Earthen™ Bevelback 187x21 Weatherboard Technical Manual

Make your space, a healthy place.

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PLEASE NOTE: PINE WEATHERBOARD PROFILE **TP187X21WB**PP **IS AT THIS TIME NOT DIRECTLY CONNECTED TO DETAILED INSTALLATION DOCUMENTS INCLUSIVE OF CONTRUCTION DETAILS. THE CONSTRUCTION DETAILS PROVIDED IN THIS DOCUMENT FOR PROFILE HT**61 **ARE TO ENSURE GOOD GUIDANCE IS IN PLAY AND BEST PRACTICE CONTRUCTION METHODS ARE ENGAGED. FIXING POSITIONS AND RECOMMENDED FIXING TYPES ARE INCLUDED. RECOMMENDED PAINT AND OIL COATINGS ARE INCLUDED. WHEN INSTALLED CORRECTLY AND MAINTAINED CORRECTLY PROFILE TP187X21WBU CAN BE EXPECTED TO PERFORM TO THESE STANDARDS REQUIRED WITHIN THE NEW ZEALAND BUILDING CODE: B1, B2, E2 and F2.**

This technical manual is based on best practice design principles inclusive of structure. 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 manual must be represented to Health Based Building for comment. NOTE: Where acrylic paints are to be applied to Earthen Radiata profiles top coat colours should have the rating LRV45 or higher. Dark colours can encourage resin bleed and distortion leading to cracking and paint failure.

Technical Document No.	#054
Title	Earthen 187 x 21 Pre-Primed Horizontal Bevel Back Weatherboard
Issue Date	01-03-2022
Version	1.4

DWG FILES AVAILABLE UPON

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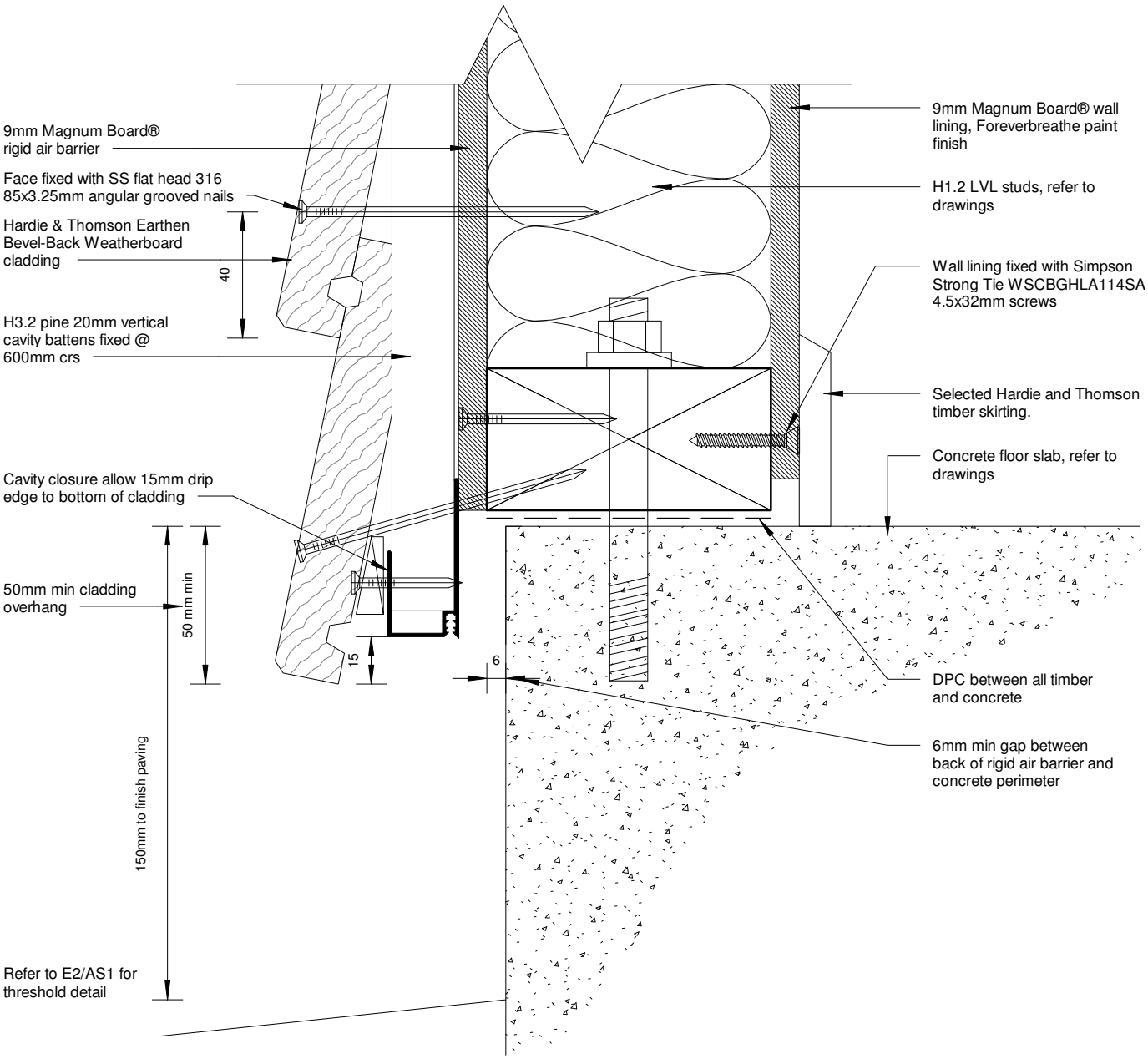

Concrete Foundation Detail

1 : 2

150mm
100
50
0 10mm

06/06/2017 09:00:32

GRAPHIC SCALES

1/14

Hardie & Thomson Bevel-Back Weatherboard Details
Concrete Foundation Detail

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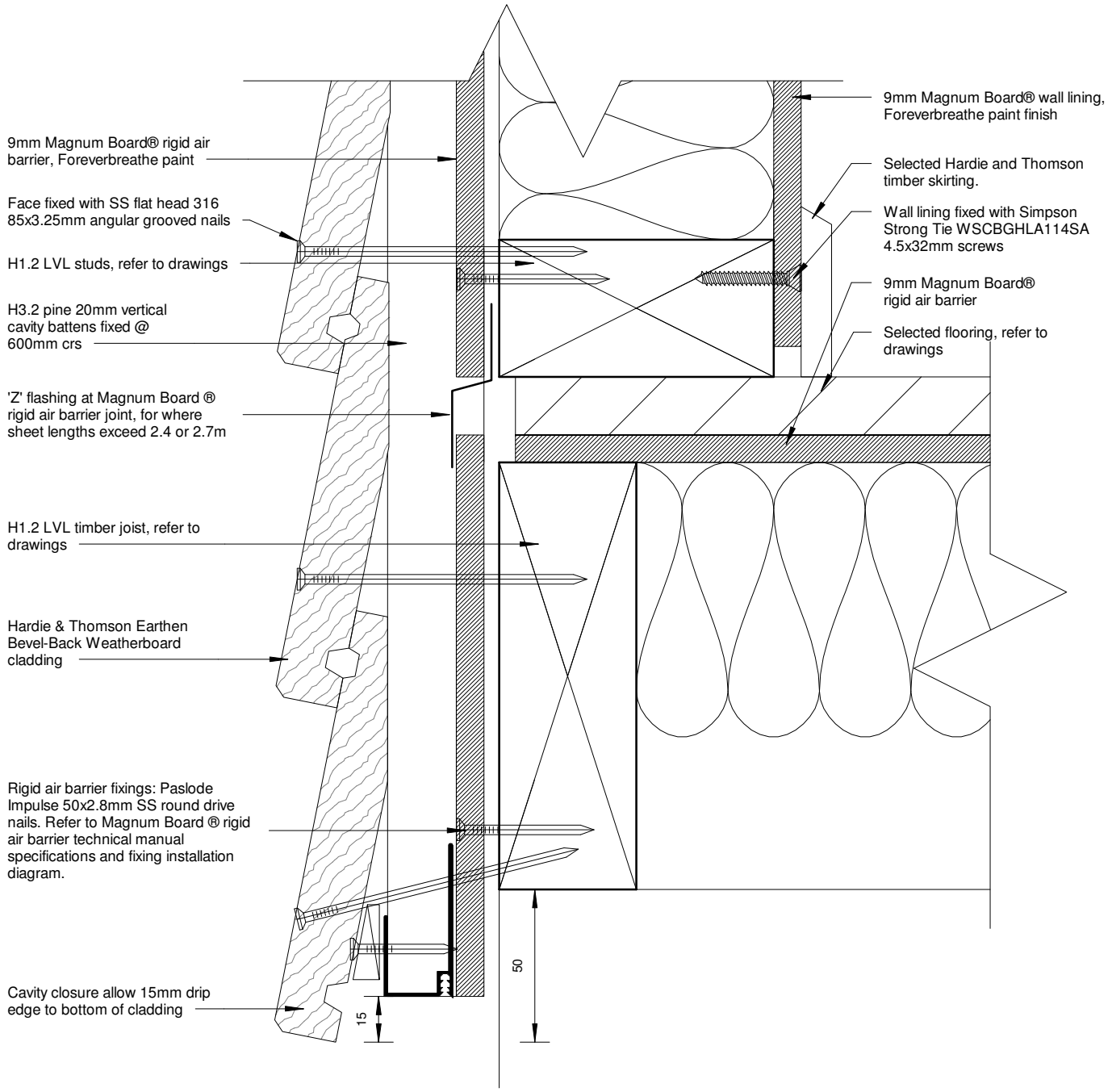

