

# Residential Systems



**APRIL 2021**





DriSpace is a division of TCL Hunt, a New Zealand company whose origin dates back to 1937.

DriSpace offers a range of comprehensive ventilation systems, aimed to resolve the internal moisture problem plagues New Zealand buildings.

The DriSpace systems are created by combining high vapour permeable DriStud roof and wall underlays, with VENT passive ventilation products and/or Proctor technical membranes. These products, are engineered specifically for New Zealand weather conditions and provide a complete solution. All products are sold through building merchants and roll-formers throughout the country.

TCL Hunt has a Quality Management System which includes ISO 9001 certification. That said, there is no finish line in business, so all staff are committed to the process of continuous improvement, relishing the challenge to always provide best practice solutions, with products and services that build trust and maintain customer confidence and loyalty.

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## Benefits

### BUILD TIGHT, VENTILATE RIGHT

DriSpace systems consist of DriStud wall and roof underlay and Cool Window Flashing tape, Vent products and Proctor brand specialised construction membranes. The systems aim to achieve 'build tight and ventilate right'.

The systems provide solutions to improve NZ buildings by providing an air barrier envelope but allowing our buildings to breathe again. It is essential that buildings achieve balanced airflow through both the habitable and non-habitable areas before they can start to be considered as a healthy home or a healthy working environment. Using the principle, "If you heat and insulate and don't ventilate, you will condensate". DriSpace systems introduce passive ventilation in the roof space to minimise interstitial condensation.

### BENEFITS TO BUILDING AND HOME OWNERS

- Protection against moisture penetration, whilst restricting air movement.
- Creating healthier and more energy-efficient envelopes
- Vapour permeable and air barrier properties
- Cost effective and high performing system components
- Minimise interstitial condensation and mould growth

### BENEFITS TO BUILDERS

- Cost effective moisture protection system
- Easy and fast to handle and install
- Complies with NZBC requirements
- High performing, strong and durable products
- Wide range of products covering from roof to wall

### BENEFITS TO DESIGNERS

- System specification
- Tested for NZ conditions for water resistance, air barriers and vapour permeability
- CodeMark™ Certified for DriStud product range
- BRANZ appraised for Vent NZ product range
- Complies with AS/NZS 4200 for Proctor product range
- Minimises interstitial condensation and mould growth in the roof cavity

## NZBC Compliance

| NZBC COMPLIANCE                                       | DRISPACE RESIDENTIAL SYSTEM |                        |                        |                              |                        |   |                             |
|---|-----------------------------|------------------------|------------------------|------------------------------|------------------------|---|-----------------------------|
|   | Wall Underlay               |                        | Window Flashing Tape   | Fire Retardant Roof Underlay | Roof Underlay          | Ventilation   |                             |
|   | DriStud Wall Wrap           | Proctor Wraptite SA    | DriStud Cool Tape      | DriStud FRU38                | DriStud RU24           | VB20, RV10P, RV10DT, RV10P-Half, RV10DT-Half, G2500N, G1200N, G1275, G502 | ProctorGeo HC9 Drainage Mat |
| <b>B1 Structure</b>                                   |                             |                        |                        |                              |                        | B1.3.1, B1.3.2, B1.3.4, B1.3.3 [b], [h] and [j]                           |                             |
| <b>B2 Durability</b>                                  | B2.3.1 [a], B2.3.2 [a]      | B2.3.1 [a], B2.3.2 [a] | B2.3.1 [b], B2.3.2 [a] | B2.3.1 [a], B2.3.2 [a]       | B2.3.1 [a], B2.3.2 [a] | B.2.3.1 [b], B2.3.2   | B.2.3.1 [b], B2.3.2         |
| <b>C3 Fire Affection Areas Beyond the Fire Source</b> | C3.4[c]                     | C3.4[c]                |                        | C3.4[c]                      |                        |   | C3.4[c]                     |
| <b>E2 External Moisture</b>                           | E2.3.2, E2.3.7              | E2.3.2                 | E2.3.2, E2.3.7         | E2.3.2, E2.3.7               | E2.3.2, E2.3.7         | E2.3.2  | E2.3.2                      |
| <b>E3 Internal Moisture</b>                           |                             |                        |                        |                              |                        | E3.2 [c]  | E3.2 [c]                    |
| <b>F2 Hazardous Building Materials</b>                | F2.3.1                      | F2.3.1                 | F2.3.1                 | F2.3.1                       | F2.3.1                 | F2.3.1  | F2.3.1                      |



## Design considerations

### BEWARE OF SUBSTITUTION

All DriSpace systems have been developed, assessed or appraised specifically for New Zealand. Accurate system design details, components and installation practices will ensure the performance of DriSpace systems is achieved. Substitutions are not permitted to any of the specified systems, components and products listed in this section.

### WARRANTY

TCL Hunt warrants that the products will be free from manufacturing defects. Upon receiving of the products, 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 the products will comply with relevant provisions of the NZ Building Code.

TCL Hunt is confident that:

- DriStud products will have a serviceability life of 15 years.
- Vent NZ products will have a serviceability life of 30 years.
- Proctor products will have a serviceability life of 10 years, provided that:
  - The balance of the external wall is installed in accordance with the NZ Building Code; and,
  - Is undertaken or supervised by a Licensed Building Practitioner; and,
  - All necessary maintenance is undertaken in respect of the external wall system.

Warranty shall commence from the date of practical completion of the contract works.

### SCOPE OF USE

DriSpace Systems are designed to provide a NZBC compliant DriStud flexible wall and roof envelope where they function not only as an air barrier but also as an effective secondary line of defence against water penetration into the building interior. The DriSpace Systems also introduce passive ventilation in the roof cavity and provide drained and ventilated cavity on wall to assist with minimizing moist air accumulation within the system and preventing mould growth.

