mm leg.

27 ROOF SHEETING SCREWS ALONG BARGE

Roof sheeting screwed to cavity closure flashing and parallel batten at 100mm centres.

Where screw locations coincide with the roof sheet crest, pan head screws shall be used.

30 MULTI-PURPOSE FASCIA BRACKET

Made from ZINCALUME® or galvanised steel. Fixed through the fascia to the ends of the rafters at each rafter point. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.

32 STEEL BARGE FASCIA

Made from ZINCALUME® or COLORBOND® steel supported by Multi-Purpose Fascia Brackets (item 30).

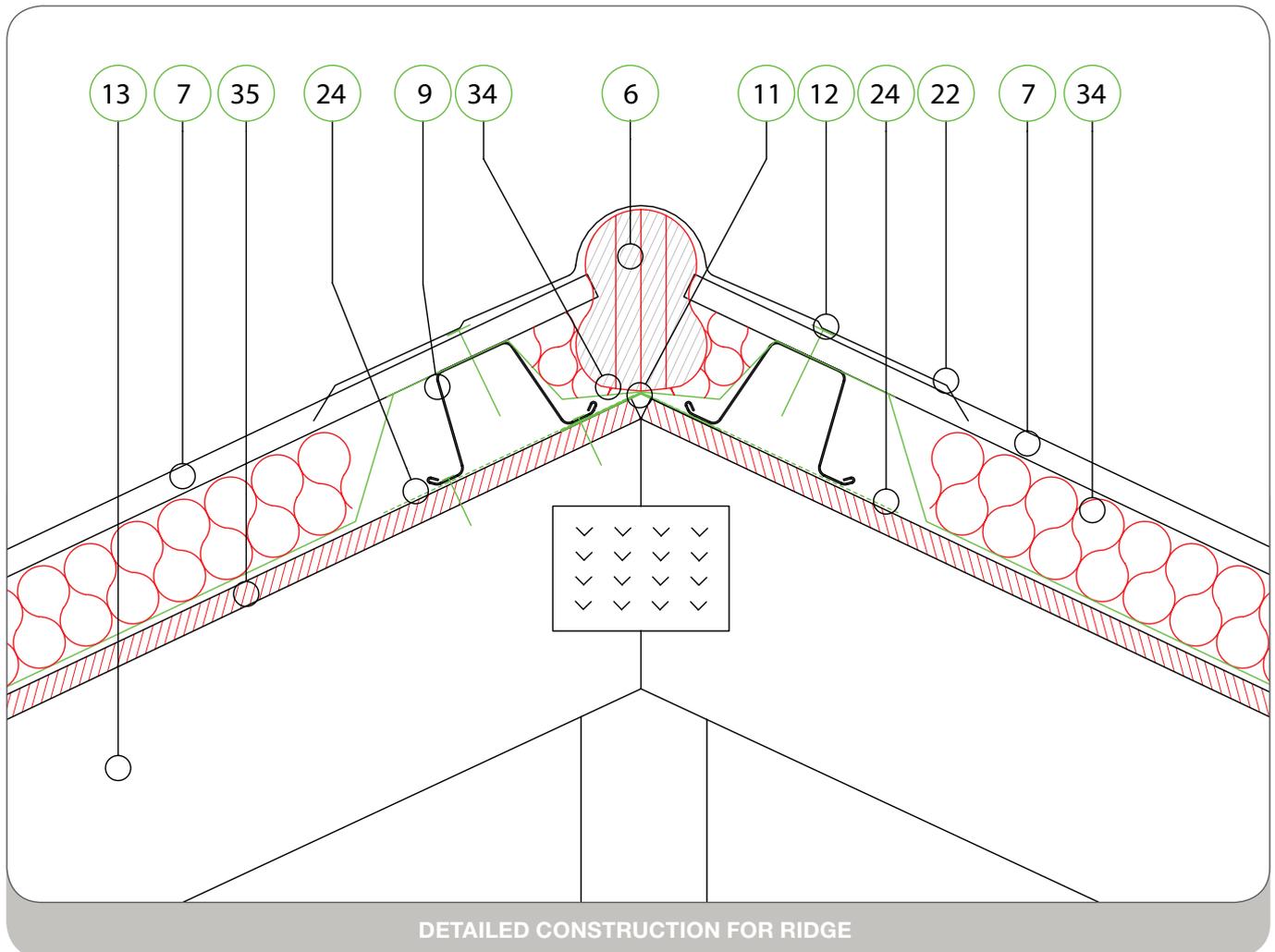
34 ROOF INSULATION AND SARKING

60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.

35 9MM PROMATECT® 40 BOARD

Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing and orientated so that all joints do not fall on joints in the plasterboard. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).

