DRISPACE

DRISTUD RU22 & RU24 ROOF UNDERLAY

NON-FIRE RETARDANT, SELF-SUPPORT, SYNTHETIC ROOF UNDERLAY

REV 4.0 AUGUST 2023

OVERVIEW

DriStud RU24 and DriStud RU22 are non-fire retardant, self-supporting synthetic roof underlays intended to be used as an alternative to conventional kraft based roof underlays.

Once installed, these underlays serve as a secondary protective layer for roof framing, enhancing weather resistance. Additionally, they provide an air-impermeable barrier behind the roof cladding. These layers play a crucial role in the internal moisture management systems for roofs and roof cavities.

When roof underlays are in contact with roof cladding, it gets cold. Its absorbent properties effectively manage condensate. However, without passive ventilation it can lead to moisture issues including mould and mildrew growth in the roof cavity. For tray roofs, it is higly recommended the underlay is separated from the roof cladding using 10mm VB10 ventilation and drainage batten or Drainage mat to defer the dew point condenstaion from the roof cladding.

Refer to DriSpace Moisture Management Design Guide for more passive roof ventilation details.

- DriStud RU24 is nominal **170 gsm, black faced underlay**
- DriStud RU22 is nominal **145 gms, grey faced underlay**

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DRISPACE
A DIVISION OF TCL HUNT

DriStud™

CodeMark CERTIFIED
CMNZ70021

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WIND ZONES

Suitable in Wind Zones up to and including "Extra High" as defined in Section: 5, NZS 3604: 2011.

OVERLAPS/ SUPPORT

Printed imagery on all DriStud Roof Underlays must be facing outward with the minimum number of overlaps as possible. A minimum lap of 150mm is required for both vertical and horizontal overlaps. Upper sheets must be lapped over the lower sheets to ensure water is shed to the outer face of the underlay. DriStud RU24 & RU22 must not span more than 1.2m between adjacent supports.
DriStud RU24 & RU22 must NOT be installed where Fire Retardant underlay is specified.
DriStud RU24 & RU22 will provide temporary weather protection for up to 7 days and can be exposed to wet weather during installation. DriStud RU24 & RU22 must be supported on netting or safety mesh if used:

- On roof pitches less than 10° with vertical installation.
- If the support spacing is greater than 1200mm.

SAFETY

- The installer shall take all precautions to reduce work hazards.
- The installer of DriStud roof underlays is required to comply fully with Health and Safety in Employment Act 2002.
- Appropriate clothing, safety footwear and hand and face protection must be used in all cases.
- Safety scaffold and barriers must comply with the requirements of the Health and Safety in Employment Act 2002.

FIXINGS

DriStud RU24 & RU22 must be fixed at maximum 300mm centres to all framing members with either 6-8mm staples or 20mm long large head clouts, or proprietary underlay fixings. If metal roof cladding is directly fixed straight onto the underlay, its fixings can replace the underlay fixing requirements.

ROOF PITCHES >10°:

If installing on a roof with a pitch greater than 10° then DriStud roof underlays may be installed either horizontally or vertically.

ROOF PITCHES ≤10°:

If the roof pitch is less than 10° self-support roof underlays can be installed horizontally an vertically. Horizontal installation is recommended over vertical installation where possible.
For vertical installation under 10° pitch roof, DriStud RU24 & RU22 must be installed over a supporting netting or equivalent system on a minimum side lap of 150mm. The netting and underlays must be installed flat and taut to ensure condensation will drain to the gutter. If any doubts vertical laps are recommended to be sealed with 75mm wide DriStud Cool Window Flashing Tape or DriStud Joining Tape to ensure it.

As an alternative solution, DriStud RU24 & RU22 may run horizontally with the higher layers sitting on top of the lower layers down to roof pitches of minimum 3° without supporting netting. The underlay must be installed flat and taut to ensure condensation will drain to the gutter. At the eaves, the roof underlay should be laid over the top of the fascia and project 20-33mm into the gutter.

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LIMITATIONS OF USE

For unlined structures, FRU38 should only be installed in areas where it is not exposed to UV or reflected UV light and must be kept away from fumes. The DriSpace warranty does not cover unlined structures with UV or fume exposure.

For further details, refer to the MRM code of practice or consult with industry experts or designers.

SCOPE OF USE

FRU38 roof underlay is designed for use in lined buildings and dwellings, including residential, commercial, and office roofs.

WHO CAN INSTALL

Where DriStud roof underlays are used for new construction or in connection with a building consent the work should be undertaken or supervised by a Licensed Building Practitioner (LBP) where restricted building work applies. Alternatively, the installer shall have the suitable skills when installing DriStud roof underlays.