Timber Foundation Detail

1 : 2

0 10mm 50 100 150mm

06/06/2017 09:00:32

GRAPHIC SCALES

Hardie & Thomson Bevel-Back Weatherboard Details
Timber Foundation Detail

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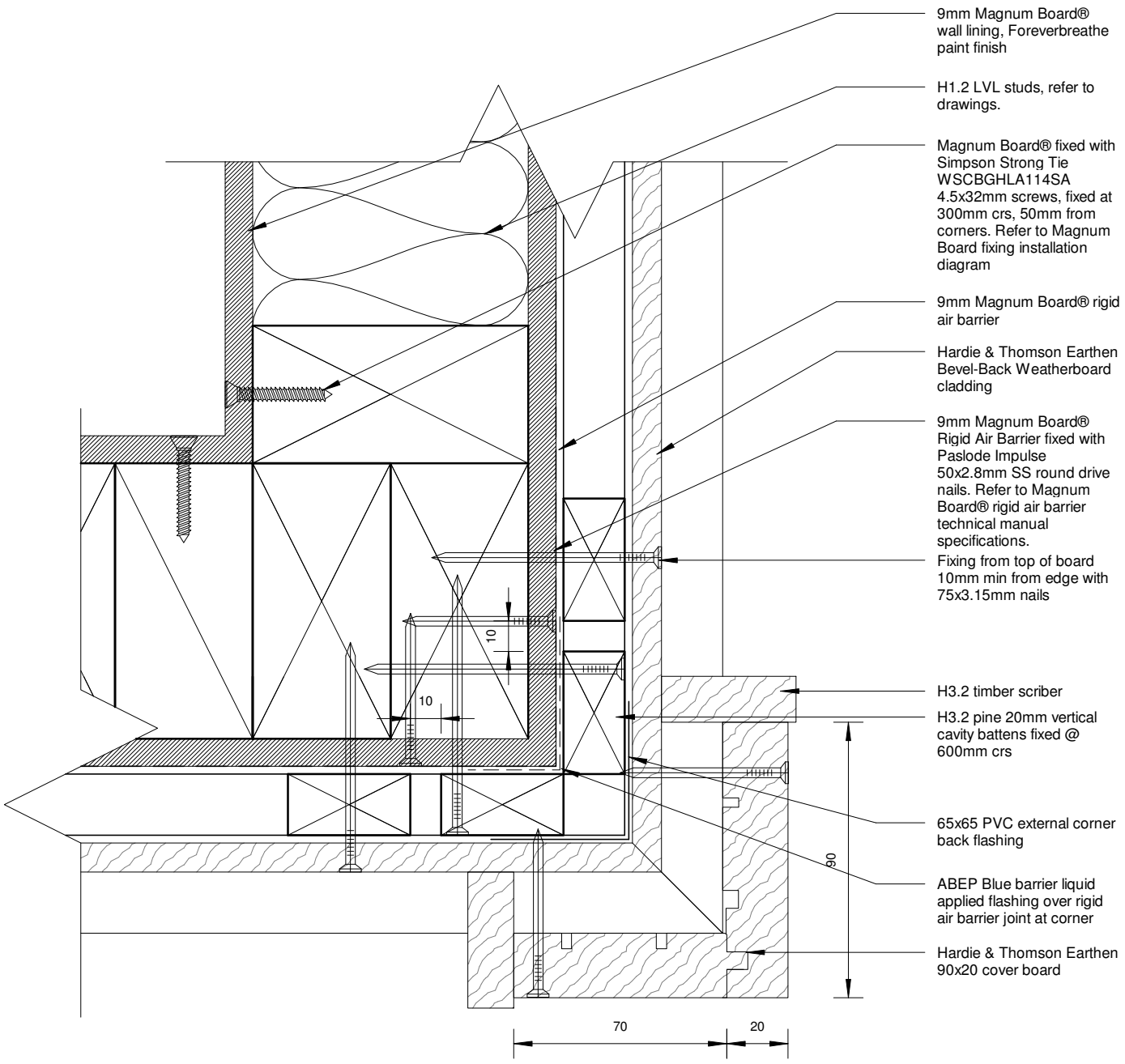

External Corner Detail

1 : 2

150mm 100 50 0 10mm

06/06/2017 09:00:32

3/14

Hardie & Thomson Bevel-Back Weatherboard Details
External Corner Detail

HEALTH BASED BUILDING™ natural selection

DESIGN ARCHITECTURE

GRAPHIC SCALES

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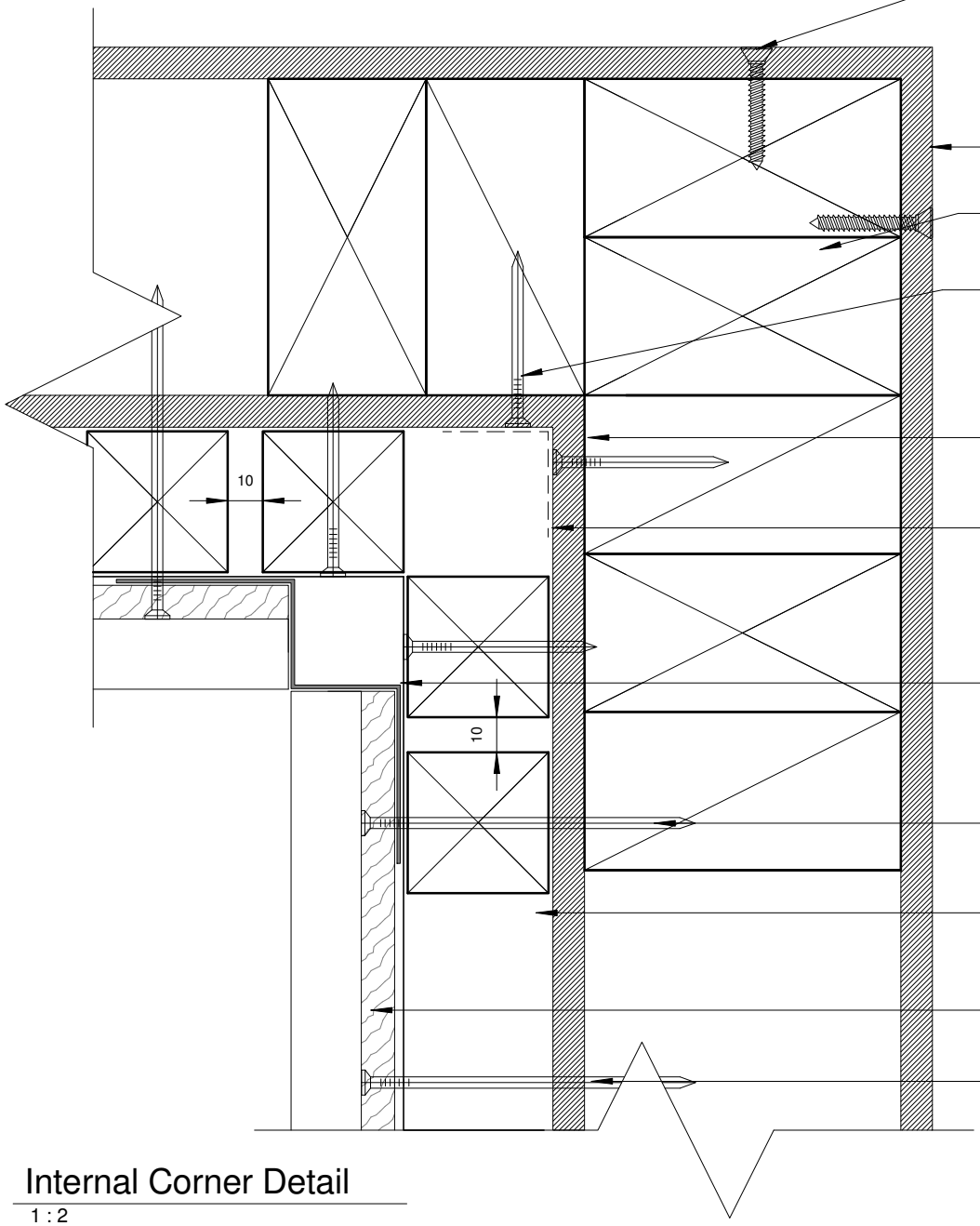

Magnum Board® fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws, fixed at 300mm crs, 50mm from corners. Refer to Magnum Board fixing installation diagram

9mm Magnum Board® wall lining, Foreverbreathe paint finish

H1.2 LVL studs, refer to drawings

Rigid Air Barrier fixed with Paslode Impulse 50x2.8mm SS round drive nails. Refer to Magnum Board ® rigid air barrier technical manual specifications.

9mm Magnum Board® rigid air barrier

ABEP Blue barrier liquid applied flashing over rigid air barrier joint at corner

Proprietary uPVC 90° internal corner 'W' mould flashing with hems

Fixing from top of board 10mm min from edge with 75x3.15mm nails

H3.2 pine 20mm vertical cavity battens fixed @ 600mm crs

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

Under lap fixed with SS flat head 316 75x3.25mm angular grooved nails

Internal Corner Detail

1 : 2

150mm
100
50
0 10mm

06/06/2017 09:00:32

GRAPHIC SCALES

4/14

Hardie & Thomson Bevel-Back Weatherboard Details
Internal Corner Detail

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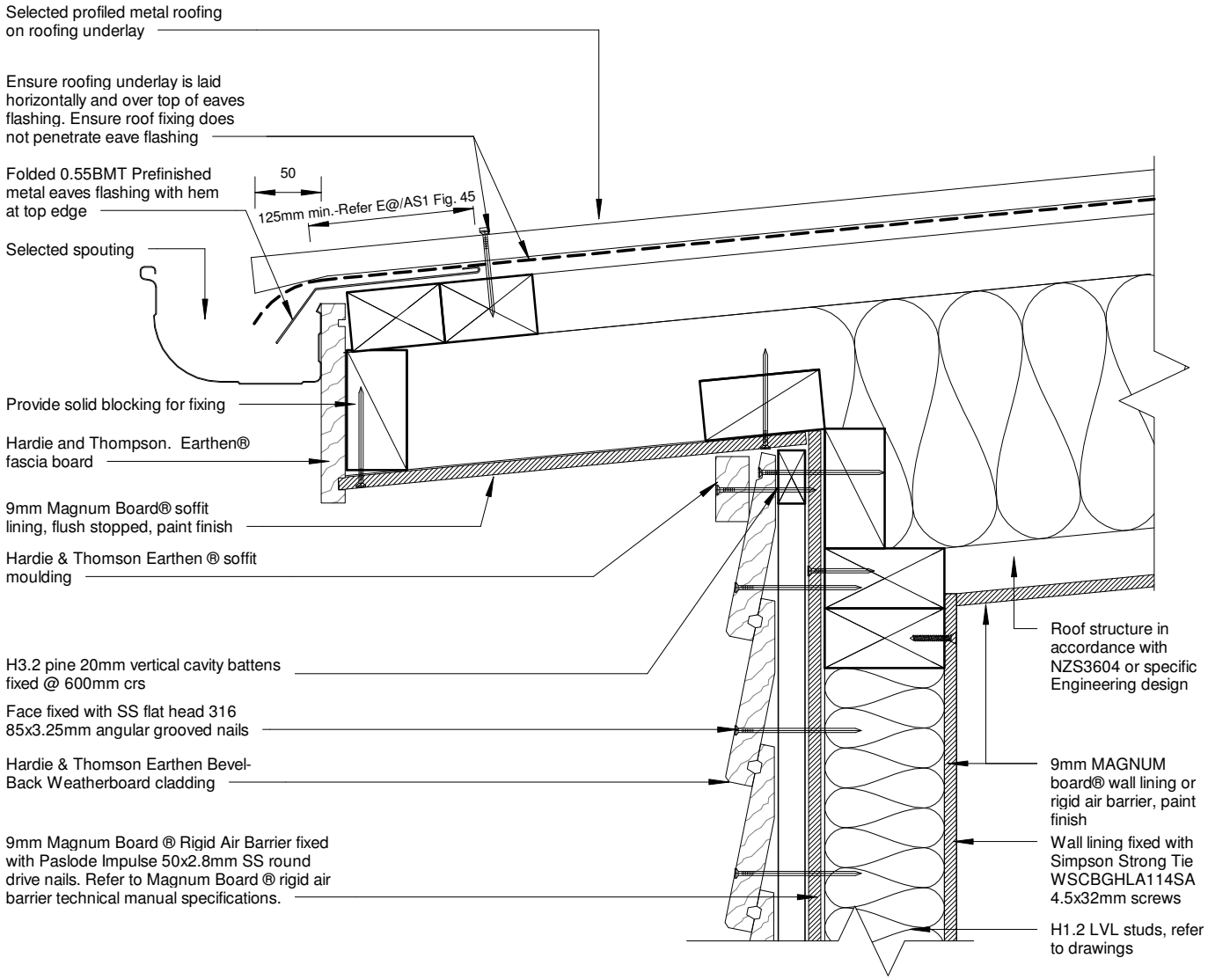

Note;
1. All Magnum Board®, ABEP® flashman® products to be installed by approved installers approved by NZSFP Ltd.
2. Where ABEP® blue barrier is in contact with biopin® paint, cemix acrylbond must be applied before application of biopin paint®.
3. Hardie & Thomson® Cover Boards and Scribers, Biopin Paint®, Terra Lana® Wool Insulation are supplied and installed by others.