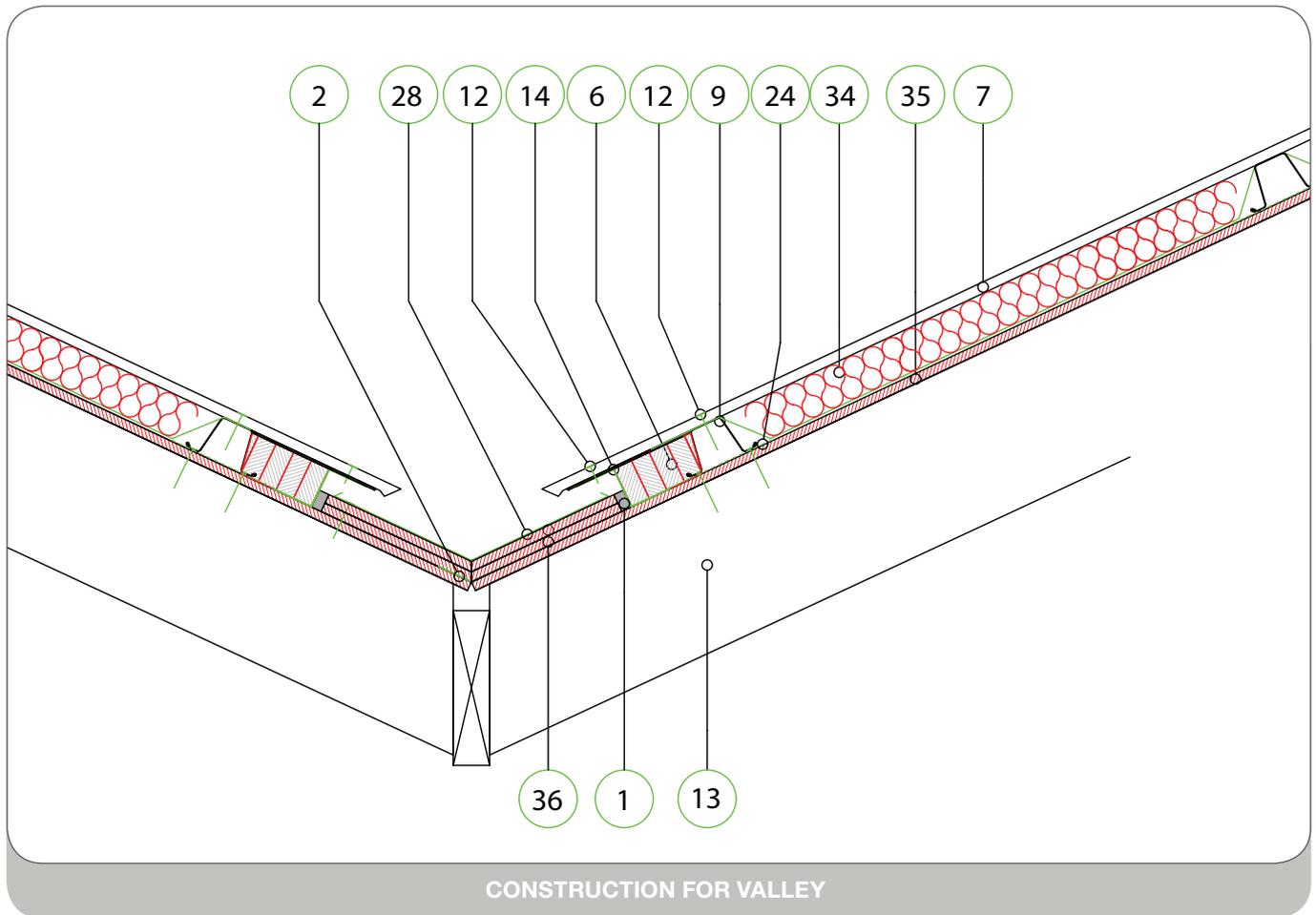
TIMBER FRAME, PROMATECT® 40 BARRIER MATERIAL, TRUECORE® STEEL BATTENS, METAL FASCIA



DETAILED CONSTRUCTION FOR RIDGE

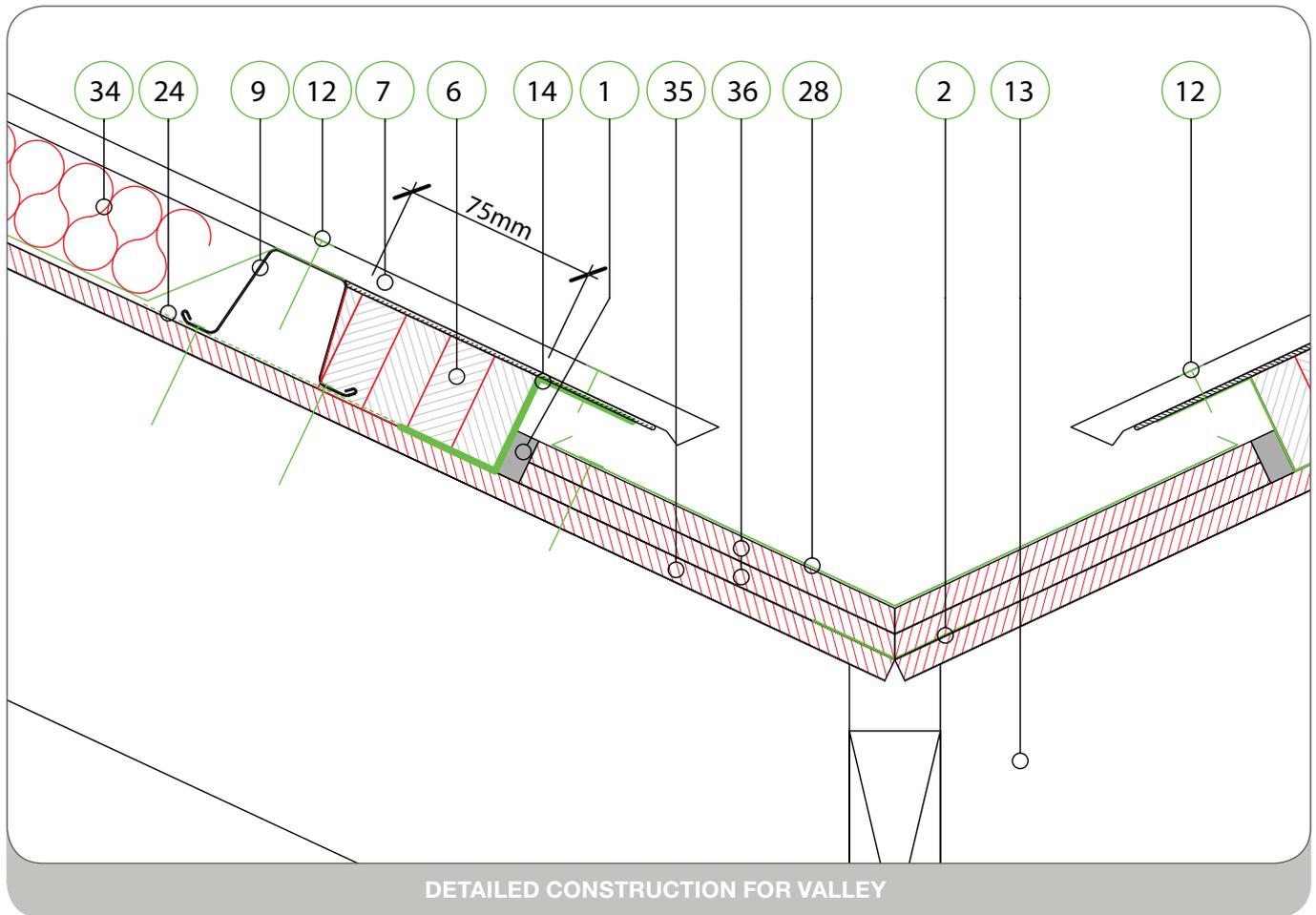
ITEM NO. & DESCRIPTIONS

- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At ridge – install a strip 90mm wide to gap between roof sheet edges so that Rockwool is compressed to 50% of original thickness.
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At ridge – the sheeting should be fixed at every second corrugation with fixings (item 12) through the sheeting into the structural batten. The ridge capping should be fixed on alternate corrugations through the ridge capping and sheeting (every second corrugation).
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 board lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 11 GALVANISED STEEL FLASHING**
35mm x 35mm x 0.55mm minimum flashing fixed at joint of Promatect® 40 at ridge and hips to cover gaps between Promatect® 40 linings. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING – RAFTER**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 22 RIDGE CAPPING**
Ridge capping made from COLORBOND® or ZINCALUME® steel (any profile). Approx. 310mm wide.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.
- 34 ROOF INSULATION AND SARKING**
60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 35 9MM PROMATECT® 40 BOARD**
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).



