Installation instructions: Elements Vulcan+ Newport Hector Cladding

Technical Data

Wood Species

Thermally Modified Softwood (Pinus Radiata)

Images

Product picture

Quality

Select Grade/face and edges virtually free of any defects (one edge knot and one small face defect allowed per piece in 20% of boards only), back face allows some isolated defects. Vertical Grain orientation on all boards.

Moisture Content

Kiln Dried, 7% MC (+/-%)

Sizes

Thickness (x width mm)

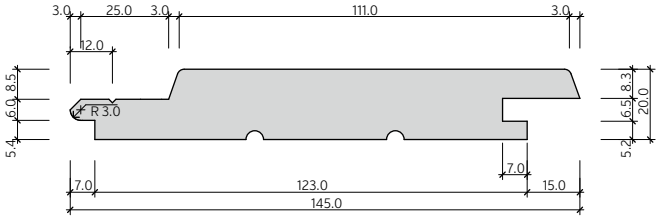
20 x 145 mm (125 mm effective cover)

Length (cm)

360, 390, 420, 450, 480 cm - Set Length Packets
(length subject to availability)

Profile

Newport Hector - Light Band Sawn face - Secret fix



Colours

Standard colour range:

Patina Teak Walnut Manuka Graphite

Colours presented are indicative only. Dark colours are not recommended for heavy UV-exposed situations.

Newport Hector vertical fix

Newport Hector horizontal fix

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Product Specifications

Treatment

Thermally modified to TM220 schedule.

H3 Treated with Protim preservation system.

Durability class H3 (AS1604)

Density

430-450 kg/m^3

Hardness

Medium-Low (3.5kN Janka)

Weight

~12 kg/m^2 ('light weight cladding')

Wind zone

Acceptable for wind zones up to and including N4 (non-cyclonic areas) and C2 (cyclonic areas). Alternative fixing details from a registered engineer may be required for cyclonic areas with C3 wind classification.

Intended use

Intended for use in residential and light commercial buildings.

Finishing

Fine bandsawn face.

Coating

Supplied with 1 coat of factory-applied Elements penetrating Protector Oil, or other proprietary wood stain coated all sides.

Construction

Laminated with vertical grain orientation.

Glue

Purbond HBS – VOC, solvent and formaldehyde free new generation polyurethane adhesive. Type 1 adhesive (AS4364).

Expected dimensional change in service

Width expansion approx 2%, length expansion approx 0.5%, thickness expansion approx 3% (variation may occur between boards).

Expected Service life

Minimum 30 years or more when properly maintained.

Warranty

25 years against rot, fungal decay and insect attack (subject to terms and conditions).

Patent

NZ Pat. 601245, AU Patent 2012101047

Forestry Certification

FSC®-certified mixed, No.: SGS-COC-004944

Handling

- Weatherboards and accessories must be kept clean dry, under cover and out of the weather prior to installation.
- Timber must be stored horizontally on bearers at least 100mm off the ground.
- Extra care must be taken during installation so as not to damage the factory finish of the boards.
- Wear dust mask, eye protection when cutting timber.
- Do not burn treated timber. Dispose of off-cuts in lined land fill or an approved furnace.

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Fixing

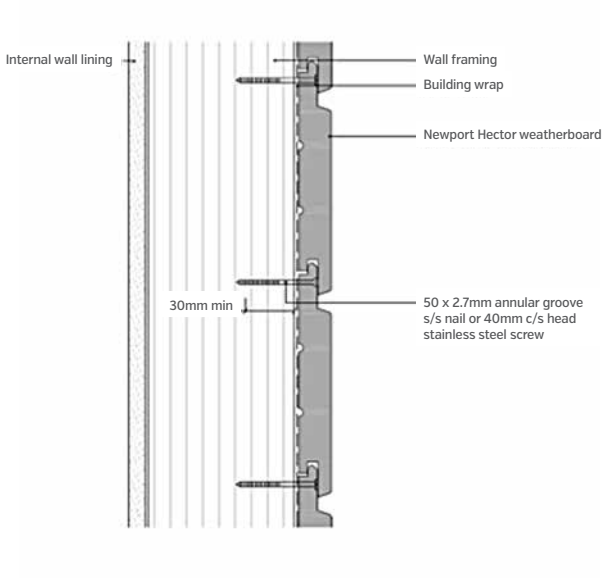
- Timber framing is to be in accordance with AS1684 and local building code.
- Fix boards either vertically or horizontally at max 450mm centres

