

Earthen HT61 Bevelback Weatherboard Technical Manual

*Make your space,
a healthy place.*

www.healthbasedbuilding.com



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.	#008
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DWG FILES AVAILABLE UPON

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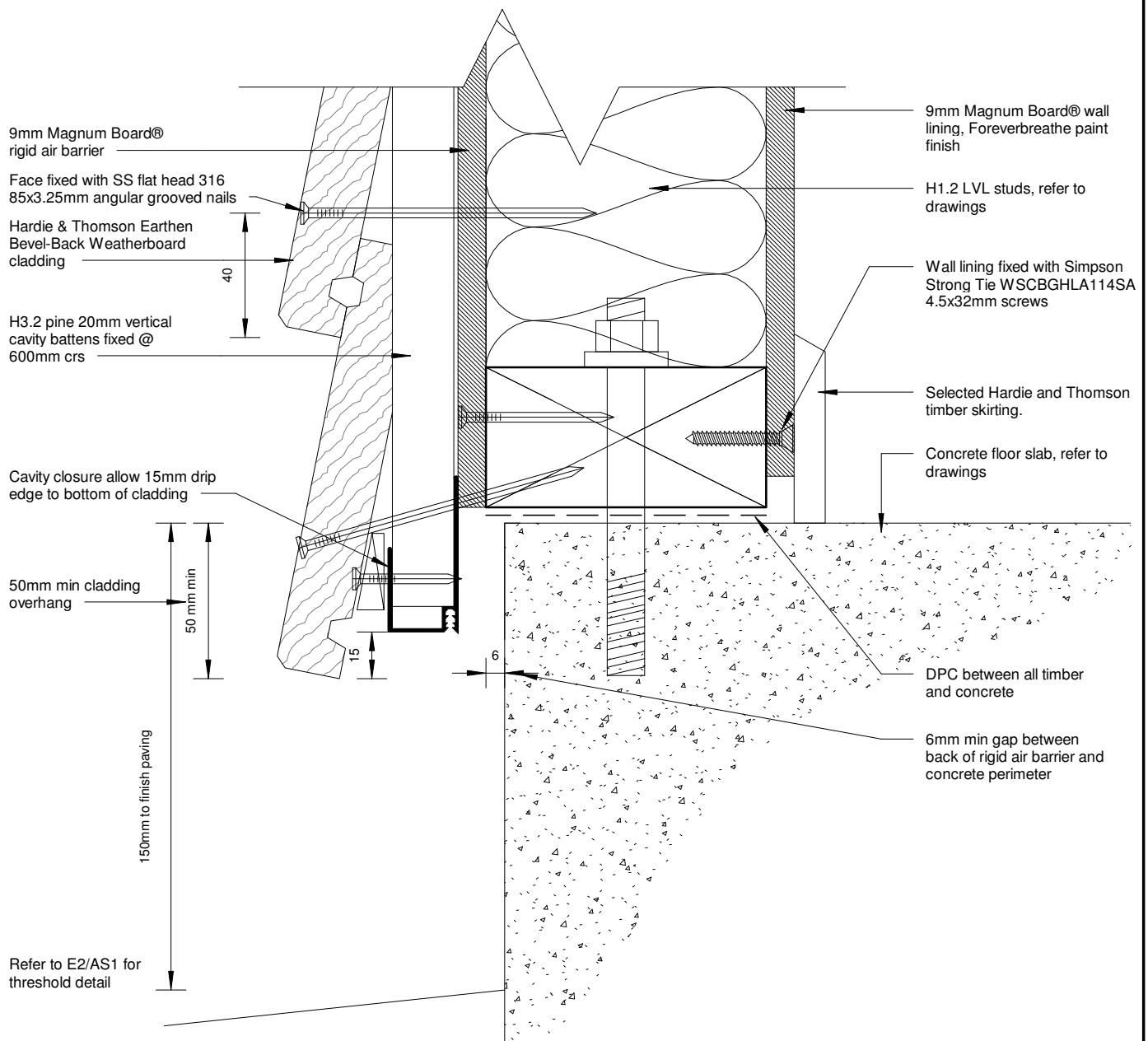
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10mm

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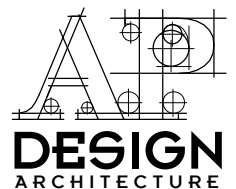