ITEM NO. & DESCRIPTIONS

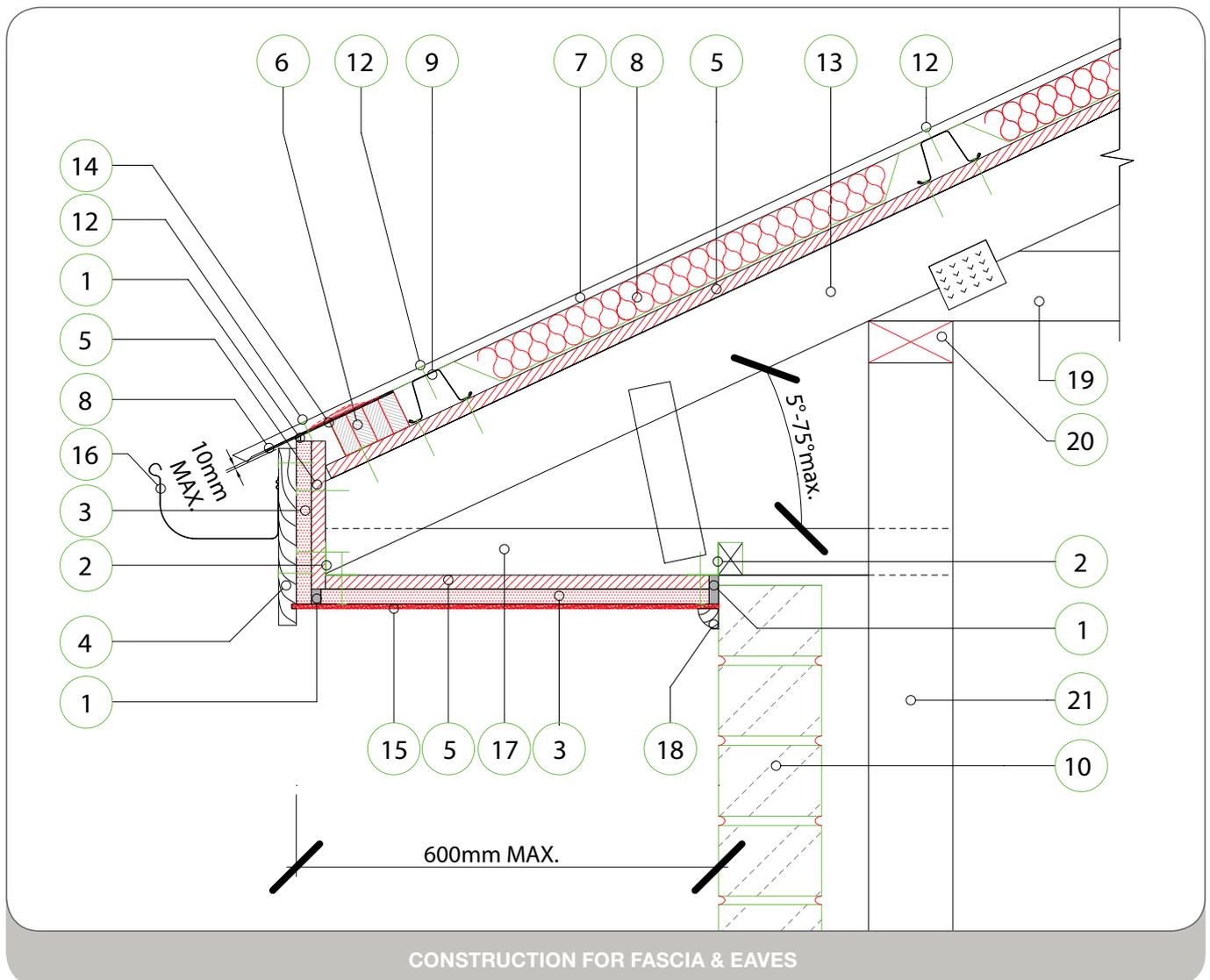
- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap at the side of the valley linings.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – roof lining flashing.
Fixed at the joint of Promatect® 40 at the apex of the valley to cover gaps between Promatect® 40 linings. Promatect® 40 board to be isolated from steel by Tremco Brushable Hydroseal.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves and valleys – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At valley – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 9 ROOFING BATTENS – TRUCORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING – RAFTER**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at valley to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.
- 28 VALLEY GUTTER**
Valley gutter made from COLORBOND® or ZINCALUME® steel complying with relevant standards secured through the valley lining into the roof linings with screws at nominal 300 centres down each side.
- 34 ROOF INSULATION AND SARKING**
60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 35 9MM PROMATECT® 40 BOARD**
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).
- 36 2 LAYERS OF PROMATECT® 40 BOARD TO VALLEY GUTTER**
Cut to fit under the valley gutter and wrapped with Proctor Roof Shield for protection from affect of water. Promatect® 40 board nominally fixed to roof lining only to hold in position. Butt joints in Promatect® 40 board offset between layers.



DETAILED CONSTRUCTION FOR VALLEY

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap at the side of the valley linings.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – roof lining flashing.
Fixed at the joint of Promatect® 40 at the apex of the valley to cover gaps between Promatect® 40 linings. Promatect® 40 board to be isolated from steel by Tremco Brushable Hydroseal.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves and valleys – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 34) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At valley – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through Promatect® 40 board and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING – RAFTER**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at valley to Promatect® 40 board at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia. Promatect® 40 board to be isolated from steel using Tremco Brushable Hydroseal.
- 24 110MM WIDE DAMP PROOF COURSE**
110mm wide x 500 micron thick polyethylene damp proof course to be located between steel roof battens and Promatect® 40 lining.
- 28 VALLEY GUTTER**
Valley gutter made from COLORBOND® or ZINCALUME® steel complying with relevant standards secured through the valley lining into the roof linings with screws at nominal 300 centres down each side.
- 34 ROOF INSULATION AND SARKING**
60mm thick Bradford Light Duty Anticon™ 55 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 35 9MM PROMATECT® 40 BOARD**
Promatect® 40 board arranged so that all butt joints parallel to rafters fall on framing. Promatect® 40 board to be fixed using countersunk 's' point screws 6g x 35mm at 200mm centres. Joints shall be left open and 6–10mm wide gaps filled with fire rated sealant (item 1).
- 36 2 LAYERS OF PROMATECT® 40 BOARD TO VALLEY GUTTER**
Cut to fit under the valley gutter and wrapped with Proctor Roof Shield for protection from affect of water. Promatect® 40 board nominally fixed to roof lining only to hold in position. Butt joints in Promatect® 40 board offset between layers.