Horizontal Fixing

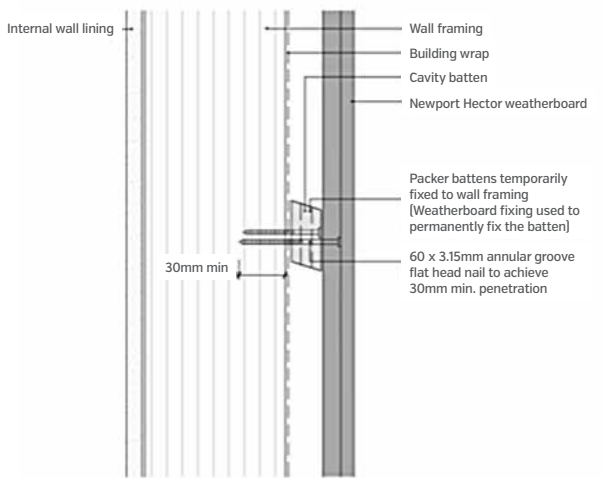
- Studs to be spaced at max 450mm centres
- Apply water proof, breathable building wrap (sarking) eg: Tyvek Homewrap over studs keeping all overlaps pointing downwards and tape all joints.
- Boards may be direct-fixed to studs or optionally fixed onto vertical 45x20mm H3 treated timber cavity battens.
- Cavity battens are to be structurally fixed vertically to studs with 50x2.7mm HDG flathead nails placed at 300mm centres staggered 12mm either side of the batten centre line.
- If fixing to masonry, structurally fix 45x45mm H3 treated timber cavity battens vertically with masonry anchors at max 600mm centres staggered 12mm either side of the batten centre line.

Vertical Fixing

- Nogs to be spaced at max 450mm centres, studs at max 600mm centres
- Apply water proof, breathable building wrap (sarking) eg: Tyvek Homewrap over studs keeping all overlaps pointing downwards and tape all joints.
- Use CB-H-45x45 horizontal castellated (notched) and bevelled battens spaced at max 450mm centres
- Structurally fix CB-H-45x45 castellated (notched) and bevelled battens horizontally to nogs with 90x2.8mm HDG nails at 300mm centres staggered 12mm either side of the batten centre line.
- If fixing to masonry, structurally fix CB-H-45x45 H3 treated timber cavity battens horizontally with stainless steel masonry anchors at max 600mm centres staggered 12mm either side of the batten centre line.



Horizontal fix



Vertical fix

All systems

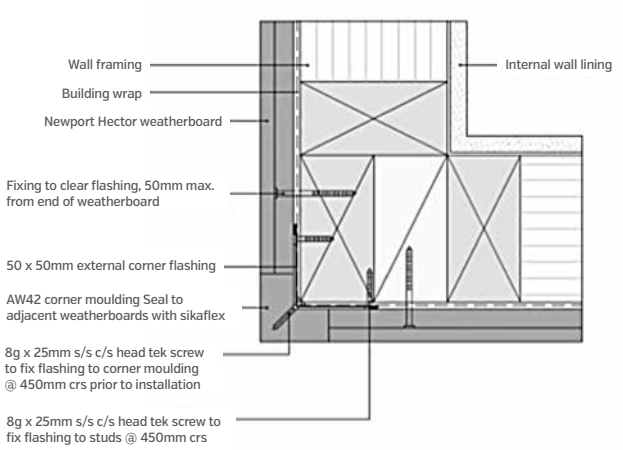
- Secret fix boards into positioning groove located on the tongue with a 50 x 2.7mm stainless steel flat head ring shank nail, or an 8gx40mm stainless steel self-countersinking self- drilling screw at max 450mm centres. Ensure fastener head is flush with surface - do not over-drive.
- Face-fix first board at bottom of wall (horizontal fix) or corner of wall (vertical fix) with a 65x2.7mm stainless steel flat head ring shank nail or 8gx50mm stainless steel countersink head screw positioned minimum 50mm from edge
- Allow a minimum of 2mm expansion gap between boards.
- Using a gauging stick, mark the cover increments of each row up the studs off the top of the starter board to keep everything straight and parallel. This is particularly important around windows and doors. Alternatively use a spacer block in the shadow line to assist even spacing
- Fixings at ends of boards must be at least 12mm from edge, and must be pre-drilled before applying fastener.
- Cut ends must be sealed with 2 coats of oil or an approved sealer or end grain sealing wax. Butt joins and ends must be sealed with construction sealant eg: Sikaflex 11FC
- A further coat of Protector oil or proprietary specified wood stain should be applied once boards are fixed in place according to manufacturer's instructions.

