INSTALLATION GUIDE

PRODUCT FEATURES AND BENEFITS

Available in two sizes HT51 & HT52

Can be installed Vertically or Horizontally.

Can be installed over cavity battens to rigid air barriers, frame wraps.

Can be installed to 20mm non-structural cavity battens or 40mm structural cavity battens.

Can be installed using nail or screw fixings.

Made in New Zealand.

Precision Solid Timber Profile.

Attractive Pricing.

Rotational Surface Exfoliation.

Low VOC High Performance Foreverbreathe Plant-Based Oil Coatings.

CO2 Capture.

Extensive Colour Range.

Low Maintenance.

Available Australia Wide.

Free of nasty chemicals.

Suitable for use in Foreverbreathe™ Specification.



EARTHEN PLUS™ HT51 & HT52 SHIPLAP CLADDING TECHNICAL INFORMATION

HT51 & HT52 Shiplap Technical Information v2.1
Date of Issue: 01/12/2025

McCormacks Australia
43-45 Overseas Drive
Noble Park, North Vic, 3174
(03) 9701 2777
www.mccormacksaustralia.com.au

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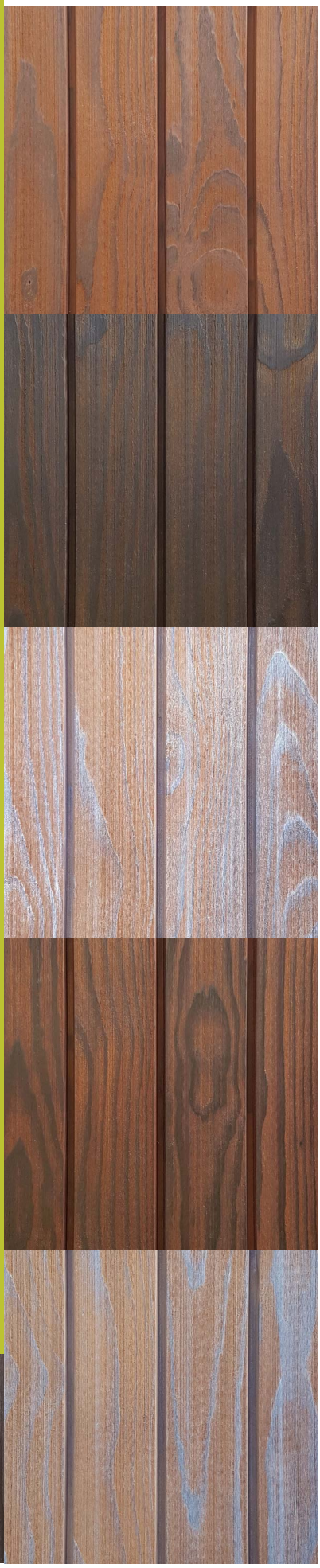
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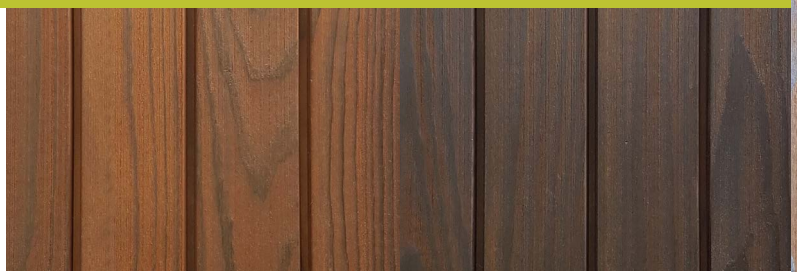
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Products, Tools & Equipment Required

FIGURE 1



Earthen Plus Shiplap Cladding
Brushed Grain face
135x21mm

FIGURE 2



Earthen Plus External Corner
Brushed Face
90x20mm 5.4m Lengths

FIGURE 3



Earthen Plus Fascia
Brushed Grain Face
135x21mm 5.4m Lengths

FIGURE 4



Earthen Plus Internal Corner
for Vertical Shiplap
50x50mm 5.4m Lengths

FIGURE 5



Earthen Radiata
45x20mm
Cavity Batten

FIGURE 6



Earthen Radiata
Exterior Castellated 40x40mm
Structural Cavity Batten

FIGURE 7



Earthen Radiata
Exterior Castellated 45x20mm
Cavity Batten

FIGURE 8



Earthen Radiata
Exterior Dressed Four Sides
Structural Cavity Batten
40x40mm 4.8m Lengths

FIGURE 9

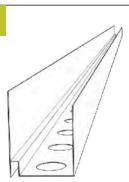


FIGURE 10



Foreverbreathe Exterior Oil
Application Kit
Cladding and Decking

FIGURE 11



Foreverbreathe
Exterior Oil Range
1L / 4L / 10L / 20L

FIGURE 12



Battery-powered drill gun
with torque control

FIGURE 13



3.5mm Drill Bit
for nail installation

FIGURE 14



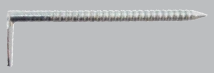
5.5mm Drill Bit
for Screw installation

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Fixings Required

FIXINGS CHART - HT51 & HT52 EARTHEN PLUS SHIPLAP

40mm x 40mm (Structural) and 45mm x 20mm (Non Structural) Castellated Cavity Battens

	 40mm x 40mm (Structural) Castellated Cavity Battens Earthen Radiata	 45mm x 20mm (**NON** Structural) Castellated Cavity Battens Earthen Radiata
CASTELLATED CAVITY BATTEN - FIXING		
Nail Fixing	1 x 90mm x 3.15 SS Nails 2 x 90mm x 3.15 SS Nails for Medium - Extra High Wind Zones	60mm x 2.8mm Stainless Steel Flat Head Nail
HT51 EARTHEN PLUS SHIPLAP - FIXING		
Screw Fixing	 Wurth Assy Plus 4 A2 8-gauge x 70mm A2 SS Screw Art-No 0166015571	 Wurth Assy Plus 4 A2 9-gauge x 80mm A2 SS Screw Art-No 0166015581
Nail Fixing	 65mm x 3.25mm Silicon Bronze Annular Grooved Rose Head Cladding Nail	 85mm x 3.25mm Silicon Bronze Annular Grooved Rose Head Cladding Nail
Clinch Nail Fixing	 Ecko Clinch Nail 316 Stainless Steel Annular Groove 2.00 x 40mm - 500G LSSCLINCH40AG500G	 Ecko Clinch Nail 316 Stainless Steel Annular Groove 2.00 x 50mm - 500G LSSCLINCH50AG500G

NOTE: For high-corrosion environments we recommend minimum Stainless Steel 316 screws as they meet all application requirements in environments such as:

- **In areas within 1km of a coastal area.**
- **All external fixings.**
- **Wet areas.**
- **Industrial or chemically aggressive environments.**

NOTE: Please avoid C3 screws in these environments. (Use Class 4 or 316 stainless instead) Outside of these environments quality C3 galvanised screws with multi-layer protective finish can be used.

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Before You Start

IMPORTANT INFORMATION

NOTE: For high-corrosion environments we recommend minimum Stainless Steel 316 screws as they meet all application requirements in environments such as: In areas within 1km of a coastal area, all external fixings, wet areas, Industrial or chemically aggressive environments. NOTE: Please avoid C3 screws in these environments. (Use Class 4 or 316 stainless instead) Outside of these environments quality C3 galvanised screws with multi-layer protective finish can be used.

Earthen Plus Shiplap can be installed to solid timber framing, LVL framing and steel framing in compliance with NZS 3604, AS 1684.2, AS 1684.3, NASH Standard (Parts 1&2), and AS/NZS 4600.

All wall openings, penetrations, intersections, connections, window sills , heads and jambs must be flashed prior to installation.

Pre-boring of the profile when nail fixing requires a 3.5mm drill bit. Pre-boring of the profile when screw fixing requires a 5.5mm drill bit. Pre-boring remains a requirement to ensure the screw is focussed on clamping.

Weatherboard Clearance Minimum distance from earth / ground to HT51 & HT52 Weatherboard must be no less than 175mm. Minimum distance above formed paths and driveways is 100mm. The adjacent finished ground must also slope away from the building to prevent water accumulation, a slope of at least 1:30

Note: Earthen Plus Shiplap must not be installed in design solutions that place weatherboards in direct contact with soil or within designs that place weatherboards below ground.

TIMBER FRAMING CONSIDERATIONS

Timber framing must comply with NCC, AS 1684 (Timber Framing Buildings) Stud spacing's are not to exceed 600mm centres. Stud spacing's will reduce for use in specific wind classifications.

Timber framing must be kiln dried with a moisture content **18% or Less**. Framing quality must be straight and level to a standard that supports HT51 & HT52 Shiplap Weatherboard to all surfaces in contact with framing. Installation to buckled or bent framing will result in tension within Earthen Plus Shiplap.

STEEL FRAMING CONSIDERATIONS

Steel framing may be used provided it is designed in accordance with AS/NZS 4600 and the NASH Standard (Steel Framed Buildings) B1/AS and the NASH standard. Stud spacing's not to exceed 600mm centres. Stud spacing's will reduce for use in specific wind classifications.

Steel framing gauge is to be 0.55 - 1.6 based metal thickness. Use GAL 90 light gauge steel for enhanced corrosion resistance and durability.

Steel framing quality must be straight and level to a standard that supports HT51 & HT52 Earthen Plus Shiplap to all surfaces in contact with framing. Installation to buckled or bent framing will result in tension within HT51 & HT52 Earthen Plus Shiplap.

To ensure long-term durability and compliance with energy efficiency standards, light gauge steel framing must be protected in all environments, including areas with high humidity, salt air, and other corrosive conditions. This recommendation aligns with the NASH Technical Note NTN 006 which outlines specific requirements for thermal performance and condensation control in steel-framed buildings.

To prevent thermal bridging between HT51 & HT52 Earthen Plus Shiplap and steel framing in buildings, steel framing **must** have the required thermal breaks, especially on the exterior face of framing as required per the National Association of Steel-Framed Housing standard (NASH STD). This helps mitigate conductive thermal bridging and condensation risks.

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Before You Start - Continued



MATERIAL SAFETY

Even though Earthen Plus Shiplap is a non-toxic building material, always wear a dusk mask, gloves ear and eye protection and follow MSDS Guidelines.

HANDLING AND STORAGE REQUIREMENTS

HT51 & HT52 Earthen Plus Shiplap and accessories must be kept clean and dry, under cover and out of the weather prior to installation. It must be stored horizontally on bearers at least 100mm off the ground.

Do not stack other materials on top of Earthen Plus Shiplap.

Always protect all edges and face of Earthen Plus Shiplap prior to and during installation.

Do not drag sharp edges across the face of the product. This can establish indentations which establish a darker appearance than the surrounding timber when oil coated.

GRADING AND LENGTH SPECS

The length specification in natural timber cladding product supplied can vary in length from 2.4m – 5.4m and in the volume of each length per pack of timber received. This outcome is established via the volume of log and log dimension available to the sawmill at the time orders are placed.

USING HT51 OR HT52 EARTHEN PLUS SHIPLAP IN RELATION TO OTHER MANUFACTURERS PRODUCTS

In case of an apparent conflict between the Earthen Plus Shiplap instructions and those of a third party, contact www.mccormacksaustralia.com.au for clarification.

DESIGN CONSIDERATIONS

All design and construction must comply with appropriate requirements of the current Australian Building Code NCC, NASH Standard (Parts 1 & 2), and AS/NZS 4600 and other applicable local regulations and standards.

INSTALLER RESPONSIBILITY

It is the responsibility of the installer to inspect their workplace prior to beginning the installation of HT51 or HT52 Shiplap Cladding to ensure installed work will meet the owner / contractor's requirements. Refer to the HT51 & HT52 Shiplap Cladding Site Pre-Installation & Post-Installation Checklist on page 13.

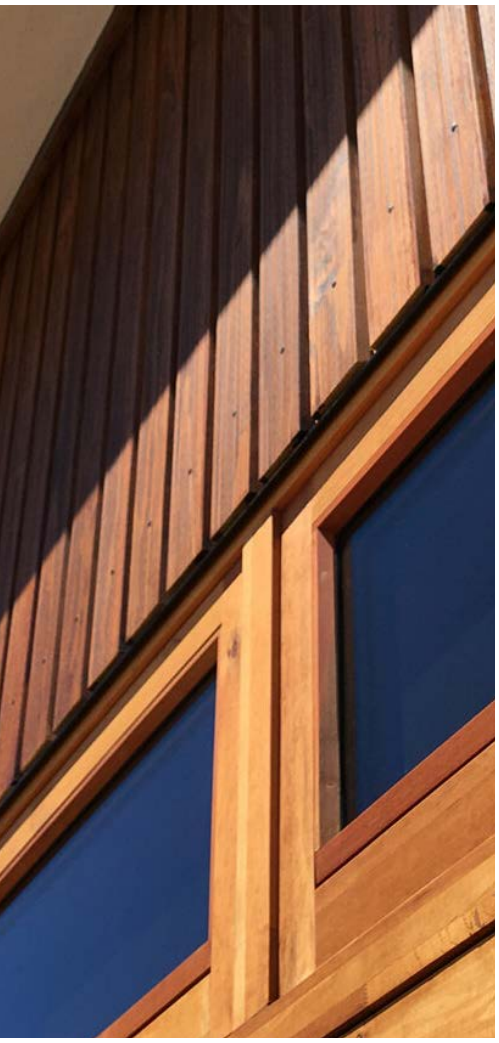
NOTE: Warranty is valid by completion of these Pre-Installation & Post-Installation inspection checklist. Checklist on page 13.

WARRANTY

While every effort has been made to ensure a satisfactory outcome with respect to the use of HT51 & HT52 Earthen Plus Shiplap - along with all Earthen Plus products - no dialogue or negotiation will be considered if any method or third-part component has been used apart from those described in this technical manual. Any warranty - written or implied - will be subject to examination, and will apply solely to the quality of the Earthen Plus Shiplap product being deficient at the point of purchase only, or the subsequent deficient performance of the product once the correct method of installation has been determined. Any deficient performance resulting from the application of a third party product, will become the responsibility of that products manufacturer and / or agents. HT51 & HT52 Earthen Plus Shiplap and it's associated agents will not be held responsible for any such incident or outcome.

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Application of Chosen Oil or Paint finish



MAINTENANCE STAIN FINISH

Cladding must be cleaned regularly (minimum every 12 months) with mild detergent and soft brush, rinse with water. Note: High pressure water blasting is not allowed.

A maintenance assessment is required at least every two summers as follows:

- Clean the cladding as outlined above.
- Apply 1 or 2 coats of penetrating stain according to coating manufacturer's recommendation as colour starts to fade and timber becomes dry. Re-coat expectation between 2-3 years.

Note: The regularity of re-coat will depend on the aspect of timber to the weather and design of house eg: presence of eaves and overhangs.

Check all weatherboards, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of cladding system.

OIL - COATING AND PRIMING

Earthen Plus Shiplap is typically factory coated with Foreverbreathe Oil leaving only cut ends and edge to be coated during the installation process. Coating the cut ends and edges ensures end grain is sealed and unable to transfer moisture along the grain direction. Ensure end coating does not extend to the face to prevent double coating after installation. Double coating will establish darker appearance.

If timber is uncoated it must be pre-coated (first coat) to all edges, back and front face before installation. Ensure complete coverage.

Although HT51 & HT52 Earthen Plus Shiplap is generally factory-coated, on-site finish coating will be required to achieve it's serviceable life span.

NOTE: It is essential to apply your chosen oil or paint system to all cut ends and edges before installation.

The Foreverbreathe oil product range is recommended for HT51 & HT52 Earthen Plus Shiplap. Reference ExteriorOil

All coating is to be done according to coating manufacturer's instructions in a well-ventilated area. Refer to the coating/primer supplier for a matter relating to heath and safety. All relevant sections of standard AS/NZS 2311:2009 (Guide to the painting of buildings) shall be adhered to.

PERIOD OF EXPOSURE - Within 15 days of installation the top coat/s shall be applied to front and face edges.

PAINT - COATING AND PRIMING

Paint finish weatherboards must have primer applied to all sides prior to fixing.

Earthen Plus can be painted using large format acrylic paints such as Wattyl, Dulux and Resene.

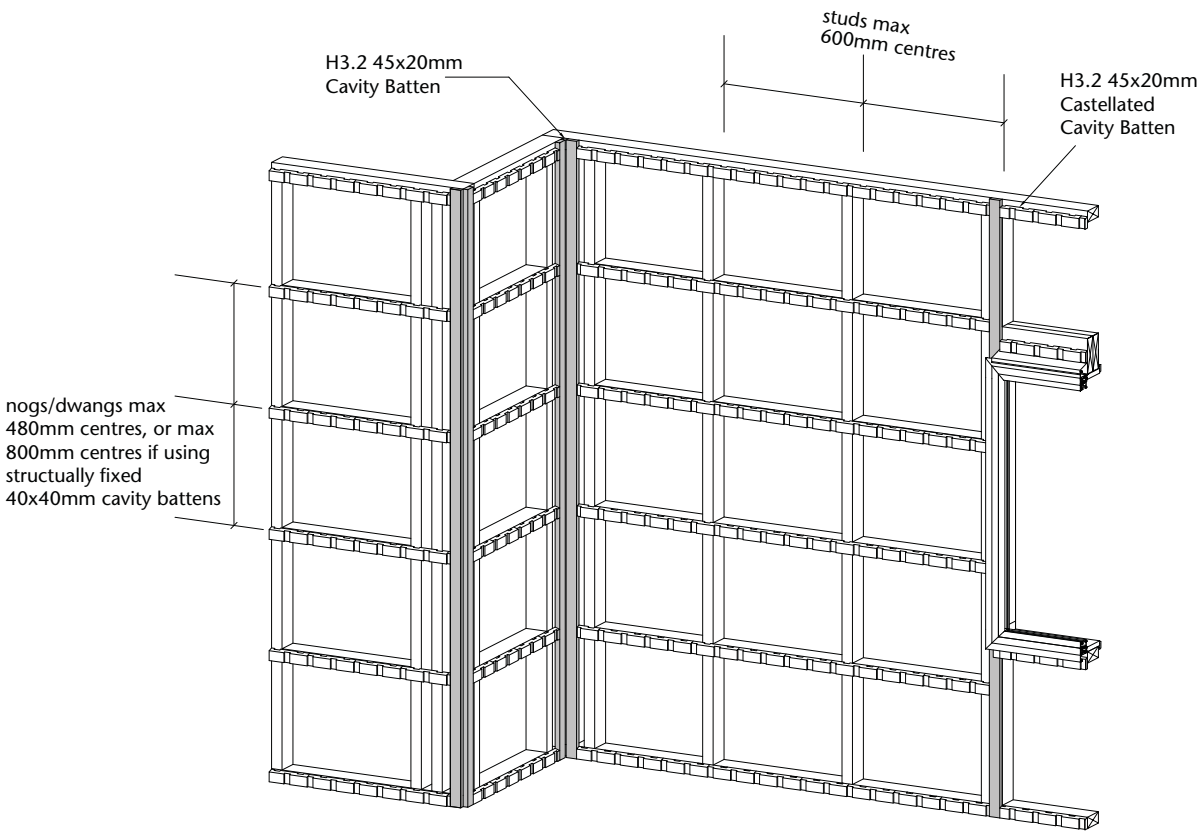
All cut ends and notches must be sealed with paint or primer.

PERIOD OF EXPOSURE - Within 30 days of installation 2 coats of quality 100 percent arcylic exterior top coat shall be applied to front and face edges.

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Cavity Batten Installation - Vertical Cladding

VERTICAL SHIPLAP - CAVITY BATTEN INSTALLATION



FOR VERTICAL WEATHERBOARDS

Studs must be spaced at a maximum of 600mm between centres.

Dwangs (noggins) must be spaced at a maximum of 480mm between centres, or 800mm between centres if using structurally fixed 40x40 cavity battens or otherwise as specified where a proprietary wall system is being used with structural 40x40 cavity battens.

Vertically installed timber shiplap - fixings to be spaced at 400mm minimum centres, 480mm maximum centres.

Studs and dwangs must form a flush plane for cavity battens and weatherboards to be fixed to.

FOR STEEL FRAMING

Steel framing may be used, provided it is design in accordance with National Construction Code (NCC) and National Association of Steel-Framed Housing standard (NASH STD) or by specific design.