Concrete Foundation Detail

1 : 2

1/14

HT61 Bevel-Back Weatherboard Details Concrete Foundation Detail



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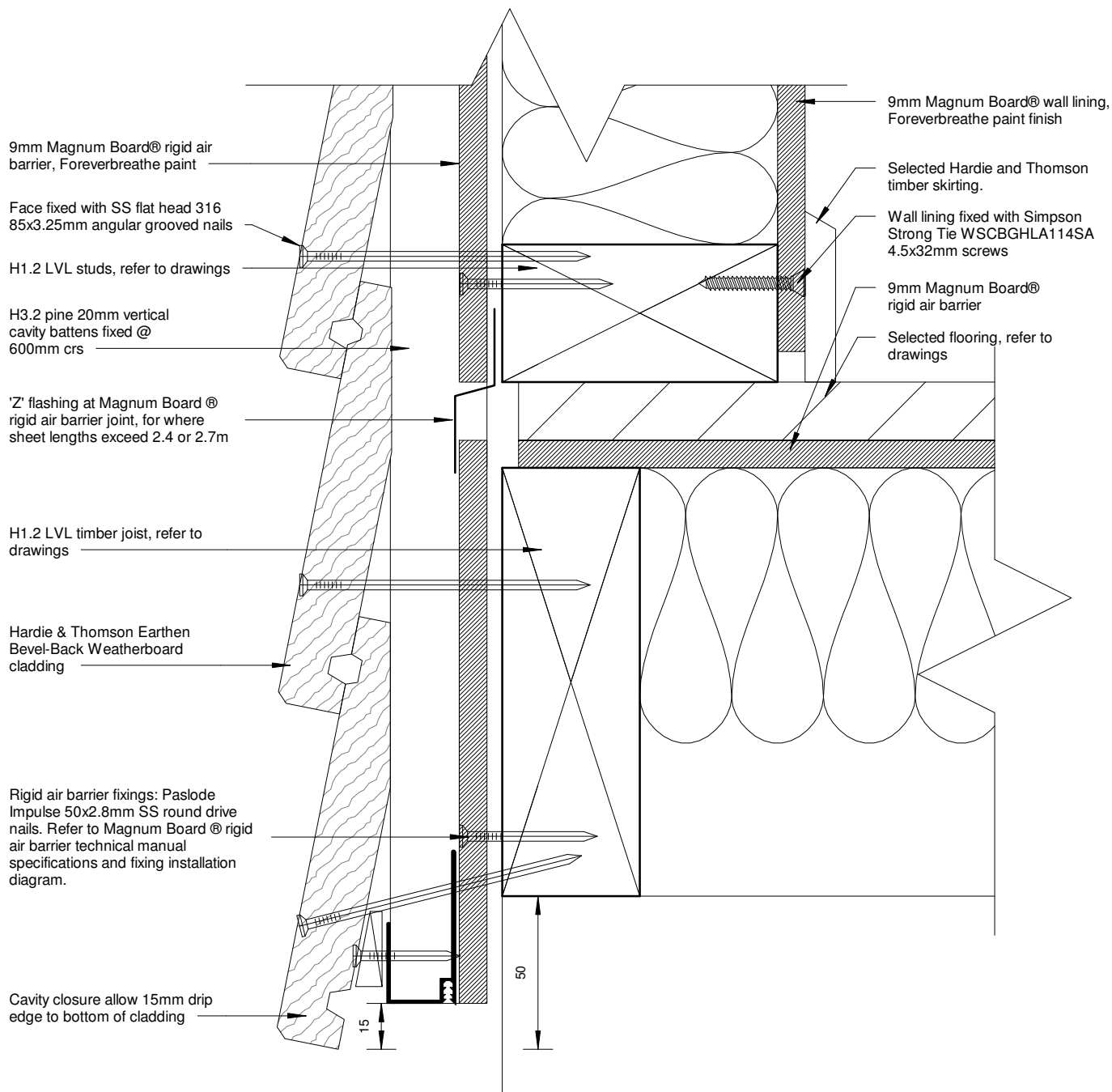
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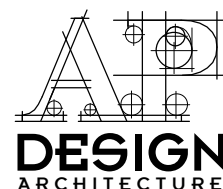


Timber Foundation Detail

1 : 2

2/14

HT61 Bevel-Back Weatherboard Details Timber
Foundation Detail



150mm

100

50

10mm

0

9mm Magnum Board®
wall lining, Foreverbreathe
paint finish

H1.2 LVL studs, refer to
drawings.

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® rigid
air barrier

Hardie & Thomson Earthen
Bevel-Back Weatherboard
cladding

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.

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

H3.2 timber scribe

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

65x65 PVC external corner
back flashing

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

Hardie & Thomson Earthen
90x20 cover board

External Corner Detail

1:2

3/14

HT61 Bevel-Back Weatherboard Details External
Corner Detail



150mm

100

50

10mm

0

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

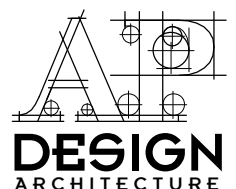
Under lap fixed with SS flat head 316 75x3.25mm angular grooved nails

Internal Corner Detail

1 : 2

4/14

HT61 Bevel-Back Weatherboard Details Internal Corner Detail



150mm

100

50

10mm

0

Selected profiled metal roofing
on roofing underlay

Ensure roofing underlay is laid
horizontally and over top of eaves
flashing. Ensure roof fixing does
not penetrate eave flashing

Folded 0.55BMT Prefinished
metal eaves flashing with hem
at top edge

Selected spouting

50

125mm min.-Refer E@/AS1 Fig. 45

Provide solid blocking for fixing

Hardie and Thompson. Earthen®
fascia board

9mm Magnum Board® soffit
lining, flush stopped, paint finish

Hardie & Thomson Earthen® soffit
moulding

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

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

Hardie & Thomson Earthen Bevel-
Back Weatherboard cladding

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.