Eave - Section Detail

1 : 5

150mm
100
50
0 10mm

06/06/2017 09:00:33

GRAPHIC SCALES

Hardie & Thomson Bevel-Back Weatherboard Details
Eave - Section Detail

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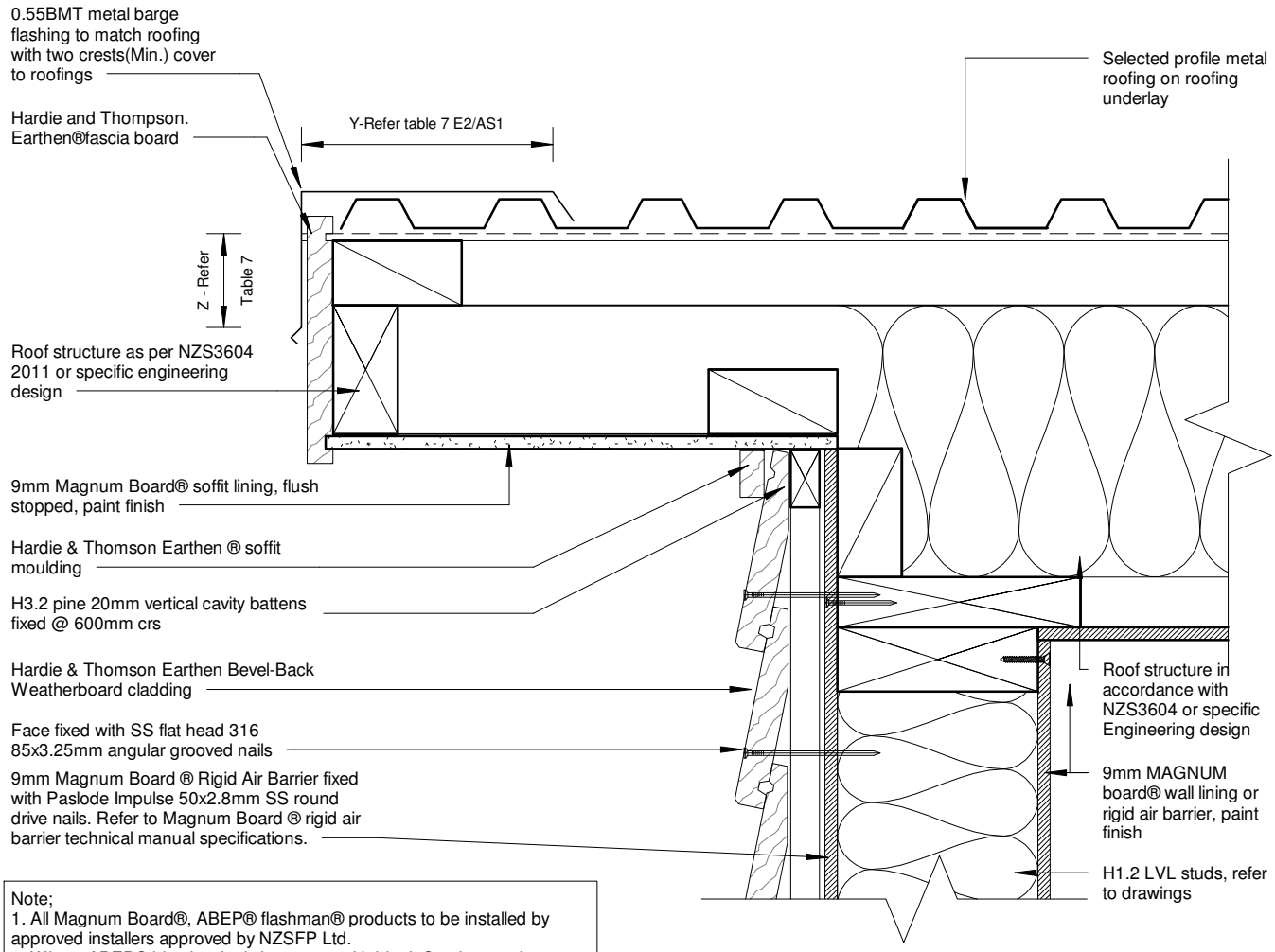

Note;
1. All Magnum Board®, ABEP® flashman® products to be installed by approved installers approved by NZSFP Ltd.
2. Where ABEP® blue barrier is in contact with biopin® paint, cemix acrylbond must be applied before application of biopin paint®.
3. Hardie & Thomson® Cover Boards and Scribers, Biopin Paint®, Terra Lana® Wool Insulation are supplied and installed by others.

Barge - Sectional Detail

1 : 5

Hardie & Thomson Bevel-Back Weatherboard Details
Barge - Section Detail

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150mm 100 50 0 10mm
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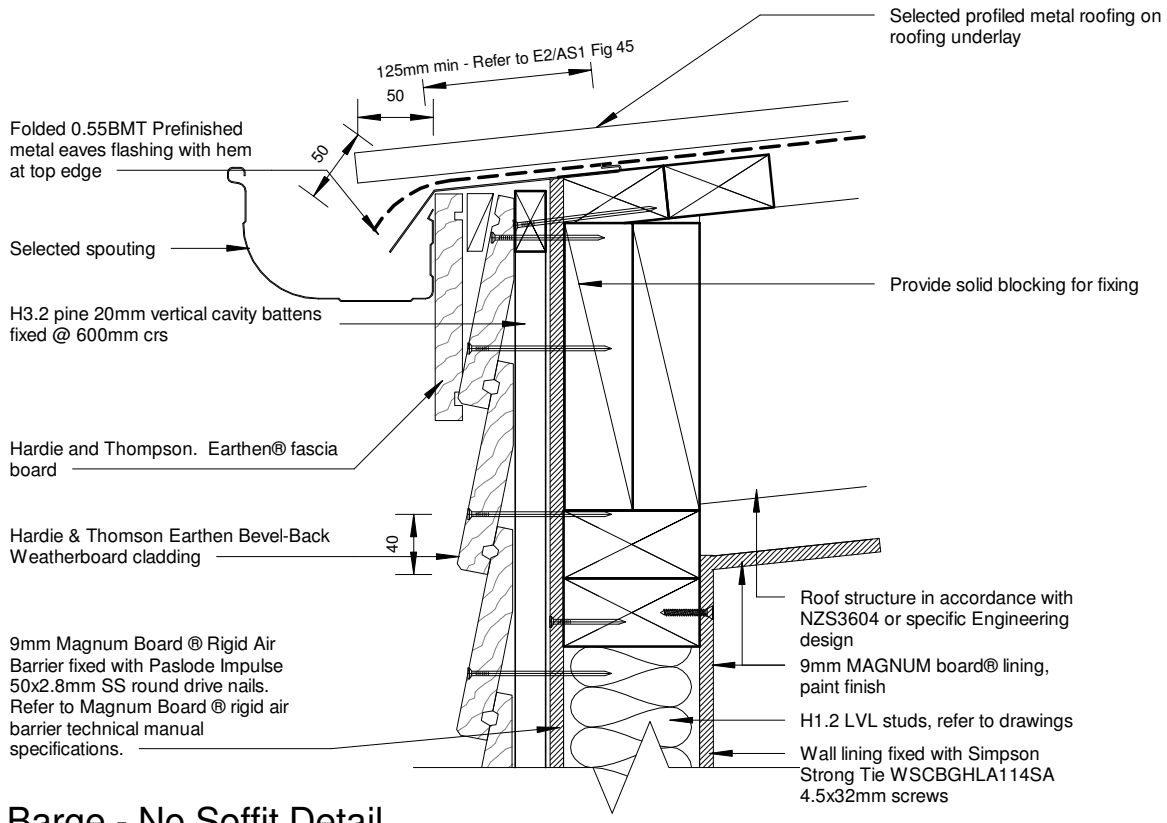
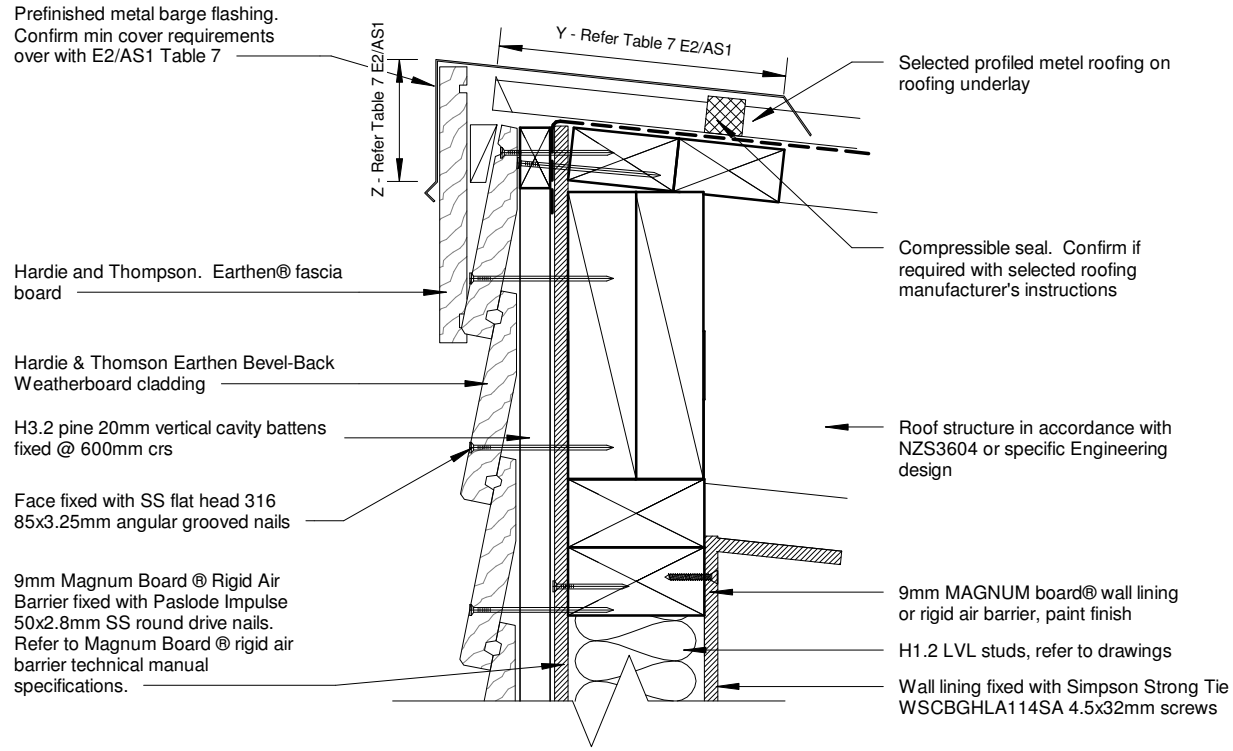
GRAPHIC SCALES