CONSTRUCTION FOR FASCIA & EAVES

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap 6–10mm wide at the eaves fascia & eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.
- 3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING**
Lining orientated so that all joints do not fall on joints in plywood. Plasterboard to be fixed to plywood at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm centre spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed to plywood at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.
- 4 TIMBER FASCIA**
Pine – 19mm x “width as required to achieve tolerance” (10mm max. gap – refer to item 8).
- 5 15MM THICK SEASONED PINE PLYWOOD**
Plywood arranged such that all butt joints fall on framing and tongue and groove joints run perpendicular to framing. Plywood behind fascia to be touching plywood on rafter (no gaps) fixing in accordance with timber framing code.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 8 ROOF INSULATION & SARKING**
80mm thick Bradford Light Duty Anticon™ 75 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
At fascia – sarking foil to be continuous past fascia, but no further than end of roof sheeting – gap between roof sheeting and fascia to be no more than 10mm.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through plywood lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 10 SUPPORT WALL – SINGLE LEAF BRICKWORK**
Wall otherwise tested or assessed to achieve a performance of BAL-FZ.

12 ROOF SHEETING SCREWS

Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.

13 ROOF TIMBER FRAMING – RAFTER

Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.

14 CAVITY CLOSURE FLASHING

'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at fascia to 15mm plywood at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia.

15 EAVES LINING

4.5mm fibre cement sheeting.
Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the joint. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

16 EAVES GUTTER

Eaves gutter made from COLORBOND® or ZINCALUME® steel (any profile) fixed to timber fascia (item 4).

17 EAVES TIMBER TRIMMER

To support eaves linings ie. plywood, fire-rated plasterboard & fibre cement sheeting. To be sized in accordance with the relevant framing standards.

18 QUAD BEADING

Fixed at junction of soffit & support wall.

19 TIMBER CEILING JOISTS

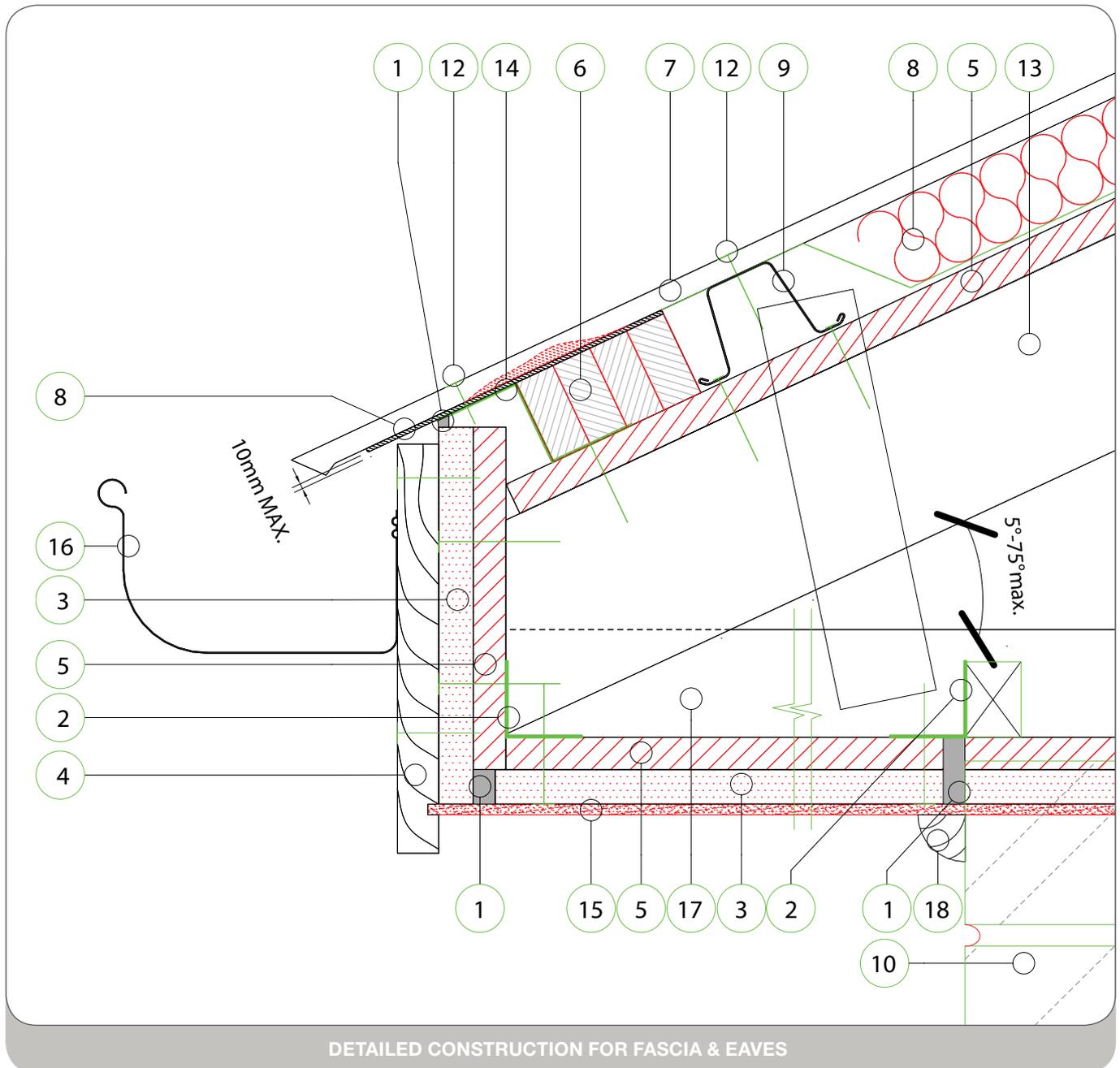
To be sized in accordance with the relevant framing standards.

20 TIMBER STUD TOP PLATE

To be sized in accordance with the relevant framing standards.

21 TIMBER STUD WALL

To be sized in accordance with the relevant framing standards.