DriStud Wall Wrap is intended for use in new and existing buildings in conjunction with DriStud Cool Window Flashing tape. DriStud Wall Wrap and Roof Underlay can be used over a rigid air barrier, or timber and steel framing to provide protective weather resistant layers. DriStud Wall and Roof Underlays can be installed with absorbent and non-absorbent cladding including profiled metal cladding.

Roof ventilation products are designed as non-structural roofing components that are designed to prevent the build up of internal moisture in roof cavities, mitigating associated risks such as structural decay and harmful moulds. Roof ventilation product combinations are determined based on the design and the pitch of the roof and can be used on both new build and renovation projects and on commercial, residential and school projects.

### DESIGN RESPONSIBILITY

It is the responsibility of the architect, designer or specifier to ensure that the correct DriSpace System is relevant to the intended applications.

*Note: Diagrams are for guidance purposes only. The overall design is the responsibility of the designer as there are often other factors to consider. The company maintains a policy of continuous development of its product range and reserves the right to amend the specification without notice.*

### LIABILITY

TCL Hunt accepts no liability if the DriSpace Systems are not specified and installed in strict accordance with instructions contained in this manual, or any other technical information associated with DriSpace Systems.

### DURABILITY

DriStud Wall Wrap, FRU38 and RU24 meet code compliance with NZBC Clause B2.3.1 [a], not less than 50 years for wall and roof underlays used where the cladding durability requirement or expected serviceable life is not less than 50 years, e.g. behind masonry veneer, and code of compliance with NZBC Clause B2.3.1[b], 15 years for wall and roof underlays used where the cladding durability requirement is 15 years.

The roof ventilation products will have a durability equivalent to that of the roof cladding to meet code of compliance with NZBC Clause B2.3.2 provided the cladding system is maintained appropriately and the roof ventilation products are continually protected from UV light.

### MAINTENANCE & REPAIR

No special maintenance is required for products specified in DriSpace systems. Regular checks, at least annually, must be made to the roof cladding, flashings, and penetrations to ensure they are maintained weathertight and continue to perform their function, to ensure the water will not penetrate the cladding.

### STORAGE

Store building products and accessory materials under conditions that ensure no deterioration or damage. Store rolls in an upright position on a smooth floor, or lay horizontally on pallets, protected from sunlight, UV radiation and moisture.

### INSPECTION

Before starting work, check that the building construction phase will allow work of the required standard. Carry out remedial work identified before laying underlay.

### HEALTH & SAFETY

There are no harmful components in DriSpace Systems and no specific requirements other than normal safe handling practices associated with roll products.

There are no special requirements for the disposal of waste. Ensure safe working practices are always followed when handling and installing DriSpace Systems.

## Systems Summary Table

| ROOF MATERIAL | ROOF TYPE   | ROOF PITCH        | FIRE RETARDANT | SYSTEM SPECIFICATION CODE | PAGE |
|---------------|---|-------------------|----------------|---------------------------|------|
| BASE ROOF     |   |                   |                |                           |      |
|               | Trussed & Skillion  | 3° or above       |                | DS-RU2403-01              | 12   |
|               | Trussed & Skillion  | 3° or above       | ✓              | DS-FRU3803-01             | 13   |
| VENTED ROOF   |   |                   |                |                           |      |
| Steel Longrun | Trussed Roof  | 3° to <15°        | ✓              | DS-FRU3803-TLV            | 14   |
|               |   |                   |                | DS-RU2403-TLV             | 14   |
|               |   | 15° to <30°       | ✓              | DS-FRU3815-TLV            | 15   |
|               |   |                   |                | DS-RU2415-TLV             | 15   |
|               |   | 30° or above      | ✓              | DS-FRU3830-TLV            | 16   |
|               |   |                   |                | DS-RU2430-TLV             | 16   |
|               |   | 3° to <15° mono   | ✓              | DS-FRU3803-TMLV           | 17   |
|               |   |                   |                | DS-RU2403-TMLV            | 17   |
|               |   | 15° or above mono | ✓              | DS-FRU3815-TMLV           | 18   |
|               |   |                   |                | DS-RU2415-TMLV            | 18   |
|               | Skillion Roof   | 3° or above       | ✓              | DS-FRU3803-SLV            | 19   |
|               |   |                   |                | DS-RU2403-SLV             | 19   |
|               |   | 3° or above mono  | ✓              | DS-FRU3801-SMLV           | 20   |
|               |   |                   |                | DS-RU2401-SMLV            | 20   |
|               | Sarked Roof   | 3° or above       | ✓              | DS-FRU3803-SLD            | 21   |
|               |   |                   | ✓              | DS-PWSA03-SLD             | 21   |
| Pressed Tile  | Trussed Roof  | 15° to <30°       | ✓              | DS-FRU3815-TPV            | 22   |
|               |   |                   |                | DS-RU2415-TPV             | 22   |
|               |   | 30° or above      | ✓              | DS-FRU3830-TPV            | 23   |
|               |   |                   |                | DS-RU2430-TPV             | 23   |
| WALL SYSTEM   | SYSTEM TYPE   |                   |                |                           |      |
|               | Flexible wall underlay                                      |                   | ✓              | DS-FRWW01-DMC             | 24   |
|               | Flexible wall underlay on rigid wall underlay               |                   | ✓              | DS-FRWW01-RWU             | 27   |
|               | Self-adhering flexible wall underlay on rigid wall underlay |                   | ✓              | DS-PWSA01-WRS             | 29   |

## Products – Roof Underlay



### DRISTUD FRU38 ROOF UNDERLAY (CODEMARK™ CERTIFIED)

220 gsm fire retardant, self-support synthetic non-woven roofing underlay consisting of two spun-bonded polyolefin fabric layers laminated to a micro porous water resistant film. Designed for use as a water absorbent, vapour permeable, water resistant roofing underlay under masonry tiles, metal tiles or profiled metal roof claddings, on timber or steel framing. Suitable for direct fix with absorbent and non-absorbent cladding including metal cladding. Suitable for wind zones up to and including 'Extra High', as outlined in NZS 3604. Fire retardant to AS 1530.2 with flammability index of  $\leq 5$ , to NZBC C/AS1-AS7, meets the requirements for suspended fabrics.