Barge - No Soffit Detail

1 : 5



Roof - Wall ridge - Section Detail

1 : 5

Hardie & Thomson Bevel-Back Weatherboard Details
Roof - Wall Ridge - Section Detail

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HEALTH BASED BUILDING™ natural selection
AP DESIGN ARCHITECTURE
GRAPHIC SCALES
150mm 100 50 0 10mm
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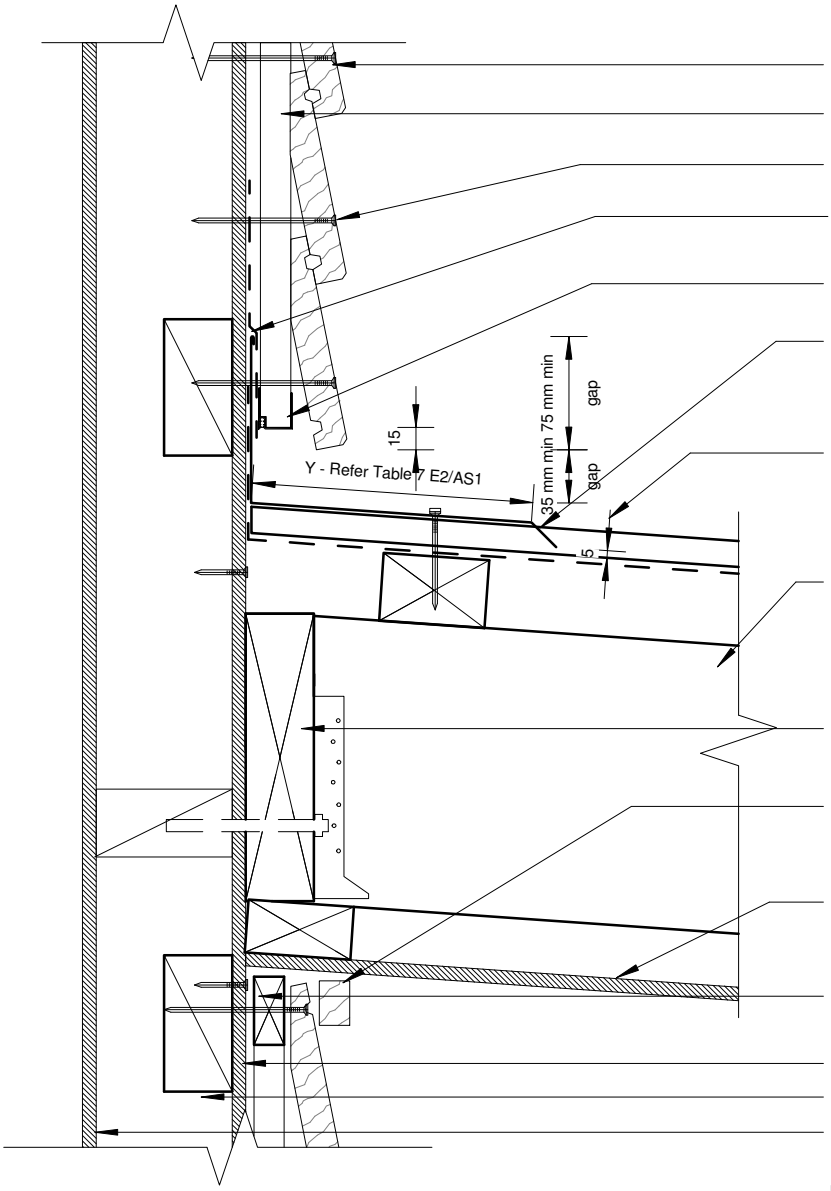

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

H3.2 pine 20mm vertical cavity battens fixed @ 600mm crs

Face fixed with SS flat head 316 85x3.25mm angular grooved nails

ABEP ® mulehide tape applied over top of apron flashing

Cavity closure allow 15mm drip edge to bottom of cladding

Prefinish metal apron flashing. 75mm Cover behind cladding. 35mm min. clearance between cladding and flashing. Refer to E2/AS1 Table 7 for cover over roofing

5mm max. Gap between flashing and roofing

Roof structure in accordance with NZS3504:2011 or specific engineer design

Timber stringer fixed to wall framing. Refer to NZS3604:2011

Hardie & Thompson Earthen® soffit moulding

9mm Magnum board® soffit lining. Flush stopped.

Prior to installation, pre coat back of batten with ABEP® Blue barrier liquid applied flashing

9mm Magnum Board® rigid air barrier

H1.2 LVL studs, refer to drawings

9mm MAGNUM board® wall lining or rigid air barrier, paint finish

Note: Where ABEP® Blue barrier ie in contact with Biopin ® paint, cemix acrylbond must be applied before application of Biopin Paint ®

Canopy Junction - Section Detail

1 : 5

150mm
100
50
0 10mm

06/06/2017 09:00:33

GRAPHIC SCALES

8/14

Hardie & Thomson Bevel-Back Weatherboard Details
Canopy Junction - Section Detail

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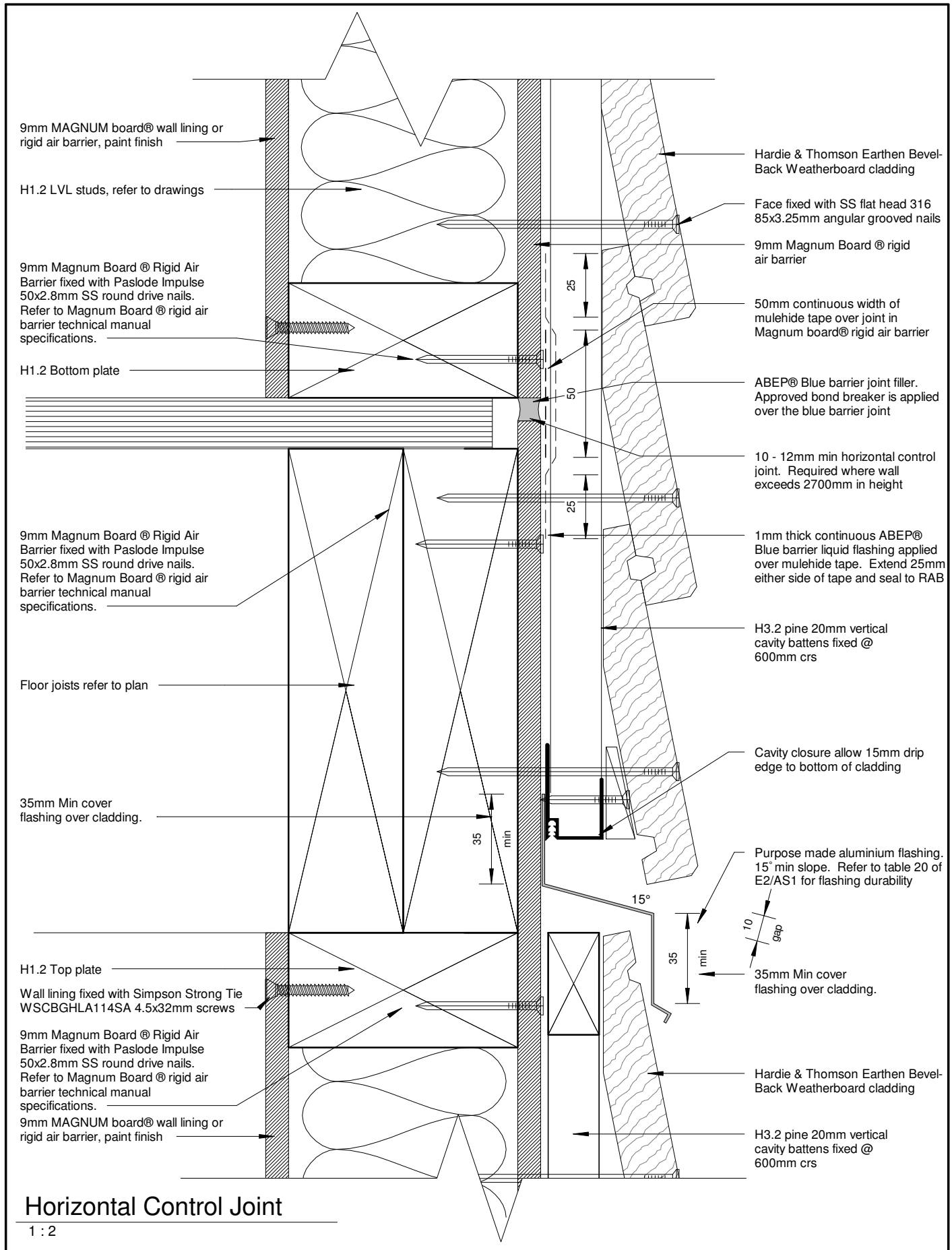