Roof structure in
accordance with
NZS3604 or specific
Engineering design

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

Wall lining fixed with
Simpson Strong Tie
WSCBGHLA114SA
4.5x32mm screws

H1.2 LVL studs, refer
to drawings

Note;

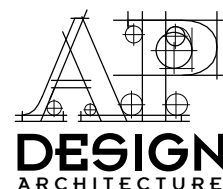
1. All Magnum Board®, ABEP® flashman® products to be installed by approved installers approved by NZSFP Ltd.
2. Where ABEP® blue barrier is in contact with biopin® paint, cemix acrylbond must be applied before application of biopin paint®.
3. Hardie & Thomson® Cover Boards and Scribes, Biopin Paint®,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

Eave - Section Detail

1 : 5

5/14

HT61 Bevel-Back Weatherboard Details Eave - Section
Detail



DESIGN
ARCHITECTURE



150mm

100

50

10mm

0

0.55BMT metal barge
flashing to match roofing
with two crests(Min.) cover
to roofings

Hardie and Thompson.
Earthen® fascia board

Y-Refer table 7 E2/AS1

Selected profile metal
roofing on roofing
underlay

Z - Refer
Table 7

Roof structure as per NZS3604
2011 or specific engineering
design

9mm Magnum Board® soffit lining, flush
stopped, paint finish

Hardie & Thomson Earthen® soffit
moulding

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

Hardie & Thomson Earthen Bevel-Back
Weatherboard cladding

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

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.

Roof structure in
accordance with
NZS3604 or specific
Engineering design

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

H1.2 LVL studs, refer
to drawings

Note;

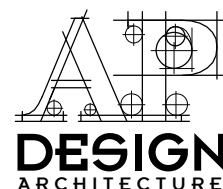
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3. Hardie & Thomson® Cover Boards and Scribes, Biopin Paint®, Terra Lana® Wool Insulation are supplied and installed by others.