### DRISTUD RU24 ROOF UNDERLAY (CODEMARK™ CERTIFIED)

170 gsm self support synthetic non-woven roofing underlay consisting of two spun-bonded polyolefin fabric layers laminated to a micro porous water resistant film. Designed for use as a water absorbent, vapour permeable, water resistant roofing underlay under masonry tiles, metal tiles or profiled metal roof claddings, on timber or steel framing. Suitable for direct fix with absorbent and non-absorbent cladding including metal cladding. Suitable for wind zones up to and including 'Extra High', as outlined in NZS 3604. RU24 can be used only where fire retardant underlay is NOT required.

ROOF UNDERLAY COMPARISON TABLE

| PROPERTY                                  | TEST METHOD          | REQUIREMENT                             | FRU38                                    | RU24                                     |
|---|----------------------|---|--|--|
| Construction                              |                      | Non-Woven / Breathable Film / Non-Woven | Yes                                      | Yes                                      |
| Base Weight                               |                      |   | 220 gsm                                  | 170 gsm                                  |
| Water Vapour Resistance                   | ASTM E96 Procedure B | $\leq 7\text{MN s/g}$                   | Vapour Permeable $\leq 0.5\text{MN s/g}$ | Vapour Permeable $\leq 0.5\text{MN s/g}$ |
| Absorbency                                | AS/NZS 4201: Part 6  | $\geq 150 \text{ g/m}^2$                | Pass                                     | Pass                                     |
| Direct Fixing with Non Absorbent Cladding |                      |   | Yes                                      | Yes                                      |
| Air Permeance                             | BS ISO 5636-5:2003   |   | Air barrier                              | Air barrier                              |
| Water Resistance                          | AS/NZS 4201.4:1994   | $\geq 100\text{mm H}_2\text{O}$         | Pass                                     | Pass                                     |
| Flammability                              | AS 1530.2:1993       | FR Index $\leq 5$                       | Fire Retardant (FR Index 1)              | Non-Fire Retardant (FR Index 9)          |
| Supported                                 |                      |   | Self Support                             | Self Support                             |
| Roof Pitch                                |                      |   | $>3^\circ$                               | $>3^\circ$                               |
| Wind Zone                                 |                      |   | up to and including 'Extra High'         | up to and including 'Extra High'         |
| UV  |                      |   | up to 20 days                            | up to 10 days                            |

## Products – Wall Wrap



### DRISTUD WALL WRAP (CODEMARK™ CERTIFIED)

DriStud Wall Wrap is engineered from resilient non-woven fabric and has a high resistance to moisture. It is perfectly suited for residential and commercial buildings where high-permeable moisture transfer is required. Fire retardant, air barrier, water resistant, absorbent and breathable, DriStud Wall Wrap is suitable for timber or steel framed buildings and suitable for direct fix with non-absorbent cladding and gable ends.

Tested to NZBC E2/AS1, 1.1, suitable for wind zones up to and including 'Very High' and 'Extra High' when used as a flexible underlay over a rigid wall underlay, as outlined in NZS 3604.



### PROCTOR WRAPTITE SA (COMPLIES WITH AS/NZS 4200.1)

Proctor Passive Wraptite SA can be installed on new and existing buildings and is suitable for roof and wall applications for residential, commercial and high rise buildings. Proctor Passive Wraptite SA's high vapour permeable peel and stick products used full coverage in pitched roofs and walls allow excellent drying capacity for assemblies wetting during construction and from typical in service leaks over the life-time of the building. Proctor Passive Wraptite SA can be installed over rigid air barrier, replacing tape and flexible underlay. It offers minimal mechanical fixings and provide greater integrity of installation and system. Wraptite SA's high vapour permeability allows damp sheathing to dry quickly and moisture to escape. This ensures good indoor air quality and reduces the likelihood of mould, condensation, timber distortion and metal corrosion.

## Products – Tape



### DRISTUD COOL WINDOW FLASHING TAPE (CODEMARK™ CERTIFIED)

Window sealing system to AAMA 711-13, can also be used for general sealing of wall penetrations including around the window frames. DriStud Cool Window Flashing Tape has a polymer adhesive with a service temperature range of -28°C to 80°C. CodeMark™ certified, suitable for residential or commercial, timber or steel framed buildings. Can be used with DriStud Wall Wrap and with rigid air barriers made of plywood, fibre cement and OSB. To NZS 3604 Building Wind Zones up to and including 'Extra High'. 381µm thick, and available in 3 widths, 75mm, 150mm and 200mm.



### DRISTUD JOINING TAPE

DriStud Joining Tape is a hand tearable joining tape, coated with a highly aggressive acrylic pressure sensitive adhesive (PSA) designed to use as a closure system and vapour seal on all interior and exterior sheathing materials. DriStud Joining Tape can be used for new construction as well as repair on all vapour barrier materials and vapour permeable wall and roof underlays.