Horizontal Control Joint

1 : 2

9/14

Hardie & Thomson Bevel-Back Weatherboard Details
Horizontal Control Joint

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DESIGN ARCHITECTURE

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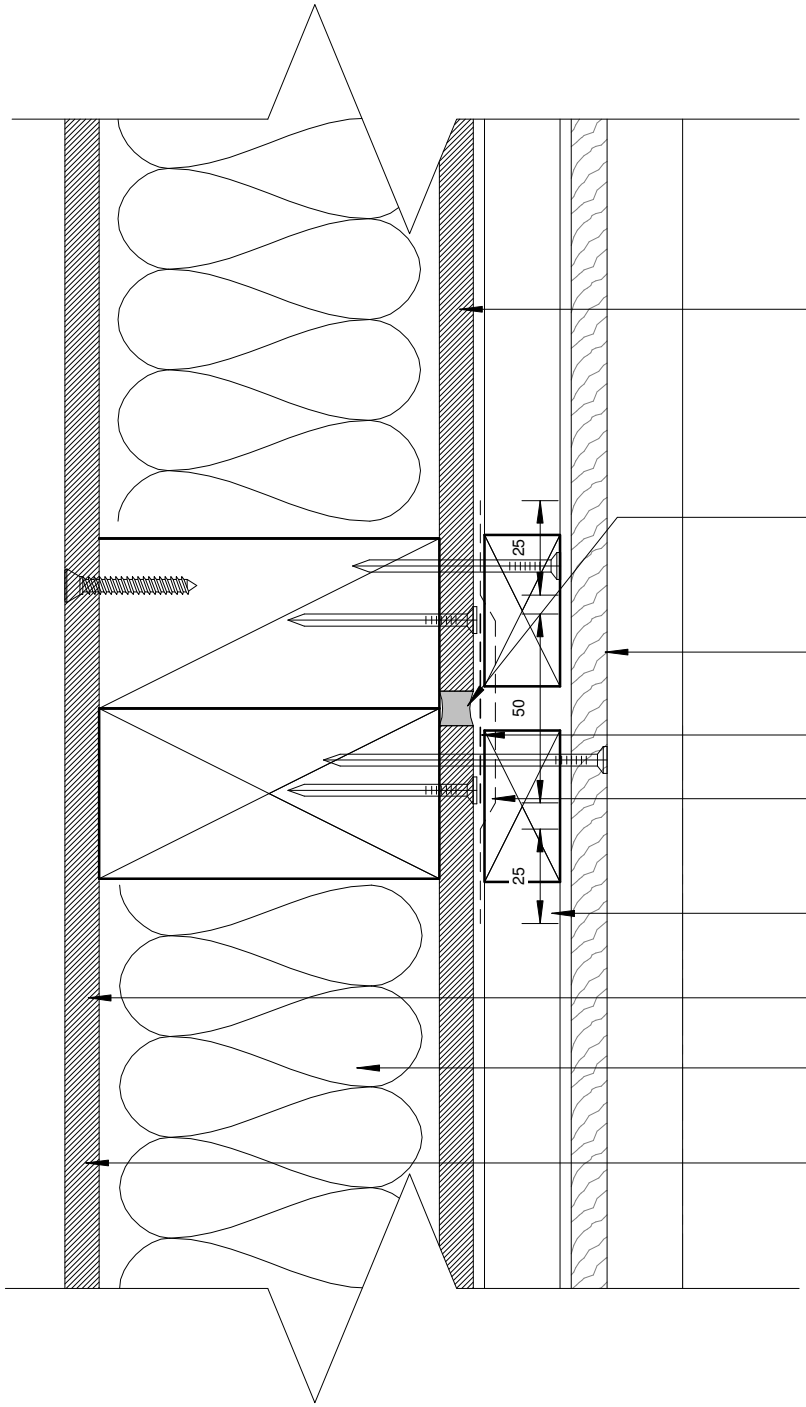

9mm Magnum Board ® Rigid Air Barrier fixed with Paslode Impulse 50x2.8mm SS round drive nails. Refer to Magnum Board ® rigid air barrier technical manual specifications.

10 - 12mm min vertical control joint. Required where wall exceeds 6m in length. Fill with ABEP BEP® Blue barrier joint filler continuous bead of sealant

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

50mm continuous width of mulehide tape over joint in Magnum RAB board

1mm thick continuous ABEP BEP® Blue barrier liquid flashing applied over mulehide tape. Extend 25mm either side of tape and seal to RAB

H3.2 pine 20mm vertical cavity battens fixed @ 600mm crs

9mm MAGNUM board® wall lining or rigid air barrier, paint finish

H1.2 LVL studs, refer to drawings

Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

Vertical Control Joint

1 : 2

150mm
100
50
0 10mm

06/06/2017 09:00:34

GRAPHIC SCALES

10/14

Hardie & Thomson Bevel-Back Weatherboard Details
Vertical Control Joint

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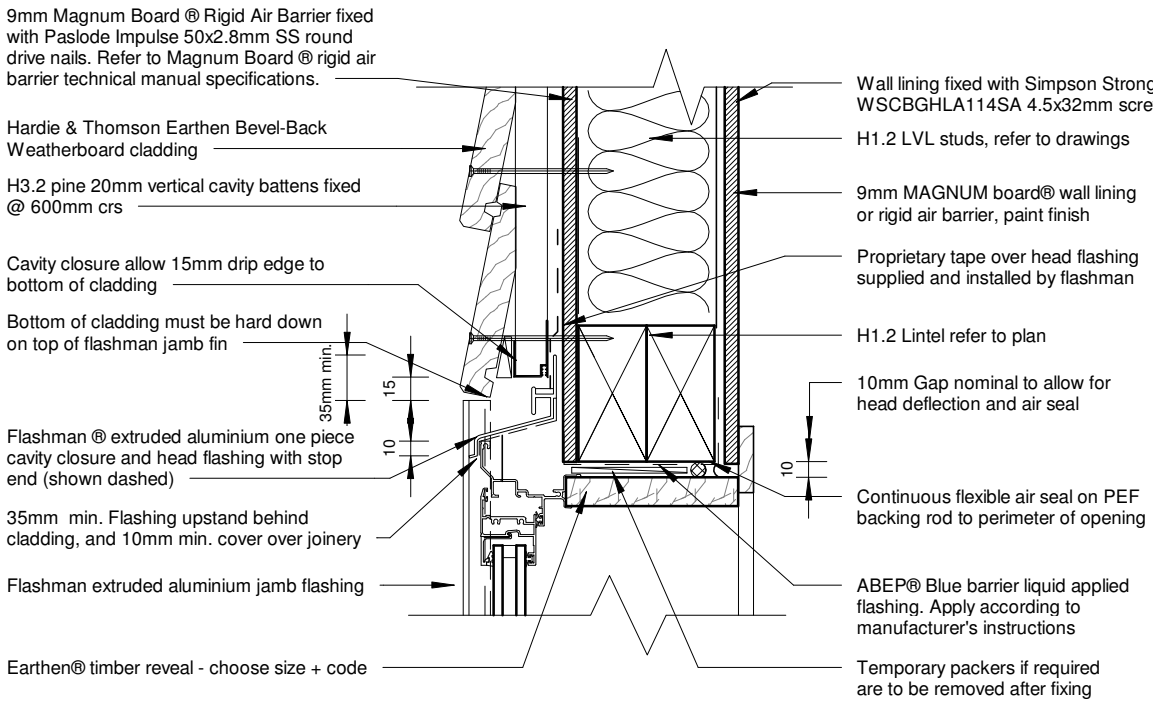
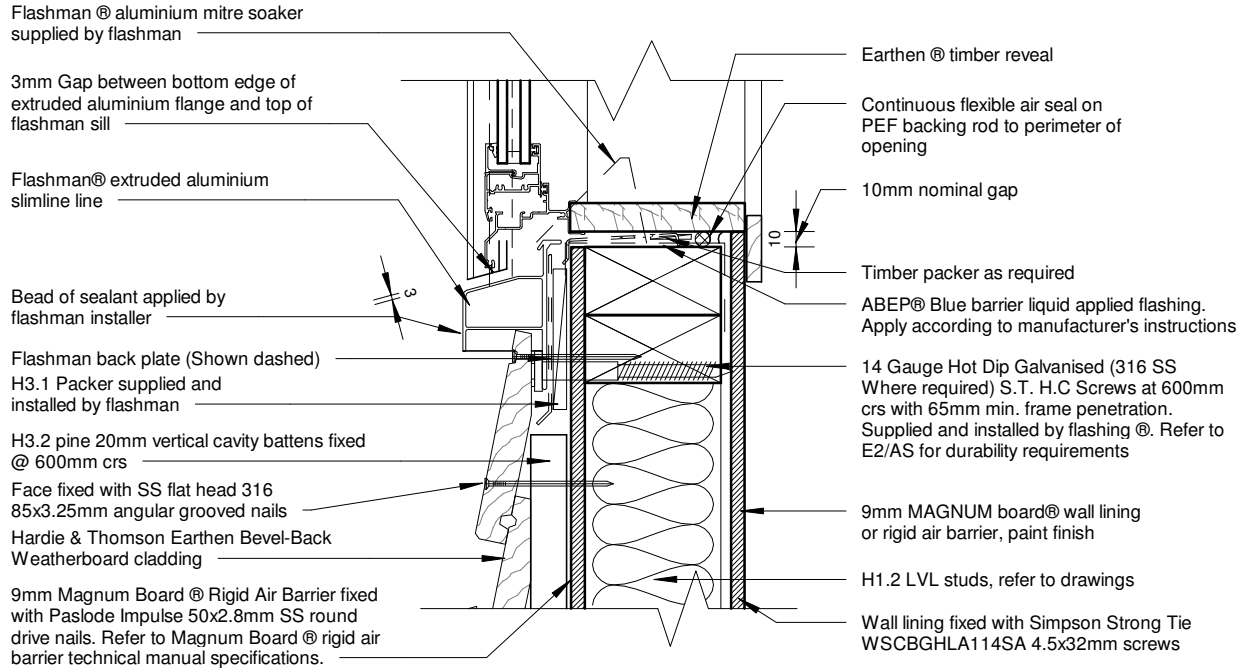


Typical Head Detail

1 : 5



Typical Sill Detail

1 : 5

Hardie & Thomson Bevel-Back Weatherboard Details
Typical Head and Sill Detail

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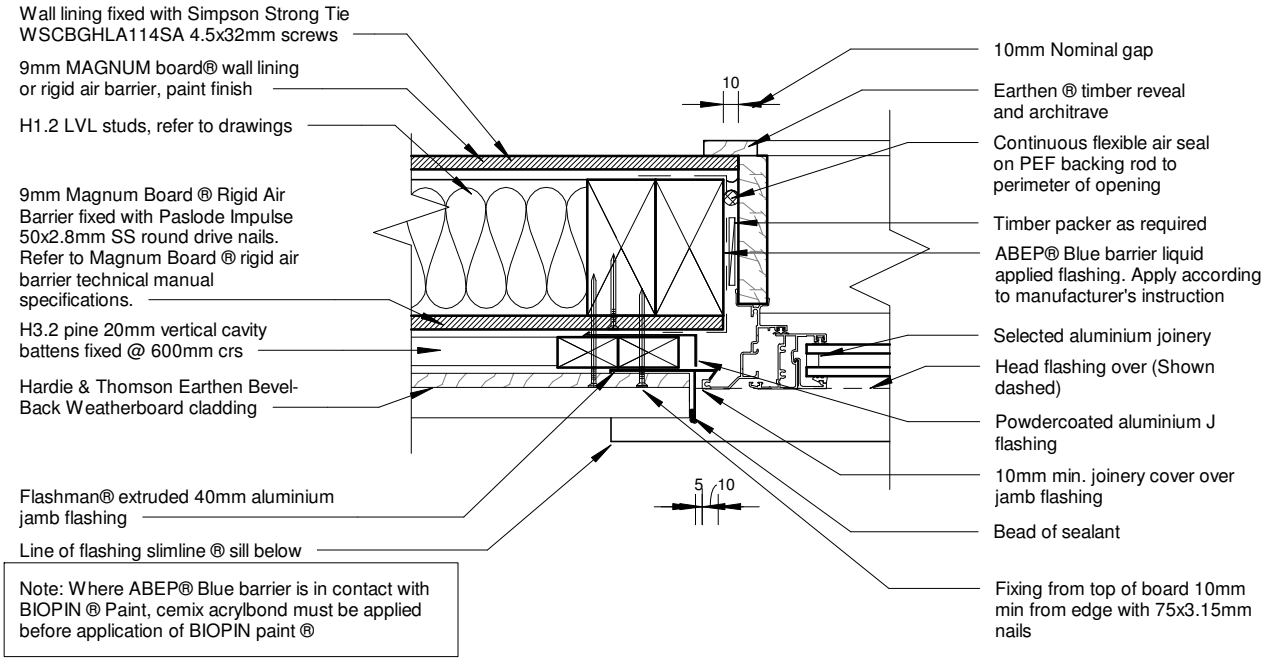
GRAPHIC SCALES
150mm
100
50
0 10mm
06/06/2017 09:00:34