Barge - Sectional Detail

1 : 5

6/14

HT61 Bevel-Back Weatherboard Details Barge -
Section Detail



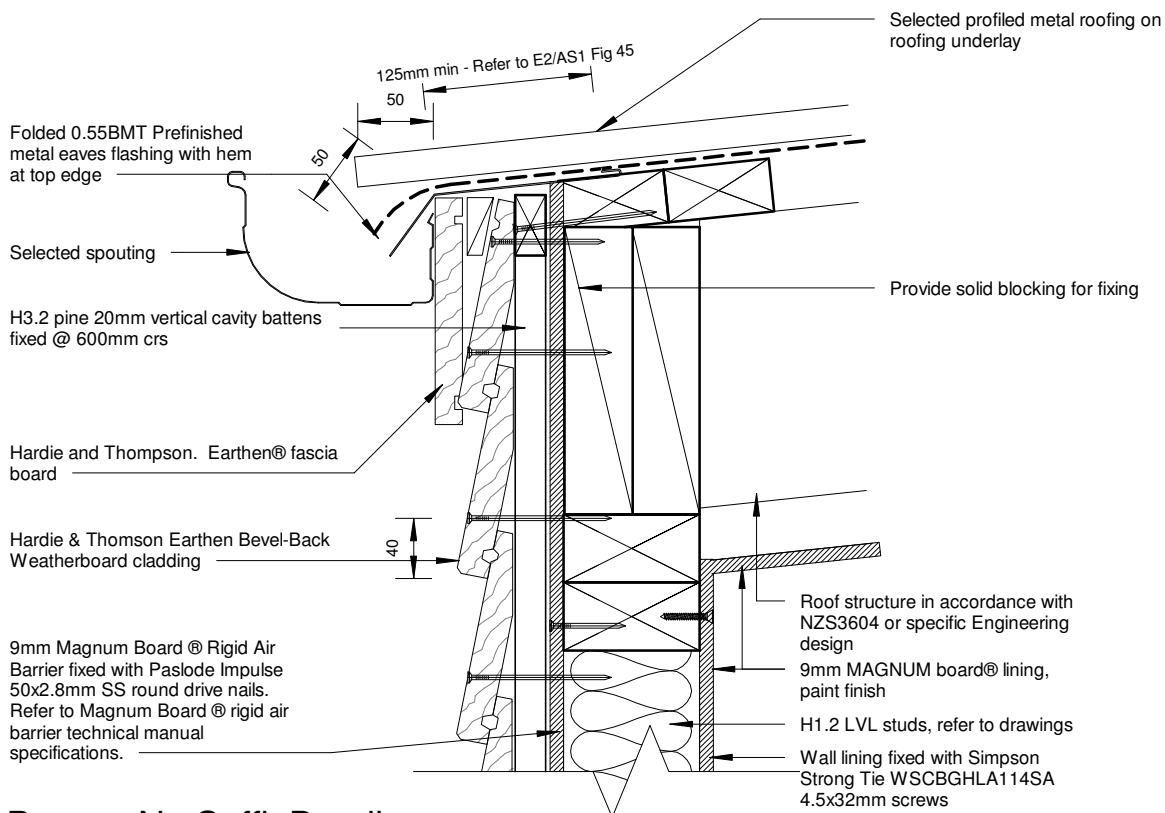
150mm

100

50

10mm

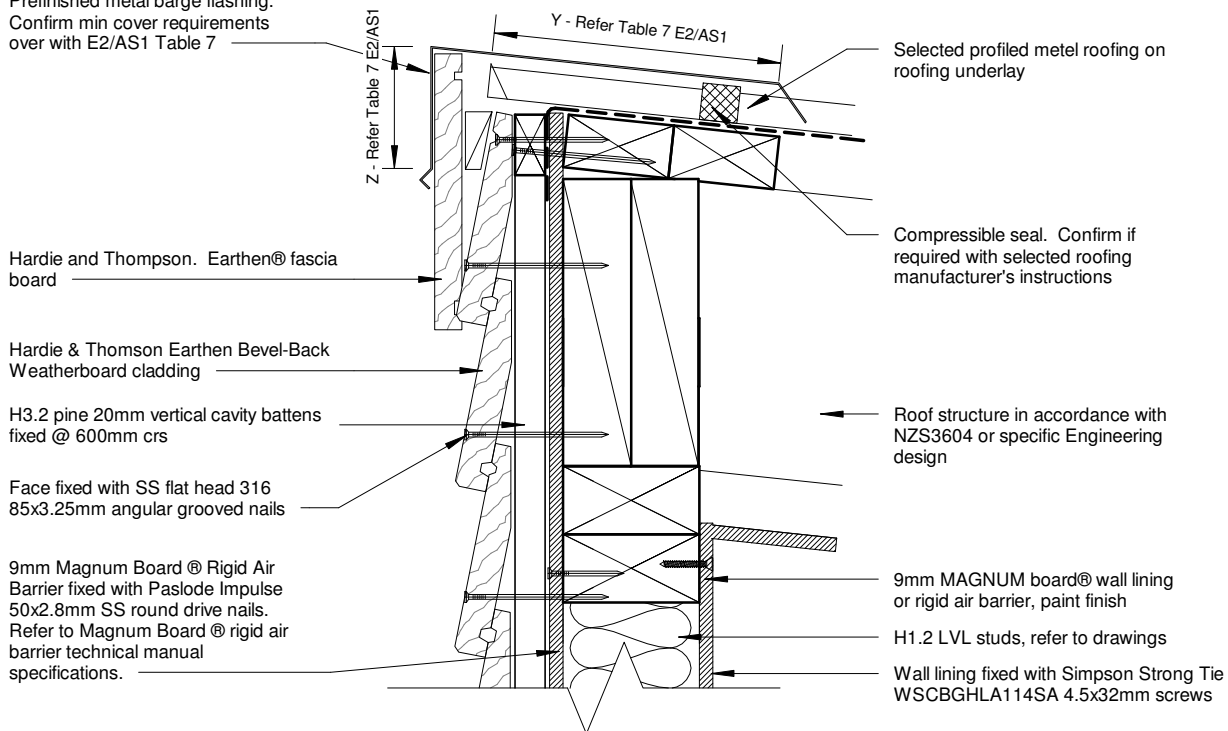
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Barge - No Soffit Detail

1 : 5

Prefinished metal barge flashing. Confirm min cover requirements over with E2/AS1 Table 7