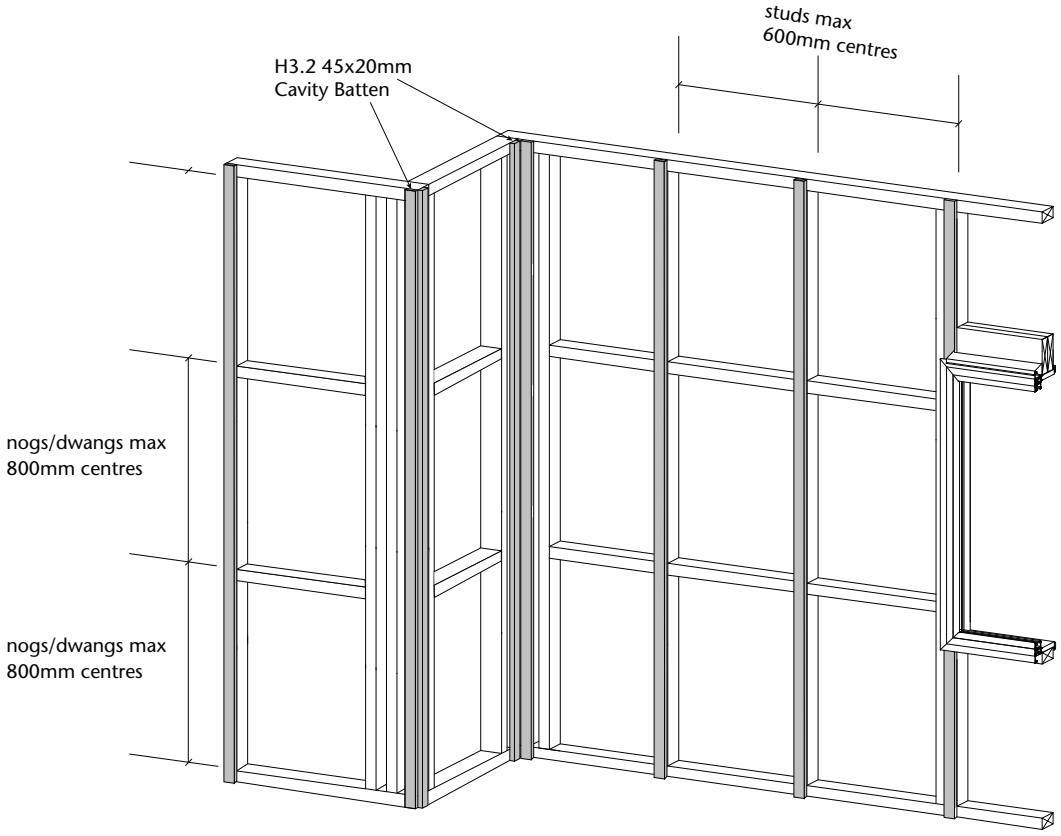
Spacing of studs and nogs shall be a specified above.

Refer to page 5 for additional steel framing information.

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Cavity Batten Installation - Horizontal Cladding

HORIZONTAL SHIPLAP - CAVITY BATTEN INSTALLATION



FOR HORIZONTAL WEATHERBOARDS

Studs must be spaced at a maximum of 600mm between centres.

Dwangs (noggins) must be spaced at a maximum of 800mm between centres or otherwise as specified where a proprietary wall system is being used.

Horizontally installed timber shiplap - fixings to be spaced at 400mm minimum centres, 600mm maximum centres.

Studs and dwangs must form a flush plane for cavity battens and weatherboards to be fixed to.

FOR STEEL FRAMING

Steel framing may be used, provided it is design in accordance with National Construction Code (NCC) and National Association of Steel-Framed Housing standard (NASH STD) or by specific design.

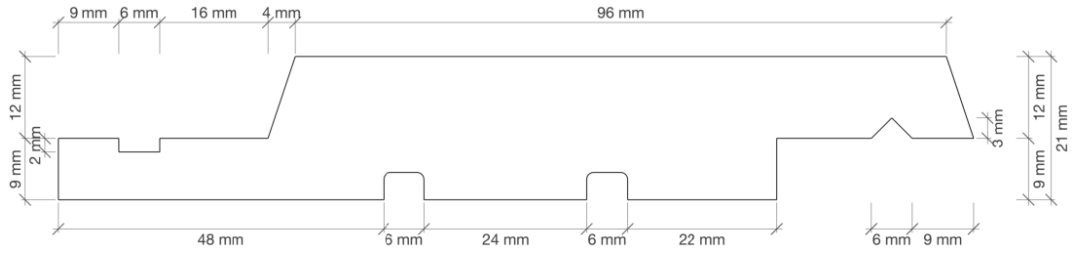
Spacing of studs and nogs shall be a specified above.

Refer to page 5 for additional steel framing information.

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HT51 & HT52 Earthen Plus Shiplap Profile Dimensions

HT51 EARTHEN PLUS SHIPLAP DIMENSIONS

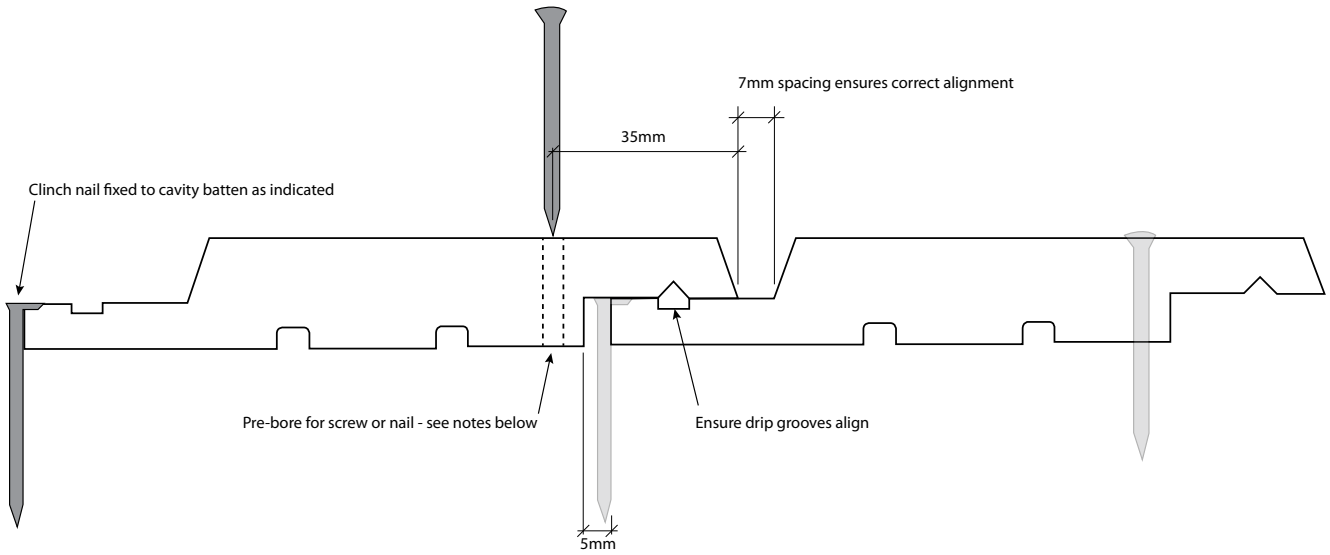


HT52 EARTHEN PLUS SHIPLAP DIMENSIONS



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Positioning and Fixing - HT51 & HT52 Shiplap

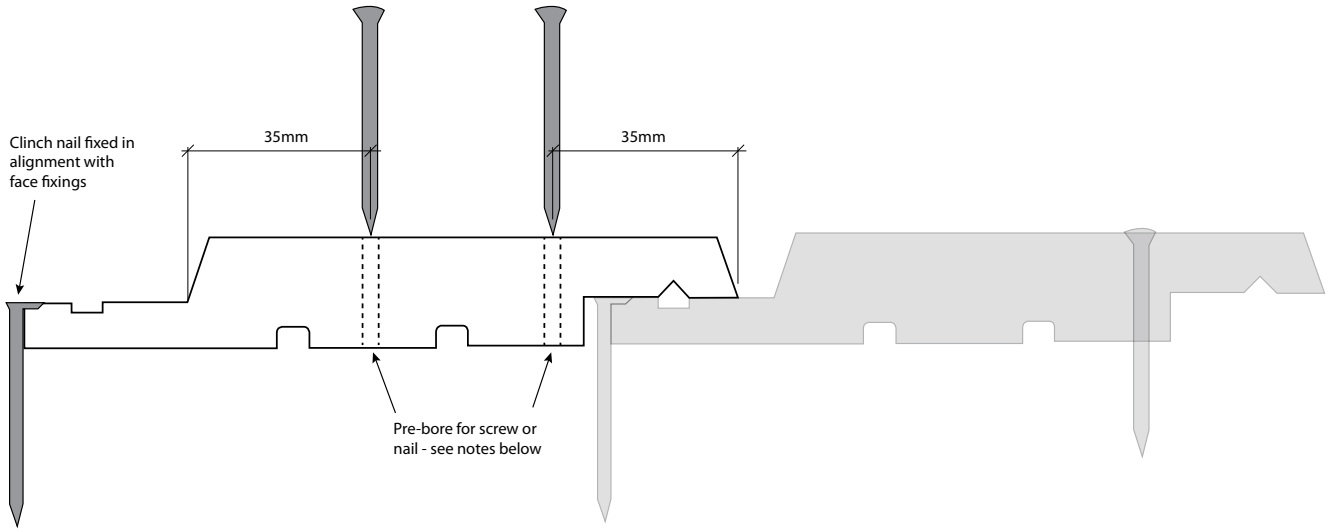


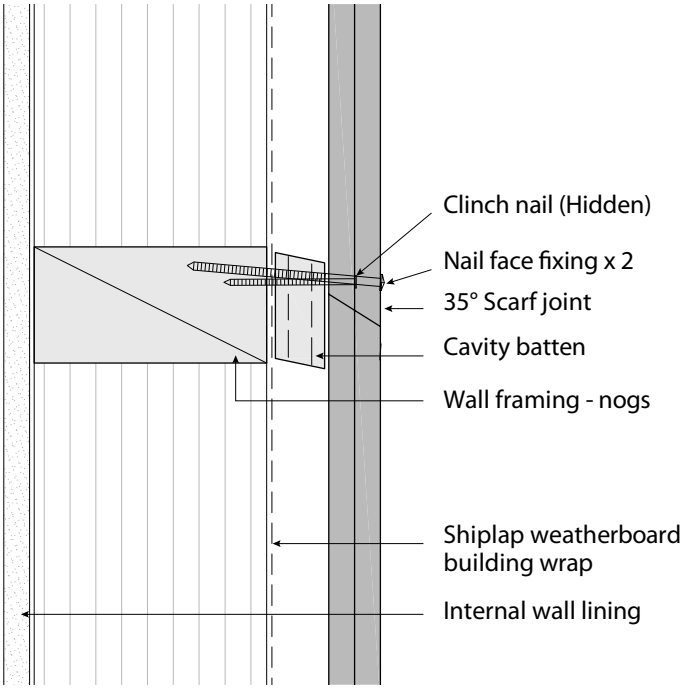
GUIDELINES FOR INSTALLING HT51 & HT52 EARTHEN PLUS SHIPLAP

- HT51 & HT52 Earthen Plus Shiplap can be installed vertically or horizontally.
- Cut to length as required, including angled cuts for scarf joins.
- Coat all cut ends with your chosen finishing system, either Foreverbreathe clear oil or paint system prior to installation.
- Weatherboards are to be pre drilled prior to application of fixings in-line with the positioning and fixing diagram above. 3.5mm drill bit for specified nails and 5.5mm drill bit for specified screws. Refer to fixings required page 4
- Weatherboards shall be lined up utilising a 7mm spacer to ensure even spacing with the drip grooves lined up to each other. As illustrated above.
- Fixings shall be driven through the wall underlay and into the framing or structural cavity battens in accordance with National Construction Code (NCC). Ensure all fixings are aligned in the centre of the supporting cavity batten.
- Important note: Do not overdrive fixings and ensure clinch nails are installed correctly
- Do not use pins or double nail boards.
- Fixing placement shall be 35mm from the edge of the weatherboard. As illustrated above.
- Nails should be applied at an slight upward angle so as to reduce water ingress through the fixing point.
- Weatherboard fixings shall not penetrate through flashings under any circumstances as this may jeopardize the weather tightness of the cladding system.
- Apply a hidden clinch nail in line with each face fixing, ensuring the nail is struck in line with the shaft of the nail as opposed to the centre of the head to avoid the clinch nail being bent during installation.

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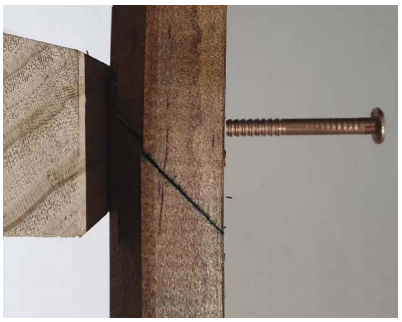
Scarf Joint - HT51 & HT52 Shiplap







Scarf joint face fixing position 32mm in from edge of brushed face to centre of nail



Fix scarf join through overlapping cladding only to centre of 45mm or 20mm cavity battens

GUIDELINES FOR SCARF JOINS

- Scarf joins shall be mitred 35 degrees so as to allow water to run off down the face of the cladding and be fixed to the centre of battens as shown above
- Scarf joins require two face fixings as shown above, plus a clinch nail in line with the face fixings.
- Joins shall be staggered by at least 450mm.

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Product Technical Statement

This PTS Technical Statement is based on best practice design principles inclusive of structural design, materials, risk management, fixings, installation, coatings, and maintenance working in harmony, to ensure long serving performance as a built environment. Cladding performance, appearance and durability can be impacted by individual design preferences. Any attempt to alter the design principles represented in this document must be represented to Health Based Building for comment.

NOTE: Where acrylic paints or oil coatings are to be applied to Earthen Plus profiles topcoat colours must have the rating LRV45 or higher. Dark colours can encourage resin bleed and distortion leading to surface cracking, cupping, and paint failure Application of acrylic paint or oil coatings involving colours other than those recommended by Health Based Building will void warranties connected to this product.

NOTE: Earthen Plus HT51 &HT52 Cladding is represented via an alternative solution pathway to consent. Supporting information confirming history of use and compliance with NZ3604 profiles is available via the document at link

AlternativeSolutionVerticalWeatherboard_v1.0_23.8.22.pdf

1. PRODUCT DESCRIPTION: HT51 & HT52 shiplap cladding, Earthern Plus thermally treated.

2. SCOPE OF USE: external environment above ground, with a (seismic) locality factor (Z) of up to 0.42 (Upper Hutt), in a temperate climate; the system is limited to use for residential housing including Class 1 and Class 2 type construction, i.e. stand-alone houses and multi-apartment dwellings, up to three stories high.

3. COMPLIANCE WITH THE NZBC: Meets the following requirements of the NZBC :

4. TREATMENT: Earthen Treatment Micropro H3.2
MicroProTreatmentTechnicalInfo_v.1.0_26.7.21.pdf

5. EARTHEN PLUS TREATMENT THERMALLY MODIFIED CLASS 1 (EN335)
EarthenPlusExt.pdf

6. STRUCTURAL CASTELLATED BATTEN WIND ZONE:
LOW - MEDIUM - HIGH: Earthen H3.2 40mm x 40mm fixed at max 600mm centres using 1 / 90 x 3.15 SS Nail.
MEDIUM - EXTRA HIGH: Earthen H3.2 40mm x 40mm fixed at max 600mm centres using 2 / 90 x 3.15 SS Nail.
EngineeringStatementPS1Earthen40mmCastellatedBatten.pdf.

7. STRUCTURE - B1: Meets the requirements of B1.3.1, B1.3.3 (b), (p), (q) of Clause B1.

8. DURABILITY - B2: Meets the durability performance requirements of section B2.3.1 (a) of Clause B2.

9. EXTERNAL MOISTURE - E2.3.2: Prevents the penetration of water that could cause undue dampness.

10. FIRE PERFORMANCE - C: Is classified as combustible.

11. HAZARDOUS BUILDING MATERIALS - F2 3.2: Will not present a health hazard when handled as per its technical specifications.

12. INSTALLATION: Must be installed in accordance with this Technical Information guide

13. WARRANTY: Product warranty of 15 years when installed as per the technical specification.

14. CONSIDERATIONS: Can be installed to timber framed or steel framed walls. Can be installed to 20mm cavity battens or 40mm structural cavity battens. Can be installed over a rigid air barrier or flexible frame wrap.

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Pre-Installation & Post-Installation Checklist

NOTE: Warranty is valid by completion of this Pre-Installation & Post-Installation inspection checklist.

Site address: _____Inspection Date: _____

Owner/Applicant: _____

Head Contractor / Builder: _____ LBP #:_____

Mobile Phone: _____ Email: _____

Designer: _____ Mobile: _____

HT51 SHIPLAP WEATHERBOARD **PRE-INSTALLATION** CHECK LIST

NOTE: It is the responsibility of the certified installer to inspect their work place prior to beginning the placement, and to ensure that the placed work will meet supplier's requirements. Notify the owner / general contractor of any concerns prior to commencement of work.
NOTE: It is the responsibility of the installer to compile pre- and post- checklists and photographs in accordance with the quality plan.

- ☐ Framing configuration and fixing detail suitable for the installation.
- ☐ Framing moisture content - to be within BCA guidelines.
- ☐ Framing flush and level.
- ☐ Access and heights.
- ☐ Services identified.
- ☐ Health and safety plan in place.
- ☐ PPE and dust control in place.

HT51 SHIPLAP WEATHERBOARD **POST-INSTALLATION** CHECK LIST

NOTE: It is the responsibility of the installer to inspect the completion of the placement and to ensure placed work will meet the supplier's requirements. Notify the owner / general contractor of any concerns prior to commencement of work.

- ☐ Fixing details match recommended fixing pattern.
- ☐ Nail and Screw heads are finished flush to surface of HT51 & HT52 Shiplap, not over driven.
- ☐ Boards are straight and level with required 7mm spacing.
- ☐ All exposed faces, including the top edges under the sills and bottom edges of HT51 & HT52 Shiplap Weatherboard and accessories must be finished with a clear oil or paint system as required.
- ☐ Scarf joins are tight and fixed as per this document.
- ☐ Waste material is removed or positioned for removal as a non-toxic material.
- ☐ Health and safety plan in place.
- ☐ PPE and dust control in place.