## Products – Drainage Mat



### PROCTORGEO HC9 DRAINAGE MAT

ProctorGeo HC9 Drainage Mat is a three dimensional shaped mesh of UV stabilized polypropylene monofilaments (9mm thick), tangled and fused together. ProctorGeo HC9 is used to provide permanent drainage and ventilation between the roof sheeting and roofing underlay. It also provides significant sound reduction up to 24.8dB from rain impact noise. It is designed for use under all types of long-run steel profiles. When used in conjunction with a DriStud Roof Underlay and DriStud Joining Tape, this offers a complete roofing underlay solution for zinc, copper and other standing seam roof systems. It is deemed fire retardant in accordance with AS 1530.2.

## Products – Vapour Control Layer



### PROCTOR PASSIVE SMARTVAP 100 (SMARTVAP) (COMPLIES WITH AS/NZS 4200.1)

A two layer, light duty air barrier and variable vapour diffusion resistance retarder. When installed as a continuous layer, SmartVap will form an air tight layer, improving the efficacy of ventilation systems and thermal efficiency of the building enclosure. The effective management of air and vapour passage through wall, ceiling and floor assemblies can help protect the building fabric and insulation from condensation and related problems such as mould, timber rot, corrosion and loss of thermal resistance.

## Products – Vent



### VENTED BATTEN VB20

The VB20 is a polypropylene ventilated batten designed to create a 20mm cavity for ventilation and drainage in both the roof and wall cavity, reducing the risk of moisture build up and condensation. It features convenient peel-off adhesive backing, eliminating the need for nails or glue, to adhere to timber, metal and building wraps. Easy to install, VB20 is manufactured in 1800mm lengths for easy handling. The ventilated polypropylene structure is strong and robust, providing passive airflow of 16,000mm<sup>2</sup> per linear metre. VB20 is insect proof with 4mm vents preventing ingress of nesting insects.



### OVER FASCIA VENT G1200N

G1200N is the most practical and cost-efficient method of ventilating the eaves for **trussed** roof for greater than 15 degree pitch. It is easy to install, discrete and is compatible with either timber or metal fascias. G1200N is designed to discreetly ensure a calculated positive air flow into the roof space between the roof underlay and the fascia board. It is designed with 4mm evenly spaced openings specifically sized to prohibit large insects gaining access but wide enough to prevent capillary action.



### OVER FASCIA VENT G2500N

G2500N is the most practical and cost-efficient method of ventilating the eaves for **skillion** roof and trussed roofs for roof pitches under 15 degrees. It is easy to install, discrete and is compatible with either timber or metal fascias. G2500N is designed to discreetly ensure a calculated positive air flow into the roof space between the roof underlay and the fascia board. It is designed with 4mm evenly spaced openings specifically sized to prohibit large insects gaining access but wide enough to prevent capillary action.



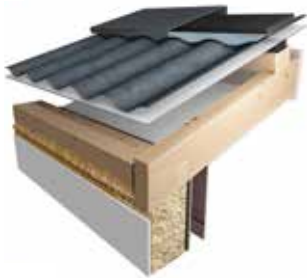
#### RIDGE VENT RV10P

RV10P is a ridge vent that has an adhesive and flexible aluminium flashing which is designed to form to roofing profiles and prevent water ingress on any pitch roof. The RV10P forms part of a passive ventilation system that works year round with no moving parts or energy consumption. It is designed to be compatible with roof cladding profiles with a trough depth of less than 34mm.



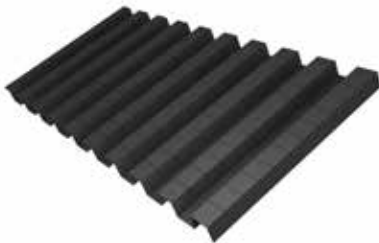
#### RIDGE VENT DEEP TROUGH RV10DT

RV10DT is a ridge vent that has an adhesive and flexible aluminium flashing which is designed to form to roofing profiles and prevent water ingress on any pitch roof. The RV10DT forms part of a passive ventilation system that works year round with no moving parts or energy consumption. It is designed to be compatible with roof cladding profiles with a trough depth of greater than 34mm.



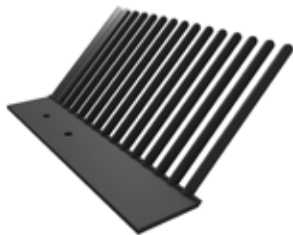
#### APRON VENT AB20 AND AB20DT

Apron Vents are obsolete and replaced by RV10P and RV10DT. Cut RV10P and RV10DT in half lengthwise to use for abutments and barge details.



#### ROLL RAFTER TRAY G502

G502 Roll Rafter Tray is designed to maintain a continuous 25mm air gap between the underside of the roofing membrane or sarking board and loft insulation at the eaves, providing a consistent flow of air into the roof space. The G502 Roll Rafter Tray castellated profile is laid across the top of the roof trusses/rafters parallel with the eaves level and is suitable for both new build and roof renovation projects. The extra width of the panel allows for better coverage when low pitch and deep insulation details are encountered.



#### EAVES COMB FILLER G1275

G1275 Eaves Comb Filler is designed with flexible fingers that adjust to fill the gaps left when using profiled tiles or steel roof cladding, preventing entry of birds and large insects. The use of the G1275 eliminates the need to make or buy expensive purpose made profiled fillers that can block necessary airflow into the roof spacing between underlay and roof cladding.