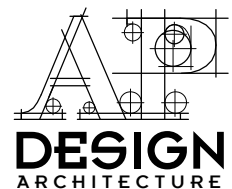


Roof - Wall ridge - Section Detail

1 : 5

7/14

HT61 Bevel-Back Weatherboard Details Roof - Wall
Ridge - Section Detail



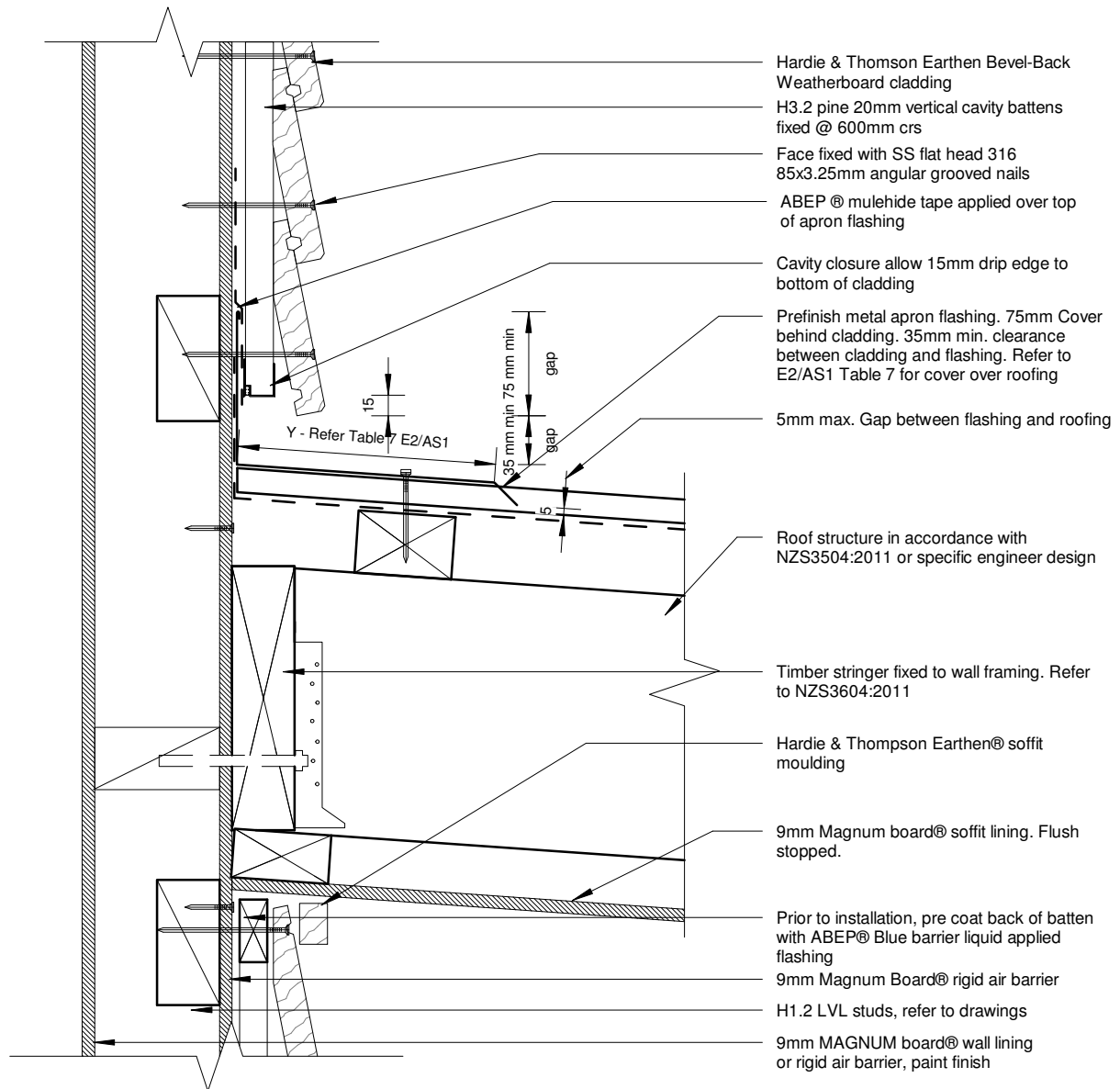
150mm

100

50

10mm

0



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

Canopy Junction - Section Detail

1:5

8/14

HT61 Bevel-Back Weatherboard Details Canopy Junction - Section Detail



150mm

100

50

10mm

0

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

H1.2 LVL studs, refer to drawings

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.

H1.2 Bottom plate

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.

Floor joists refer to plan

35mm Min cover flashing over cladding.

H1.2 Top plate

Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

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.

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

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

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

9mm Magnum Board ® rigid air barrier

50mm continuous width of mulehide tape over joint in Magnum board® rigid air barrier

ABEP® Blue barrier joint filler. Approved bond breaker is applied over the blue barrier joint

10 - 12mm min horizontal control joint. Required where wall exceeds 2700mm in height

1mm thick continuous ABEP® 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

Cavity closure allow 15mm drip edge to bottom of cladding

Purpose made aluminium flashing. 15° min slope. Refer to table 20 of E2/AS1 for flashing durability

35mm Min cover flashing over cladding.