Approved building consent document number : _____

Approval authority : _____

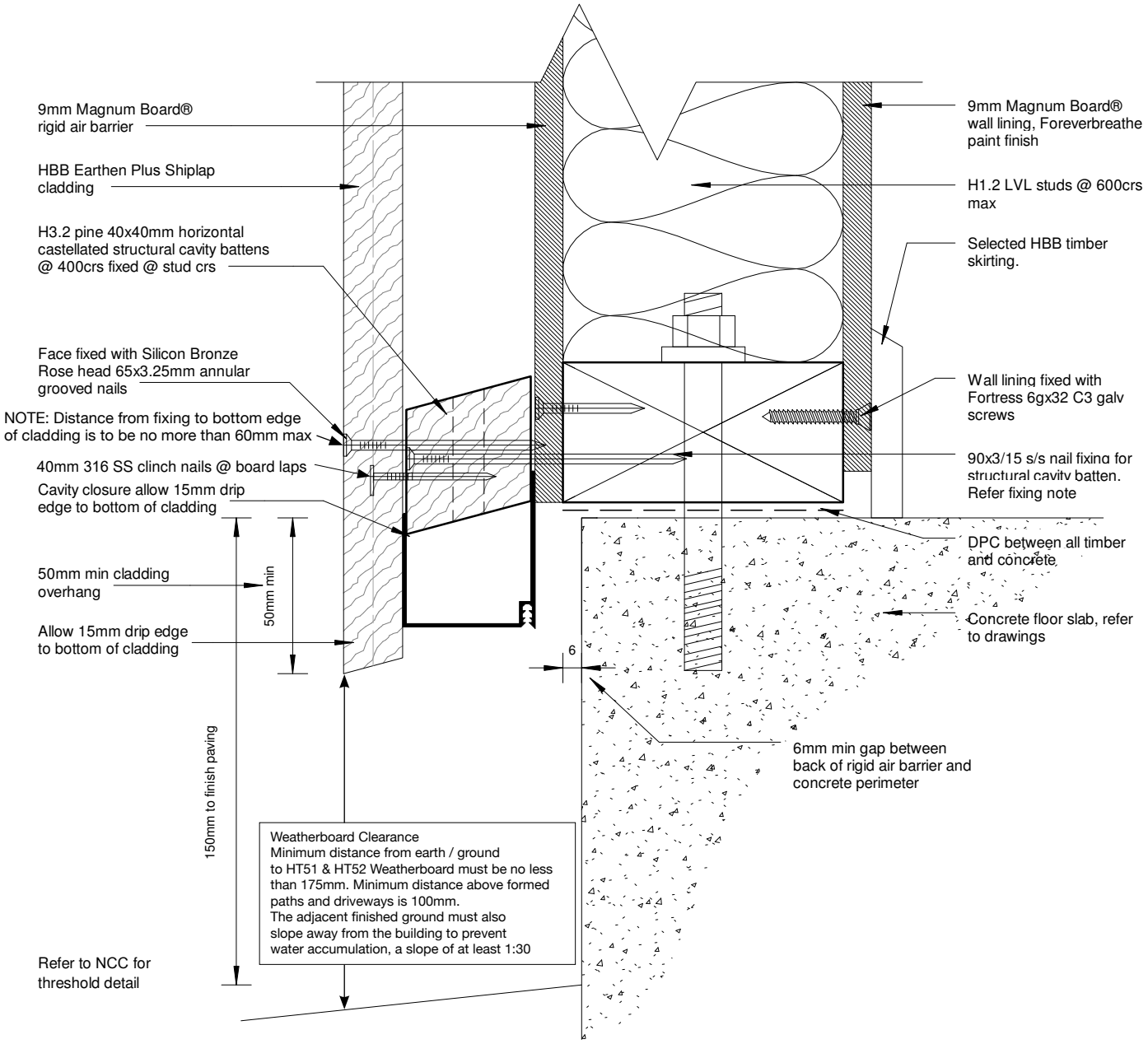
Approval date : _____

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DWG 4/15 - Internal Corner Detail 34
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Concrete Foundation Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

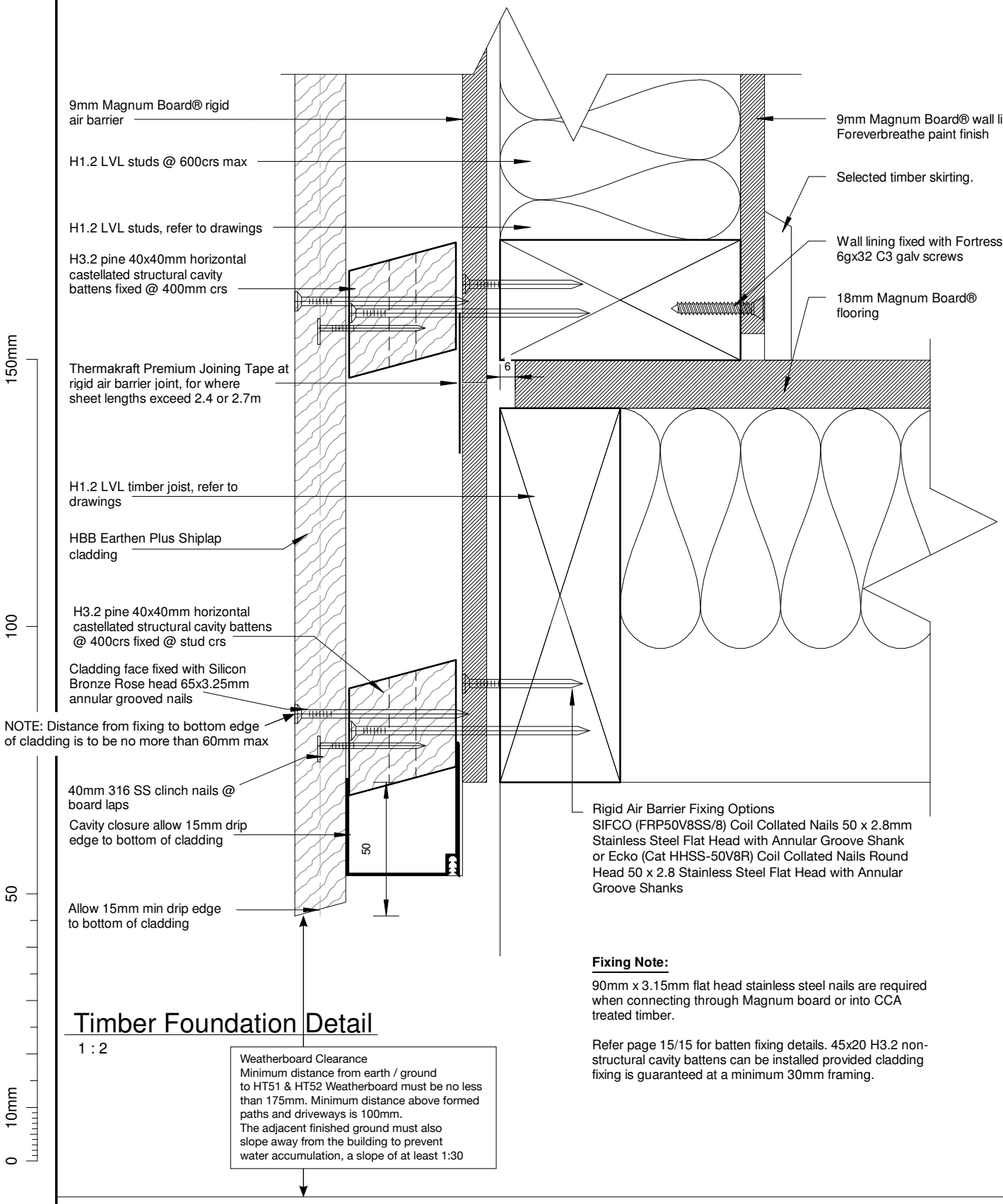
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

1/15

HT51 Vertical Shiplap Details

Concrete Foundation Detail

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Rigid Air Barrier Fixing Options
SIFCO (FRP50V8SS/8) Coil Collated Nails 50 x 2.8mm Stainless Steel Flat Head with Annular Groove Shank or Ecko (Cat HHSS-50V8R) Coil Collated Nails Round Head 50 x 2.8 Stainless Steel Flat Head with Annular Groove Shanks

Fixing Note:

90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

Timber Foundation Detail

1 : 2

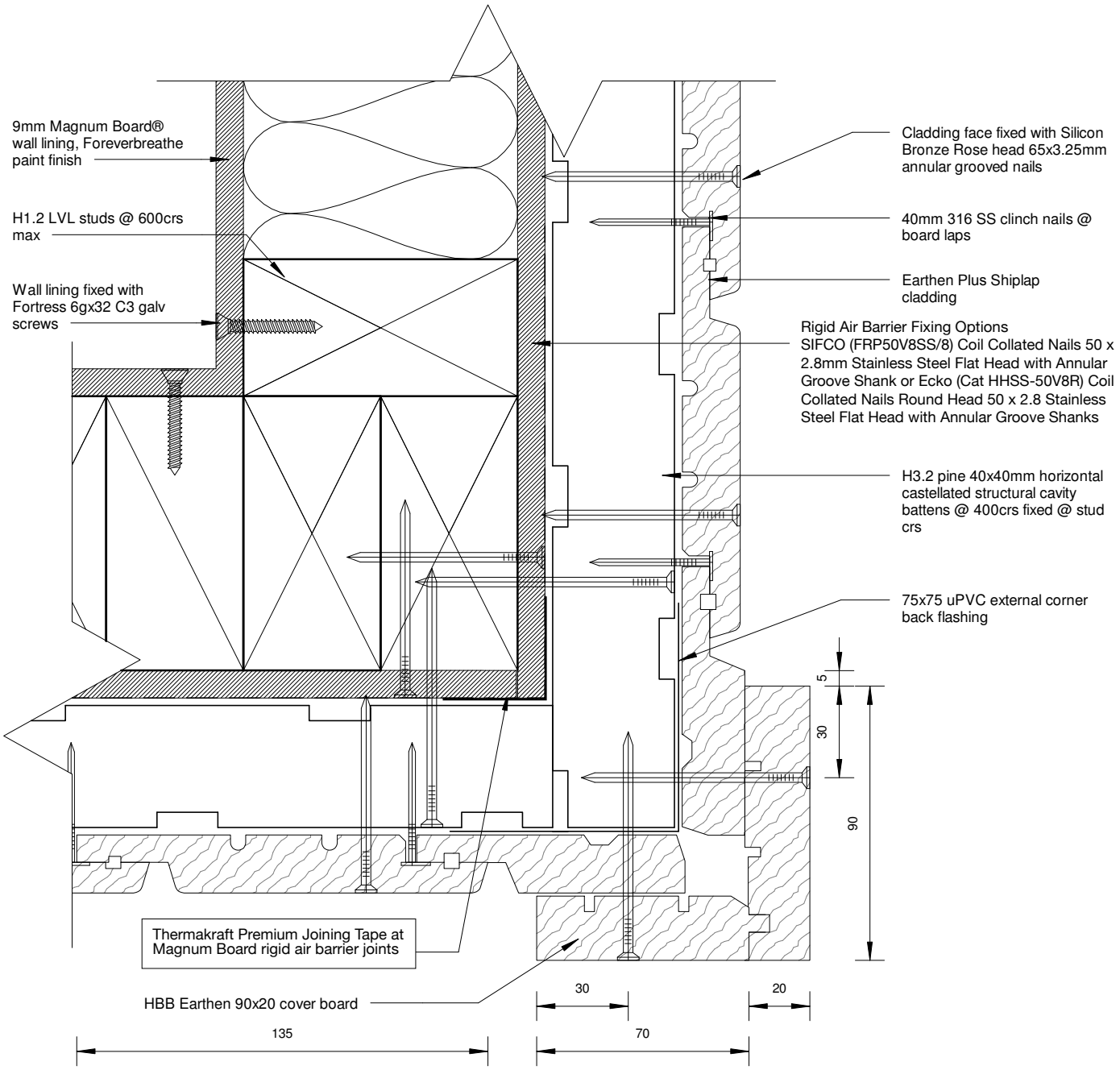
Weatherboard Clearance
Minimum distance from earth / ground to HT51 & HT52 Weatherboard must be no less than 175mm. Minimum distance above formed paths and driveways is 100mm.
The adjacent finished ground must also slope away from the building to prevent water accumulation, a slope of at least 1:30

2/15

HT51 Vertical Shiplap Details

Timber Foundation Detail

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External Corner Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

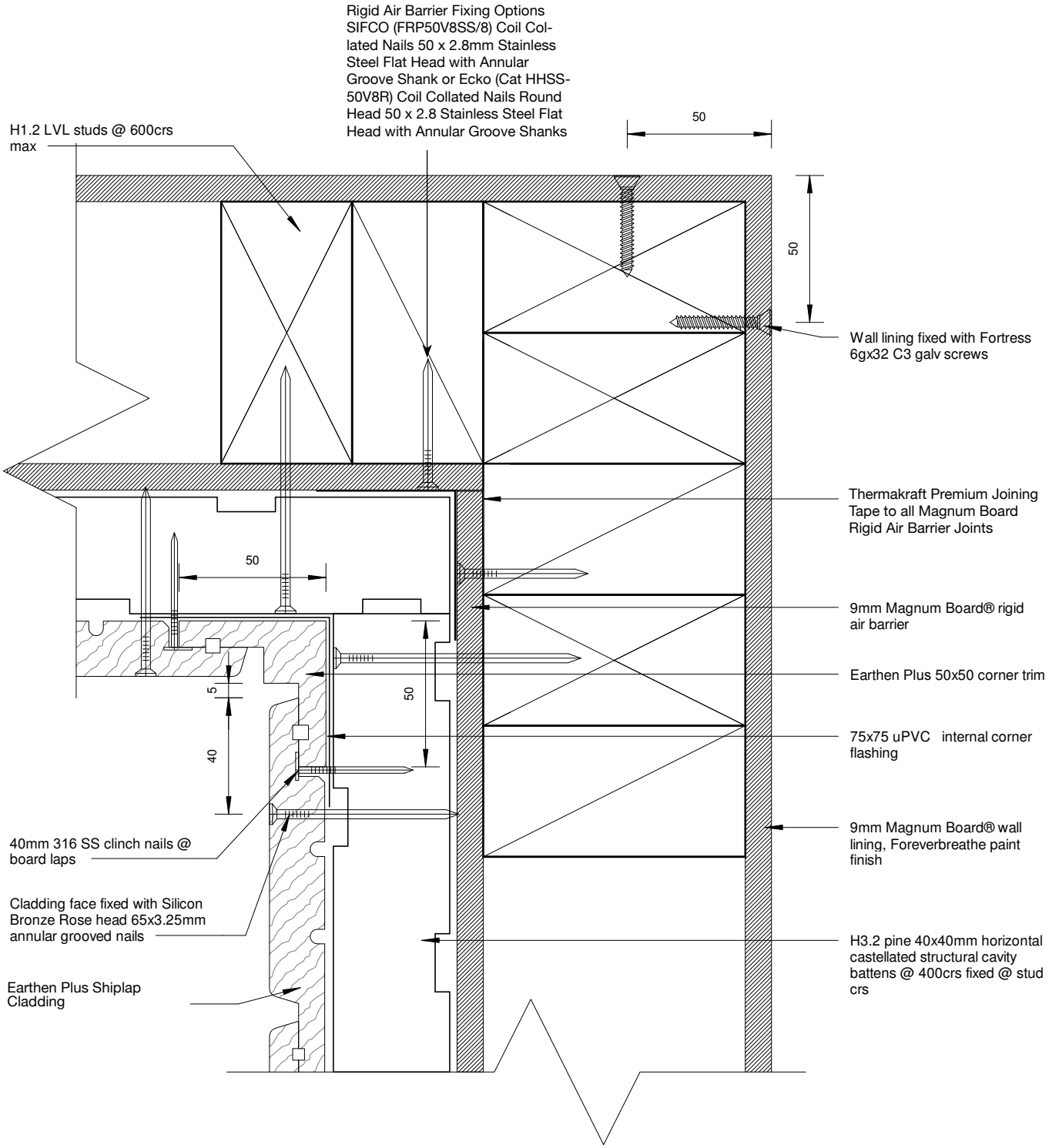
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

3/15

HT51 Vertical Shiplap Details

External Corner Detail

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Internal Corner Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

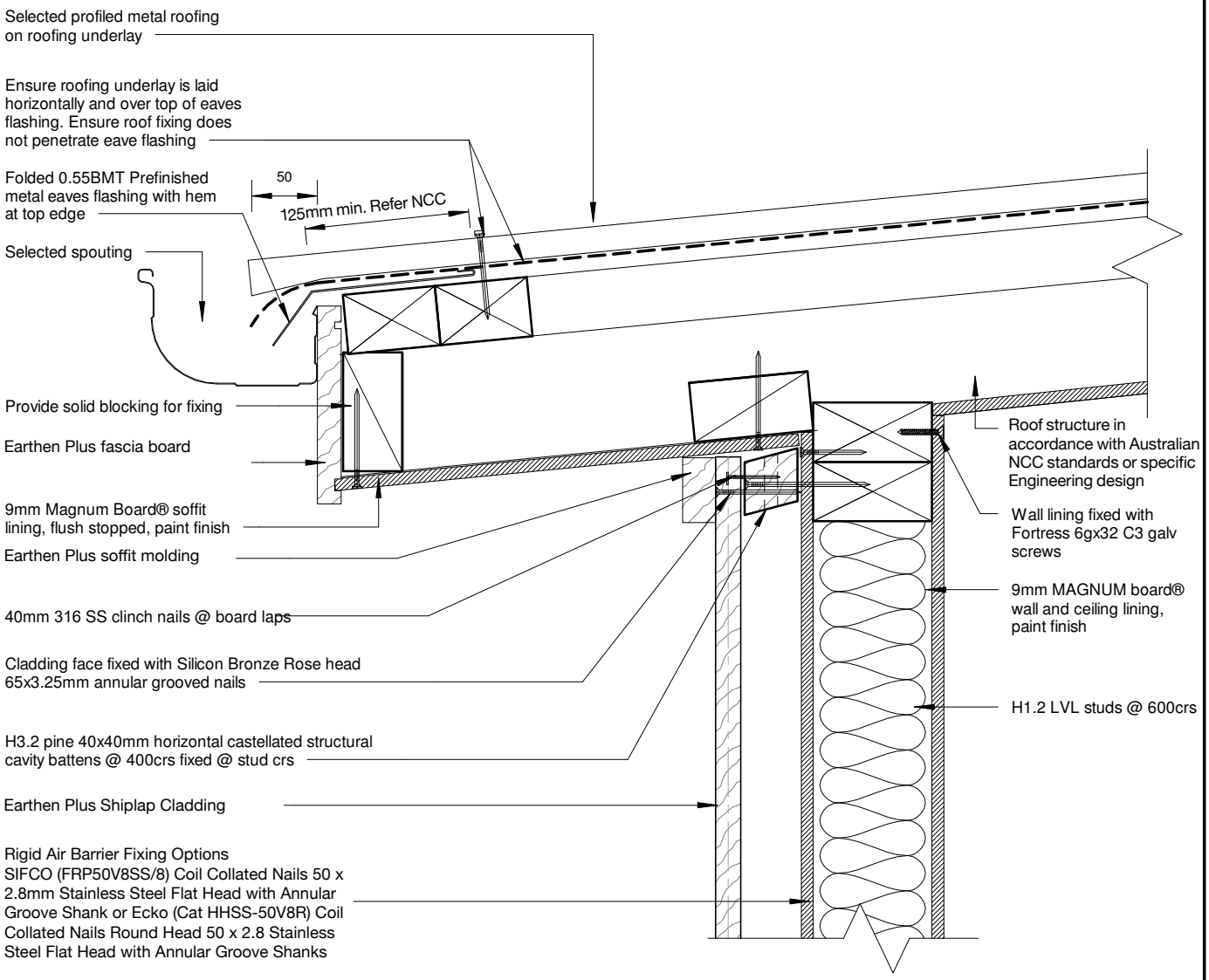
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

4/15

HT51 Vertical Shiplap Details

Internal Corner Detail

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Eave - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

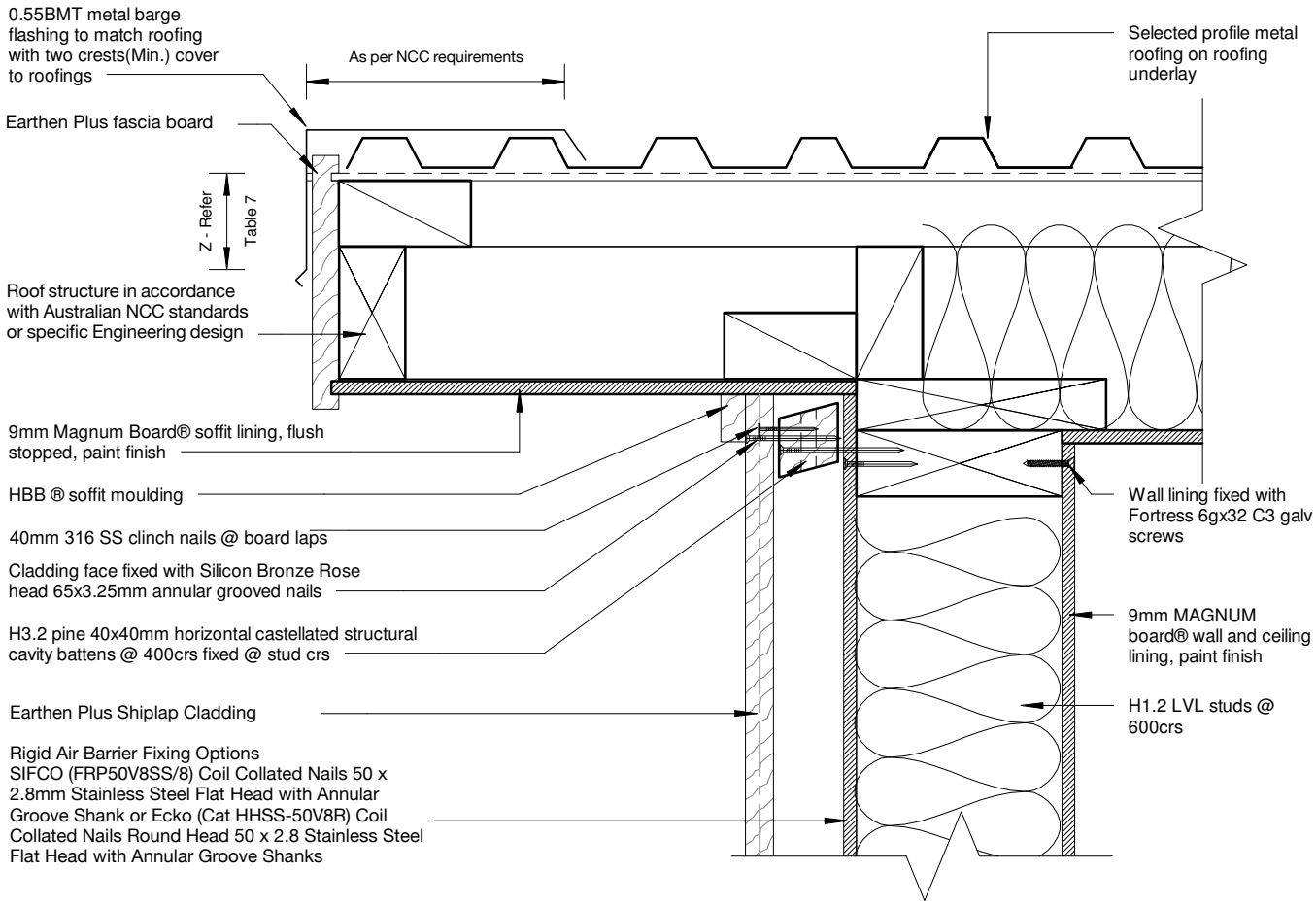
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