## Products – Order Quantities

| PRODUCT CODE  | IMAGE   | PRODUCT DESCRIPTION   | PACK QUANTITY | LENGTH PER UNIT (mm) | TOTAL LM PER BOX |
|---------------|---|---|---------------|----------------------|------------------|
| <b>VB20</b>   |    | Vented Batten (20mm thick)  | 50            | 1,800                | 90.0             |
| <b>G1200N</b> |    | Over Fascia Vent 10mm   | 20            | 1,000                | 20.0             |
| <b>G2500N</b> |    | Over Fascia Vent 25mm   | 20            | 1,000                | 20.0             |
| <b>RV10P</b>  |   | Ridge Vent<br>Cut RV10P in half lengthwise to use for abutments and barge details.              | 6             | 1,200                | 7.2              |
| <b>RV10DT</b> |  | Ridge Vent Deep Trough<br>Cut RV10DT in half lengthwise to use for abutments and barge details. | 6             | 1,200                | 7.2              |
| <b>G502</b>   |  | Roll Rafter Tray  | 2             | 6,000                | 12.0             |
| <b>G1275</b>  |  | Eaves Comb Filler   | 50            | 1,000                | 50.0             |



## Base Roof System

ROOF PITCH 3° OR ABOVE

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT SYSTEM | FIXING AND ACCESSORIES   |
|--------------------|---|----------|-------------|--|
| DS-RU2403-01       | <ul style="list-style-type: none"> <li>Base Roof System with Non-Fire Retardant Underlay</li> <li>Trussed and Skillion roof</li> <li>Roof pitch: 3° or above</li> </ul> | RU24     | N/A         | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting or plastic strapping |

### USE CASE

- Generally residential single dwellings or detached garages.
- Applied for both truss and skillion roofs and is suitable where fire retardant underlay is not required.
- Can be used with metal longrun, concrete or pressed tile roof where the roof pitch is 3° or above.

### BENEFITS

Synthetic, self-support, vapour permeable, direct fixing with non-absorbing cladding. It can be used including and up to 'Extra High' wind zone.

### LINING

1. Apply DriStud RU24 from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water.
2. Ensure that the underlay is properly fixed to the surface at perimeters or around penetrations.
3. All edge and end laps must be overlapped by a minimum of 150mm.
4. Terminate the underlays at the ridge purlins to create airpath.

5. Where underlay span is greater than 1200mm or the roof pitch is under 10°, wire netting\*, plastic strapping or other strong materials must be installed at right angles across the purlins and draw taut before fixing.
6. Use DriStud Cool Window Flashing Tape or Joining Tape to achieve lap seals.

\*75mm galvanized hexagonal wire netting to AS/NZS 4534

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners shall be placed no further than 300mm apart.
- Fixing requirements for steel framed structure, refer to MRM Code of Practice.



- 1 Insulation
- 2 DriStud Roof Underlay RU24

## Base Roof System with FR Underlay

ROOF PITCH 3° OR ABOVE

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT SYSTEM | FIXING AND ACCESSORIES   |
|--------------------|---|----------|-------------|--|
| DS-FRU3803-01      | <ul style="list-style-type: none"> <li>Base Roof System with Fire Retardant Underlay</li> <li>Trussed and Skillion roof</li> <li>Roof pitch: 3° or above</li> </ul> | FRU38    | N/A         | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting or plastic strapping |

### USE CASE

- Roof system with fire retardant underlay for inter-tenancy buildings, units or apartments.
- For both truss and skillion roofs and is suitable where fire retardant underlay is required.
- Can be used with metal longrun, concrete or pressed tile roof where the roof pitch is 3° or above.

### BENEFITS

Fire retardant, synthetic, self-support, vapour permeable, direct or cavity fixing with absorbent or non-absorbing cladding. It can be used including and up to 'Extra High' wind zone. Provides temporary weather protection during construction for 20 days. Same day cladding is recommended.

### LINING

1. Apply DriStud FRU38 from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water.
2. Ensure that the underlay is properly fixed to the surface at perimeters or around penetrations.
3. All edge and end laps must be overlapped by a minimum of 150mm.

4. Terminate the underlays at the ridge purlins to create airpath.
5. Where underlay span is greater than 1200mm or the roof pitch is under 10°, wire netting\*, plastic strapping or other strong materials must be installed at right angles across the purlins and draw taut before fixing.
6. Use DriStud Cool Window Flashing Tape or Joining Tape to achieve lap seals.

\*75mm galvanized hexagonal wire netting to AS/NZS 4534

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners shall be placed no further than 300mm apart.
- Fixing requirements for steel framed structure, refer to MRM Code of Practice.



- 1 Insulation
- 2 DriStud Roof Underlay FRU38

## Steel Longrun Vented Roof System

TRUSSED ROOF PITCH 3° TO <15°

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES   |
|--------------------|--|----------|-----------------|--|
| DS-FRU3803-TLV     | <ul style="list-style-type: none"> <li>Steel Longrun Trussed Roof</li> <li>Roof pitch: 3° to &lt;15°</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G2500N<br>G502  | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting or plastic strapping |
| DS-RU2403-TLV      | <ul style="list-style-type: none"> <li>Steel Longrun Trussed Roof</li> <li>Roof pitch: 3° to &lt;15°</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                 |  |

### USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is from 3° to <15°.
- For ventilated roof cavity with 25,000 mm<sup>2</sup> per LM airflow to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support DriStud Roof Underlays with high vapour permeability for direct or cavity fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