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

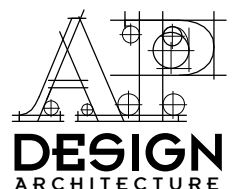
H3.2 pine 20mm vertical cavity battens fixed @ 600mm crs

Horizontal Control Joint

1 : 2

9/14

HT61 Bevel-Back Weatherboard Details Horizontal Control Joint



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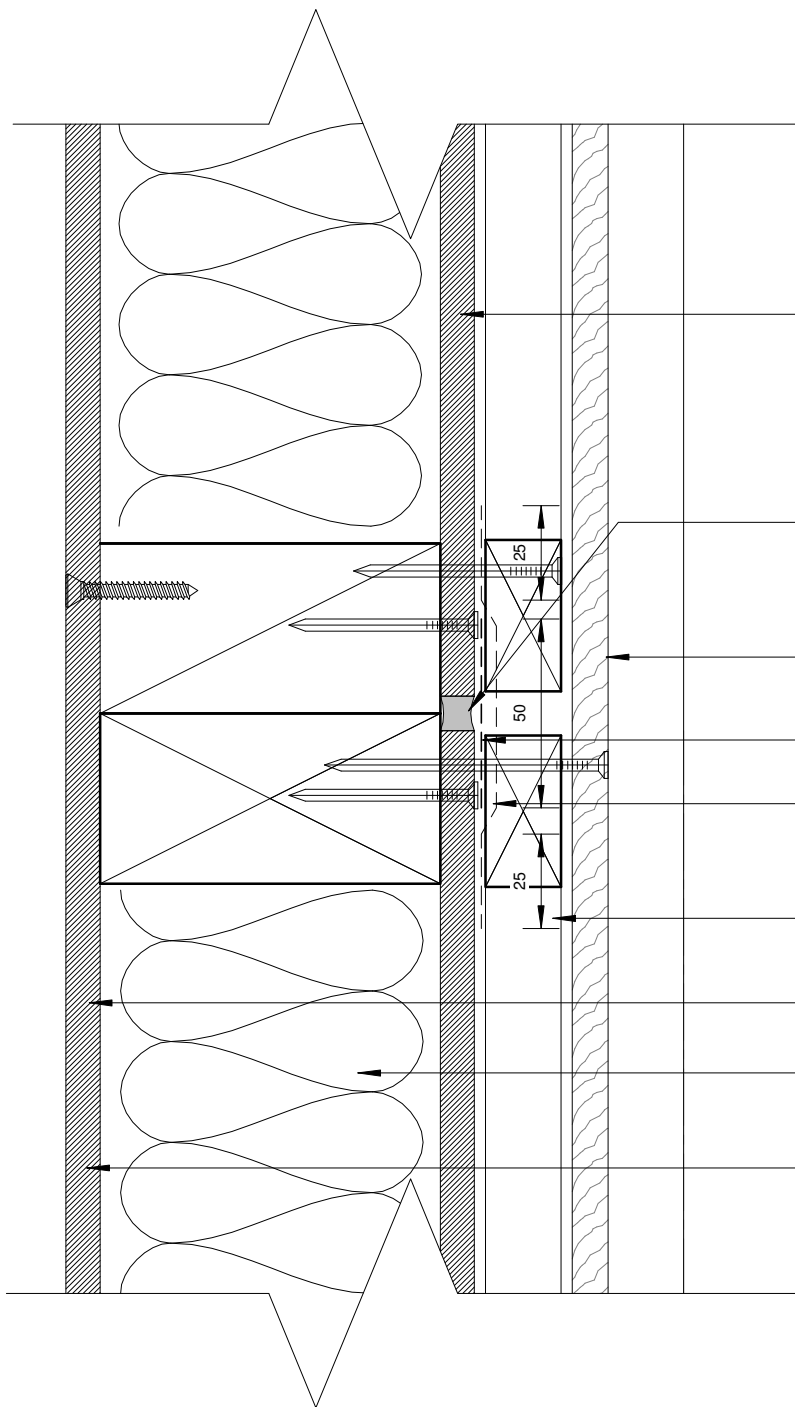
150mm

100

50

10mm

0



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

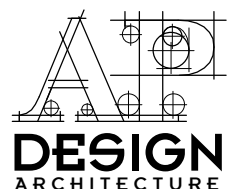
Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

Vertical Control Joint

1 : 2

10/14

HT61 Bevel-Back Weatherboard Details Vertical Control Joint



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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.

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

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

Cavity closure allow 15mm drip edge to bottom of cladding

Bottom of cladding must be hard down on top of flashman jamb fin

Flashman ® extruded aluminium one piece cavity closure and head flashing with stop end (shown dashed)

35mm min. Flashing upstand behind cladding, and 10mm min. cover over joinery

Flashman extruded aluminium jamb flashing

Earthen® timber reveal - choose size + code

Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

H1.2 LVL studs, refer to drawings

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

Proprietary tape over head flashing supplied and installed by flashman

H1.2 Lintel refer to plan

10mm Gap nominal to allow for head deflection and air seal

Continuous flexible air seal on PEF backing rod to perimeter of opening

ABEP® Blue barrier liquid applied flashing. Apply according to manufacturer's instructions

Temporary packers if required are to be removed after fixing

Typical Head Detail

1 : 5

Flashman ® aluminium mitre soaker supplied by flashman

3mm Gap between bottom edge of extruded aluminium flange and top of flashman sill

Flashman® extruded aluminium slimline line

Bead of sealant applied by flashman installer

Flashman back plate (Shown dashed)

H3.1 Packer supplied and installed by flashman

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

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

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

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.