5/15

HT51 Vertical Shiplap Details

Eave - Section Detail

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150mm
100
50
0 10mm

Barge Eave - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

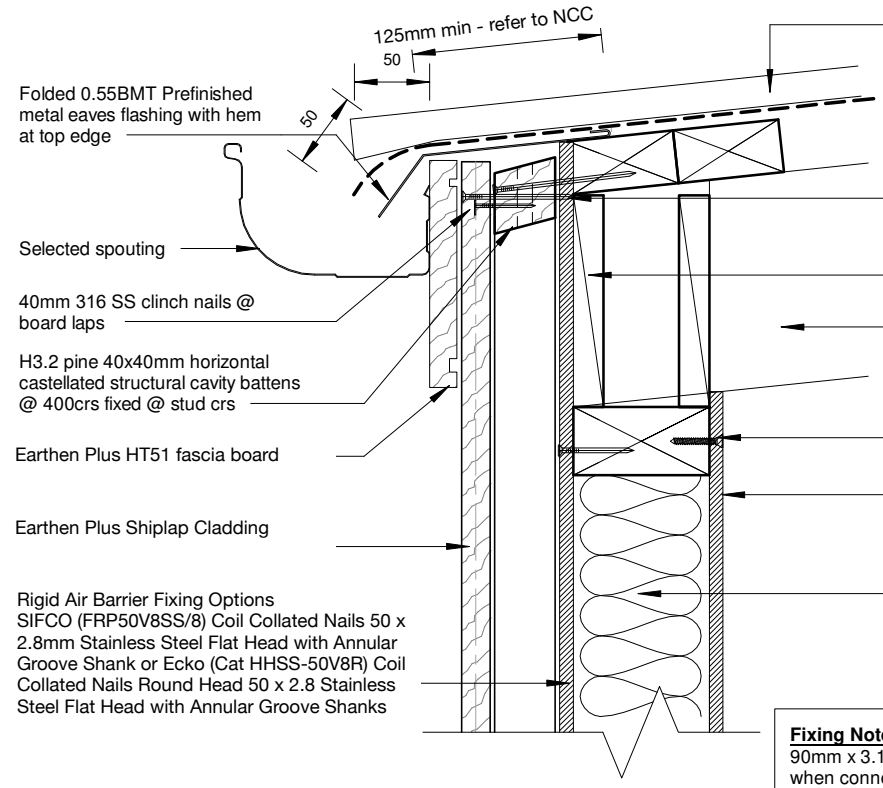
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

6/15

HT51 Vertical Shiplap Details

Barge Eave - Section Details

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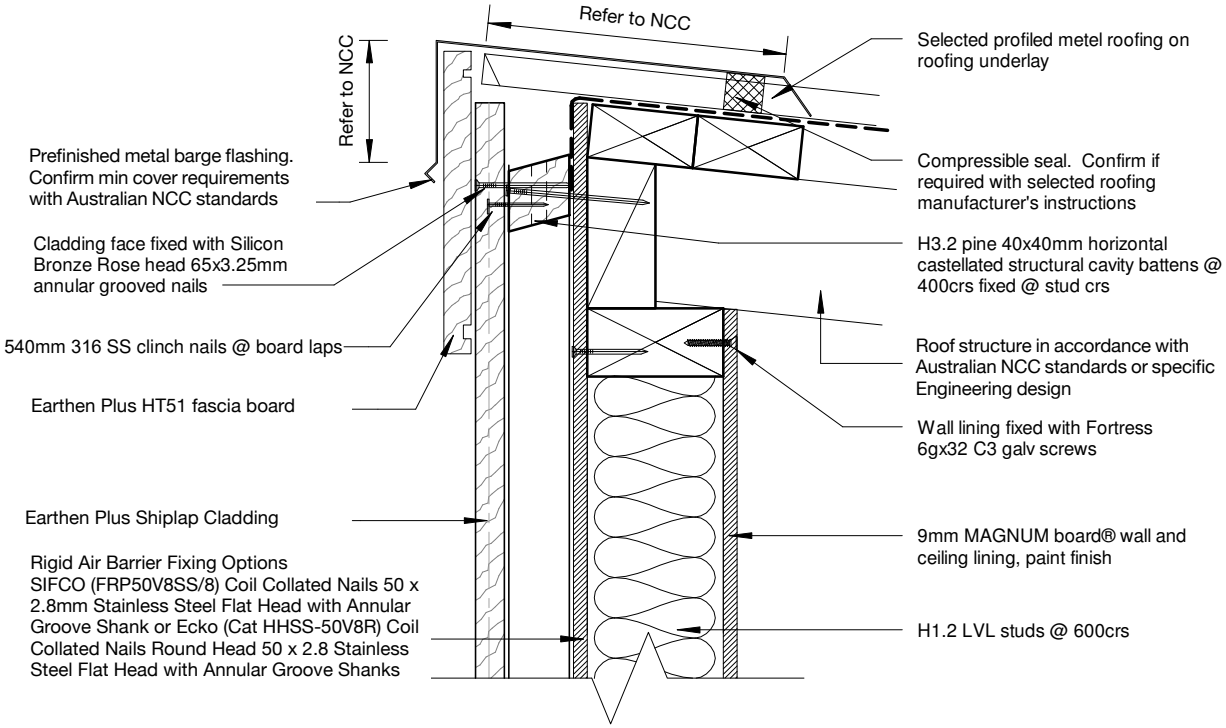


Barge - No Soffit - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.



Roof - Wall ridge - Section Detail

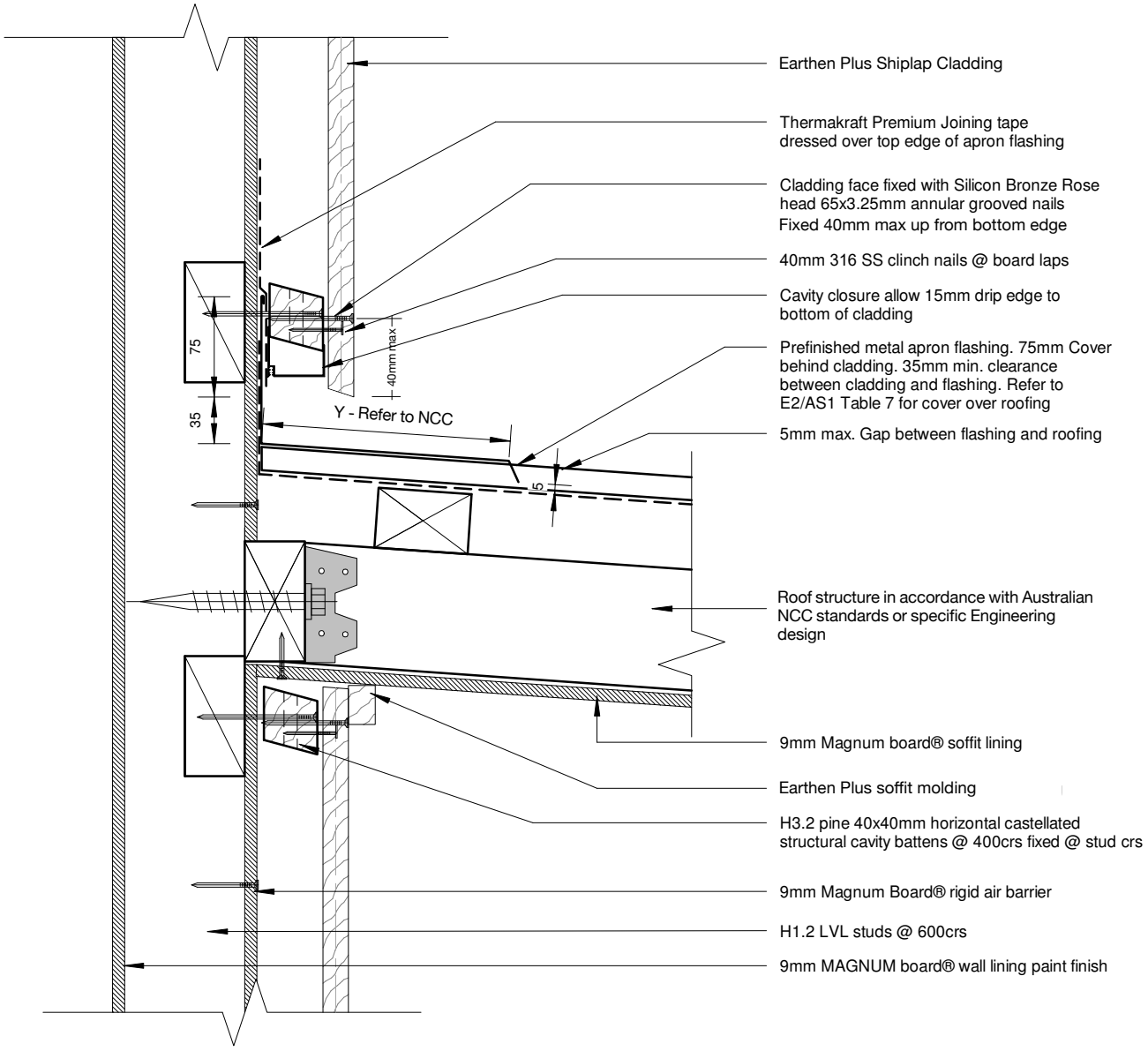
1 : 5

7/15

HT51 Vertical Shiplap Details

Roof - Wall Ridge - Section Detail

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Canopy Junction - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

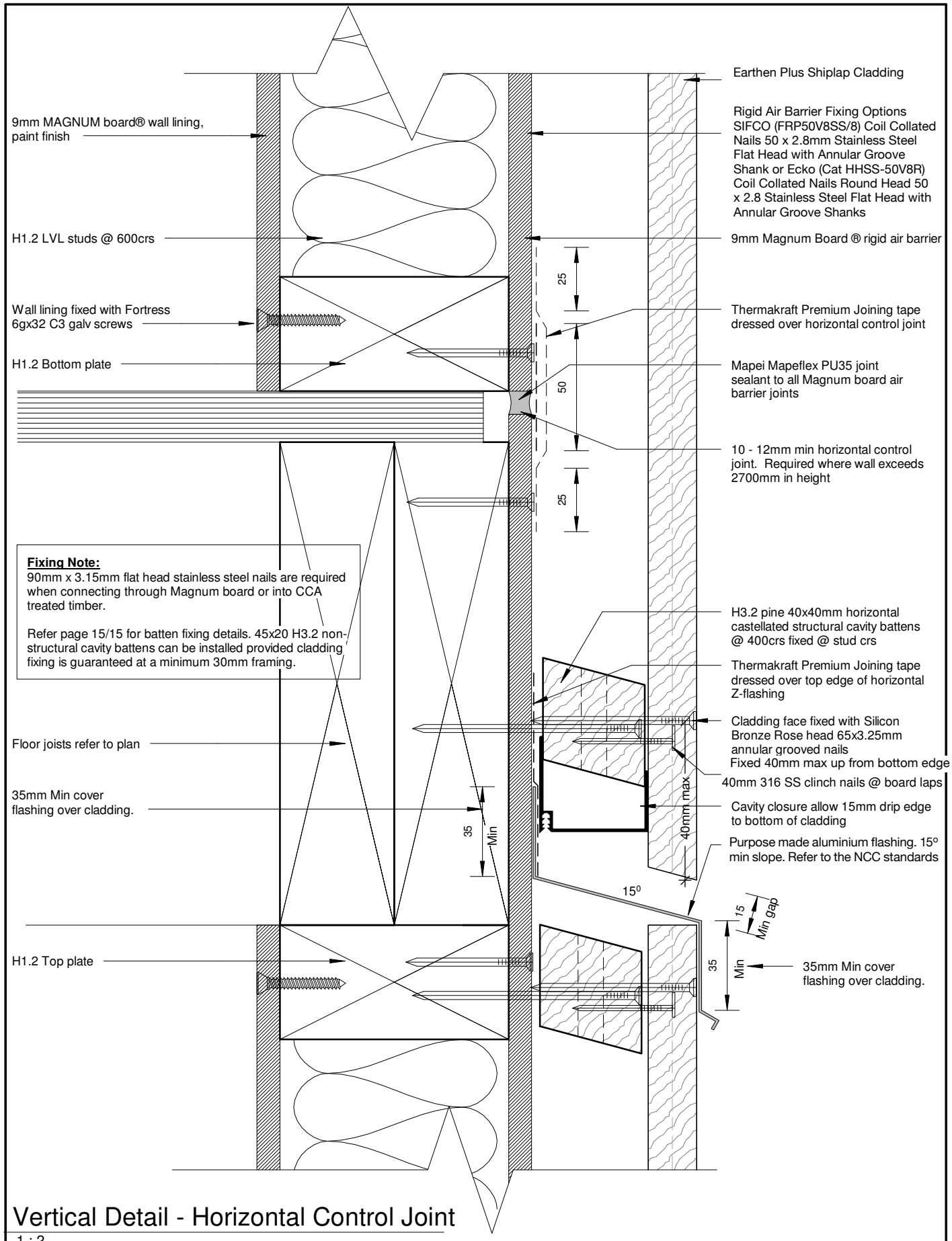
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

8/15

HT51 Vertical Shiplap Details

Canopy Junction - Section Detail

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Vertical Detail - Horizontal Control Joint

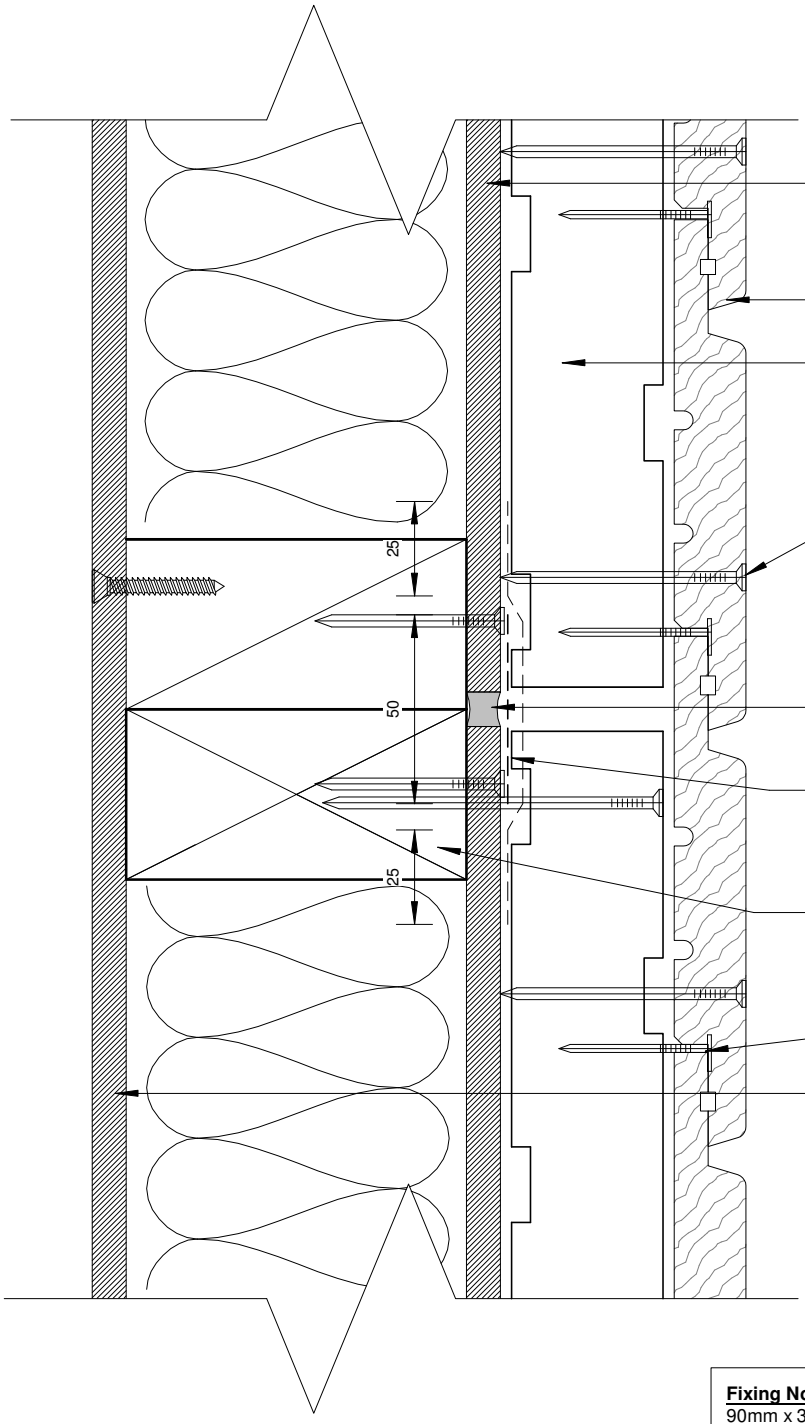
1 : 2

9/15

HT51 Vertical Shiplap Details

Horizontal Control Joint

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Rigid Air Barrier Fixing Options
SIFCO (FRP50V8SS/8) Coil Collated Nails 50 x 2.8mm Stainless Steel Flat Head with Annular Groove Shank or Ecko (Cat HHSS-50V8R) Coil Collated Nails Round Head 50 x 2.8 Stainless Steel Flat Head with Annular Groove Shanks

Earthen Plus Shiplap Cladding

H3.2 pine 40x40mm horizontal castellated structural cavity battens @ 400crs fixed @ stud crs

Cladding face fixed with Silicon Bronze Rose head 65x3.25mm annular grooved nails

