

# Substrate Checklist : EcoStar Plywood

- Plywood sheathing - minimum 15mm H3 treated, DD grade complying with AS/NZS2269.
- Frame spacings. Refer current CHH Roofing Span tables. 15mm F11 Roofing Plywood, framing supports at maximum 900mm centres for slopes greater than 20 degrees in all wind-zones up to and including "very high". For slopes of 15-20 degrees in "very high" wind-zones framing supports must be at a maximum 800mm centres for 15mm F11 Roofing Plywood. Otherwise use 17mm F11 Roofing Plywood at 900mm.
- Plywood laid with the face grain at right angles to supports.
- Plywood laid with staggered joints in a brick-bond pattern.
- Square edge plywood must be fully supported using a minimum of 75mm x 50mm framing. Nogging within the body of the roof is not required when using T & G plywood.
- T & G plywood is to be butt jointed on edges with a 2-3mm expansion gap at sheet ends. Square edge plywood requires a 2-3mm expansion gap between sheets on all edges.
- Plywood sheets must be continuous over a least two spans (three framing membranes).
- Nog plywood edges at the ridge, gutter and valley.
- Fixing. Use 60 x 2.8mm ring-shank Galv or Stainless nails, with a maximum spacing of 150mm. Fixing must be positioned no closer than 10mm from the sheet edges.
- Plywood is to be kept dry at all times during construction. Plywood moisture content no greater than 18% prior to installing underlay and shingles.
- Ventilation. Construct substrate to allow minimum ventilation of 1/300 of the ceiling plan area (3350mm<sup>2</sup> per square metre of ceiling) equally distributed at the eaves and ridge to allow free air flow under the Plywood substrate. Ensure a 25mm ventilation gap along all ridges.
- Ensure plywood does not protrude into the gutter and that the plywood is capped with a metal drip edge flashing as per Viking Roofspec's standard gutter detail.
- Please ensure the minimum pitch of the substrate 15 degrees as per the Viking Roofspec Specification.

## Notes:

- Correct substrate installation is critical to the durability and performance of the EcoStar system. Failure to strictly comply with the substrate.
- Specification may result in the decline of the product warranty. Refer to Viking Roofspec for further details.
- All construction must comply with the New Zealand Building Code. Contact your local council for further advice.

Information regarding our products, specifications and warranties is available at [www.vikingroofspec.co.nz](http://www.vikingroofspec.co.nz)  
If you have a query regarding this substrate specification please call Viking on **0800 729 799**.

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