Earthen ® timber reveal

Continuous flexible air seal on PEF backing rod to perimeter of opening

10mm nominal gap

Timber packer as required

ABEP® Blue barrier liquid applied flashing. Apply according to manufacturer's instructions

14 Gauge Hot Dip Galvanised (316 SS Where required) S.T. H.C Screws at 600mm crs with 65mm min. frame penetration. Supplied and installed by flashing ®. Refer to E2/AS for durability requirements

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

H1.2 LVL studs, refer to drawings

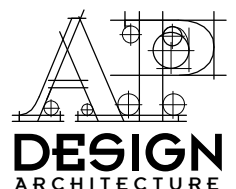
Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

Typical Sill Detail

1 : 5

11/14

HT61 Bevel-Back Weatherboard Details Typical Head and Sill Detail



150mm

100

50

10mm

0

Wall lining fixed with Simpson Strong Tie
WSCBGHLA114SA 4.5x32mm screws

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

H1.2 LVL studs, refer to drawings

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.

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

Hardie & Thomson Earthen Bevel-
Back Weatherboard cladding

Flashman® extruded 40mm aluminium
jamb flashing

Line of flashing slimline ® sill below

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

10

5 10

10mm Nominal gap

Earthen ® timber reveal
and architrave

Continuous flexible air seal
on PEF backing rod to
perimeter of opening

Timber packer as required

ABEP® Blue barrier liquid
applied flashing. Apply according
to manufacturer's instruction

Selected aluminium joinery

Head flashing over (Shown
dashed)

Powdercoated aluminium J
flashing

10mm min. joinery cover over
jamb flashing

Bead of sealant

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

DO NOT FIX THROUGH JAMB
FLASHING

Typical Jamb Detail

1 : 5

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12/14

HT61 Bevel-Back Weatherboard Details Typical
Jamb Detail



150mm

100

50

10mm

0

Selected flooring, refer to drawings

Flexible flashing tape as per E2/AS1 2011 figure 17b

9mm Magnum Board® rigid air barrier

H1.2 LVL timber joist, refer to drawings

Continuous flexible air seal on PEF backing rod to perimeter of opening

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

12mm gap between stringer and cladding/joinery
Note: 20mm gap if deck is independently supported

Decking as per drawings, joist sizes and fixings in accordance with NZS3604:2011

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.

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

Cavity closure allow 15mm drip edge to bottom of cladding

Deck stringer and fixings in accordance with NZS3604:2011 or specific engineering design

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

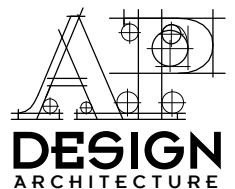
Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

Deck Threshold Detail

1 : 2

13/14

HT61 Bevel-Back Weatherboard Details Deck Threshold Detail



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150mm

100

50

10mm

0

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

Butynol flashing over rubber boot as per vanluk installation instruction

Clear MS sealant to top half of flange

Clear MS sealant 10mm wide x 6mm
Deep sealant on bond breaker see E2/AS1 FIG 68 of flange

Pipe penetration sloping to outside

Powder coated flange plate

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

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

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.

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

9mm Magnum Board® wall lining, Foreverbreathe paint finish

Vanluk rubber boot with adhesive collar. refer to www.vanluk.co.nz

Solid blocking around penetration with minimum 75mm overlap to RAB

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

Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

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

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® wall lining, Foreverbreathe paint finish