Note: Where ABEP® Blue barrier is in contact with BIOPIN ® Paint, cemix acrylbond must be applied before application of BIOPIN paint ®

DO NOT FIX THROUGH JAMB FLASHING

Typical Jamb Detail

1 : 5

150mm
100
50
0 10mm

06/06/2017 09:00:35

GRAPHIC SCALES

12/14

Hardie & Thomson Bevel-Back Weatherboard Details
Typical Jamb Detail

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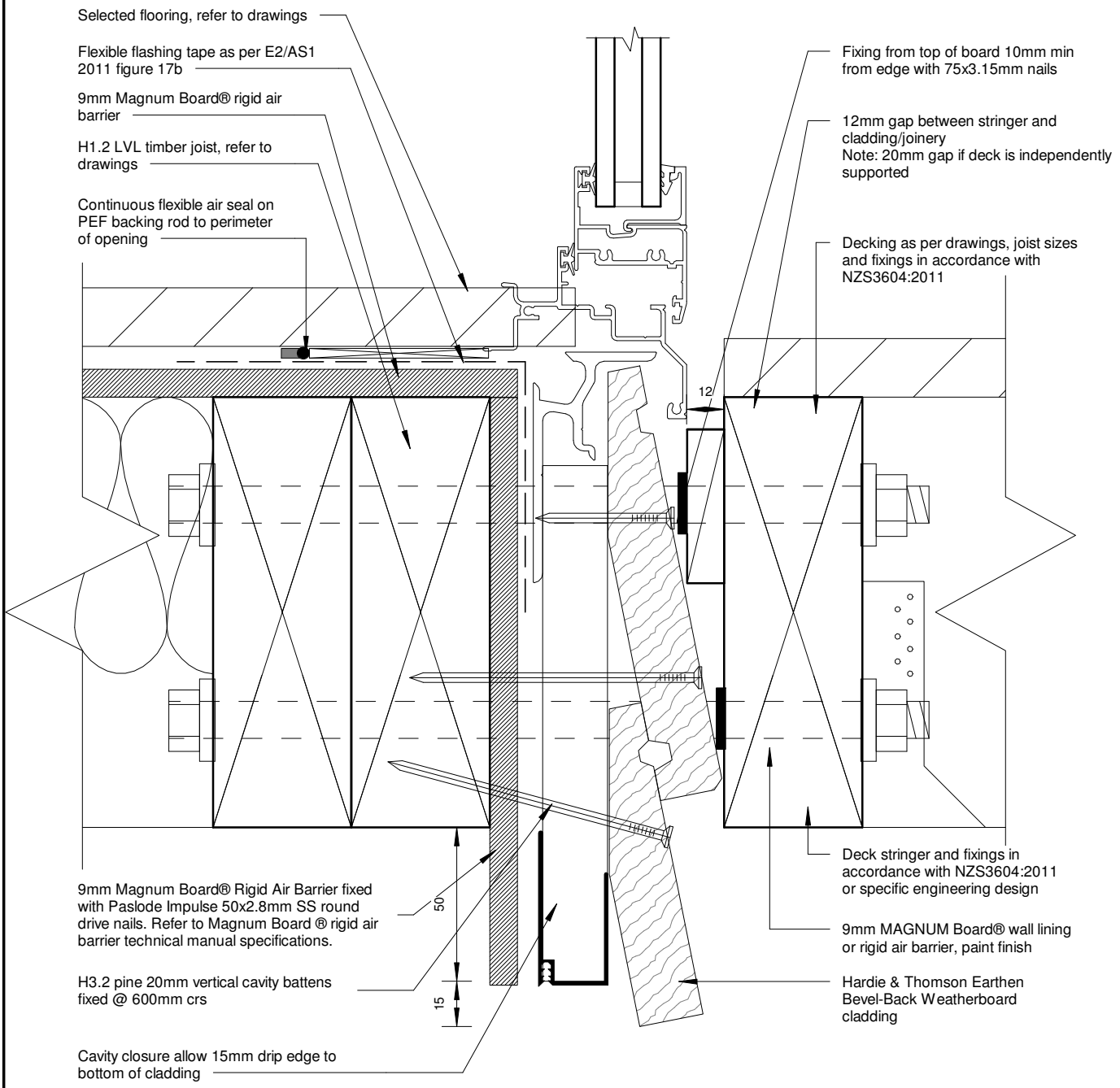

Deck Threshold Detail

1 : 2

150mm
100
50
0 10mm

06/06/2017 09:00:35

GRAPHIC SCALES

HEALTH BASED BUILDING™ natural selection

13/14

Hardie & Thomson Bevel-Back Weatherboard Details
Deck Threshold Detail

AD DESIGN ARCHITECTURE

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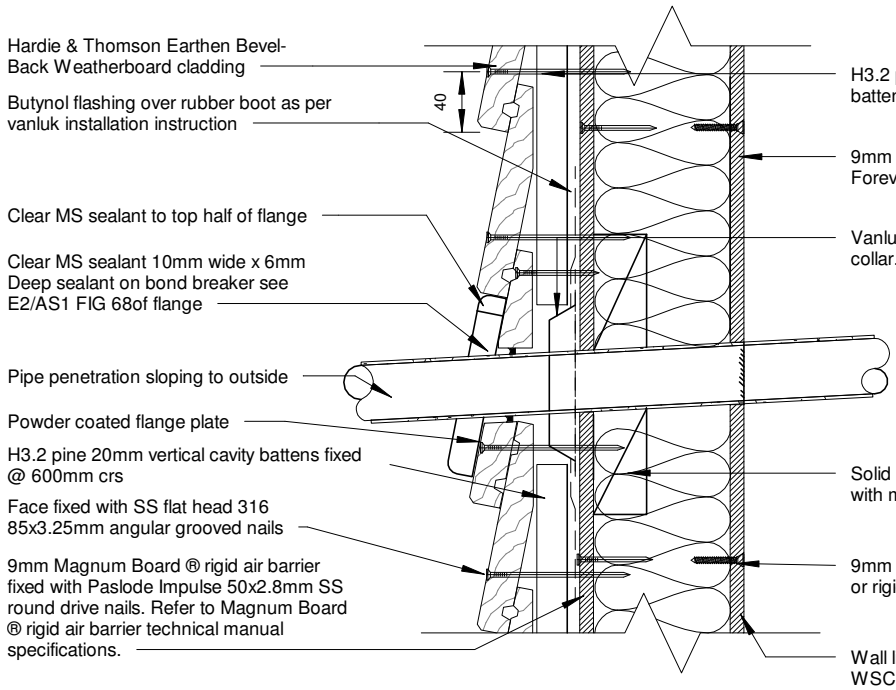
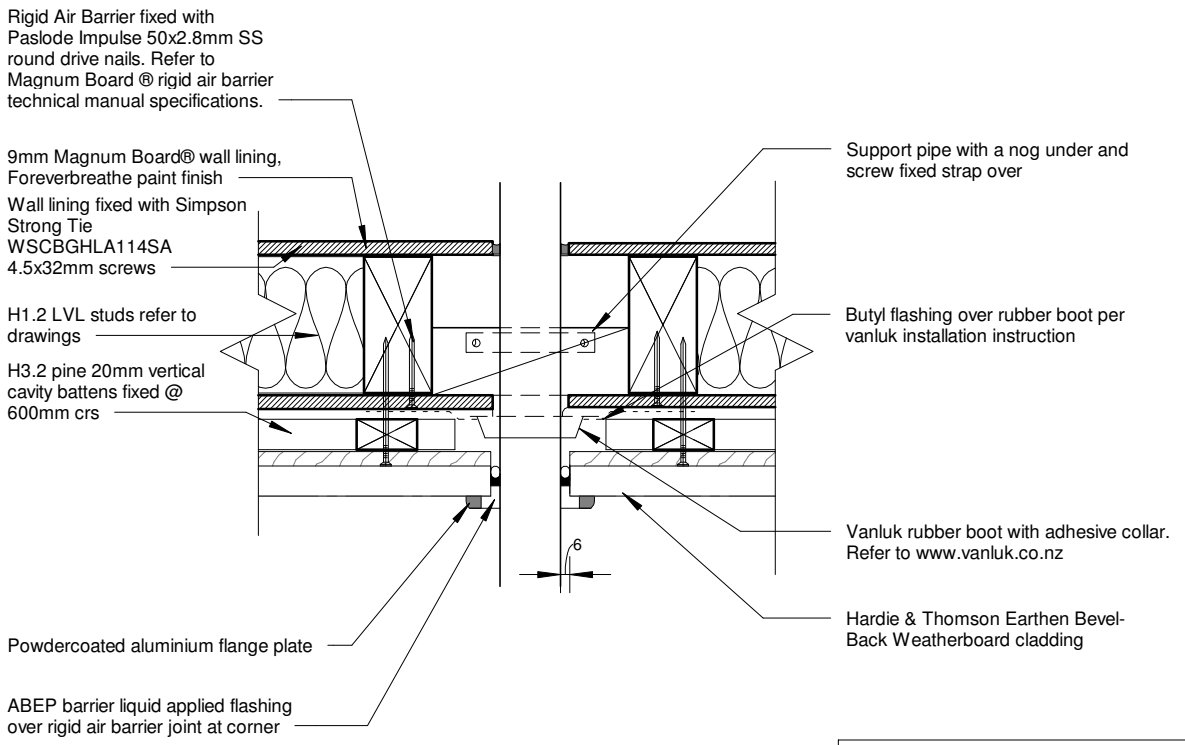


