



DRISTUD W11 WHITE FACED SYNTHETIC FOIL

PREMIUM WHITE-FACED FIRE RETARDANT SYNTHETIC FOIL

OVERVIEW

DriStud W11 is a fire-retardant, self-supporting white-faced foil that provides vapour and water control.

CodeMark™ Certified, it is designed for commercial and industrial buildings, sports stadiums, and warehouse facilities where a white interior finish is required.



FEATURES

- Titanium white finish for high light reflectance and white diffusion
- High tear resistance, superior stiffness and printed 150mm lap lines for ease of installation
- Fire retardant (Flammability Index 1)
- Self-supporting construction
- Water and vapour barrier

SCOPE OF USE

- Suitable for use as a roof underlay beneath profiled metal roof cladding on roof pitches of 3° or greater in commercial and industrial buildings.
- Suitable for use in **unlined** commercial and industrial buildings.
- Suitable for installation over timber or steel roof framing systems.
- Suitable for use in NZS 3604 wind zones up to and including Extra High.
- Provides thermal, and/or air and vapour control layer when installed in accordance with AS/NZS 4200.2.
 - **Thermal Control:** Maintain a minimum 20mm adjacent air space where thermal performance is required. 20mm VB20 battens may be used to provide the required air space.
 - **Air & Vapour Control:** Tape all laps, penetrations and junctions with either Cool Tape or HighTack Plus tape to maintain a continuous air and vapour control layer. Seal to adjoining building elements.
- Intended for use beneath profiled metal roof cladding where the roof system design provides ventilation, moisture, condensation and thermal management appropriate for intended building use.

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PRODUCT TECHNICAL STATEMENT

FIRE SAFETY DESIGN: C/AS2, 4.17.8

DriStud W11 is classified as suspended flexible fabrics and membrane structures and has a FR index of 1 when tested to AS 1530 Part 2. Therefore, it meets the requirements NZBC. According to C/VM2 4.7, C3.4(c), W11 can be used in the following locations;

- a. Suspended flexible fabrics used

as underlay to exterior cladding or roofing, when exposed to view in all occupied spaces excluding household units.

- b. Exit ways from spaces where people sleep.
- c. All occupied spaces within crowd uses.

CONDITIONS & LIMITATIONS

- For unlined commercial and industrial applications only. Not suitable for residential buildings.
- Not suitable for applications where the white surface is intended to remain directly exposed to sunlight as part of the completed building design, including soffits and canopies, or where the product is installed beneath translucent or clear roof sheeting, including sky lights and roof lights.
- The presence of roof lights, skylights, or glazing within a building is acceptable, provided the product is not exposed to direct sunlight or UV radiation during its service life.
- The roof cladding should be installed on the same day as DriStud W11 installation.
- Prolonged exposure to dust may result in staining of the white surface.
- Products must not come in contact with wet concrete. Concrete works should be completed prior to installation where practical.
- The suitability of DriStud W11 for the intended application and environment shall be assessed by the designer, industrial processed and site-specific conditions that may degrade the product over time, including vehicle exhaust fumes and other sources concentrated contaminants, must be considered.
- Where DriStud W11 is installed in direct contact with roof cladding, the designer shall consider potential for condensation and any project-specific requirements for condensation.

DESIGN CONSIDERATIONS

- Where enhanced long-term durability is sought, an air space between the roof cladding and DriStud W11 may be considered to reduce heat transfer from the roof cladding.

TECHNICAL DATA

Product Properties	Test Method	Results
Total Weight		190 ± 5 g/m ²
Flammability Index	AS1530.2 - 1993	Low (FR Index: 1)
Roll Size		1350mm x 56m (75sq)
Emittance	AS/NZS 4200.5:2017	>0.05 to ≤0.15 (Membrane Emittance Categories: SN)
Resistance to water penetration	AS/NZS 4201.4:2017	Water Barrier
Vapour Control Membrane	ASTM E96	Vapour Barrier (Class 2)
Durability	B2.3.1 (b)	15 Years

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INSTALLATION

1. DriStud W11 shall be installed in accordance with AS/NZS 4200.2.
2. The metal roof cladding should be installed on the same day as the DriStud W11.

ROOF INSTALLATION

1. Install W11 with the white surface facing the building interior.
2. DriStud W11 can span up to maximum of 1200mm without support. For low pitch roofs (less than 10°) DriStud W11 must be supported. Safety mesh, where used, shall be installed in accordance with AS/NZS 4389:2015 regardless of roof pitch.
3. DriStud W11 may be installed horizontally or vertically and shall be installed taut and free from sagging between supports.
4. Side and end laps shall be a minimum of 150mm. For roof applications the laps are supported by purlin, batten or mesh.
5. Additional fixings may be required to maintain overlaps prior to batten installation.
6. Where control of condensate dripping is required, drainage battens may be installed between DriStud W11 and the roof cladding. Maintain clear drainage paths and ensure overlaps are installed uniformly and sealed where required.
7. Where W11 is used as a thermal control layer, maintain a minimum of 20mm adjacent air space between the reflective surface and the roof cladding. VB20 battens may be used to provide the required air gap.
8. Where used as an air and vapour control layer, all laps, penetrations and junctions should be sealed using DriStud Cool Tape, or High Tack Plus tape.

WALL INSTALLATION

1. Install DriStud W11 horizontally across the frame or vertically from top to bottom plate.
2. Make sure the upper sheets lap over lower sheets by no less than 150mm where applicable.
3. Fix rightly and adequately to framing members.

MAINTENANCE

DriStud W11 does not require any maintenance but when exposed through removal of roofing materials, it is recommended that the underlay be inspected, and any damaged areas repaired or replaced.

STORAGE & TRANSPORTATION

DriStud W11 rolls must be stored in a clean, dry place and must be protected from damage and weather.

QUALITY ASSURANCE

The manufacture of DriStud W11 is ISO9001:2008 certified by Q.A. International Certification Limited (No. QAIC/KR/6001-A) on 20 January 2015. TCL Hunt is also ISO9001:2008 certified by International Certifications (No. C32413) on 5 December 2013.

WARRANTY

Please refer to DriSpace website www.driskpace.co.nz for more information on the warranty conditions.

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