DETAILED CONSTRUCTION FOR FASCIA & EAVES

ITEM NO. & DESCRIPTIONS

- | | |
|---|--|
| <p>1 PROMAT PROMASEAL® SUPA MASTIC
Installed into gap 6–10mm wide at the eaves fascia & eaves wall junction. Installed into a gap 3mm wide at the recessed plaster joints backed by framing.</p> <p>2 GALVANISED STEEL ANGLE
35mm x 35mm x 0.70mm – fixed to the end of trusses and along wall to support eaves lining.</p> <p>3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING
Lining orientated so that all joints do not fall on joints in plywood. Plasterboard to be fixed to plywood at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm centre spacings in the field. Joints shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed to plywood at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.</p> <p>4 TIMBER FASCIA
Pine – 19mm x “width as required to achieve tolerance” (10mm max. gap – refer to item 8).</p> | <p>5 15MM THICK SEASONED PINE PLYWOOD
Plywood arranged such that all butt joints fall on framing and tongue and groove joints run perpendicular to framing. Plywood behind fascia to be touching plywood on rafter (no gaps) fixing in accordance with timber framing code.</p> <p>6 CAVITY SEAL INSULATION
Bradford Fibretex 650 Rockwool 75mm thick.</p> <p>7 CORRUGATED ROOF SHEETING
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At fascia – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.</p> |
|---|--|

8 ROOF INSULATION & SARKING

80mm thick Bradford Light Duty Anticon™ 75 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.

At fascia – sarking foil to be continuous past fascia, but no further than end of roof sheeting – gap between roof sheeting and fascia to be no more than 10mm.

9 ROOFING BATTENS – TRUECORE® STEEL

40mm deep steel roof batten fixed through plywood lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.

10 SUPPORT WALL – SINGLE LEAF BRICKWORK

Wall otherwise tested or assessed to achieve a performance of BAL-FZ.

12 ROOF SHEETING SCREWS

Self-drilling hex head with EPDM seal and shank guard.

Size to suit structural requirements – for location refer to item 7.

13 ROOF TIMBER FRAMING – RAFTER

Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.

14 CAVITY CLOSURE FLASHING

'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.

Fixed at fascia to 15mm plywood at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia.

15 EAVES LINING

4.5mm fibre cement sheeting.

Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the joint. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

16 EAVES GUTTER

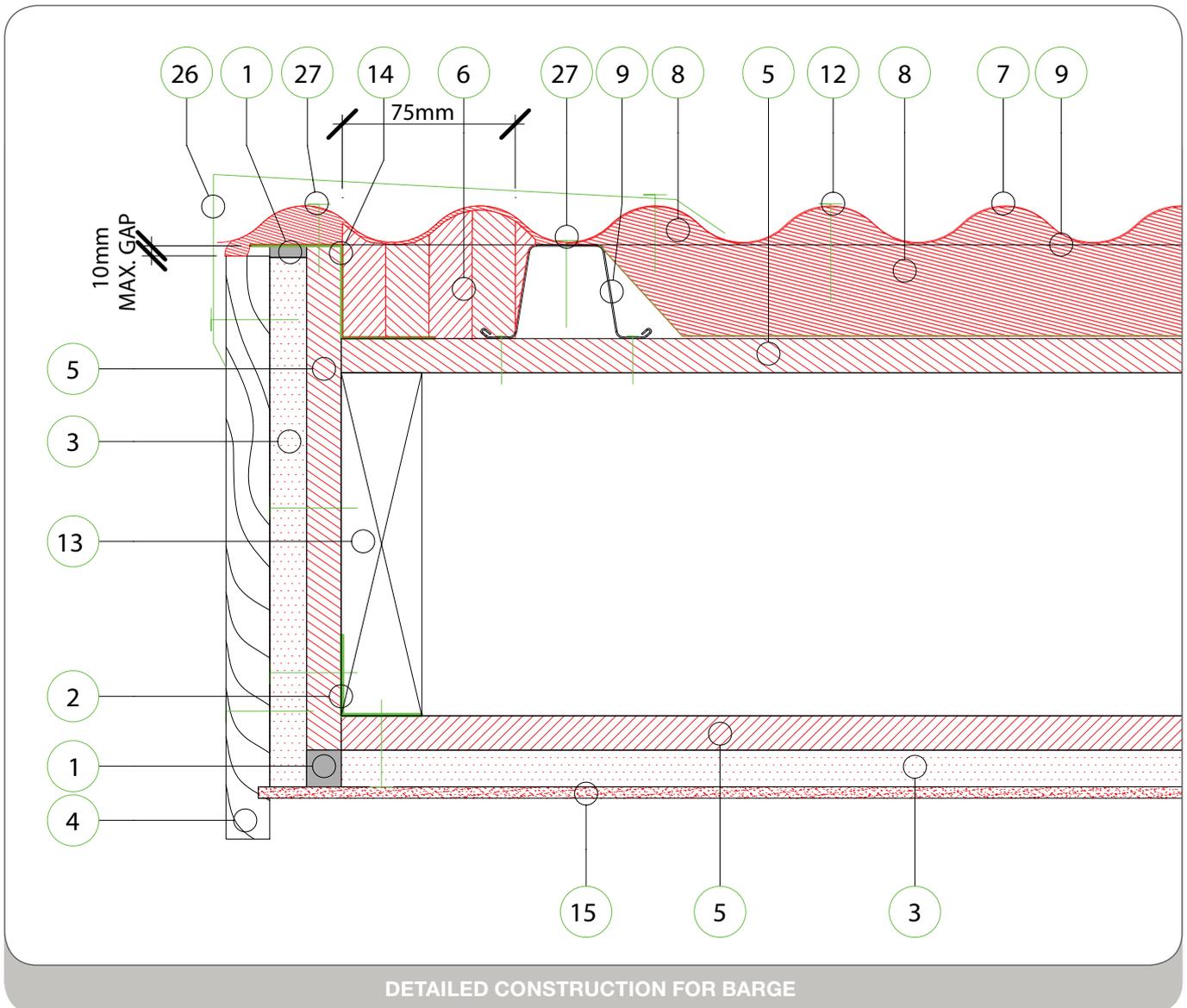
Eaves gutter made from COLORBOND® or ZINCALUME® steel (any profile) fixed to timber fascia (item 4).

17 EAVES TIMBER TRIMMER

To support eaves linings ie. plywood, fire-rated plasterboard & fibre cement sheeting. To be sized in accordance with the relevant framing standards.

18 QUAD BEADING

Fixed at junction of soffit & support wall.