Note:
1. Where ABEP® Blue barrier is in contact with Biopin ® paint, cemix acrylbond must be applied before application of biopin paint ®

Pipe Penetration Section Detail

1 : 5



Note: Alternative option is to remove flange plate and provide clear sealant in place of ABEP Blue barrier joint filler

Pipe Penetration Plan Detail

1 : 5

Hardie & Thomson Bevel-Back Weatherboard Details
Pipe Penetration - Plan & Section Detail

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150mm 100 50 0 10mm
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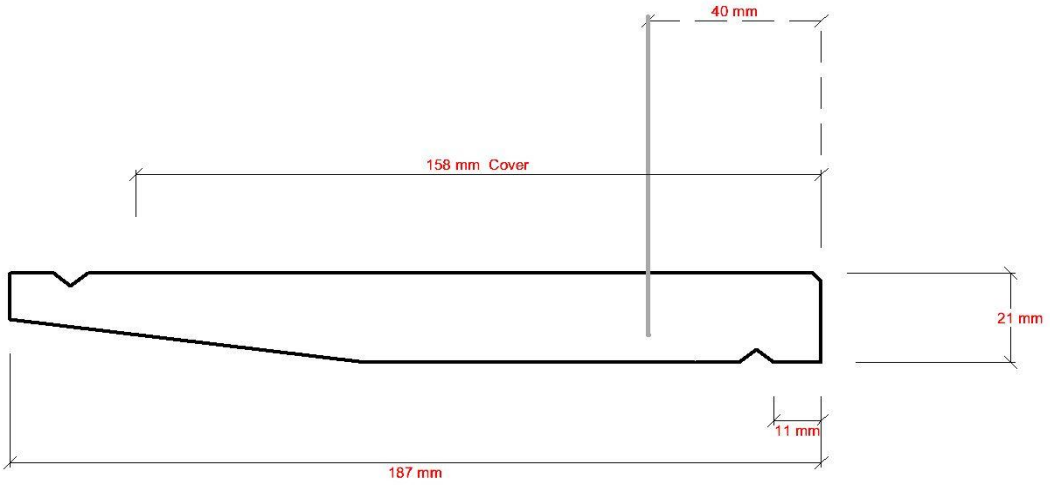
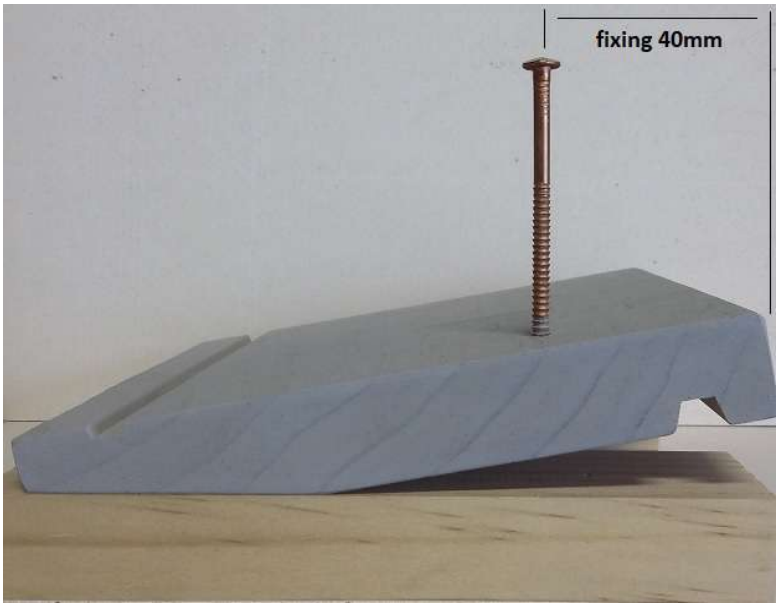
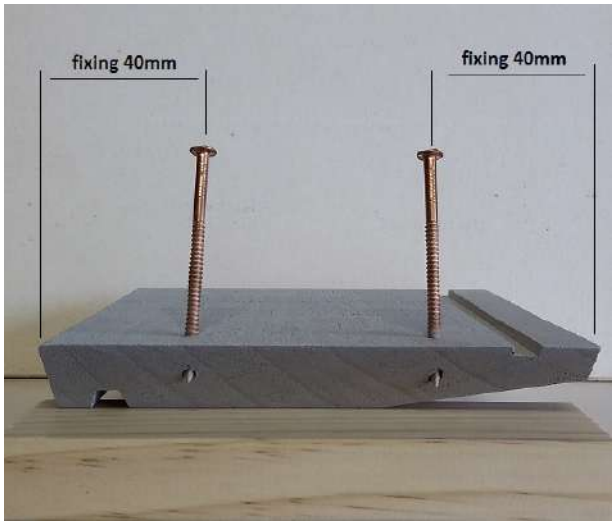
GRAPHIC SCALES

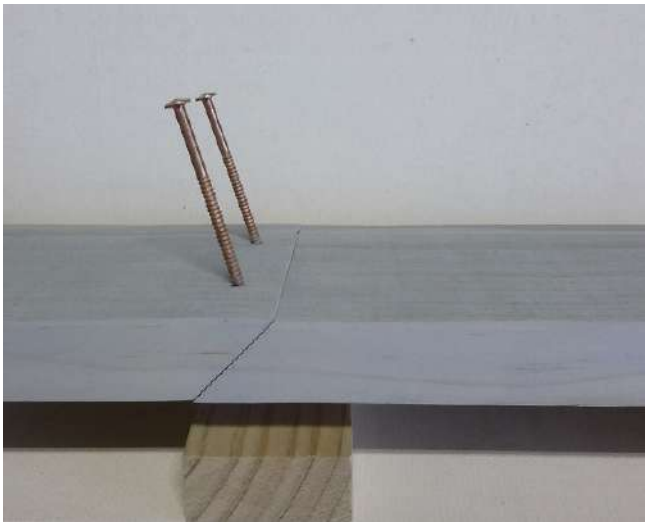
Nail fixing position and scarf joint

pre-bore using 3.264 drill size









Exterior Use Profiles Pre-primed & Unprimed Painting Guidelines

Important Notes

- Unprimed timber must be primed to all edges before installation. All edges includes cut ends or joints involved in preparation before installation.
- Primed timber does not provide protection from weather impacts. Failure to top coat outside of 30 days from installation will lead to impacts to performance such as distortion, expansion and contraction, splitting or cracking.
- Pre-primed and unprimed timber must be stored in a way to ensure timber remains straight and true and away from weather impacts up until the time of installation.
- Where acrylic paint is to be applied colors must have an LRV45 rating or higher. Darker colors can establish resin bleed, distortion and splitting and cracking.
- Where acrylic paint is to be applied as a primer or top coat refer suppliers instructions for timber preparation and coating.
- Where Foreverbreathe Weather Protection Paint is be applied use a good quality suitably sized paint brush. Refer product listing https://www.healthbasedbuilding.com/coatings/paint/foreverbreathe-weather-protection-paint?gn=Paint&gp=22

S A F E T Y D A T A S H E E T
according to EC Guideline 1907 / 2006

1. Identification of the Substance /Preparation / Name of Company/Undertaking

Trade Name:	***bio pin* / Weather / Weather Protection Paint**
Article No.:	38.
Use:	Solventfree for exterior use
Address of manufacturer/supplier	
Manufacturer:	bio pin Vertriebs GmbH
Street :	Linumweg 1-8
Post code/town:	D - 26441 Jever
Telephone:	0049 4461/7575-0
Mail :	info@biopin.de
Contact for technical information:	Phone 0049 4461 / 7575 14

2. Possible dangers

No dangerous Substance under Chemical Law
and not subject to classification and labeling according to Directive EG Nr. 1272/2008, CLP

3. Composition / information on ingredients

Chemical characterization: polymer of natural oils, fats and resins

Film treaters: 3-iodine-2-propynyl butylcarbamate (max. 0.2%)
and 2-octyl-2H-isothiazol-3-one (<0.01%)

Hazardous Ingredients:
Substance Name:
Cas-No.:
Concentration:
Symb.:
R-phrases:

4. First aid measures

After inhalation:	Provide fresh air
Eye Contact:	Thoroughly rinse with plenty of water.
Skin contact:	Thoroughly wash.
Ingestion:	Rinse mouth and then drink plenty of water. Do not induce vomiting, immediately consult a doctor.

5. Fire-fighting measures

Extinguishing media: Foam, CO_2 and dry chemical, sand.

Unsuitable extinguishing media

6. Accidental release measures

Personal precautions:	Skin and eye contact!
Environmental precautions:	Not in water, sewerage and ground water!
Methods for cleaning up:	Discontinued Products with non-flammable Absorption medium (sand) absorb and waste disposal rules!

7. Handling and Storage

Advice on safe handling:	With this product soaked cloth to dry sufficiently (Danger of spontaneous combustion).
Requirements for storage rooms and containers:	Cool but frost-free
Zusammenlagerungshinweise :	

8. Exposure controls and personal protective equipment

Technical protection measures:	No special measures required
Personal Protection:	
Hand protection:	
Eye Protection:	
General protective and hygienic measures:	

9. Physical and chemical properties

General information	
Color:	liquid - milky hue - in various colors
Odor:	Typical type, mild
pH:	about 7,5
Melting point:	Not specified
Boiling range:	Not specified
Flash Point:	Not specified
Explosion limits:	Not specified
Ignition temperature:	Not specified
Vapor pressure at 20°C:	< 1 mbar
Density at 20°C:	About. 0,98 – 1,02 g/ml depending on color
Viscosity at 20°C:	about. 20 sec. 4mm DIN- Cup
Solubility in water at 20°C:	soluble
Solubility in solvents at 20 ° C:	Not specified

10. Stability and Reactivity

Stability:	No information
Conditions to avoid:	
Materials to avoid:	
Hazardous Decomposition Products:	

11. Toxicological

Acute toxicity:	None known
Skin irritation**:**	
Skin sensitization:	
Eye irritation:	
Ingestion:	
Inhalation:	
After Skin contact:	
After Eye contact:	
Mutagenicity	

12. Ecological Information

Basis of the assessment:	Penetration into soil, sewerage and water to prevent. When water leakage in the chemical (CSB) and biological (BSB) Oxygen demand increases. The assessment is based on general information on vegetable oils.
Water hazard class:	class 1

13. Disposal

Waste Disposal:	
Hazardous waste incineration:	Incineration in appropriate facilities
Cured paint:	disposed of as household waste
Waste code number:	EAK-Code 080111 or 200127
Recommendation:	

14. Transport information Not dangerous goods under transport regulations

Land Transport ADR / RID

Class:	
Packaging group:	
UN - No.:	
Classification Code:	
Risk Indicator No.:	
Risk Label:	
In the transport document:	

Maritime IMDG-Code

Class:	
Packaging group:	
UN - No.:	
Marine Pollutant	
EMS - No.	
Risk indicator:	
Additional features:	

Air transport
ICAO-TI and IATA-DGR

Class:	
Packaging group:	
UN - No.:	
Proper shipping name:	

15. Rules The product is under the Hazardous Substances Regulation and in accordance with the EC directives are not labeled

Rules	
Danger symbol:	
Designation on the label:	
R-Phrases:	
S-Phrases:	
National regulations:	
ChemVOCFarbV:	EU limit for VOC e/Wb = 130g/l. from 2010. This product contains a maximum of 1g/l
VOC- Guidelines (Switzerland)	----

16. Other information

The data reflect the present state of our knowledge and experiences. The safety data sheet describes our products with regard to safety requirements, they are not to property descriptions and quality assurances.

