

Viking Enviroclad (non-visual)

Version 1.2

Plywood

Date Started	
Approved Applicator Company	
Viking Licenced Installer	
Project Name & Address	
Main Contractor	
Membrane Thickness / Colour	
Add any notes or comments:	

Viking Roofspec can accept the maximum support spacing provided in Table 15C of CCH Ecoply Specification Guide *(increase in thickness of plywood allows greater support spacing)*

Note: This checklist is for standard (non-visual) plywood installation.

1. Standard, Non-visible Roof, to be used where visuals are not critical and maintains a 3mm plywood sheet gap for movement.

Please refer to the following checklists for guidance and completion.

Non- Visible Roof

Due to expansion and contraction of plywood substrate sheets can sometimes cause ‘tenting’ which is peaking of the membrane above the plywood sheet joins. This can be a little unsightly but is not problematic for roofs that aren’t visible from the building and/or below. Tenting also demonstrates the membrane ‘forgiving’ such substrate movement by moving with it rather than splitting and allowing water ingress. This does not affect the membrane warranty. If the roof is visible from the building and/or below, we recommend the adoption of the plywood substrate checklist which has been developed for ‘Visible’ roofs

- Roof framing supports** at 400mm in one direction and Nogs/ Blocking at the sheet edges (all plywood edges supported) use 17mm minimum thickness (CCA or MCA H3.2 treated), structural plywood (**Do not use tongue & groove plywood**)
- Plywood must be structural grade complying with AS/NZ 2269.0:2012. Face veneers must be of a minimum 2.4mm thickness (1.72mm post sanding). Product ID will read 17-24-7 (17mm thick) (face veneer mm x 10) (number of veneers)
- Deck framing supports** at 400mm in one direction and Nogs/ Blocking at the sheet edges (all plywood edges supported) use 17mm minimum thickness (CCA or MCA H3.2 treated), structural plywood (Do not use tongue & groove plywood)
- Plywood laid with face grain at right angles to supports. Minimum CD grade with the sanded C face upwards
- Plywood is to be laid with staggered joins in a brick-bond pattern with a 3mm expansion gap between sheets.
- Plywood screw-fixed with 10g x 50mm S/S counter-sunk screws (75mm min if using timber castellated battens) at 150mm centres at all sheet edges and 200mm centres through the body of the sheet. All screws to be counter sunk 1-2mm.

- Chamfer all external roof edges with a minimum radius of 5mm. eg. parapet edges and downturns to internal gutters
- Plywood must be kept dry at all times during construction. Blow/torch drying the plywood surface prior to membrane application does **NOT** comply. Plywood and framing supports should not exceed **18% moisture content**.
- *For roofs and roof decks over living spaces, all insulated cavities must be ventilated in accordance with E2/AS1 8.5.2. No cavity ventilation is required for a Viking WarmRoof / WarmSpan system that meets or exceeds the minimum R-value requirements of the climate zone.
- All outlets and overflows are membrane compatible. Note that TPO membranes cannot be welded to stainless steel scuppers or sumps. Outlets/overflows must have clamped grates.
- Ensure compliant falls. E2/AS1 8.5.1. limitations state 2° for roofs (1:30 or 34mm/mt), 1.5° for decks (1:40 or 25mm/mt) and 1:100 (10mm/mt) for internal gutters. **For falls below this refer to Viking Codemark Certificate CMNZ70176 providing 0.72° (1:80 or 12.5mm/mt minimum fall)**

**Substrate venting may be achieved with the non-visual roof by introducing castellated timber battens to the top of joists or rafters. Viking Roofspec suggests designers and constructors' increases the length of the 10g Stainless Steel screws to 75mm minimum to maintain structural integrity in accordance with NZS 3604.*

Please ensure you have ordered the correct membrane, colour and thickness for your project

NOTES:

- Cover the substrate to keep it dry, ensuring the waterproofing membrane can be installed when needed. Communicate early with your Viking Approved Applicator on the project scheduling to ensure weather exposure is kept to a minimum.
- Correct substrate installation is critical to durability and performance of the membrane.
- Failure to strictly comply with substrate specification may affect product warranty. Refer to Product Warranty for further details.
- Substrate movement may occur due to several factors, including incorrect substrate installation, seasonal conditions or within the design for substrate expansion allowance. Movement of substrate can produce a wrinkle or 'Tenting' in all types of membrane. As it is created by movement of the substrate itself this is not a product fault and as such, is not covered under the product warranty; however, the durability and waterproofing guarantee is not affected if Tenting is exhibited.
- *Cold Roof Venting: E2/AS1 notes: Closed-in construction spaces under membrane roofs and decks require adequate ventilation to prevent the accumulation of moisture under the membrane. Maintain a minimum gap of 20 mm between the underside of the substrate and any insulation, and for membrane roofs greater than 40 m2, refer to manufacturer's details for substrate vent options.*
- All construction should comply with the New Zealand Building Code. Contact your local council for further advice.
- Communication between the Applicator and Construction Company will assist to ensure specification is met
- Information regarding our products, specifications and warranties is available at www.vikingroofspec.co.nz If you have a query regarding this substrate specification, please call Viking on 0800 729 799

Auckland office

80 Alexander Crescent,
Otago PO Box 14-541,
Panmure, Auckland
1741, New Zealand

Christchurch office

2 Nazareth Avenue,
Middleton, PO Box
9117, Tower Junction
Christchurch 8149,
New Zealand

Wellington office

19 Pretoria St,
Lower Hutt 5010,
New Zealand

T: 0800 729 799
F: 0800 729 788

info@vikingroofspec.co.nz
www.vikingroofspec.co.nz

A division of Viking Group Limited