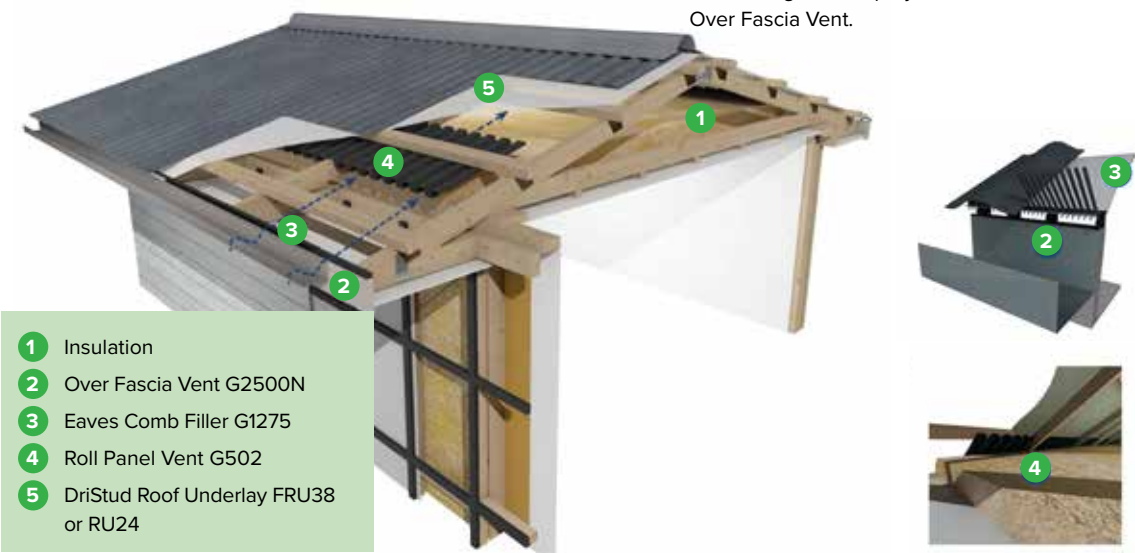
### LINING

- Lay the G502 Roll Rafter Tray across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
- Fix G2500N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.
- Where underlay span is greater than 1200mm or the roof pitch is under 10°, wire netting\*, plastic strapping or other strong materials must be installed at right angles across the purlins and draw taut before fixing.
- Terminating the underlays at the ridge purlins is recommended.
- Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.

\*75mm galvanized hexagonal wire netting to AS/NZS 4534

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G2500N, and staples for G502.
- Fascia height to drop by 32mm to allow for G2500N Over Fascia Vent.





## Steel Longrun Vented Roof System

TRUSSED ROOF PITCH 15° TO <30° ■ STEEL LONGRUN

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES  |
|--------------------|---|----------|-----------------|---|
| DS-FRU3815-TLV     | <ul style="list-style-type: none"> <li>Steel Longrun Trussed Roof</li> <li>Roof pitch: 15° to &lt;30°</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G1200N<br>G502  | Galvanised or s/s staples, clouts or purlin screws or self tapper |
| DS-RU2415-TLV      | <ul style="list-style-type: none"> <li>Steel Longrun Trussed Roof</li> <li>Roof pitch: 15° to &lt;30°</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                 |   |

### USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is 15° to <30°.
- For ventilated roof cavity with 10,000 mm<sup>2</sup> per LM airflow to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support DriStud Roof Underlays with high vapour permeability for direct or cavity fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

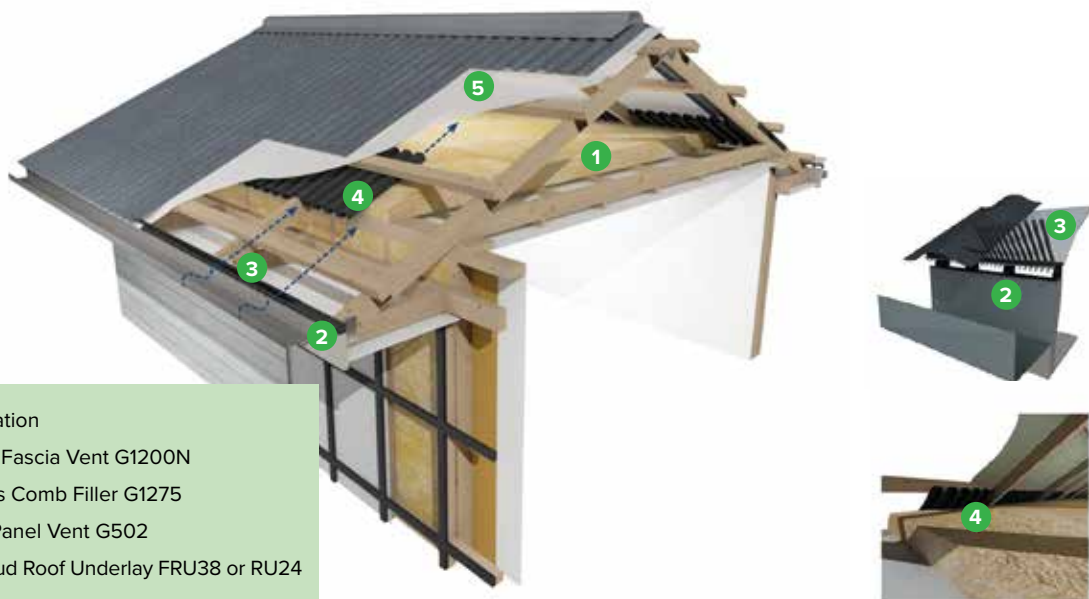
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Lay the G502 Roll Rafter Tray across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
2. Fix G1200N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. Terminating the underlays at the ridge purlins is recommended.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G1200N, and staples for G502.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.



