

Viking Torch-On

Version: 1.1

Plywood

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

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

- 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 joints in a brick-bond pattern with a continuous bead of suitable construction adhesive on top of timber supports. Sheet edges to be carefully glued with a continuous bead of suitable construction adhesive (no spot gluing) and tight butt jointed. Once sheets have been placed together remove any excess adhesive by scraping the joint with a chisel. Ensure joints and sheets are not walked on within two hours of application. When fully cured remove excess and sand off joints
- Leave a 5mm minimum expansion gap around the perimeter of the plane. The fixing specification allows for a maximum 50m² without expansion joints (dependant on design). 5mm expansion joints should be used on areas over 50m². For further information regarding placement of expansion joints for your design, please contact the building designer or Viking Roofs spec.
- Plywood screw-fixed with 10g x 50mm S/S counter-sunk screws at 150mm centres at all sheet edges and 200mm centres through the body of the sheet. All screws to be counter sunk 1-2mm
- Provide minimum 20mm timber fillets at the base of all upstands. Viking Roofs spec recommends using (IMT603) Bitumen Fillets
- Chamfer all external edges with a minimum radius of 5mm
- Plywood is to 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 to be at no more than 20% 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.
- Consider constructing Cross Ventilation with Timber Castellated battens directly under the ply substrate.
- All outlets and overflows are membrane compatible. Drains 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 Phoenix Codemark Certificate CMNZ70171 providing 0.72° (1:80 or 12.5mm/mt minimum fall)**
- Ensure you have ordered the correct membrane, colour and thickness for your project

**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.*

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 constructions 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**

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