Mapei Mapeflex PU35 joint sealant to vertical control joint

Thermakraft Premium Joining tape dressed over Magnum board joints

H1.2 LVL studs @ 600crs

40mm 316 SS clinch nails @ board laps

9mm MAGNUM board® wall lining, paint finish

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

Plan Detail - Vertical Control Joint

1 : 2

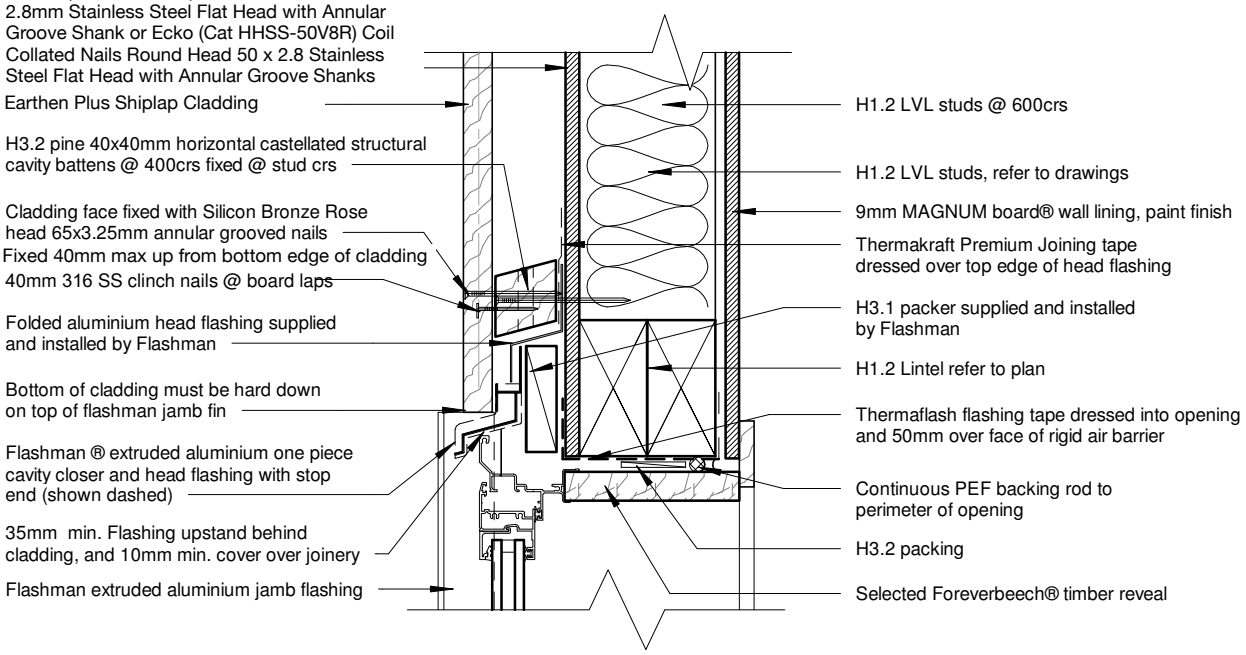
0 10mm 50 100 150mm

10/15

HT51 Vertical Shiplap Details

Plan Detail - Vertical Control Joint

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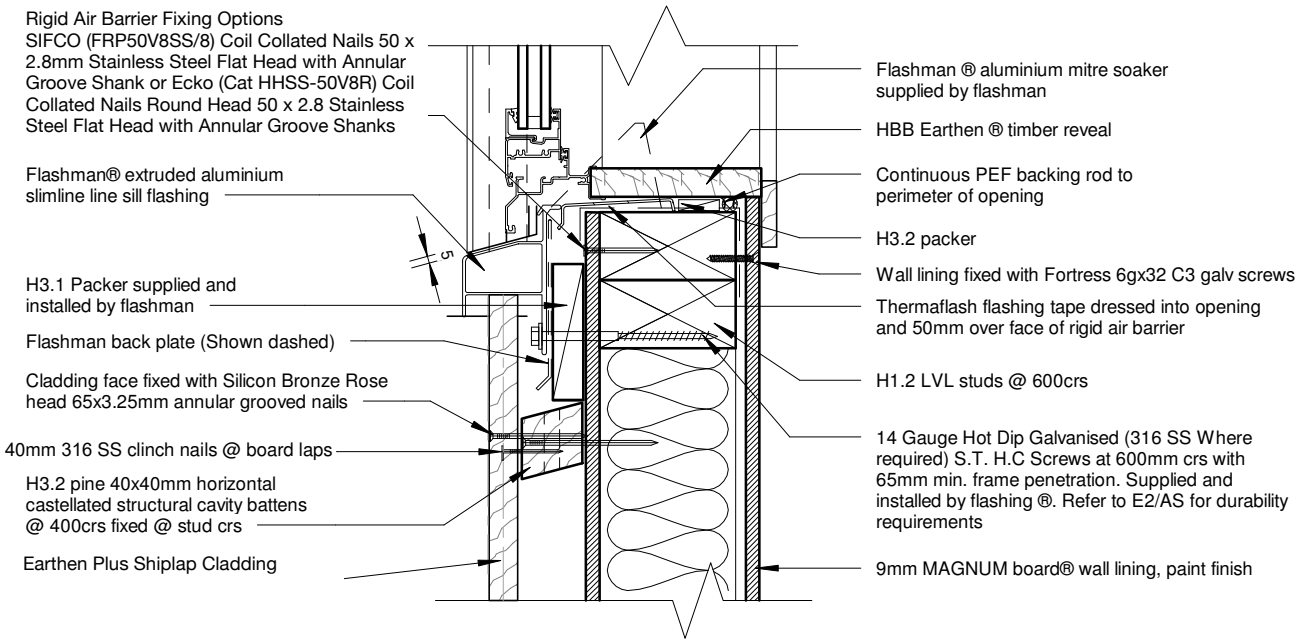


Typical Head - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.



Typical Sill - Section Detail

1 : 5

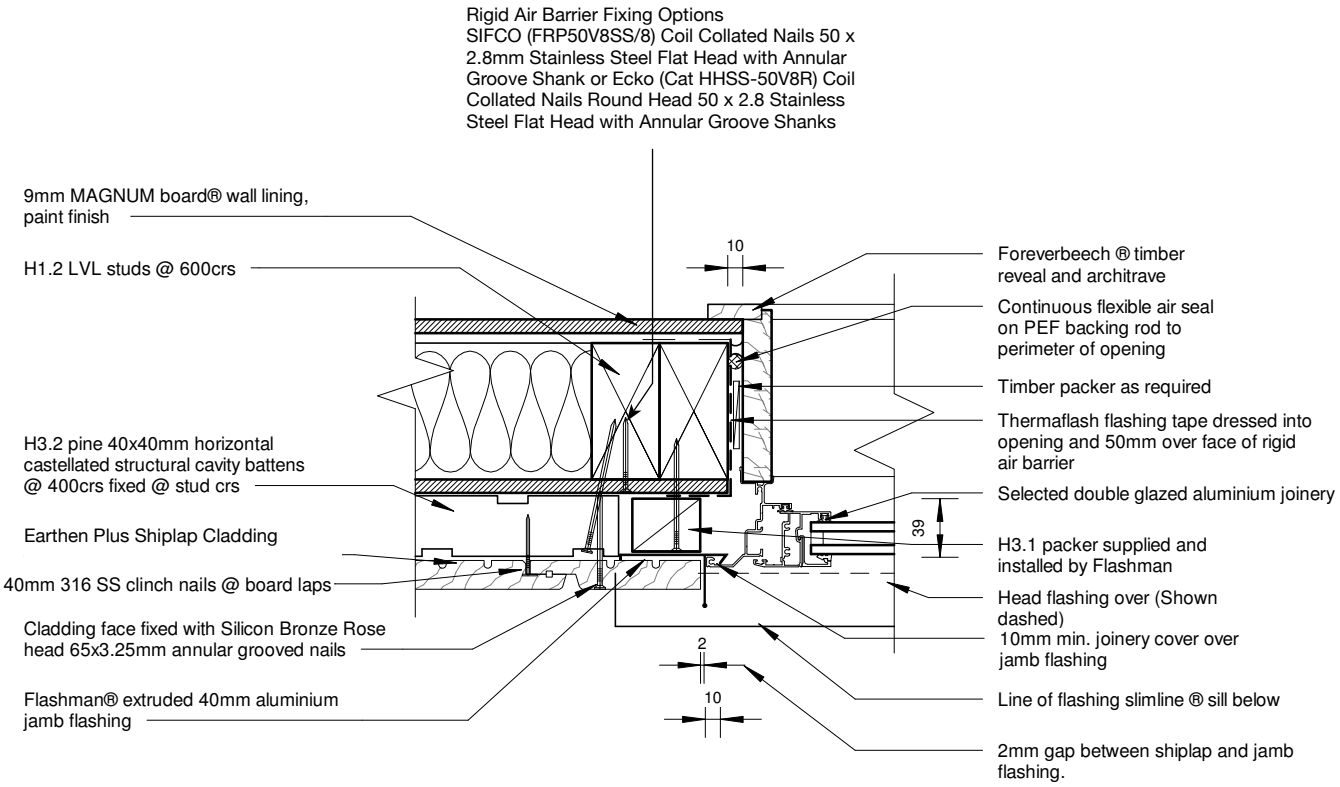
150mm
100
50
0 10mm

11/15

HT51 Vertical Shiplap Details

Typical Head and Sill Detail

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DO NOT FIX THROUGH JAMB FLASHING

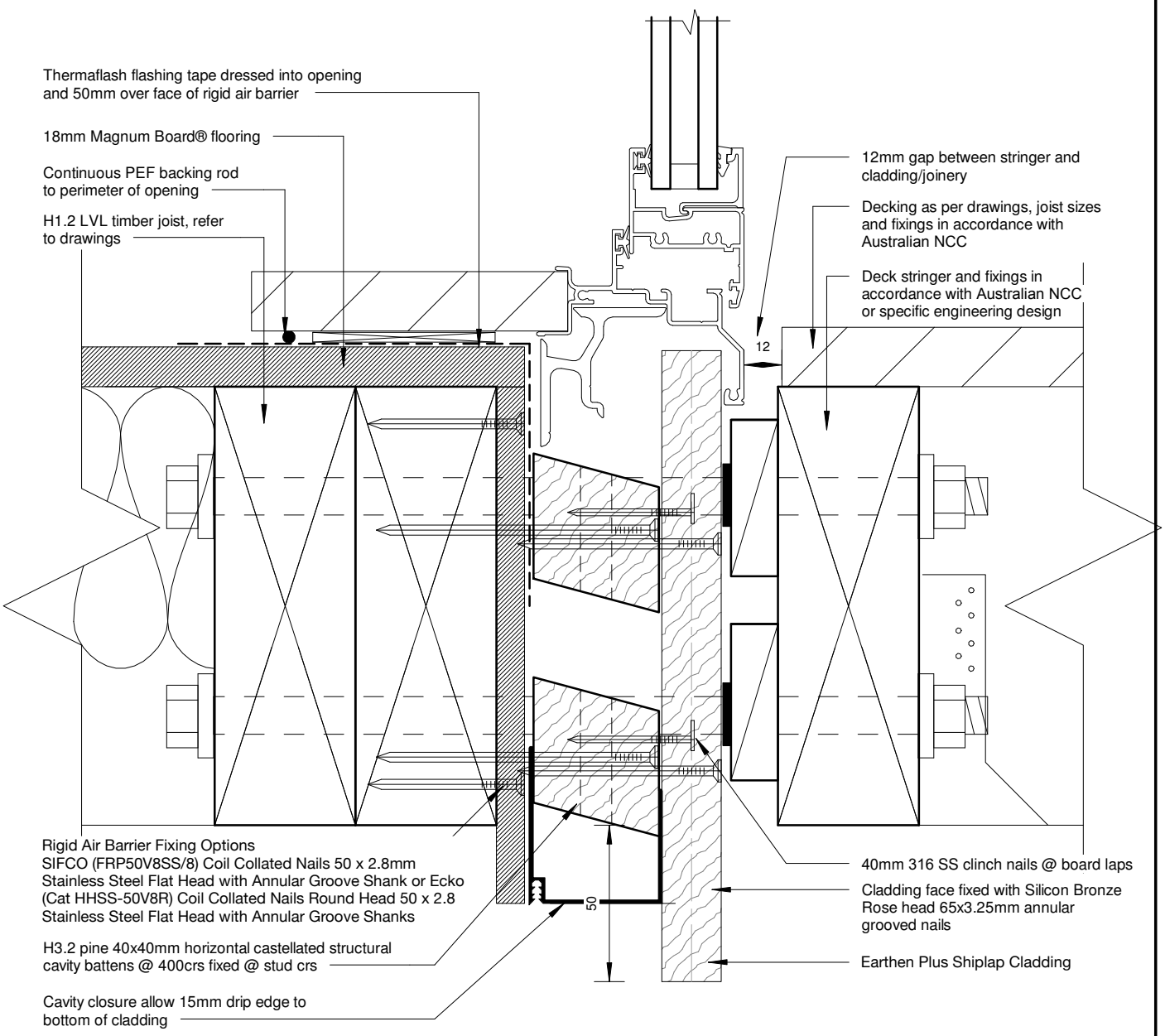
Typical Jamb - Plan Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

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150mm
100
50
0 10mm

Deck Threshold Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

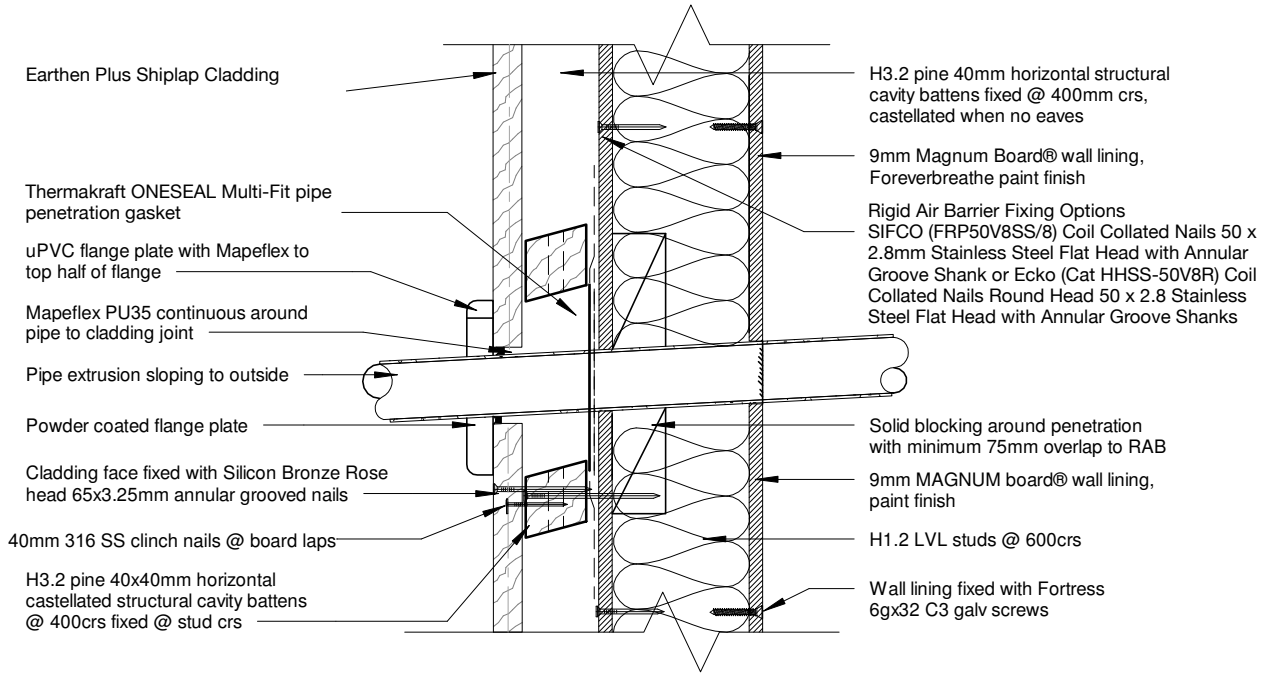
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

13/15

HT51 Vertical Shiplap Details

Deck Threshold Detail

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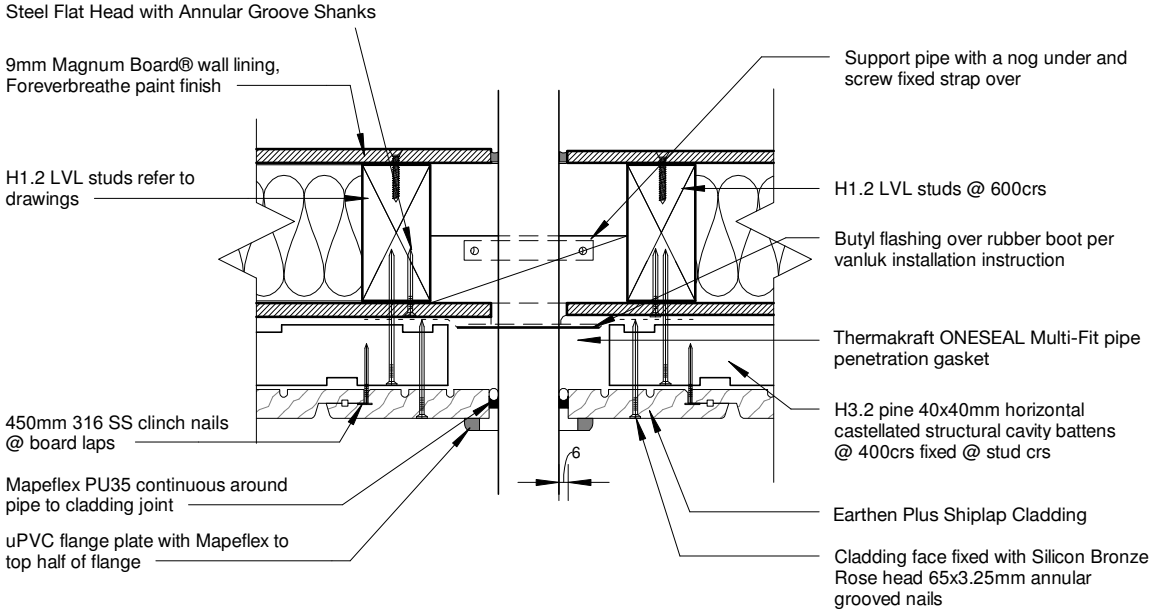


Pipe Penetration - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.



Pipe Penetration - Plan Detail

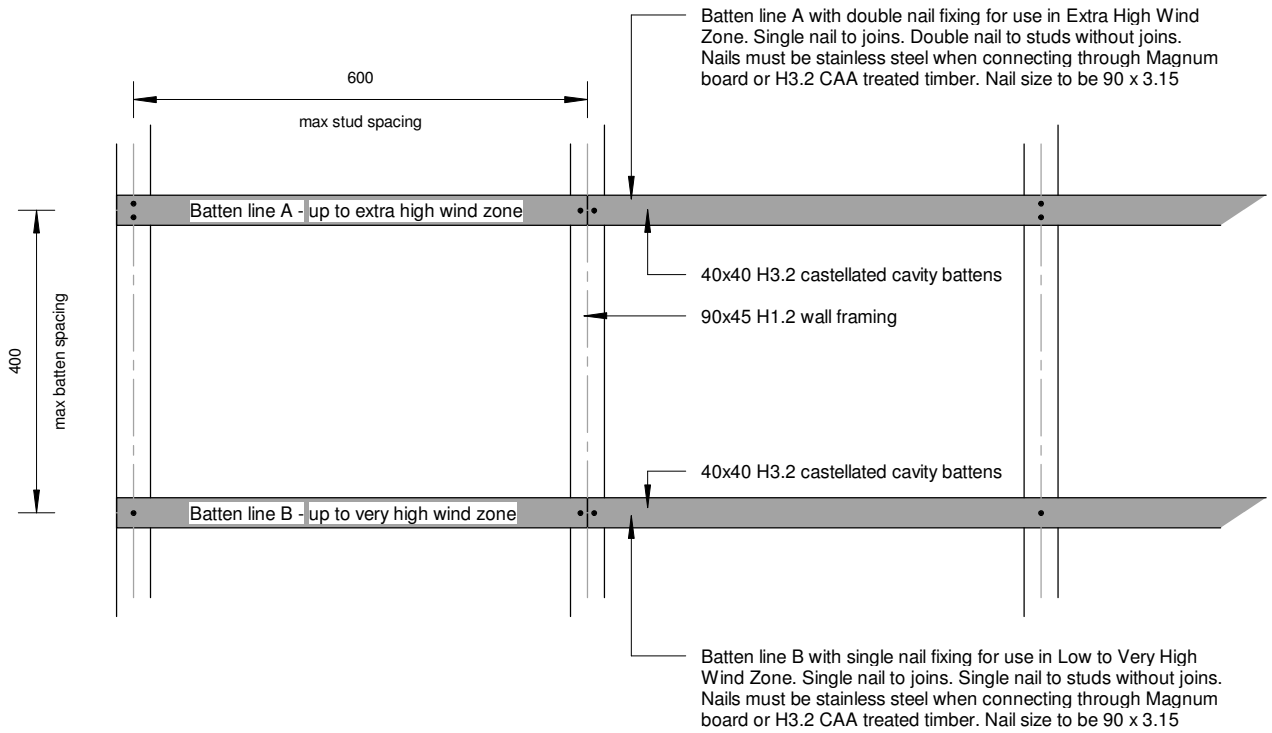
1 : 5

14/15

HT51 Vertical Shiplap Details

Pipe Penetration - Plan & Section Detail

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Batten Fixing

1 : 10

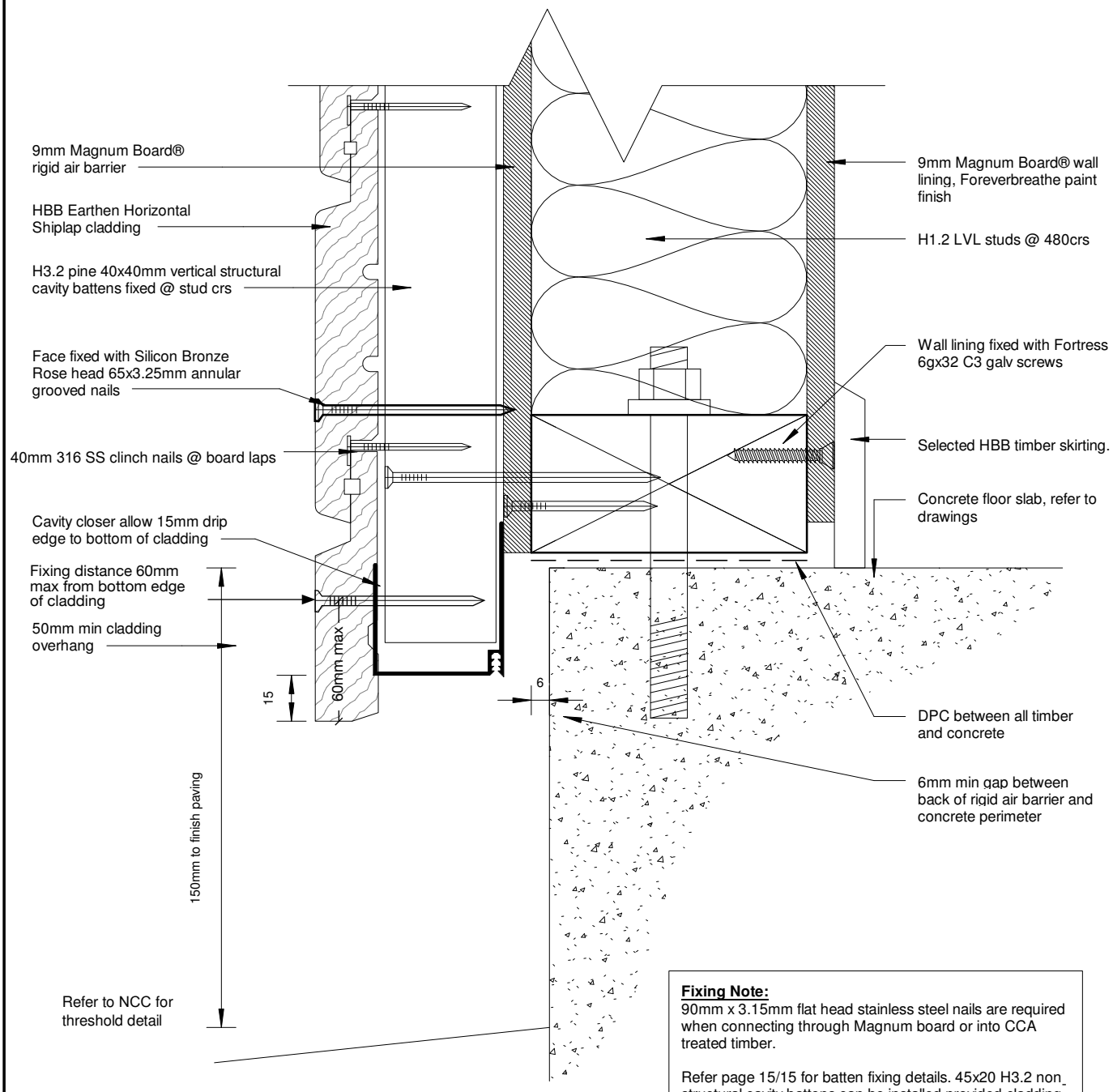
150mm
100
50
0 10mm

15/15

HT51 Vertical Shiplap Details

Batten Fixing

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Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