- 1 Insulation
- 2 Over Fascia Vent G1200N
- 3 Eaves Comb Filler G1275
- 4 Roll Panel Vent G502
- 5 DriStud Roof Underlay FRU38 or RU24

## Steel Longrun Vented Roof System

TRUSSED ROOF PITCH 30° OR ABOVE ■ STEEL LONGRUN

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT COMPONENTS                   | FIXING AND ACCESSORIES  |
|--------------------|---|----------|-----------------------------------|---|
| DS-FRU3830-TLV     | <ul style="list-style-type: none"> <li>Steel Longrun Trussed Roof</li> <li>Roof pitch: 30° or above</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G1200N<br>G502<br>RV10P or RV10DT | Galvanised or s/s staples, clouts or purlin screws or self tapper, DriStud Joining Tape |
| DS-RU2430-TLV      | <ul style="list-style-type: none"> <li>Steel Longrun Trussed Roof</li> <li>Roof pitch: 30° or above</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                                   |   |

### USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is 30° or above.
- A complete ventilated roof system with 10,000mm<sup>2</sup> per LM airflow in and release warm air using the natural convection of rising warm air of 8,000mm<sup>2</sup> per LM through the apex to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support DriStud Roof Underlays with high vapour permeability for direct fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Lay the G502 Roll Rafter Tray across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
2. Fix G1200N Over Fascia Vent using nails or screws the top of the fascia board through the fixing holes provided along the full length of the eaves.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. Terminate the underlays at the ridge purlins to create airpath.
5. Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm on the roof centrally at the apex.
6. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G1200N, and staples for G502.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.
- Additional fixing screw length is required to accommodate 20mm thickness of RV10P or RV10DT.



## Steel Longrun Vented Roof System

### TRUSSED MONO PITCH ROOF 3° TO <15° ■ STEEL LONGRUN

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | UNDERLAY | VENT COMPONENTS                   | FIXING AND ACCESSORIES  |
|--------------------|--|----------|-----------------------------------|---|
| DS-FRU3803-TMLV    | <ul style="list-style-type: none"> <li>Steel longrun Trussed Mono Pitch</li> <li>Roof Pitch: 3° to &lt;15°</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G2500N<br>G502<br>RV10P or RV10DT | Galvanised or s/s staples, clouts or purlin screws self tapper, DriStud Joining Tape. Wire netting or plastic strapping |
| DS-RU2403-TMLV     | <ul style="list-style-type: none"> <li>Steel longrun Trussed Mono Pitch</li> <li>Roof Pitch: 3° to &lt;15°</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                                   |   |

\*75mm galvanized hexagonal wire netting to AS/NZS 4534, builders tape or other strong durable materials for roof pitch less than 10°

#### USE CASE

- The system is for steel longrun mono roof, where the roof pitch is 3° to < 15°.
- A complete ventilated roof system with 25,000mm<sup>2</sup> per LM airflow in from the eaves and release warm air using the natural convection of rising warm air of 8,000mm<sup>2</sup> per LM through the barge to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

#### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects.

#### BENEFITS

The roof system uses tear resistant and self support synthetic DriStud Roof Underlays with high vapour permeability for direct fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

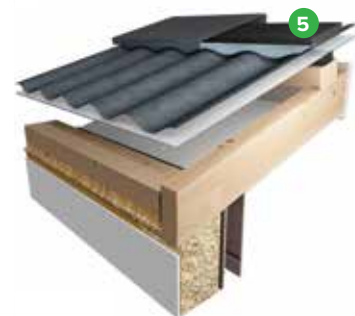
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

#### LINING

1. Lay the G502 Roll Rafter Tray) across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
2. Fix G2500N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. Terminate the underlays at the ridge purlins to create airpath.
5. Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm over the top of the roof cladding. Cut RV10P or RV10DT in half lengthwise for abutments and barge details.
6. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.

#### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G2500N, and staples for G502.
- Fascia height to drop by 32mm to allow for G2500N Over Fascia Vent.
- Additional fixing screw length is required to accommodate 20mm thickness of RV10P or RV10DT.





## Steel Longrun Vented Roof System

TRUSSED MONO PITCH ROOF 15° OR ABOVE ■ STEEL LONGRUN

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT COMPONENTS                   | FIXING AND ACCESSORIES  |
|--------------------|---|----------|-----------------------------------|---|
| DS-FRU3815-TMLV    | <ul style="list-style-type: none"> <li>Steel longrun Trussed Mono Pitch</li> <li>Roof Pitch: 15° or above</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G1200N<br>G502<br>RV10P or RV10DT | Galvanised or s/s staples, clouts or purlin screws or self tapper, DriStud Joining Tape |
| DS-RU2415-TMLV     | <ul style="list-style-type: none"> <li>Steel longrun Trussed Mono Pitch</li> <li>Roof Pitch: 15° or above</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                                   |   |

### USE CASE

- The system is for steel longrun trussed mono pitch roof, where the roof pitch 15° or above.
- A complete ventilated roof system with 10,000mm<sup>2</sup> per LM airflow in from the eaves and release warm air using the natural convection of rising warm air of 8,000mm<sup>2</sup> per LM through the barge to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support synthetic DriStud Roof Underlays with high vapour permeability for direct fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