External Corners

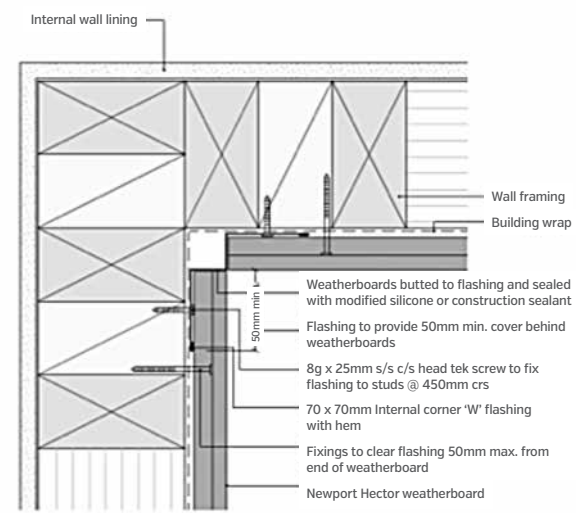
- Use Elements AW42 external corner moulding backed by aluminium corner angle flashing.
- Attach corner angle flashing to back of AW42 corner mould prior to installation with 8gx25mm stainless steel screw at 450mm centres.
- Fix flashing with AW42 corner moulding attached to stud or batten on either edge with 8g x 25mm screws at max 450mm centres along the flashing edge.
- Butt board ends snugly into the AW42 moulding and seal with construction sealant eg: Sikaflex 11FC

Internal Corners

- Use aluminium 'W' Flashing
- Fix flashing to stud or battens on either edge with 8g x 25mm screws at max 450mm centres along the flashing edge.
- Butt boards ends snugly into the flashing and seal with construction sealant eg: Sikaflex 11FC



External corner



Internal corner

Butt Joins

- Butt joins should be mitred at a 45 degree angle and joined over the stud, nog or batten only.
- Apply one fixing pre-drilled either side of the join at least 12mm from the edge.
- Joins in vertical boards should have the mitre sloping down so as to shed water away from the join and down the face of the of the cladding.
- All butt joints should be sealed with 'sikaflex' or equivalent joint sealant. The easiest way to apply the joint sealant is to apply it to the end of one board and allow it to squeeze out as the two boards are pushed together. The excess sealant will mushroom off the two edges. Let it dry fully, and then scrape it flush with a sharp chisel.
- All end grain is to be sealed with multiple coats of the timber oil to be used on the face.

Top of wall

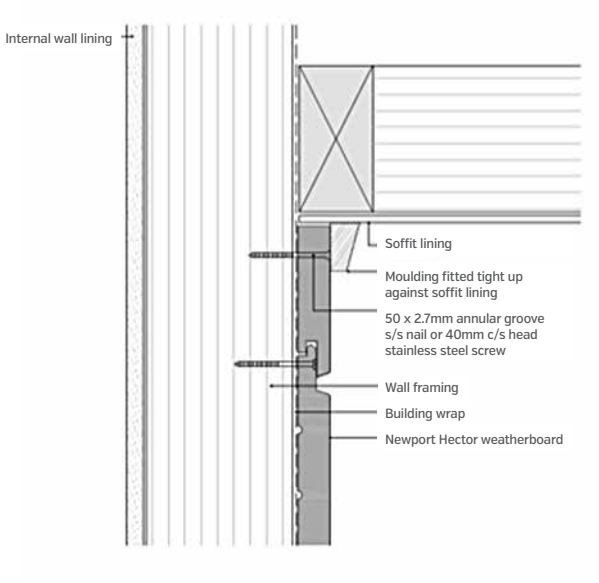
- Use exterior finishing moulding to close off wall
- For cavity systems, ensure roof is sealed off from wall cavity to prevent air movement between the two spaces.