Concrete Foundation Detail

1 : 2

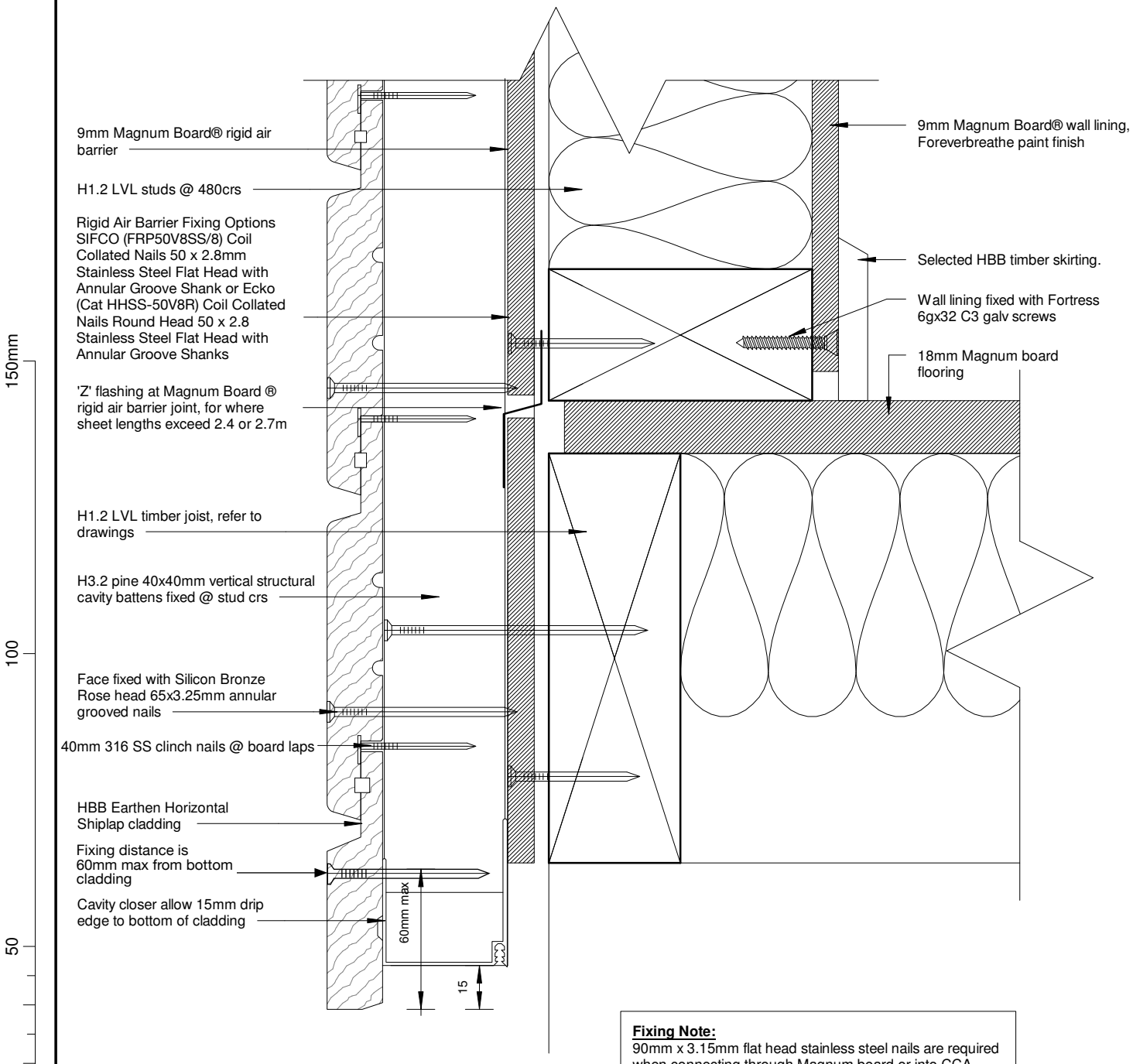
0 10mm 50 100 150mm

1/15

HT51 Horizontal Shiplap Details

Concrete Foundation Detail

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Timber Foundation Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

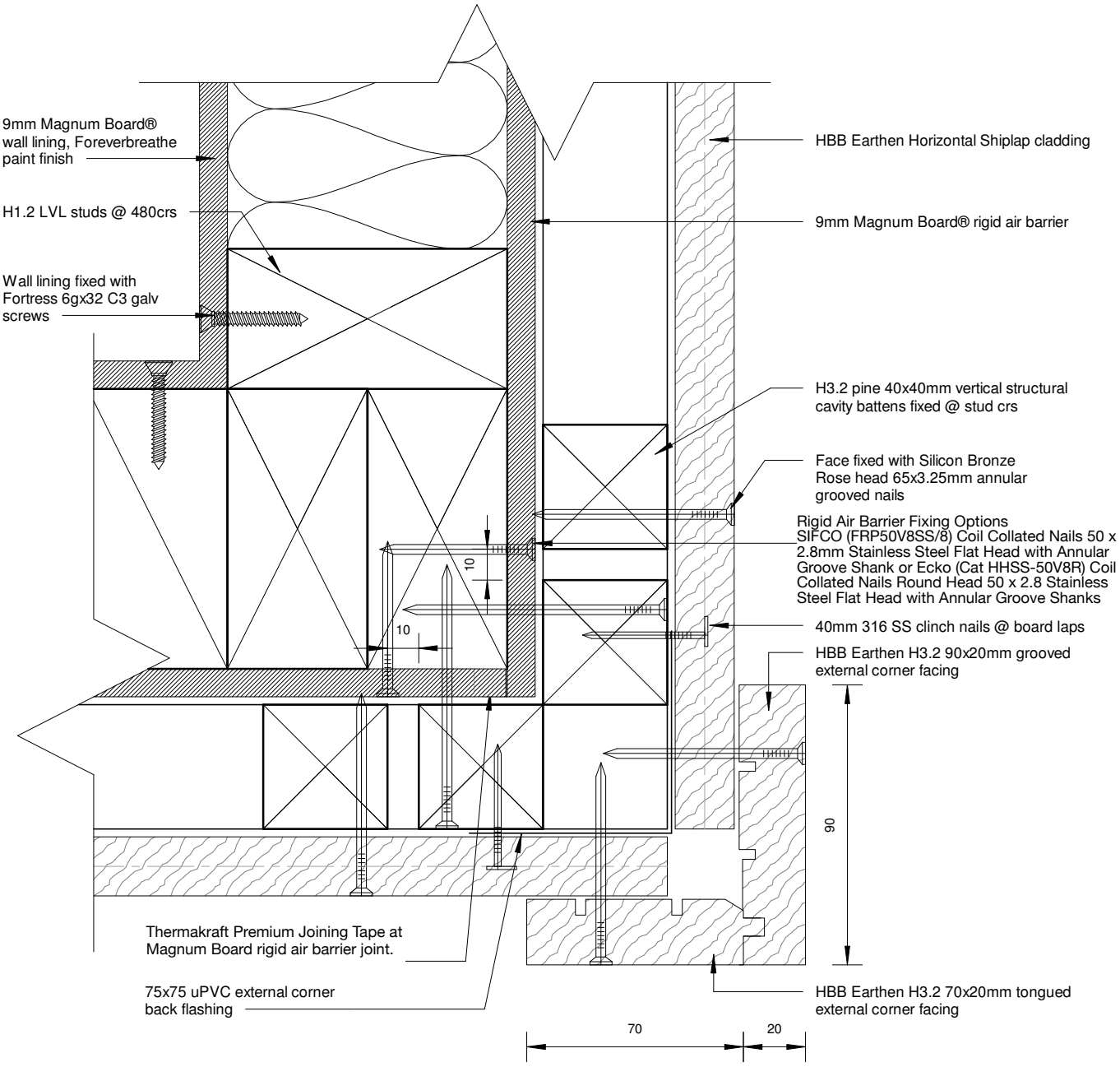
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

2/15

HT51 Horizontal Shiplap Details

Timber Foundation Detail

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External Corner Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

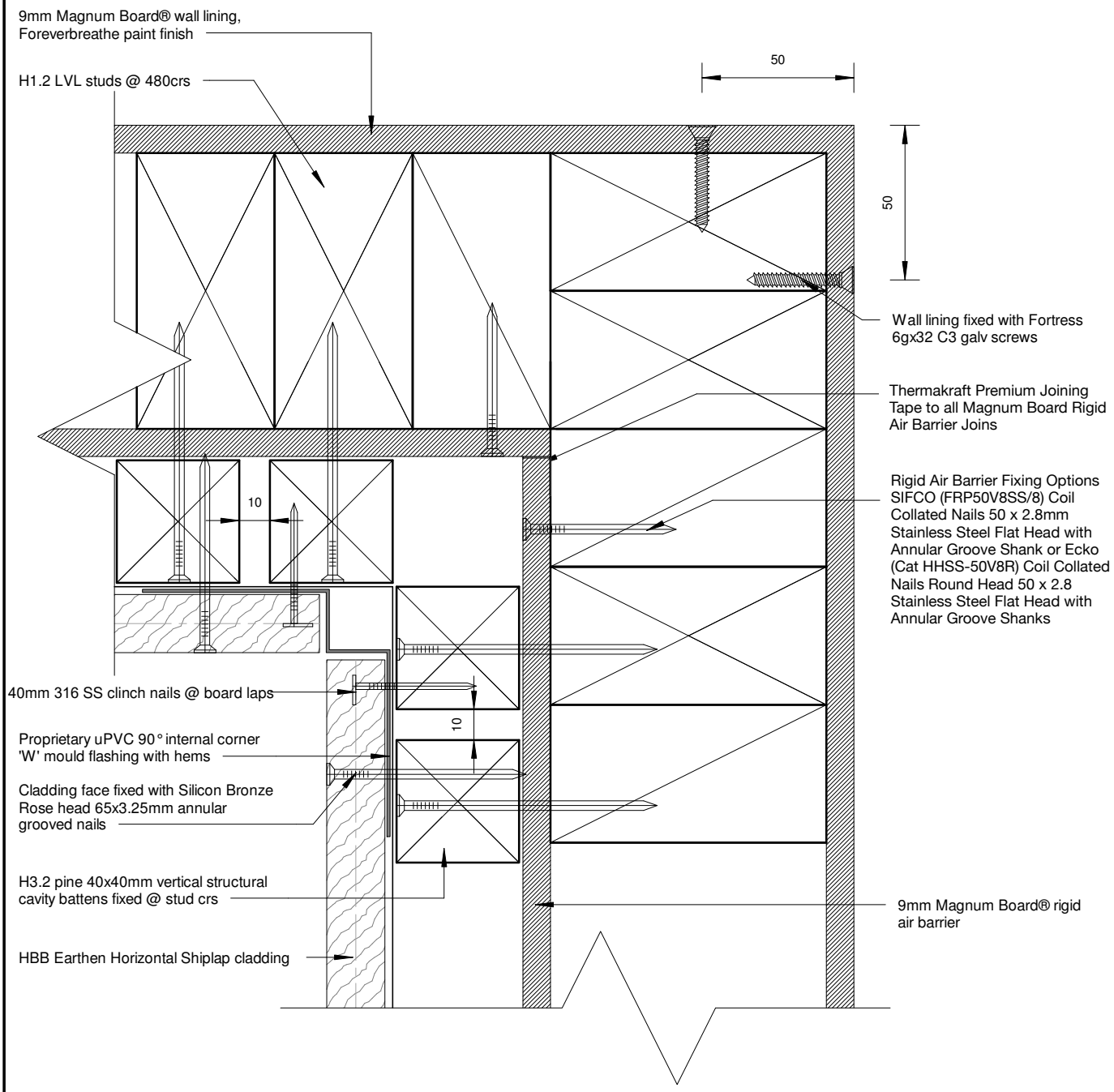
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

3/15

HT51 Horizontal Shiplap Details

External Corner Detail

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Internal Corner Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

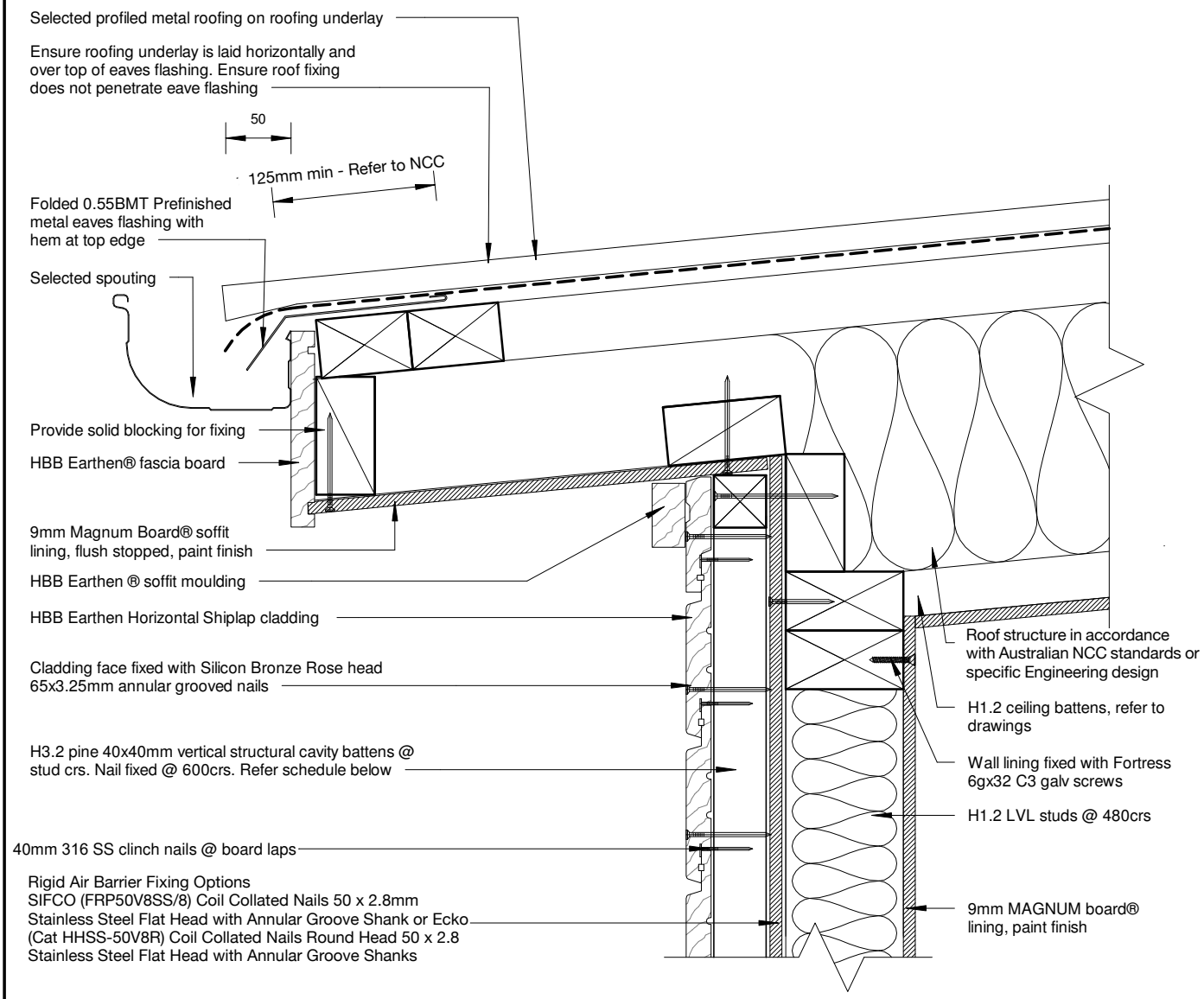
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

4/15

HT51 Horizontal Shiplap Details

Internal Corner Detail

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150mm
100
50
0 10mm

Eave - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

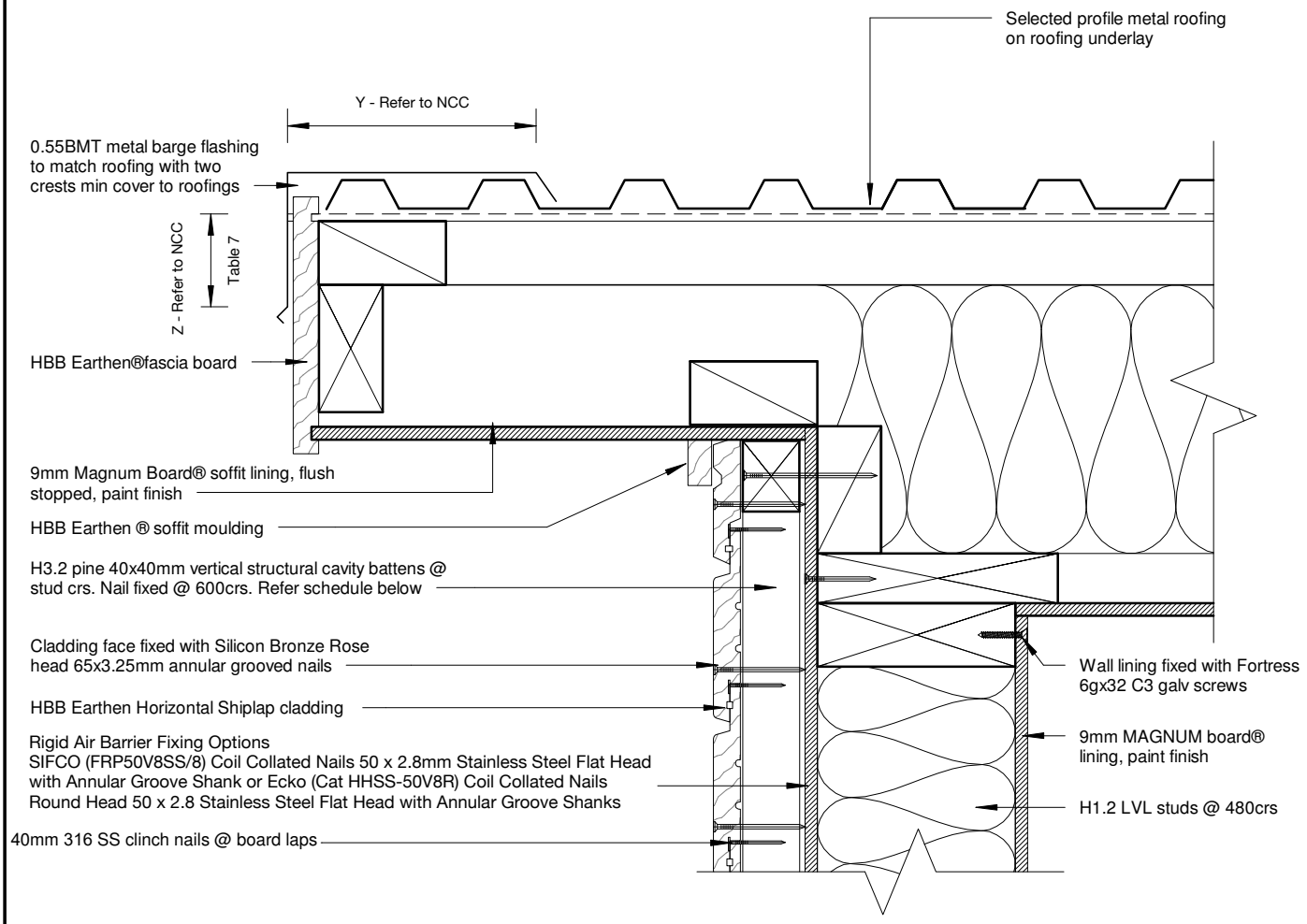
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