DETAILED CONSTRUCTION FOR BARGE

ITEM NO. & DESCRIPTIONS

- | | |
|--|---|
| <p>1 PROMAT PROMASEAL® SUPA MASTIC
Installed into gap 6–10mm wide at the junction of the eaves lining (item 15) and fascia (item 4) as well as the junction of the fascia (item 4) and the cavity closure flashing (item 14). Installed into a gap 3mm wide at the recessed plaster joints backed by framing.</p> <p>2 GALVANISED STEEL ANGLE
35mm x 35mm x 0.70mm (min) eaves framing angle – fixed to the end of trusses and along wall to support eaves lining.</p> <p>3 16MM THICK BORAL WET AREA FIRESTOP PLASTERBOARD LINING
Lining orientated so that all joins do not fall on joins in plywood. Plasterboard to be fixed to plywood at 150mm centres at perimeter and rows 600mm centres apart with fixing at 200mm centre spacings in the field. Joins shall be left open and 6–10mm wide and gaps filled with sealant (item 1). Plasterboard to be fixed to plywood at 150mm centres at the top and bottom of the fascia with 6g x 30mm plasterboard screws.</p> <p>4 TIMBER FASCIA
Pine – 19mm x “width as required to achieve tolerance” (10mm max. gap).</p> <p>5 15MM THICK SEASONED PINE PLYWOOD
Plywood arranged such that all butt joints fall on framing and tongue and groove joints run perpendicular to framing. Plywood behind fascia to be touching plywood on rafter (no gaps) fixing in accordance with timber framing code.</p> | <p>6 CAVITY SEAL INSULATION
Bradford Fibretex 650 Rockwool 75mm thick.
At barge – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 8) to a thickness of 40mm by the roof sheeting.</p> <p>7 CORRUGATED ROOF SHEETING
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.</p> <p>8 ROOF INSULATION AND SARKING
80mm thick Bradford Light Duty Anticon™ 75 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under roof sheeting.</p> <p>9 ROOFING BATTENS – TRUECORE® STEEL
40mm deep steel roof batten fixed through plywood lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans. Additional batten fixed parallel to barge rafter 75mm in from cavity closure flashing. Rockwool insulation (item 6) between additional batten and cavity closure flashing.</p> <p>12 ROOF SHEETING SCREWS
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.</p> |
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13 ROOF TIMBER FRAMING – RAFTER

Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.

14 CAVITY CLOSURE FLASHING

'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.

Fixed at barge to 15mm plywood at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia.

15 EAVES LINING

4.5mm fibre cement sheeting.

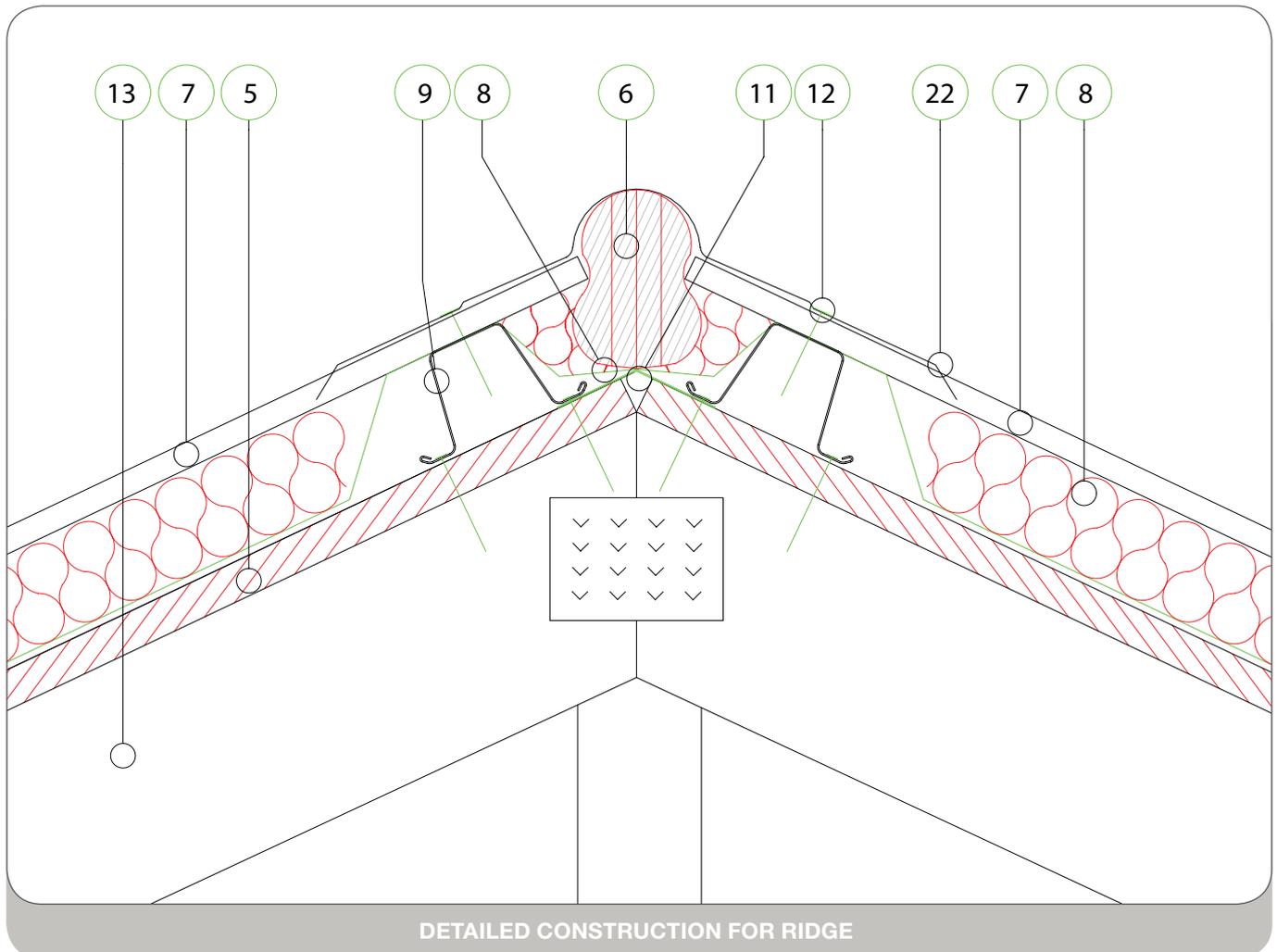
Eaves lining sheets may be butt jointed or flush jointed on framing, or butt jointed off framing with plastic joiners. If PVC joiners are used, they shall not be used to support the sheeting, support shall be provided to the sheet on each side of the join. Sheeting shall be fixed to framing spaced at no more than 600mm cts. The spacing of fixing into the support framing shall be a min. of 200mm cts.

26 BARGE BOARD CAPPING

Barge board capping made from COLORBOND® or ZINCALUME® steel – 200mm x nominal 75mm leg.

27 ROOF SHEETING SCREWS ALONG BARGE

Roof sheeting screwed to cavity closure flashing and parallel batten at 100mm centres. Where screw locations coincide with the roof sheet crest, pan head screws shall be used.



ITEM NO. & DESCRIPTIONS

5 15MM THICK SEASONED PINE PLYWOOD

Plywood arranged such that all butt joints fall on framing and tongue and groove joints run perpendicular to framing. Plywood behind fascia to be touching plywood on rafter (no gaps) fixing in accordance with timber framing code.

