

2. SUBSTRATE – NEW CONCRETE (TRUE IN PLANE, WOOD FLOAT SURFACE)

- a. Design Falls 1:60/1° for roofs or decks (Note 1)
 1:100/0.5° for gutters
- b. Concrete substrate contains less than 5% moisture content (measured with a calibrated concrete moisture meter) and curing membranes removed.
- c. Upstands filleted, edges arrised, drainage outflows rebated.
- d. Surface clean and dry.

3. SUBSTRATE – NEW NPM900 METAL TRAY SURFACE

This is the quickest and most cost effective substrate to install.

- a. Design Falls 1:40/1.5° for roofs or decks (Note 1)
 1:100/0.5° for gutters
- b. Supporting rafters spaced as per specification (varies depending on NPM900 gauge).
- c. Enertherm sheets stagger lay (fully offset) with correct falls and no ponding.

4. EXISTING SUBSTRATE

When used on existing projects, it is the responsibility of the property owner to have the structure and substrate assessed by a qualified expert and approved by Nuralite Waterproofing Ltd. For this Codemark to be applicable the substrate material is limited to only those approved within this manual. Attention must be paid to the substrate surface to ensure it has not deteriorated to the point of being unsuitable.

- a. Design Falls 1:60/1° for roofs or decks (Note 1)
 1:100/0.5° for gutters

Note 1: Roofs must have a minimum finished fall of 1:80.

For design purposes, a minimum 1:40 finished fall should be assumed for plywood and metal substrates or 1:60 for concrete. If lower falls are required Nuralite will issue a Producer Statement following detailed analysis of the roof including its size, location, overall and local deflection, direction of falls, etc.

New Plywood Substrate Readiness Checksheet

Project Name: _____

Form Completed by: _____

Company: _____

Area ready: _____

Applicator _____

Fax Number: _____

Structure complies to the New Zealand Building Code and plywood complies with AS/NZ 2269

H3.2 CCA treated plywood sheets 17mm thick for roofs, 21mm thick for decks.

Plywood sheets supported at 600mm centred rafters and nogs for roofs and decks. Unless otherwise specified.

Sheets stagger lay (fully offset) with falls as per plan.

5mm clearances from all abutments, 5mm radius to all exposed edges.

All sheet edges supported, fixed 150mm on edges and 200mm through girth, edges butt-jointed with no gaps except at abutments.

Sheets fixed by gluing and Stainless Steel countersunk screw fixing.

Fillets installed to all internal junctions and neatly fitted.

Mitres neatly formed.

Rainwater outlets and overflow recesses formed to fit outlets rebated into the Surface.

Sharp edges and lips removed and cavities filleted. All joints flush.

Plinths formed for any exterior ventilation, solar panels or fixtures.

Substrate dry, clean, firm and suitable condition for laying .

When substrate is ready complete this form and fax to the Nuralite applicator

Notes

Signed by head contractor

Date:

New Concrete Substrate Readiness Checksheet

Project Name: _____

Form Completed by: _____

Company: _____

Area ready: _____

Applicator _____

Fax Number: _____

Structure complies to the New Zealand Building Code and concrete complies with NZS 3101 (2006)

Concrete cured with curing membranes removed. Concrete substrate contains less than 5% moisture content.

Surface smooth and clean with falls as per plan.

Cavities and cracks filled with repair mortar, flushed off and cured.

Concrete surface firm with any soft concrete or laitance removed.

Ponding areas removed.

Roof drains and overflow recesses formed to fit rebated outlets.

Mortar or Profili Bitumen fillets to all upstands and smooth 5mm radius to all external edges

If terminating into a chase, pre-form the chase and ensure it's straight and 20mm deep.

Plinths formed for any exterior ventilation, solar panels or fixtures.

Construction joints incorporated in slab as per designers specification.

Substrate clean, firm and suitable condition for laying the Nuralite systems.

When substrate ready complete this form and fax to the Nuralite applicator

Notes

Signed by head contractor

Date:

New ENERTHERM Substrate Readiness Checksheet

Project Name: _____

Form Completed by: _____

Company: _____

Area ready: _____

Applicator _____

Structure complies to the New Zealand Building Code

Sheets stagger lay (fully offset).

Confirm the substrate slope complies with plans.

Rainwater outlets and overflow recesses formed to fit outlets rebated into the surface.

Ensure only approved accessories to be used for drainage and venting.

Review penetrations to minimize number and complexity.

Any gaps in the insulation filled to prevent thermal bridging.

Material 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).

Edges of insulation supported by metal sheet ridges

Plinths formed for any exterior ventilation, solar panels or fixtures.

Substrate clean, firm and suitable condition for laying the Nuralite systems.

When substrate ready complete this form and fax to the Nuralite applicator

Notes

Signed by head contractor

Date:

Existing Roof Substrate Readiness Checksheet

Project Name: _____

Form Completed by: _____

Company: _____

Area ready: _____

Applicator _____

The structure and substrate assessed in writing by a suitably qualified person

Confirm the substrate is suitable with no signs of deterioration in the form of rust or rot.

Cladding, doors and windows removed to allow upstands to be formed.

Confirm the substrate slope exceeds minimum requirements unless approved by Nuralite for this specific project.

Rainwater outlets and overflow recesses formed to fit outlets rebated into the surface.

Ensure only approved accessories to be used for drainage and venting.

Review penetrations to minimize number and complexity.

Plinths formed for any exterior ventilation, solar panels or fixtures.

Substrate clean, firm and suitable condition for laying the Nuralite systems.

When substrate ready complete this form and fax to the Nuralite applicator

Notes

Signed by head contractor

Date:

Project Sign-off Form

Project Name: _____
 Builder Firm: _____
 Applicator Firm: _____
 Area covered by QC Sheet _____

Roofing membrane installation item	Comply Y/N/Na	Comments
Substrate readiness form completed		
Underflashings installed to all corners and upstands (pay attention to parapets, gutters, junctions)		
Gutters correctly and neatly installed, particularly the internal corners		
Roof drains & overflows installed to specification and watertight		
Membrane adequately adhered to substrate with no evidence of bubbles or lifting. Correct quantities of primer or adhesive used as per specification.		
Cap sheet and basesheet fully bonded together, no areas of delamination.		
Cap sheet side laps 80mm and end laps 100mm fully welded and tidily seamed off.		
No sign of overheating/excessive bitumen bleed from laps (over 2-3mm).		
Cap sheet and base sheet laps offset satisfactorily. No three layer lap build-ups		
Overall installation free of wrinkles, creases and splits		
Nuravents installed to specification.		
All penetration details completed to specification including under/overflashing		
Standard details used throughout including at upstands, parapets, construction joints		
All non standard details installed as per pre-approved specifications (attach approved drawing)		
Gutters and outlets have been floodtested		
Any damage to cap sheet repaired to specification.		

Note: Where an element identified in the above checklist is not applicable, please record N/A in the comply column.



**NURAPLY 3PM ROOFING MEMBRANE
INSTALLATION CHECKLISTS**



Project Sign-off Form cont.

Remedial action required:

Note of damaged areas repaired:

Signed Builder _____
Date: _____

Signed Applicator _____
Date: _____