5/15

HT51 Horizontal Shiplap Details

Eave - Section Detail

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150mm
100
50
0 10mm

Barge - Sectional Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

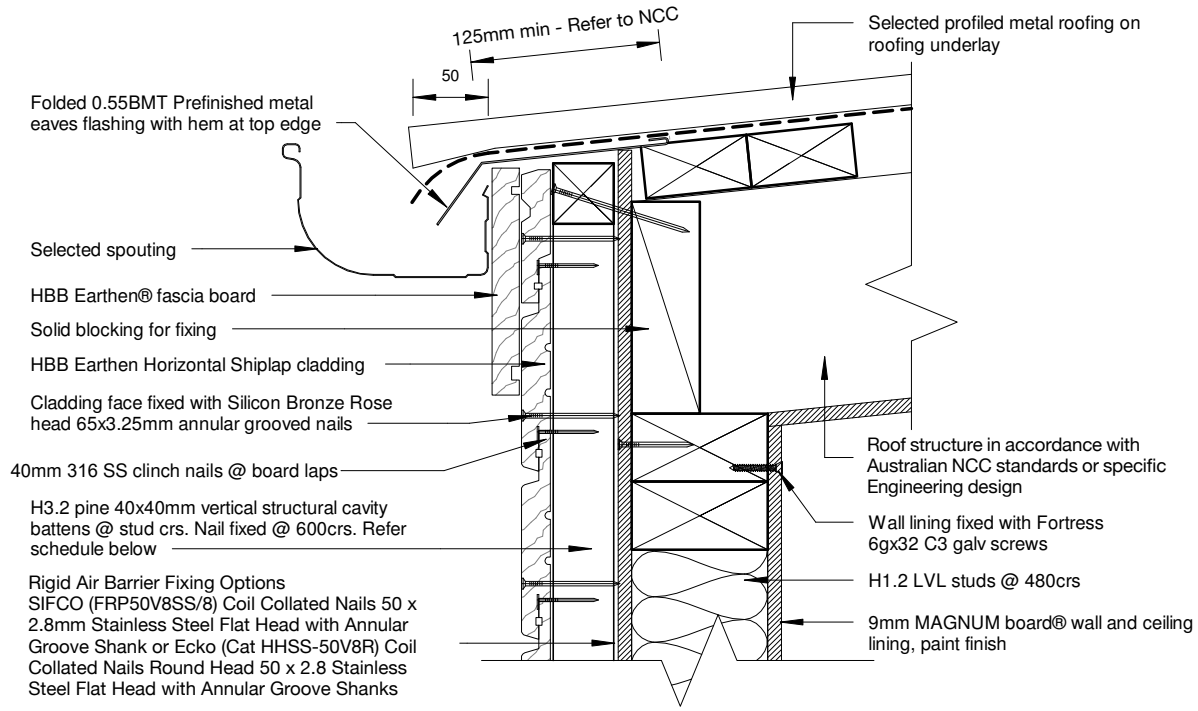
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

6/15

HT51 Horizontal Shiplap Details

Barge - Section Detail

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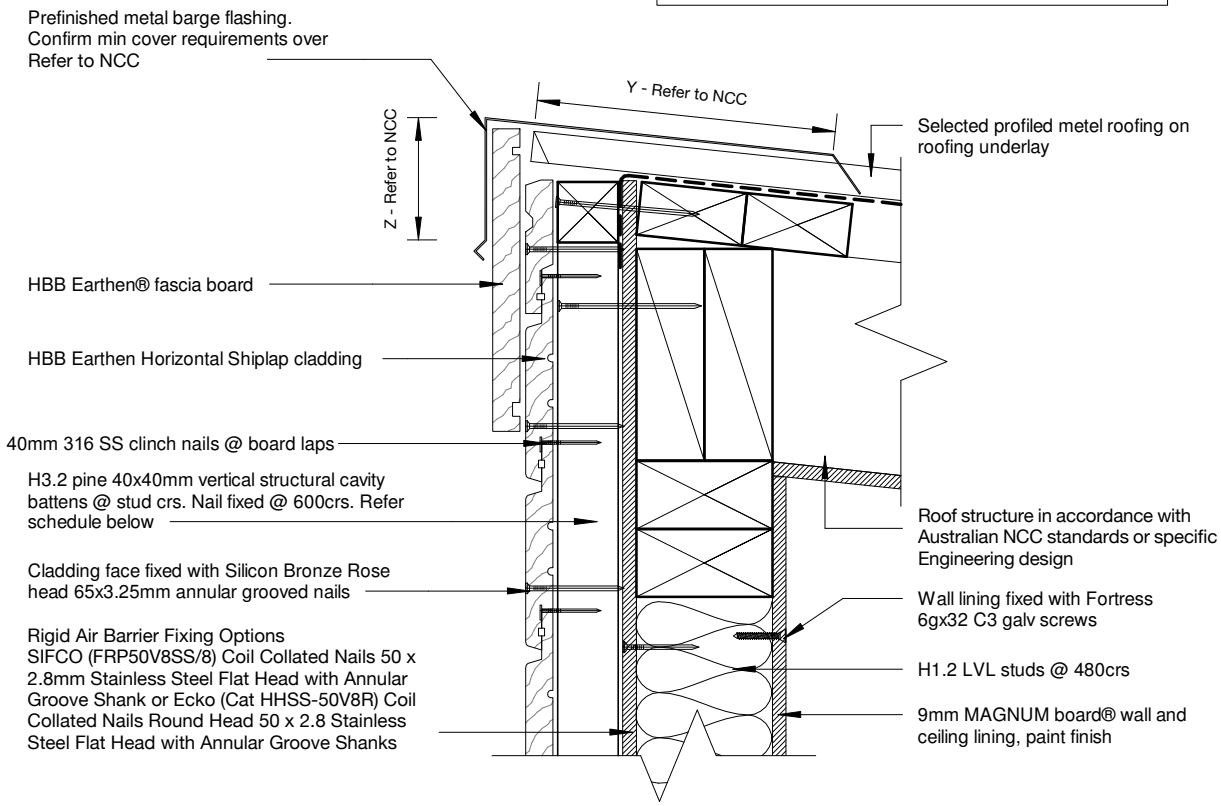


Barge - No Soffit Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.



Roof - Wall ridge - Section Detail

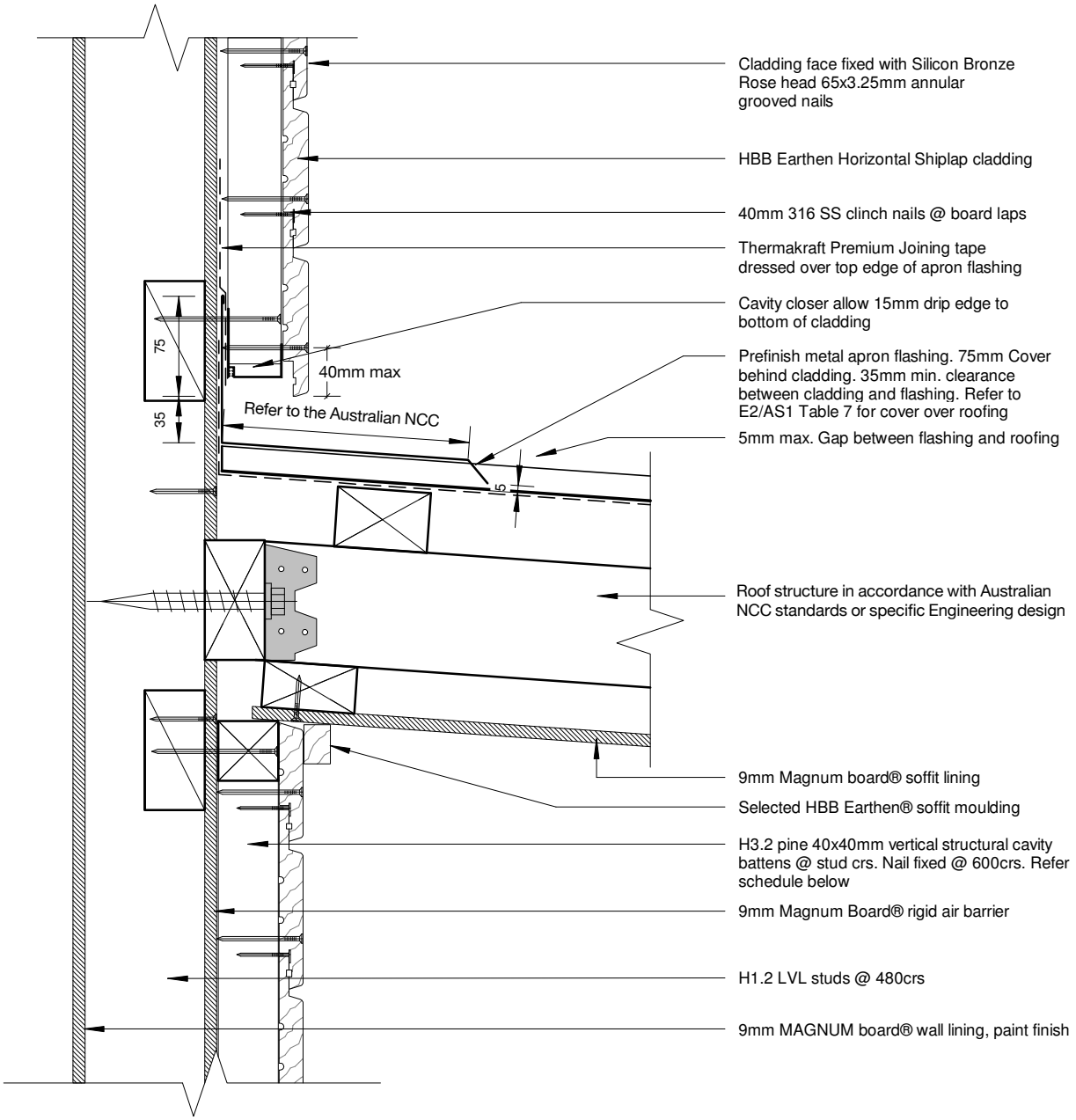
1 : 5

7/15

HT51 Horizontal Shiplap Details

Roof - Wall Ridge - Section Detail

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Canopy Junction - Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

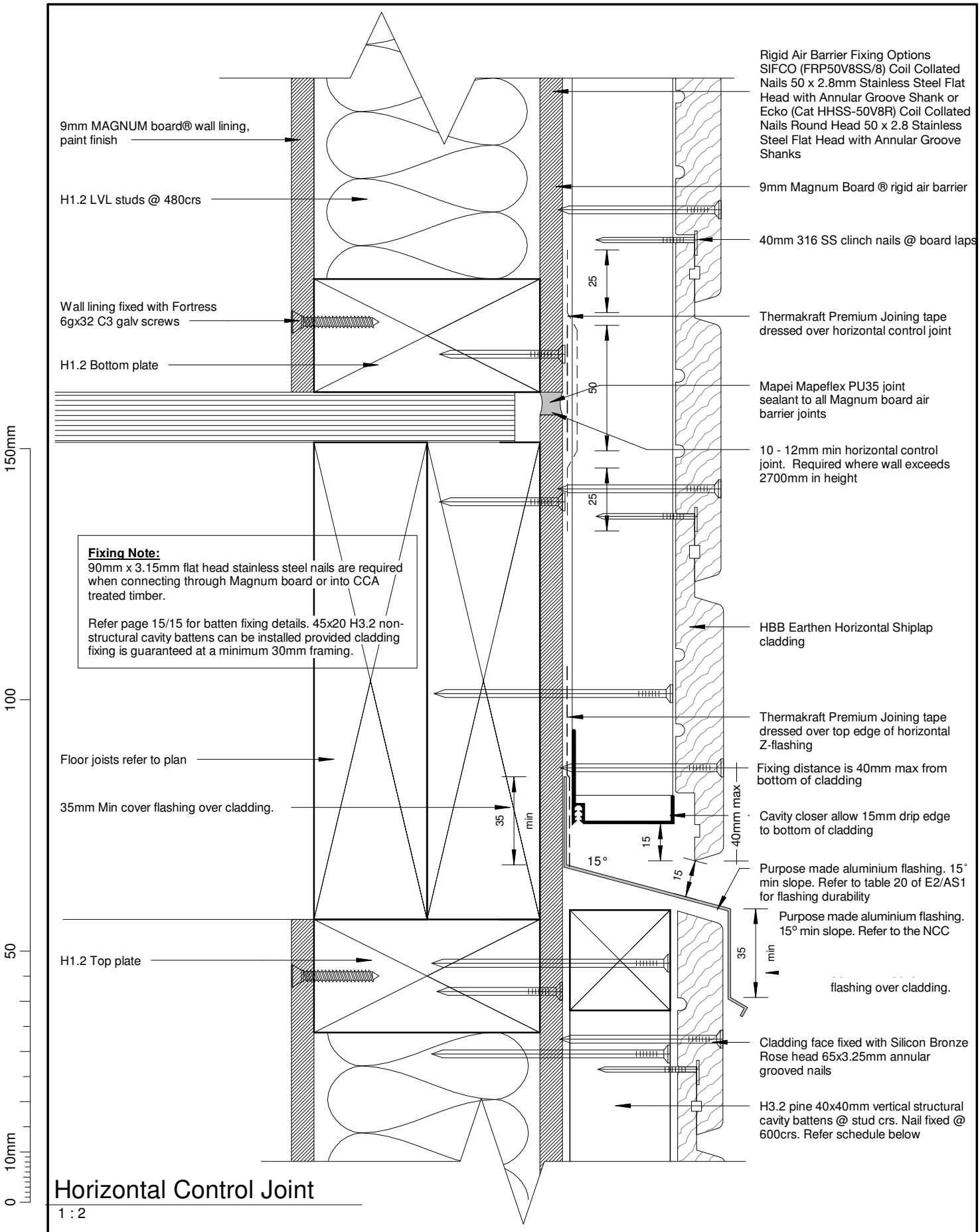
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