Wall lining fixed with Simpson Strong Tie WSCBGHLA114SA 4.5x32mm screws

H1.2 LVL studs refer to drawings

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

Powdercoated aluminium flange plate

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

Support pipe with a nog under and screw fixed strap over

Butyl flashing over rubber boot per vanluk installation instruction

Vanluk rubber boot with adhesive collar. Refer to www.vanluk.co.nz

Hardie & Thomson Earthen Bevel-Back Weatherboard cladding

Pipe Penetration Plan Detail

1 : 5

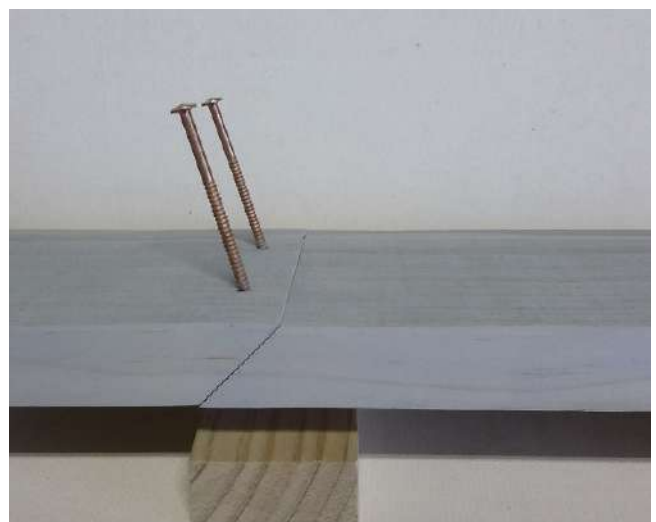
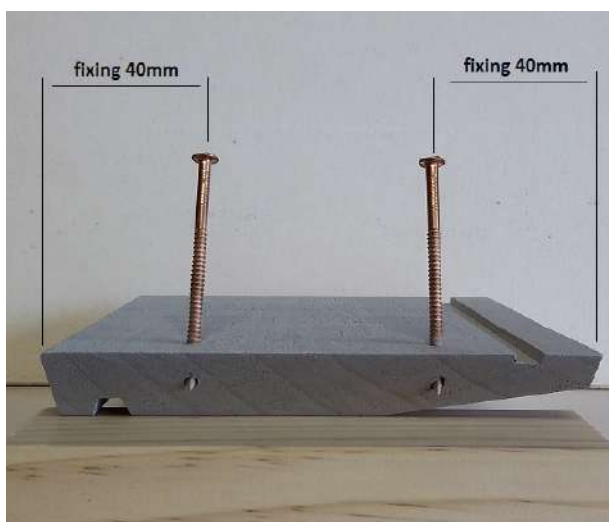
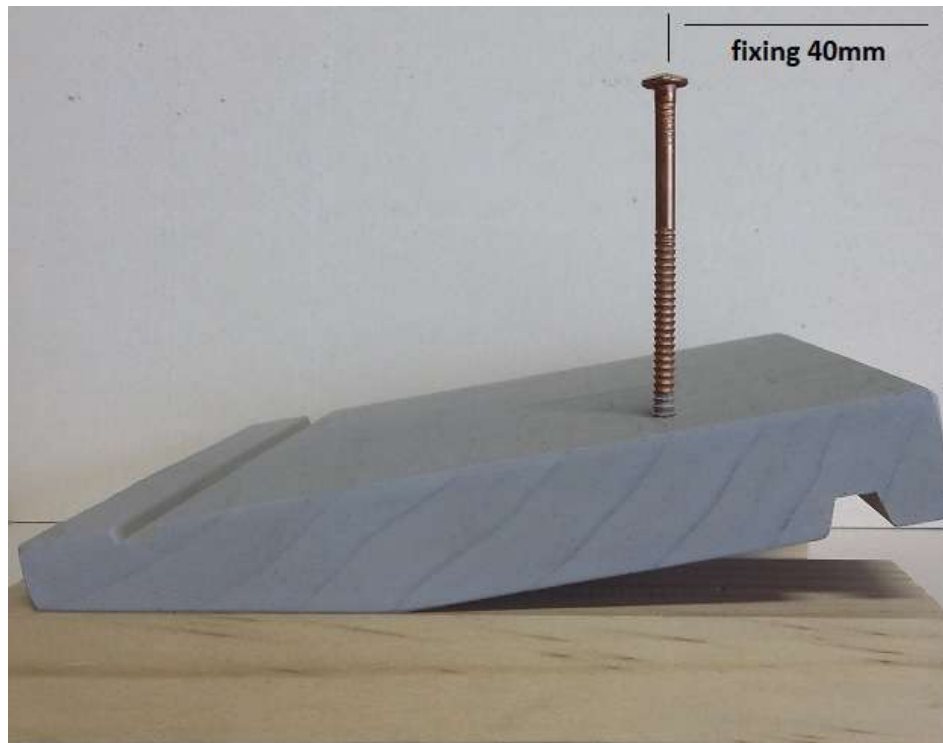
Note: Alternative option is to remove flange plate and provide clear sealant in place of ABEP Blue barrier joint filler

14/14

HT61 Bevel-Back Weatherboard Details Pipe Penetration - Plan & Section Detail



Nail fixing position and scarf joint pre-bore using 3.264 drill size



Earthen

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-protecti-on-paint?gn=Paint&gp=22>

SAFETY DATA SHEET
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, CO2 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:
VOC- Guidelines (Switzerland)

EU limit for VOC e/Wb = 130g/l. from 2010. This product contains a maximum of 1g/l

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/m ³	ppm	mg/m ³
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

Product Name MICROPRO COPPER BASED TIMBER PRESERVATIVE

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/m ³ /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/m ³	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.

Prepared by

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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

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

Bar Code

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 sensitizers

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)

Product Name: 839-LINE DULUX SOLVENT BASED ALKYD
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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.
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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

Product Name: 839-LINE DULUX SOLVENT BASED ALKYD
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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

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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.

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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

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

Reference No: DLXNZLEN001766

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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

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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 $BCF \geq 500$ and/or $\log K_{ow} \geq 4$.

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

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

Reference No: DLXNZLEN001766

Issued: 28 May 2019

Version: 5.0

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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)

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

Reference No: DLXNZLEN001766

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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*TM

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 140x21mm 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 140x21mm Preprimed Cladding is supplied in random lengths between 3.0 and 6.0 metres.

