

# DriStud FRU 38 Installation Guide

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## ***Fire Retardant, Self-Support, Synthetic Roof Underlay***

DriStud FRU 38 is a Fire Retardant, Vapour Permeable, Self-Supporting Synthetic Roof Underlay. DriStud FRU 38 can be used where both heavy weight and/or self-support roof underlay is specified. Once installed it creates a secondary protective weather resistant layer for roof framing (truss or rafter) and provides an air-impermeable layer behind the roof cladding; these layers are essential elements required in the moisture management system for Roofs.

DriStud Roof Underlays can be installed to all roof framing (Timber or Steel) on new buildings that comply with the NZ Building Code. When installing DriStud Roof Underlays to an existing building; the structure must be assessed and confirmed by the designer and installer that the product is adequate for the required job.

**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 amount of overlaps as possible. When overlapping is unavoidable with both vertical and horizontal applications; a minimum lap of 150mm is required. Upper sheets must be lapped over the lower sheets to ensure water is shed to the outer face of the underlay. DriStud FRU 38 must not span more than 1.2m between adjacent supports.

### **INSTALLATION**

DriStud FRU 38 will provide temporary weather protection for up to 20 Days and can be exposed to wet weather during installation however we suggest the roof cladding is installed the same day where possible.

DriStud FRU 38 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.

*It is recommended that DriStud FRU 38 is supported when it is used under dark coloured long run Metal Cladding.*

### **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.

**≤10°:** If the roofs pitch is less than 10° self-support roof underlays can be installed horizontally and vertically. Horizontal installation is recommended over vertical installation whereas possible.

For vertical installation under 10° pitch roof, DriStud FRU38 must be installed over a supporting netting or equivalent system on a minimum side lap of 150 mm. 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 solutions, DriStud FRU38 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 has to 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 20-30 mm into the gutter.

## FIXINGS

DriStud FRU38 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.

## LONG RUN PROFILED METAL ROOF CLADDING

DriStud FRU 38 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.
- Use air gap between the metal cladding and synthetic underlays where condensation risks are high.

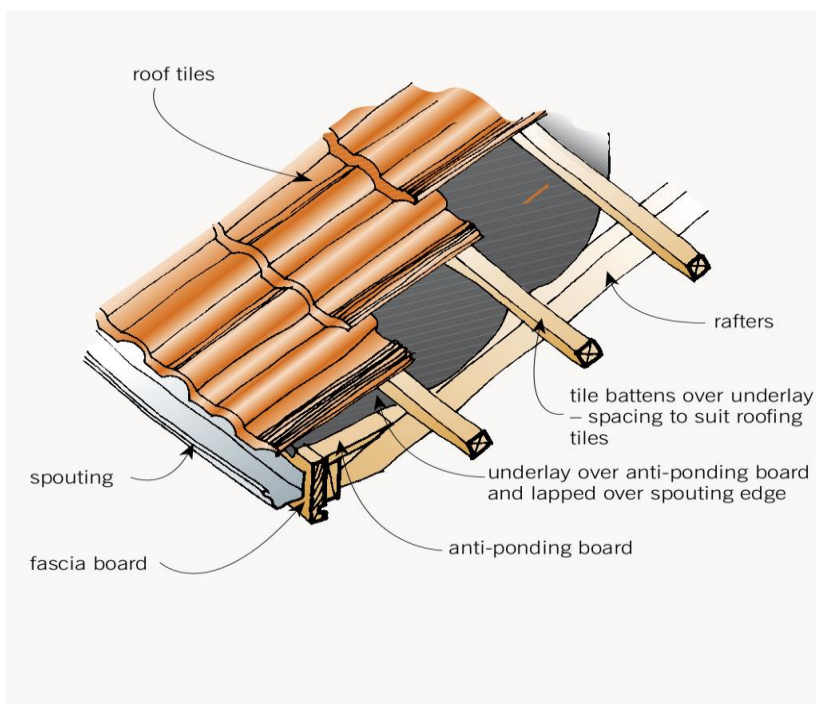
## WARM ROOF Design Recommendations: used in conjunction with PIR insulation

- Dristud FRU38 has been designed to be installed directly on PIR insulation within warm roofing systems. There is no requirement for a 25mm air gap between the underlay and insulation when a correctly designed vapour control layer is used in the correct location within the warm roofing system.
- When a vapour control layer is not being used within a warm roofing system, a ventilation gap is required, since internal moisture may migrate into the roofing system.

## CONCRETE AND METAL TILE ROOF CLADDING

DriStud FRU 38 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



### Who can install DriStud Roofing Underlays?

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.

### Maintenance

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

### 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

### Warranty

TCL Hunt Ltd warrants that all DriStud roof underlays will be free from manufacturing defects. Upon receiving of 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 that 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 with all relevant provisions of the NZ Building Code. DriStud FRU 38 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.