6 CAVITY SEAL INSULATION

Bradford Fibretex 650 Rockwool 75mm thick.

At ridge – install a strip 90mm wide to gap between roof sheet edges so that Rockwool is compressed to 50% of original thickness.

7 CORRUGATED ROOF SHEETING

0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.

Roof sheeting installed to structural battens by at least one fixing every second corrugation.

At ridge – the sheeting should be fixed at every second corrugation with fixings (item 12) through the sheeting into the structural batten. The ridge capping should be fixed on alternate corrugations through the ridge capping and sheeting (every second corrugation).

8 ROOF INSULATION AND SARKING

80mm thick Bradford Light Duty Anticon™ 75 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.

9 ROOFING BATTENS – TRUECORE® STEEL

40mm deep steel roof batten fixed through plywood lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.

11 GALVANISED STEEL FLASHING

35mm x 35mm x 0.55mm flashing fixed at joint in ply at ridge and hips to cover gaps between plywood linings.

12 ROOF SHEETING SCREWS

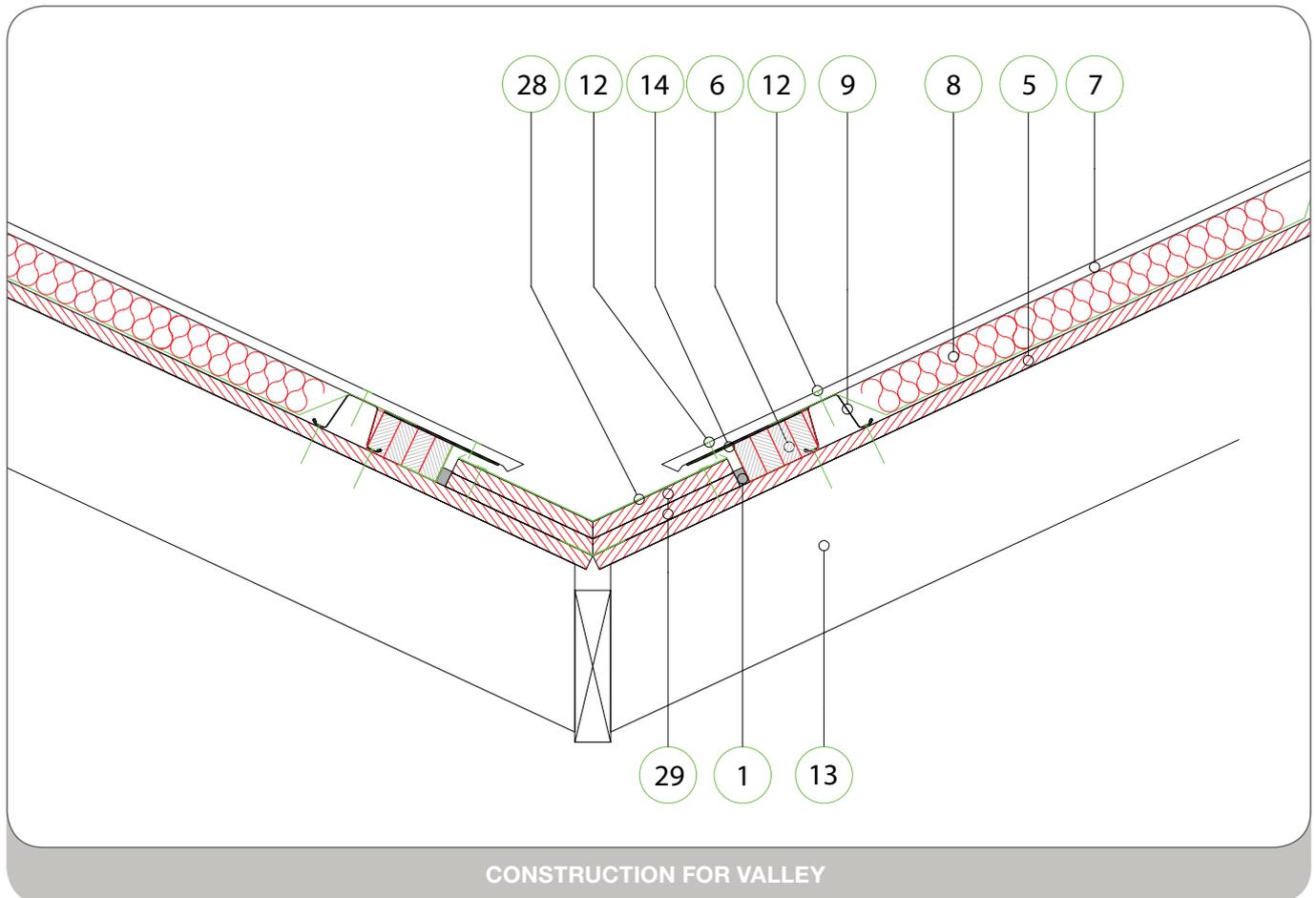
Self-drilling hex head with EPDM seal and shank guard. Size to suit structural requirements – for location refer to item 7.

13 ROOF TIMBER FRAMING – RAFTER

Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.