8/15

HT51 Horizontal Shiplap Details

Canopy Junction - Section Detail

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Horizontal Control Joint

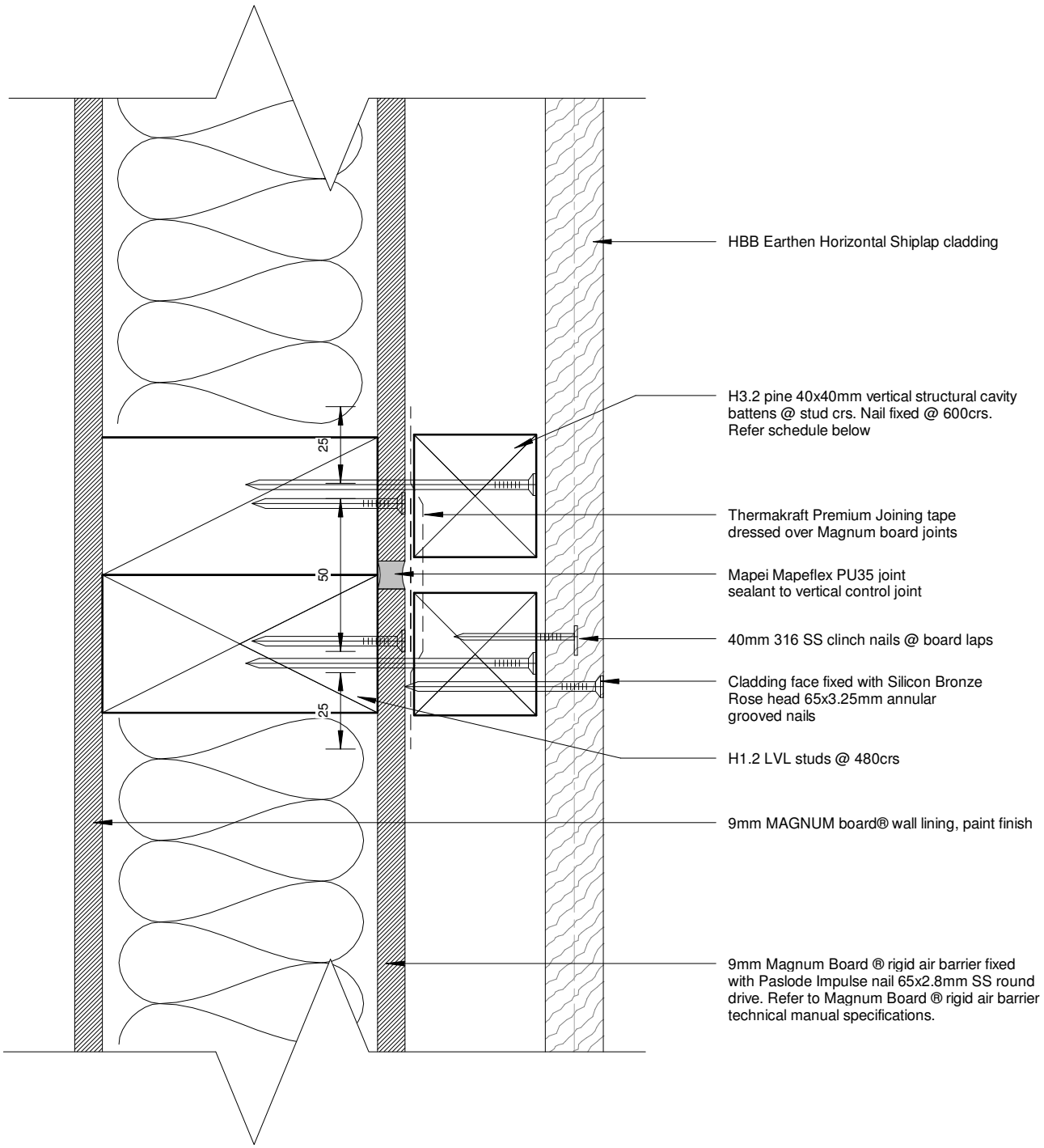
1 : 2

9/15

HT51 Horizontal Shiplap Details

Horizontal Control Joint

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Vertical Control Joint

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

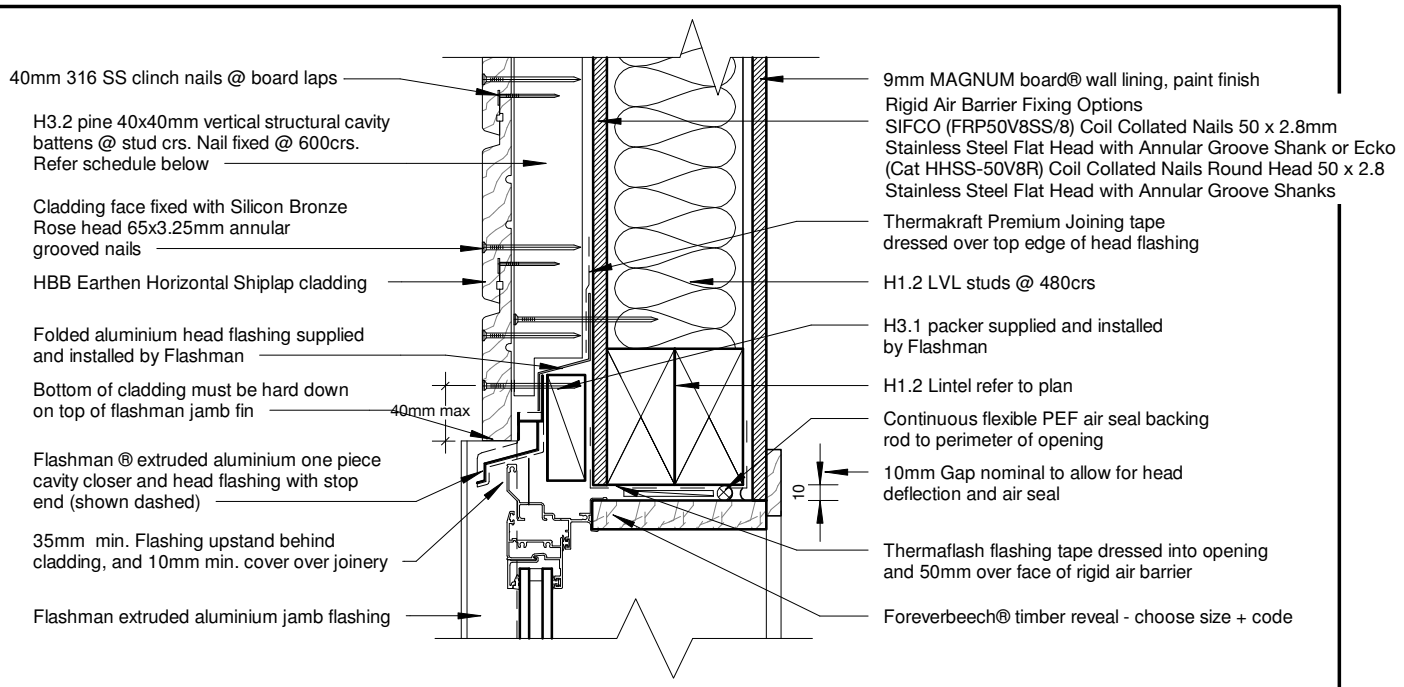
150mm
100
50
0 10mm

10/15

HT51 Horizontal Shiplap Details

Vertical Control Joint

© Health Based Building™ 2025

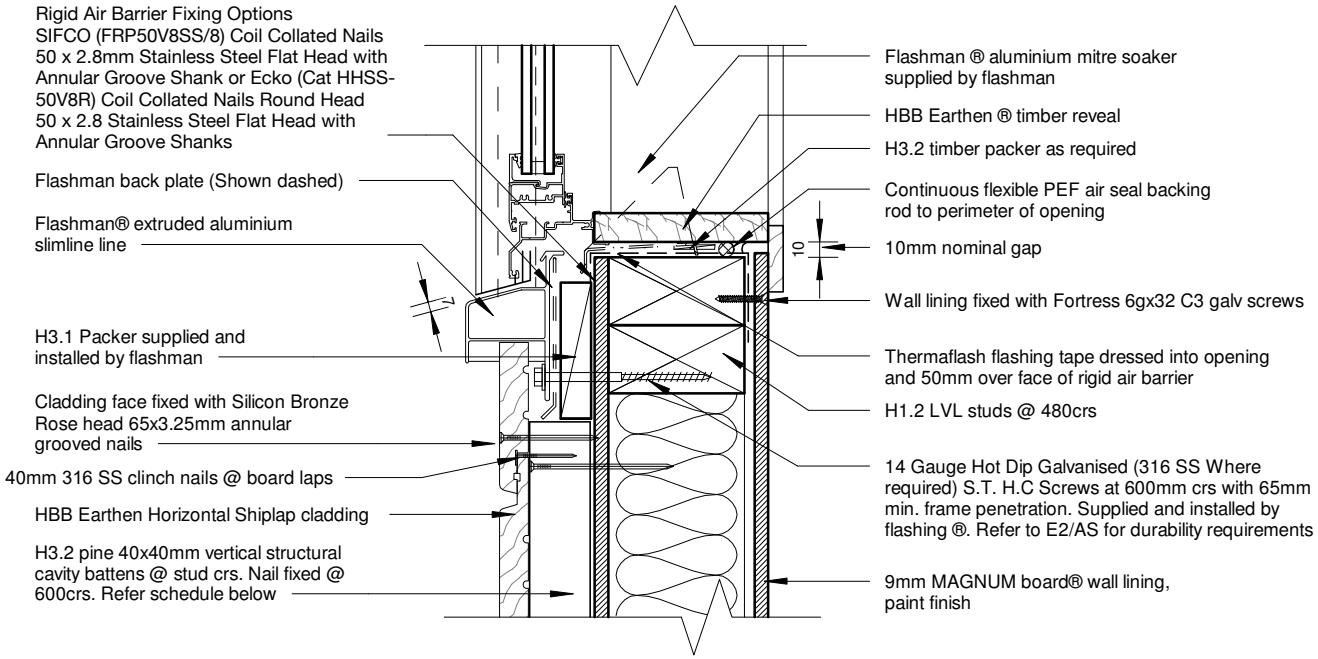


Typical Head Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.



Typical Sill Detail

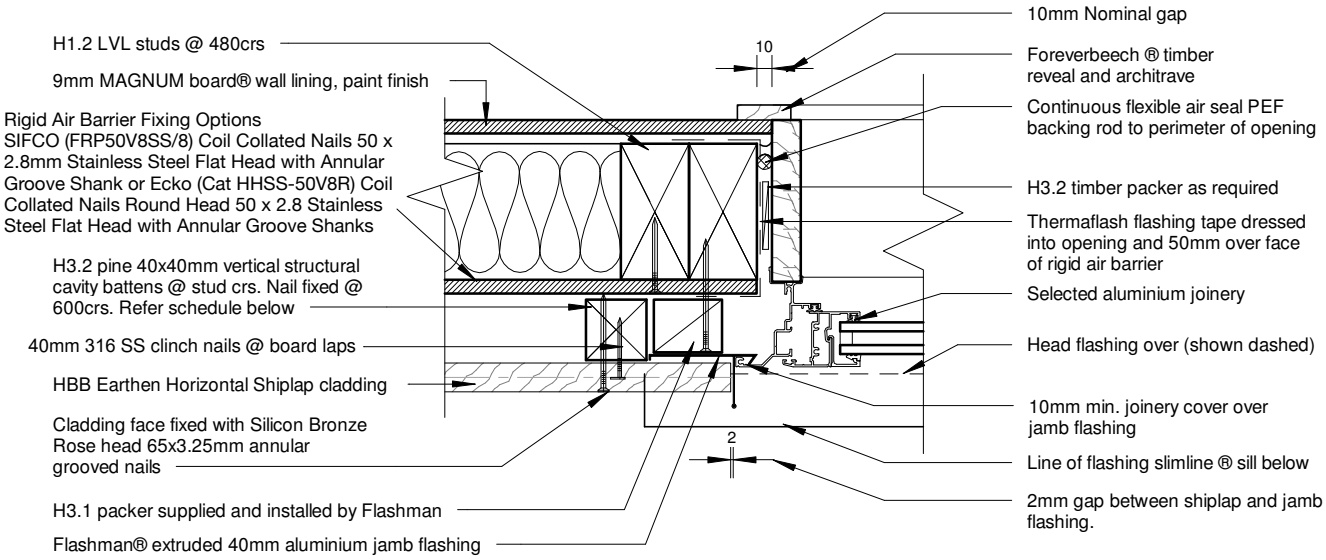
1 : 5

11/15

HT51 Horizontal Shiplap Details

Typical Head and Sill Detail

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Typical Jamb Detail

1 : 5

DO NOT FIX THROUGH JAMB FLASHING

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

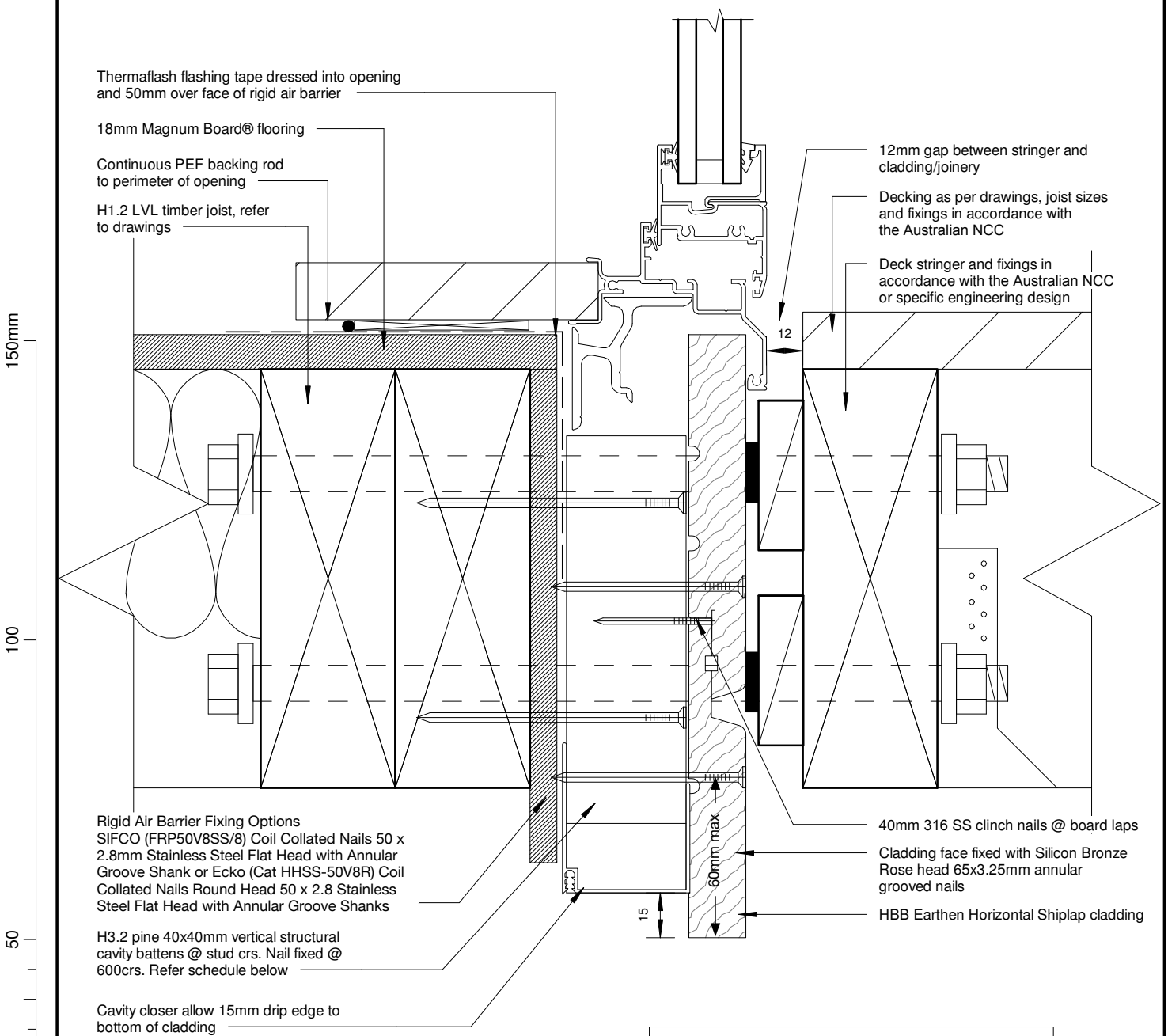
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

12/15

HT51 Horizontal Shiplap Details

Typical Jamb Detail

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Deck Threshold Detail

1 : 2

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

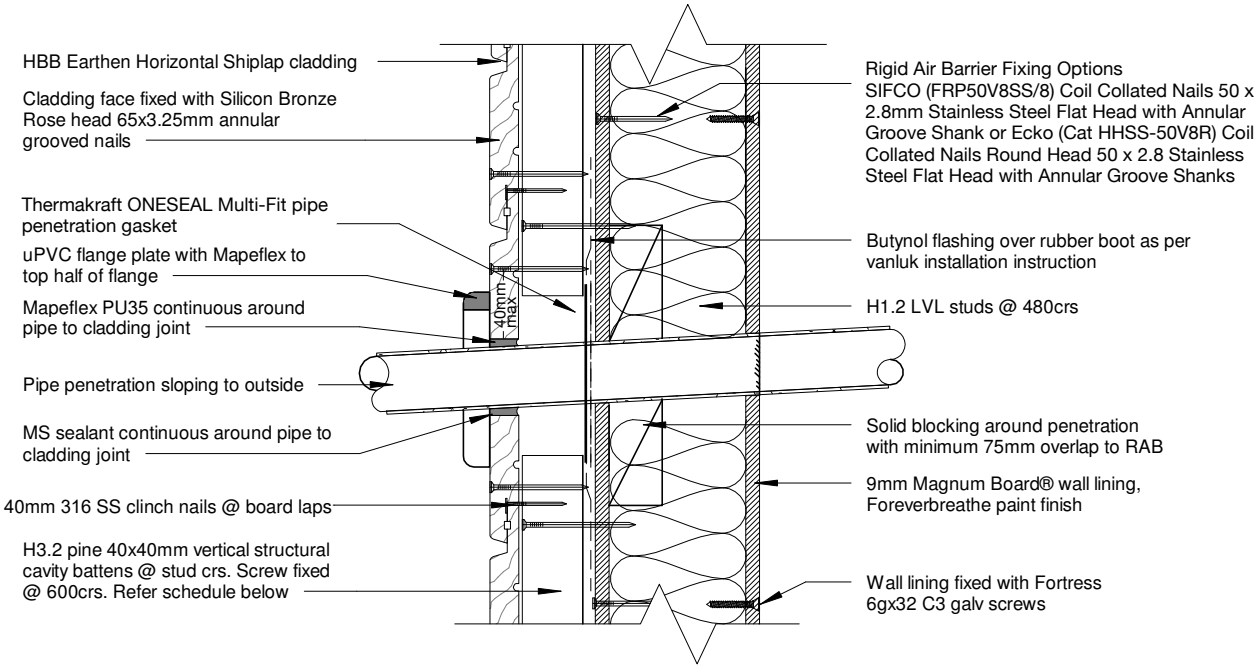
Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.

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HT51 Horizontal Shiplap Details

Deck Threshold Detail

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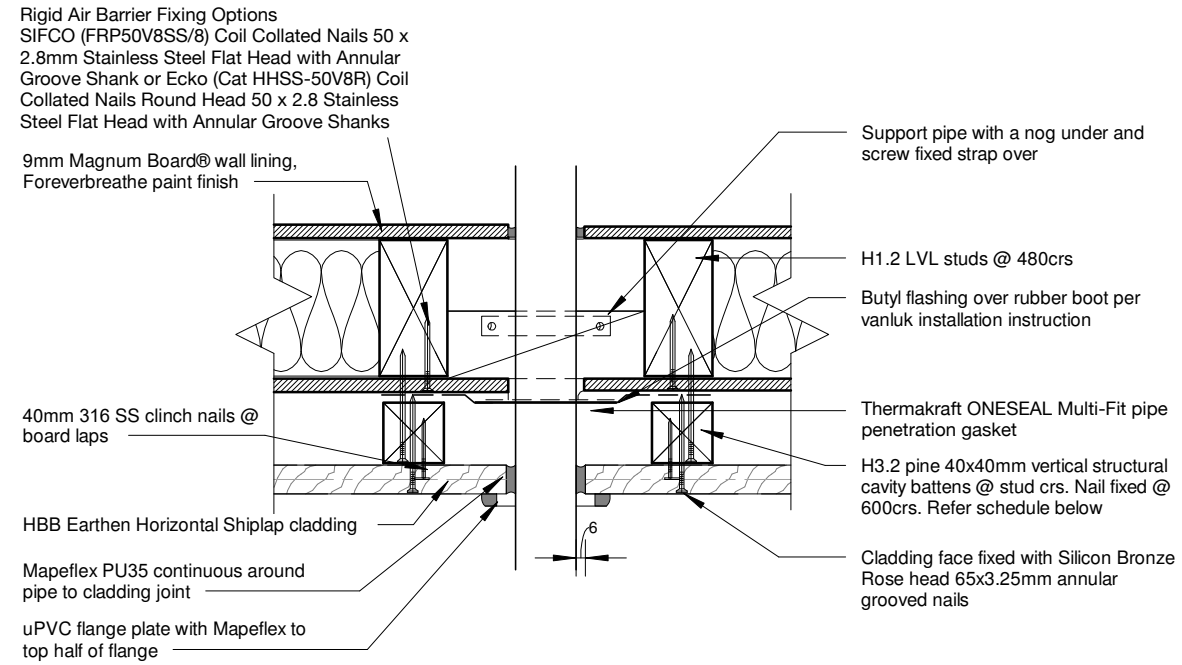


Pipe Penetration Section Detail

1 : 5

Fixing Note:
90mm x 3.15mm flat head stainless steel nails are required when connecting through Magnum board or into CCA treated timber.

Refer page 15/15 for batten fixing details. 45x20 H3.2 non-structural cavity battens can be installed provided cladding fixing is guaranteed at a minimum 30mm framing.



Pipe Penetration Plan Detail

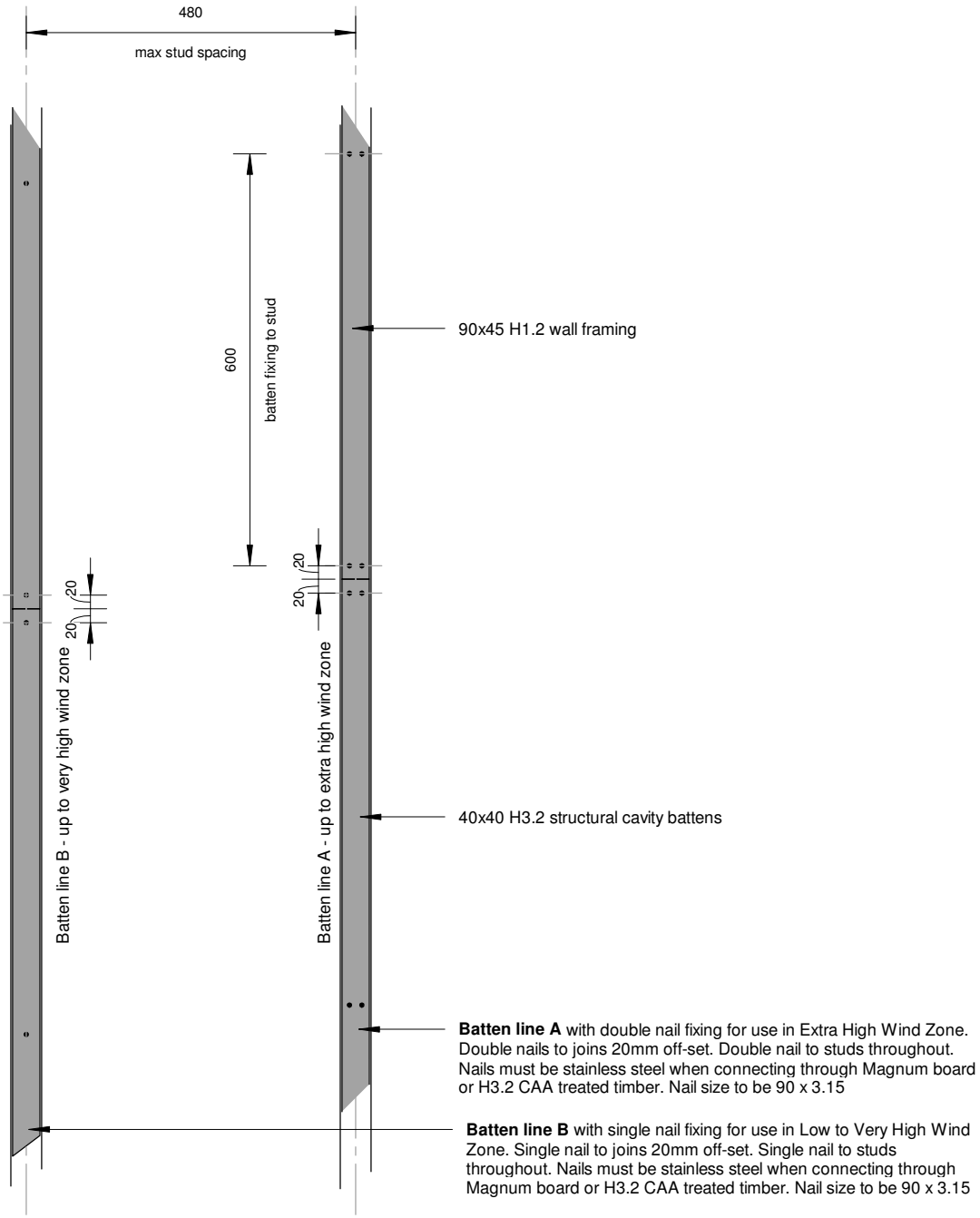
1 : 5

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HT51 Horizontal Shiplap Details

Pipe Penetration - Plan & Section Detail

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Batten Fixing

1 : 10

0 10mm 50 100 150mm

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HT51 Horizontal Shiplap Details

Batten Fixing

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