SAFETY DATA SHEET

Product Name **MICROPRO COPPER BASED TIMBER PRESERVATIVE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier name	**KOPPERS PERFORMANCE CHEMICALS AUSTRALIA PTY LTD**
Address	Cafpirco Road, Mount Gambier, SA, 5290, AUSTRALIA
Telephone	(08) 8723 1399
Fax	(08) 8723 0010
Emergency	1800 088 809
Email	kpc.admin@koppers.com.au
Web site	www.kopperspc.com.au
Synonym(s)	MICROPRO 200C • MICROPRO COPPER BASED TIMBER PRESERVATIVE
Use(s)	INDUSTRIAL APPLICATIONS • TIMBER PRESERVATIVE
SDS date	12 December 2014

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Risk Phrases

R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.

Safety Phrases

S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36	Wear suitable protective clothing.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number	3082	**Transport Hazard Class**	9
Packing Group	III	**Hazchem Code**	2X

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EC Number	Content
SODIUM NITRITE	7632-00-0	231-555-9	2%
COPPER (II) CARBONATE HYDROXIDE	12069-69-1	235-113-6	57.6%
DISPERSANT(S)	-	-	7 to 10%
WATER	7732-18-5	231-791-2	Remainder

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

Advice to doctor Treat symptomatically.

First aid facilities Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases if strongly heated.

Fire and explosion No fire or explosion hazard exists.

Extinguishing Use an extinguishing agent suitable for the surrounding fire.

Hazchem code 2X

2 Fine Water Spray.

X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

Environmental precautions Prevent product from entering drains and waterways.

Methods of cleaning up Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

References See Sections 8 and 13 for exposure controls and disposal.

7. STORAGE AND HANDLING

Storage Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Copper, dusts & mists (as Cu)	SWA (AUS)	--	1	--	--

Biological limits No biological limit allocated.

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

Eye / Face Wear splash-proof goggles.

Hands Wear PVC or rubber gloves.

Body When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory Where an inhalation risk exists, wear a Type B (Inorganic gases and vapours) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	OPAQUE LIGHT GREEN LIQUID
Odour	LATEX PAINT LIKE ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	9.21
Vapour density	NOT AVAILABLE
Specific gravity	1.76
Solubility (water)	INSOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE
% Volatiles	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended conditions of storage.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to avoid	Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid). Also incompatible with reducing agents (e.g. sulphites), sodium hypobromite, acetylene, hydrazine and nitromethane.
Hazardous Decomposition Products	May evolve toxic gases if heated to decomposition.
Hazardous Reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Harmful - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure may result in liver, kidney and blood damage.
Eye	Irritant. Contact may result in irritation, lacrimation, pain and redness.
Inhalation	Irritant. Over exposure to vapours may result in respiratory irritation, nausea, dizziness and headache. Low vapour pressure may reduce the likelihood of inhalation.
Skin	Irritant. Contact may result in irritation, redness, rash and dermatitis.
Ingestion	Harmful. Ingestion may result in nausea, vomiting, abdominal pain and diarrhoea. Chronic exposure may result in liver, kidney and blood damage.
Toxicity data	SODIUM NITRITE (7632-00-0) LC50 (inhalation) 5.5 mg/m³/4 hours (rat) LD50 (ingestion) 85 mg/kg (rat) COPPER (II) CARBONATE HYDROXIDE (12069-69-1) LD50 (ingestion) 159 mg/mg (rabbit) LDLo (ingestion) 900 mg/kg (duck)

12. ECOLOGICAL INFORMATION

Toxicity	No information provided.
Persistence and degradability	No information provided.
Bioaccumulative potential	No information provided.
Mobility in soil	No information provided.

Other adverse effects Soluble copper compounds are highly toxic to aquatic and plant life. Insoluble copper compounds are significantly less environmentally hazardous. Positive potential for food chain accumulation.

13. DISPOSAL CONSIDERATIONS

Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	3082	3082	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport Hazard Class	9	9	9
Packing Group	III	III	III

Environmental hazards No information provided

Special precautions for user

Hazchem code 2X

GTEPG 9C1

EMS F-A, S-F

15. REGULATORY INFORMATION

Poison schedule Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Inventory Listing(s) **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**
All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m³	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

Revision history

Revision	Description
2.1	Standard SDS Review
2.0	Standard SDS Review
1.0	Initial SDS creation

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Revision: 2.1
SDS Date: 12 December 2014

End of SDS

Safety Data Sheet

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: 839-LINE DULUX SOLVENT BASED ALKYD MACHINE PRIMER

Synonyms	Product Code	Bar Code
Dulux Solvent Based Alkyd Machine Primer 10B17	83956857-B	
Dulux Solvent Based Alkyd Machine Primer Beige	83997654-B	
Dulux Solvent Based Alkyd Machine Primer Desert Tan	83997651-B	
Dulux Solvent Based Alkyd Machine Primer Hardies Green	839G0081-B	
Dulux Solvent Based Alkyd Machine Primer KeriKeri White	83997652-B	
Dulux Solvent Based Alkyd Machine Primer Moteuka Green	839G0062-B	
Dulux Solvent Based Alkyd Machine Primer Otorohunga Grey	83997535-B	
Dulux Solvent Based Alkyd Machine Primer Satin White	839G0012-B	
Dulux Solvent Based Alkyd Machine Primer TF Grey	83997657-B	
Dulux Solvent Based Alkyd Machine Primer White VN	839B0013-B	

Recommended use: Factory applied timber machine primer. Applied by brush, roller or spray.

Supplier: Dulux New Zealand, a division of DuluxGroup (New Zealand) Pty Ltd
Company No.: 55 133 404 118 / Co. 2355191
Street Address: 150 Hutt Park Road
Lower Hutt
New Zealand
Telephone: 0800 800 424

Emergency Telephone number: **Australia – 1800 033 111** **New Zealand – 0800 734 607**

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of EPA New Zealand.

EPA Group Standard: HSR002669 - Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard

Signal Word
Danger

Hazard Classifications
3.1C - Flammable liquids
6.1E - Substances that are acutely toxic - Aspiration hazard (H304)
6.3A - Substances that are irritating to the skin
6.5B - Substances that are contact sensitisers
6.7B - Substances that are suspected human carcinogens
6.8B - Substances that are suspected human reproductive or developmental toxicants
6.9B (Single exposure) - Substances that are harmful to human target organs or systems - Narcotic
9.1B - Substances that are ecotoxic in the aquatic environment (H411)

Hazard Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer .
H361	Suspected of damaging fertility or the unborn child .
H411	Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust, fume, gas, mist, vapours or spray..
P264	Wash hands, face and all exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.

Storage Precautionary Statements

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

DANGEROUS GOOD CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Dangerous Goods Class: 3

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	10-30 % (w/w)
Xylene	1330-20-7	1-10 % (w/w)
Ethyl benzene	100-41-4	<1 % (w/w)
Hexanoic acid, 2-ethyl-, zirconium salt	22464-99-9	<1 % (w/w)
Methyl ethyl ketoxime	96-29-7	<1 % (w/w)
Naphthalene	91-20-3	<0.1 % (w/w)
Ingredients determined to be Non-Hazardous		Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.

PPE for First Aiders: Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Hazchem Code: •3Y

Suitable extinguishing media: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open

flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS
If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 14

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and/or the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Ethyl benzene	100	434	125	543	
Naphthalene	10	52	15	79	
Xylene (o-, m-, p-isomers) (Dimethylbenzene)	50	217			

As published by WorkSafe New Zealand.

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne concentration of a substance calculated over an eight-hour working day.

WES-Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded at any time during any part of the working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.

Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous Liquid
Colour:	Various
Odour:	Solvent

Solubility:	Insoluble in water. Soluble in organic solvents.
Specific Gravity:	1.0 - 1.4
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	>23
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	N Av
pH:	N Av

Viscosity:	>21 mm²/sec @ 40 °C
Total VOC (g/Litre):	N Av

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

Eye contact: May be an eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 5,000 ppm gas

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as a 6.3A - Substances that are irritating to the skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified 6.5B - Substances that are contact sensitisers.

Aspiration hazard: This material has been classified as a 6.1E - Substances that are acutely toxic - Aspiration

hazard.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as a 6.7B - Substances that are suspected human carcinogens.

Reproductive toxicity (including via lactation):

This material has been classified as a 6.8B - Substances that are suspected human reproductive or developmental toxicants.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as a 9.1B - Substances that are ecotoxic in the aquatic environment. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF ≥ 500 and/or log K_{ow} ≥ 4.

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial vertebrates: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

UN No:	1263
Dangerous Goods Class:	3
Packing Group:	III
Hazchem Code:	•3Y
Emergency Response Guide No:	14
Proper Shipping Name:	PAINT

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.

MARINE TRANSPORT
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No:	1263
Dangerous Goods Class:	3
Packing Group:	III
Proper Shipping Name:	PAINT

AIR TRANSPORT
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No:	1263
Dangerous Goods Class:	3
Packing Group:	III
Proper Shipping Name:	PAINT

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:
Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

- All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

EPA Group Standard: HSR002669 - Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard

Approved handler	Yes
Location test certificate	Yes
Fire extinguishers	Yes
Signage	Yes
Emergency response	Yes
Hazardous atmosphere zone	Yes

16. OTHER INFORMATION

Reason for issue: Revised

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DuluxGroup (Australia) Pty Ltd and DuluxGroup (New Zealand) Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

STORAGE AND HANDLING

Earthen

&

foreverbeech™

As the timber is kiln dried, care must be taken to make sure the product remains dry at all times before installation.

Timber must be stored on a well-ventilated level surface, on bearers at least 250mm off the ground or substrate such as concrete.

Timber must be protected from weather, direct sunlight and moisture prior to installation.

Timber must be pre-coated (first coat) to all edges, back and face before installation.

EARTHEN 187x21mm PREPRIMED CLADDING GRADING AND SPECIFICATION

Earthen

Earthen Preprimed Cladding Timber is mostly clear wood with some filling required prior to final paint finish

All Earthen 187x21mm Preprimed Cladding is supplied in random length between 3.0 and 6.0 metres.