



Welcome to 40 years of waterproofing history in New Zealand and the Asia Pacific Region.

History has shown us that if a job fails, the root cause is often the membrane being laid on top of a badly constructed substrate. This general guide has been developed to assist builders to construct substrates which will function well beneath a Nuralite membrane system.

Being a guide, the project specifications take precedence over this checklist, so they should be consulted carefully before commencing work.

Any questions should be directed to your applicator or Nuralite technical support on 0800 Nuralite or 09 579 2046.

Things to note generally are;

Minimum Falls 1:30/2° for roofs

1:40/1.5° for decks 1:100/0.5° for gutters

(Seek better than minimum falls if possible)

1. DECK SURFACE - PLYWOOD

- a. The top surface of the plywood should be sanded and plugged, to a minimum standard of C.
- b. Plywood substrate must be 17mm thick for roofs, 21mm thick for decks, and must be treated (CCA) H3.2 grade. Do not use LOSP-treated (light organic solvent preservative) or CuN treated (copper nitrate) plywood.
- c. Roofs and decks must be supported at 400mm centre maximum (including noggins & rafters), plywood sheets must be laid across supports and joints staggered (brick pattern), unless otherwise specified.
- d. Sheets must be glued and then fixed with Grade 316 Stainless Steel 10 gauge countersunk screws.

Screw edges every 150mm} about 20mm from the edges Screw centres every 200mm} throughout the plywood sheet

e. Joints butted, upstands filleted, edges arrised, drainage outflow details rebated.

2. <u>DECK SURFACE – CONCRETE (TRUE IN PLANE, WOOD FLOAT SURFACE)</u>

- a. Minimum cure 28 days. Curing membranes removed.
- b. Upstands filleted, edges arrised, drainage outflows rebated.

3. DECK SURFACE - ENERTHERM

- a. Ensure there are no gaps between sheets or around penetrations
- b. Enertherm fastened with the correct quantity of IKOfix Telescopic Fixing Plates and Fixing Screws (5 per sheet normally, 10 per sheet in Extra High wind zones).





Plywood Substrate

| Project Name: | |
|---|--|
| Form Completed by: | |
| Company: | |
| Area ready: | |
| Applicator | |
| CCA H3.2 treated plywood sheets used, 17mm thick for roofs, 21mm thick for decks. | |
| Plywood sheets supported by joists and nogs at maximum 400mm centers in both directions, unless specified otherwise. | |
| Sheets stagger lay (fully offset) with the face grain at right angles to the primary supports | |
| All sheet edges supported by nogs, fixed 150mm on edges and 200mm through girth, edges butt-jointed with no gaps except at abutments. | |
| Sheets glued in place and then fixed using 316 grade Stainless Steel 10 gauge countersunk screw fixings. | |
| All decks and gutters have correct falls once installed. | |
| Fillets installed to all internal junctions and neatly fitted with mitres neatly formed. | |
| Rainwater outlets and overflow recesses formed to fit outlets rebated into the surface. | |
| 5mm clearances from all abutments, 5mm radius to all exposed edges. | |
| Sharp edges and lips removed and cavities filleted. All joints flush. | |
| Substrate dry, clean, firm and suitable condition for laying . | |
| Notes | |
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| | |

Signed:

Date:





Concrete Substrate

| Project Name: | | |
|---|--|--|
| Form Completed by: | | |
| Company: | | |
| Area ready: | | |
| Applicator | | |
| Concrete cured and th | oroughly dry over a minimum of 28 days. | |
| Surface smooth and cl | ean with correct drainage falls. | |
| Cavities and cracks fille | ed with repair mortar, flushed off and cured. | |
| Concrete surface firm | with any soft concrete or laitance removed. | |
| Roof drains and overflo | ow recesses formed to fit rebated outlets. | |
| Mortar or Profili bitume to all external edges | en fillets to all upstands and smooth 5mm radius | |
| If terminating into a cl straight and 20mm de | nase, pre-form the chase and ensure it's ep. | |
| Plinths formed for any | exterior ventilation, fixtures or similar. | |
| Substrate clean, firm a | and suitable condition for laying the Nuralite system s. | |
| Notes | | |
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| Signed: | Date: | |





Enertherm Substrate

| Project Name: | | |
|---|---|--|
| Form Completed by: | | |
| Company: | | |
| Area ready: | | |
| Applicator | | |
| Dimond NPM 900 shee | et installed with the narrow trough down | |
| Fastening the NPM 90 | 0 sheet in the pan with 6 fasteners per purlin support. | |
| Support purlins or raft | ers may be spaced at 2.3m at the end and 3.4m internally. | |
| If using timber suppor timber and metal tray. | ts under NPM900, installed bitumen tape between | |
| If specified, Vapour Ba Enertherm sheet. | arrier installed over substrate and wraps up onto | |
| Enertherm sheets stag | ger lay (fully offset) with correct falls and no ponding. | |
| Confirm the substrate | slope complies with specification. | |
| Rainwater outlets and surface. | overflow recesses formed to fit outlets rebated into the | |
| Ensure only approved | accessories to be used for drainage and venting. | |
| Review penetrations to | o minimize number and complexity. | |
| Any gaps in the insula | tion filled to prevent thermal bridging. | |
| | the correct quantity of IKOfix Telescopic Fixing Plates per sheet normally, 10 per sheet in Extra High wind zones). | |
| Plinths formed for any | exterior ventilation, fixtures or similar. | |
| Substrate clean, firm a | and suitable condition for laying the Nuralite systems. | |
| Notes | | |
| Signed Builder: | Date: | |
| Signed Applicator: | Date: | |
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