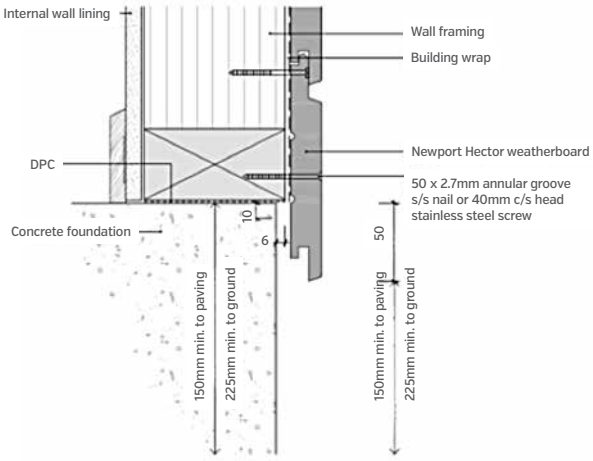
Base of wall

- Boards to extend minimum overlap 50mm from bottom of wall
- Allow least 75mm gap from bottom edge of board to ground level
- For cavity systems, use a perforated cavity base closer flashing at base board to allow drainage, air flow and keep out vermin.

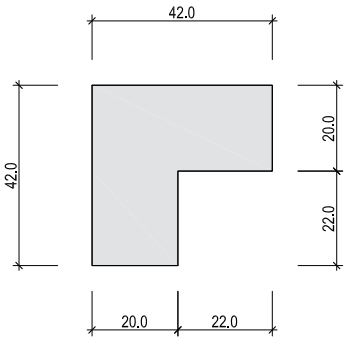
Maintenance

- Wash down every 12 months with gentle detergent, warm water and soft brush.
- Within 6 months of installation apply a third coat of oil
- Make a maintenance check every 2 summers. Re-coat every 2-3 years or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/ or positioning of cladding to the sun.
- For heavily soiled or mouldy areas use Elements Rejuvenator or similar oxygenating cleaner, Elements Preventor or similar mouldicide and recoat with penetrating oil.
- As this is a natural product, come variation in colour, movement and minor surface cracking may occur as a part of the weathering process.
- The product will eventually weather to grey unless a pigmented coating is reapplied periodically.
- If a weathered look is preferred, use grey coloured oil, allow to weather and maintain as appropriate.

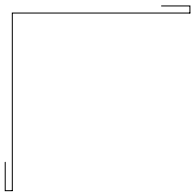




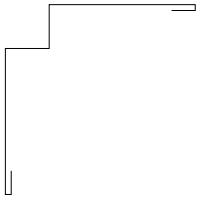
Accessories



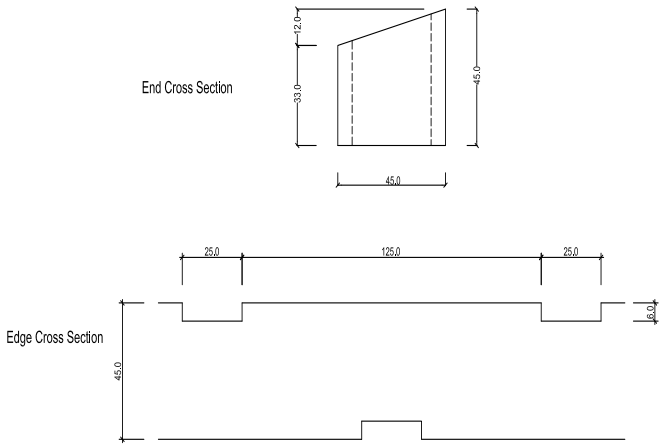
AW42 External Corner Mould



External corner angle flashing

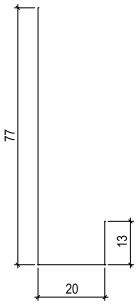


75mm Internal W Flashing



CB-H-45 x 45 Horizontal Cavity Batten

CB-V-45 x 45 Vertical Cavity Batten



Cavity closure

Elements Protector Oil 4L, 10L

Other accessories and custom profiles are available - please enquire for further information.

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