22 RIDGE CAPPING

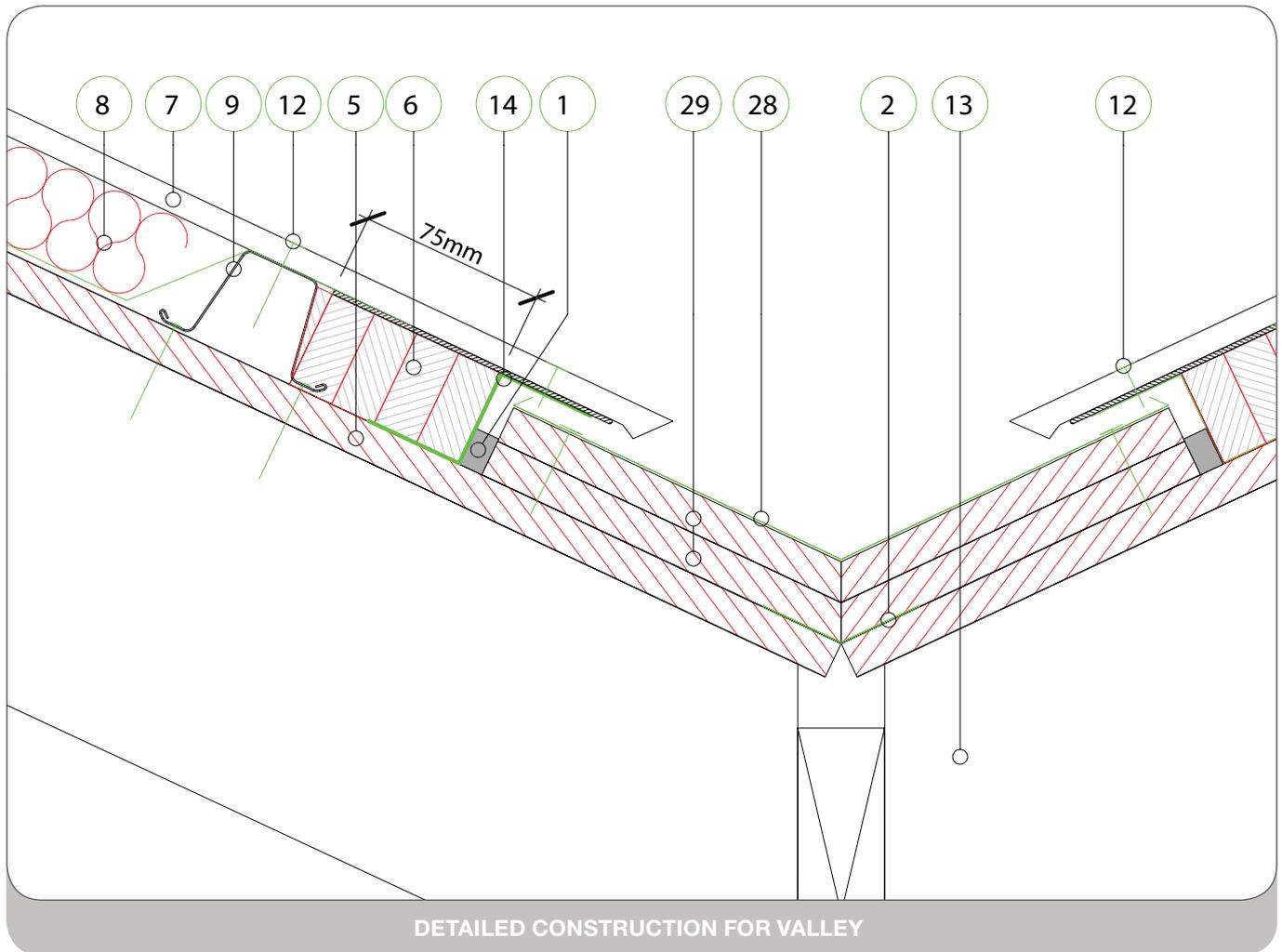
Ridge capping made from COLORBOND® or ZINCALUME® steel (any profile). Approx. 310mm wide.



CONSTRUCTION FOR VALLEY

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap at the side of the valley linings.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – roof lining flashing.
Fixed at the joint of plywood at the apex of the valley to cover gaps between plywood linings.
- 5 15MM THICK SEASONED PINE PLYWOOD**
Plywood arranged such that all butt joints fall on framing and tongue and groove joints run perpendicular to framing. Plywood behind fascia to be touching plywood on rafter (no gaps) fixing in accordance with timber framing code.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves and valleys – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 8) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At valley – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 8 ROOF INSULATION AND SARKING**
80mm thick Bradford Light Duty Anticon™ 75 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through plywood lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING – RAFTER**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at valley to 15mm plywood at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia.
- 28 VALLEY GUTTER**
Valley gutter made from COLORBOND® or ZINCALUME® steel complying with relevant standards secured through the valley lining into the roof linings with screws at nominal 300 centres down each side.
- 29 2 LAYERS OF 15MM PLYWOOD TO VALLEY GUTTER**
Cut to fit under the valley gutter and wrapped with Proctor Roof Shield for protection from affect of water. 15mm plywood nominally fixed to roof lining only to hold in position. Butt joins in 15mm plywood offset between layers.



DETAILED CONSTRUCTION FOR VALLEY

ITEM NO. & DESCRIPTIONS

- 1 PROMAT PROMASEAL® SUPA MASTIC**
Installed into gap at the side of the valley linings.
- 2 GALVANISED STEEL ANGLE**
35mm x 35mm x 0.70mm – roof lining flashing.
Fixed at the joint of plywood at the apex of the valley to cover gaps between plywood linings.
- 5 15MM THICK SEASONED PINE PLYWOOD**
Plywood arranged such that all butt joints fall on framing and tongue and groove joints run perpendicular to framing. Plywood behind fascia to be touching plywood on rafter (no gaps) fixing in accordance with timber framing code.
- 6 CAVITY SEAL INSULATION**
Bradford Fibretex 650 Rockwool 75mm thick.
At eaves and valleys – a strip 90mm wide positioned on edge and compressed with Anticon™ (item 8) to a thickness of 40mm by the roof sheeting (item 7).
- 7 CORRUGATED ROOF SHEETING**
0.42 BMT roof sheeting made from COLORBOND® or ZINCALUME® steel complying with AS1445.
Roof sheeting installed to structural battens by at least one fixing every second corrugation.
At valley – the sheeting shall be fixed through the sheeting into the cavity closure flashing (item 14) at every second corrugation.
- 8 ROOF INSULATION AND SARKING**
80mm thick Bradford Light Duty Anticon™ 75 roofing blanket, glass wool insulation blanket with foil fixed to one side. Anticon™ positioned with foil down and laid over battens and under the roof sheeting.
- 9 ROOFING BATTENS – TRUECORE® STEEL**
40mm deep steel roof batten fixed through plywood lining and roof framing in accordance with the relevant framing standards. Batten spacing must not exceed the roof sheeting max. allowable spans.
- 12 ROOF SHEETING SCREWS**
Self-drilling hex head with EPDM seal and shank guard.
Size to suit structural requirements – for location refer to item 7.
- 13 ROOF TIMBER FRAMING – RAFTER**
Timber framing or trusses shall be designed in accordance with the relevant framing standards spaced at 600, 900 or 1200 centres.
- 14 CAVITY CLOSURE FLASHING**
'z' galv. steel section profile – 40mm x 40mm x 40mm x 0.55mm.
Fixed at valley to 15mm plywood at 600mm centres. Sealant to be installed into any gaps between this flashing and the fascia.
- 28 VALLEY GUTTER**
Valley gutter made from COLORBOND® or ZINCALUME® steel complying with relevant standards secured through the valley lining into the roof linings with screws at nominal 300 centres down each side.
- 29 2 LAYERS OF 15MM PLYWOOD TO VALLEY GUTTER**
Cut to fit under the valley gutter and wrapped with Proctor Roof Shield for protection from affect of water. 15mm plywood nominally fixed to roof lining only to hold in position. Butt joins in 15mm plywood offset between layers.