LONG RUN PROFILED METAL ROOF CLADDING

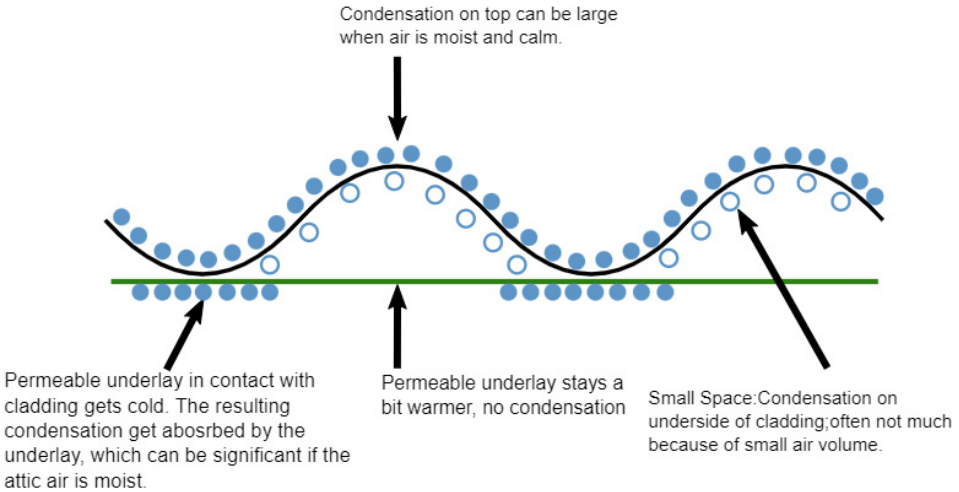
DriStud RU24 & RU22 must be installed over the purlins by fixing to the purlins on both edges by the roof fastenings. For horizontal laying, underlay must fit tightly and be lap-taped around all penetrations to provide drainage for condensation, and be free of tears, rips, and punctures. The purlin spacing must be 150mm less than the width of the underlay. If it exceeds this spacing it must be laid vertically.

COLD ROOF DESIGN RECOMMENDATIONS: INSTALLED UNDER LONG RUN METAL ROOFING

- Have a minimum air gap of 25mm between the underlay and any insulation.
- Use sufficient ventilation for air flow to minimize interstitial condensation.
- Install VB10 or HC9 EnkaVent to create an air gap between the metal cladding and synthetic underlays where condensation risks are high, i.e tray or trapezoidal roofs.

CONDENSATION MANAGEMENT

MRM Code of Practice v24.03 - 10.11A Roof Cavity Condensation



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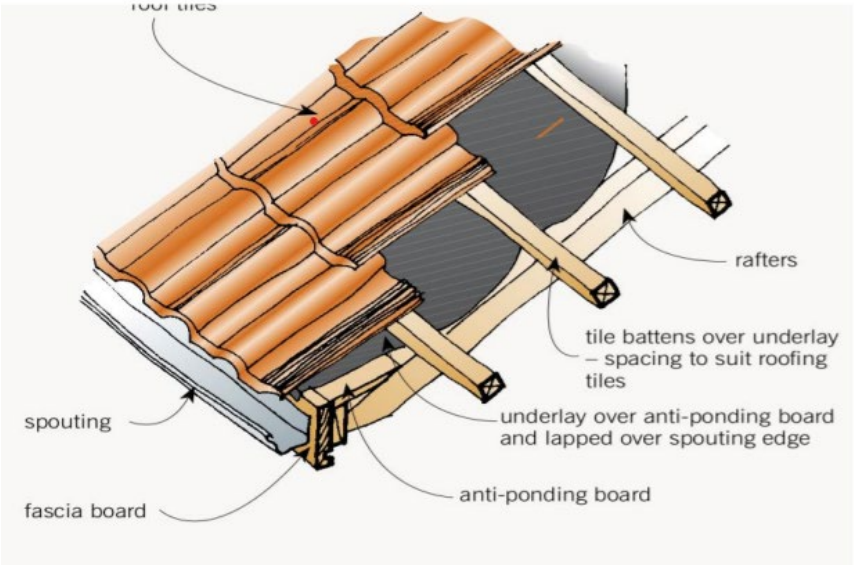
CONCRETE AND METAL TILE ROOF CLADDING

DriStud FRU38 must be installed under the battens but over the rafters/top truss chords. Anti-ponding boards should be installed at the eaves to prevent the underlay sagging with a minimum fall of 5°.

Installation Under Concrete and Metal Tile Roof



DESIGN RECOMMENDATIONS

- Have a minimum air gap of 25mm between the underlay and any insulation.
- Use sufficient ventilation to minimize condensation.
- Use air gap between the metal cladding and synthetic underlays where condensation risks are high.

MAINTENANCE

DriStud roof underlays do not require any maintenance but when exposed through removal or roof cladding, the underlays must be inspected, and any damaged areas repaired or replaced.

WARRANTY

TCL Hunt Ltd warrants that all DriStud roof underlays will be free from manufacturing defects. Upon receiving DriStud roof underlays, it is recommended that a visual check is made. Where defects are observed, these will be replaced at the discretion of TCL Hunt, provided they are returned to point of purchase. If installed in accordance with TCL Hunt installation requirements, TCL Hunt warrants that DriStud roof underlays will comply all relevant provisions of the NZ Building Code. DriStud FRU38 roof underlay will have a serviceability life equal to that of the roof cladding provided that:

- The balance of the external wall is installed in accordance with the NZ Building Code, and,
- All necessary maintenance is undertaken in respect of the external wall system.

Please refer to DriSpace website www.drispace.co.nz for more information on warranty and disclaimer.