

# SUBSTRATE CHECKLIST

## TORCH ON PLYWOOD



- Framing supports at 400mm centres for 17mm ply (in one direction) and framing supports at 600mm centres for 19mm ply (in one direction). All plywood edges must also be supported.
- Do not use tongue and groove plywood.
- Minimum thickness 17mm, F8, CCA H3.2 treated, structural plywood (not LOSP treated).
- Minimum CD grade with the sanded C face upwards.
- Plywood laid with face grain at right angles to supports.
- 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 2 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 50m<sup>2</sup> without expansion joints (dependant on design). 5mm expansion joints should be used on areas over 50m<sup>2</sup>. For further information regarding placement of expansion joints for your design, please contact your Allco Representative.
- Plywood is screw-fixed with 10g x 50mm SS counter-sunk screws at 150mm centres on all sheet edges and at 200mm centres through the body of the sheet. All screws to be countersunk 1-2mm.
- Provide minimum 20mm x 20mm fillets at the base of all upstands.
- 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 18% moisture content.
- Please ensure you have clearly ordered the correct membrane, colour and thickness for your project.
- For Roofs and Roof Decks over living spaces, all cavities must be ventilated and insulated in compliance with clause H1 NZBC. - 1 vent for the first 40m<sup>2</sup> and one for every 50m<sup>2</sup> thereafter. Cavity ventilation is not required for a Warm Roof system which meets or exceeds the minimum R value requirements.
- All drains and outlets are membrane compatible.
- Minimum fall for Roofs and Decks 0.8° (1:80 or 12.5mm/mt) and Internal gutters 0.5° (1:100 or 10mm/mt). Minimum finished falls must allow for construction tolerances, deflection, building settlement and with no back fall.

### NOTES

- Cover the substrate to keep it dry, ensuring the waterproofing membrane can be installed when needed.
- Communicate early with your Allco Approved Applicator or your Allco Representative the project scheduling to ensure weather exposure is kept to a minimum.
- Correct substrate installation is critical to the durability and performance of the membrane.
- Failure to strictly comply with substrate specification may affect the product warranty.
- All construction should comply with the New Zealand Building Code. Contact your local council for further details.
- Communication between the Applicator and Construction Company will assist to ensure this specification is met

**If you have a query regarding this substrate checklist, please contact Allco.**