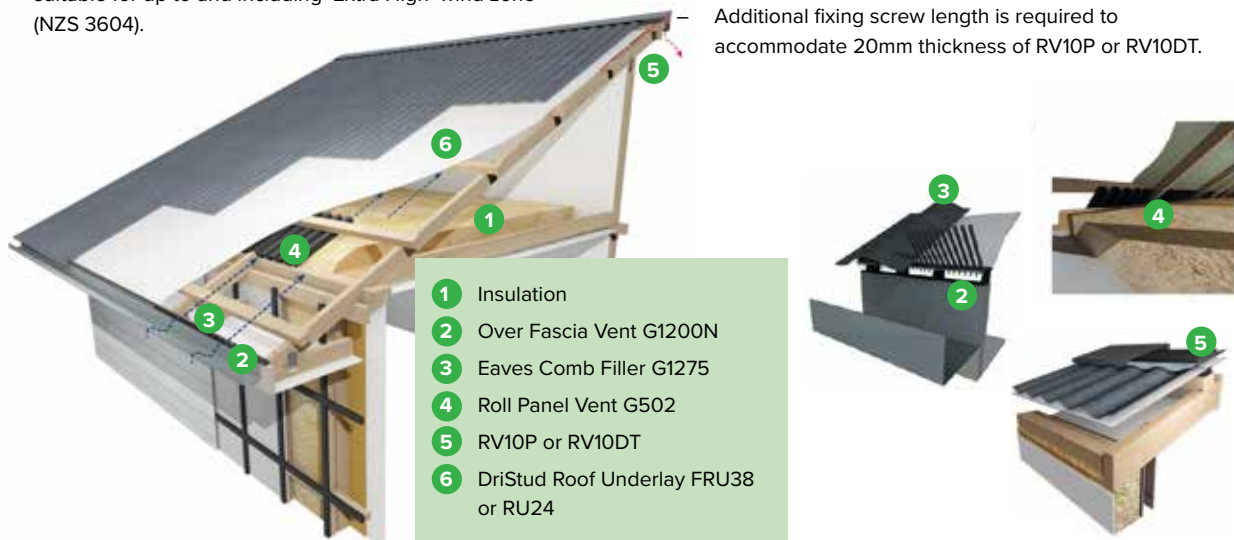
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Lay the G502 Roll Rafter Tray across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
2. Fix G1200N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. Terminate the underlays at the ridge purlins to create airpath.
5. Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm over the top of the roof cladding. Cut RV10P or RV10DT in half lengthwise for abutments and barge details.
6. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G1200N, and staples for G502.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.
- Additional fixing screw length is required to accommodate 20mm thickness of RV10P or RV10DT.



## Steel Longrun Vented Roof System

SKILLION ROOF PITCH 3° OR ABOVE ■ STEEL LONGRUN

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT COMPONENTS                   | FIXING AND ACCESSORIES  |
|--------------------|---|----------|-----------------------------------|---|
| DS-FRU3803-SLV     | <ul style="list-style-type: none"> <li>Steel Longrun Skillion Roof</li> <li>Roof Pitch: 3° or above</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G2500N<br>VB20<br>RV10P or RV10DT | Galvanised or s/s staples, clouts or purlin screws self tapper, DriStud Joining Tape. Wire netting or plastic strapping |
| DS-RU2403-SLV      | <ul style="list-style-type: none"> <li>Steel Longrun Skillion Roof</li> <li>Roof Pitch: 3° or above</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                                   |   |

\*75mm galvanized hexagonal wire netting to AS/NZS 4534, builders tape or other strong durable materials for roof pitch less than 10°

### USE CASE

- The system is for steel longrun skillion roof, where the roof pitch is 3° or above.
- A complete ventilated roof system with 25,000mm<sup>2</sup> per LM airflow in from the eaves and release air using the natural convection of rising warm air of 8,000mm<sup>2</sup> per LM through the apex to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects

### BENEFITS

The roof system uses tear resistant and self support synthetic DriStud Roof Underlays with high vapour permeability for direct fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Fix G2500N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves.
2. Peel-off adhesive backing of VB20 Vented Batten and attach to purlins for temporary fixing. Secure VB20 with exterior cladding fixings.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. Terminate the underlays at the ridge purlins to create airpath.
5. Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm on the roof centrally at the apex.
6. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G2500N, and staples for G502.
- Fascia height to drop by 32mm to allow for G2500N Over Fascia Vent.
- Additional fixing screw length is required to accommodate 20mm thickness of RV10P or RV10DT.



- 1 Insulation
- 2 Over Fascia Vent G2500N
- 3 Eaves Comb Filler G1275
- 4 Vented Battens VB20
- 5 Ridge Vent RV10P
- 6 DriStud Roof Underlay FRU38 or RU24

## Steel Longrun Vented Roof System

SKILLION MONO PITCH ROOF 3° OR ABOVE ■ STEEL LONGRUN

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | UNDERLAY | VENT COMPONENTS                   | FIXING AND ACCESSORIES  |
|--------------------|---|----------|-----------------------------------|---|
| DS-FRU3801-SMLV    | <ul style="list-style-type: none"> <li>Steel Longrun Skillion Mono Pitch</li> <li>Roof Pitch: 3° or above</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G2500N<br>VB20<br>RV10P or RV10DT | Galvanised or s/s staples, clouts or purlin screws self tapper, DriStud Joining Tape. Wire netting or plastic strapping |
| DS-RU2401-SMLV     | <ul style="list-style-type: none"> <li>Steel Longrun Skillion Mono Pitch</li> <li>Roof Pitch: 3° or above</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                                   |   |

\*75mm galvanized hexagonal wire netting to AS/NZS 4534, builders tape or other strong durable materials for roof pitch less than 10°.

### USE CASE

- The system is for steel longrun skillion mono pitch roof, where the roof with pitch 3° or above.
- A complete ventilated roof system with 25,000mm<sup>2</sup> per LM airflow in from the eaves and release air using the natural convection of rising warm air of 8,000mm<sup>2</sup> per LM through the apex to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or fire retardant performance is required.

### ADDITIONAL VENTILATION

For steel longrun with large surface contact areas with roof underlays, it is recommended ventilation and drainage above the underlay is created to defer the dew point condensation from the steel longrun.

Install VB10, 10mm vented batten above the underlay and G1275 Eaves Comb Filler on the over fascia vent to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support synthetic DriStud Roof Underlays with high vapour permeability for direct fixing with metal longrun. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

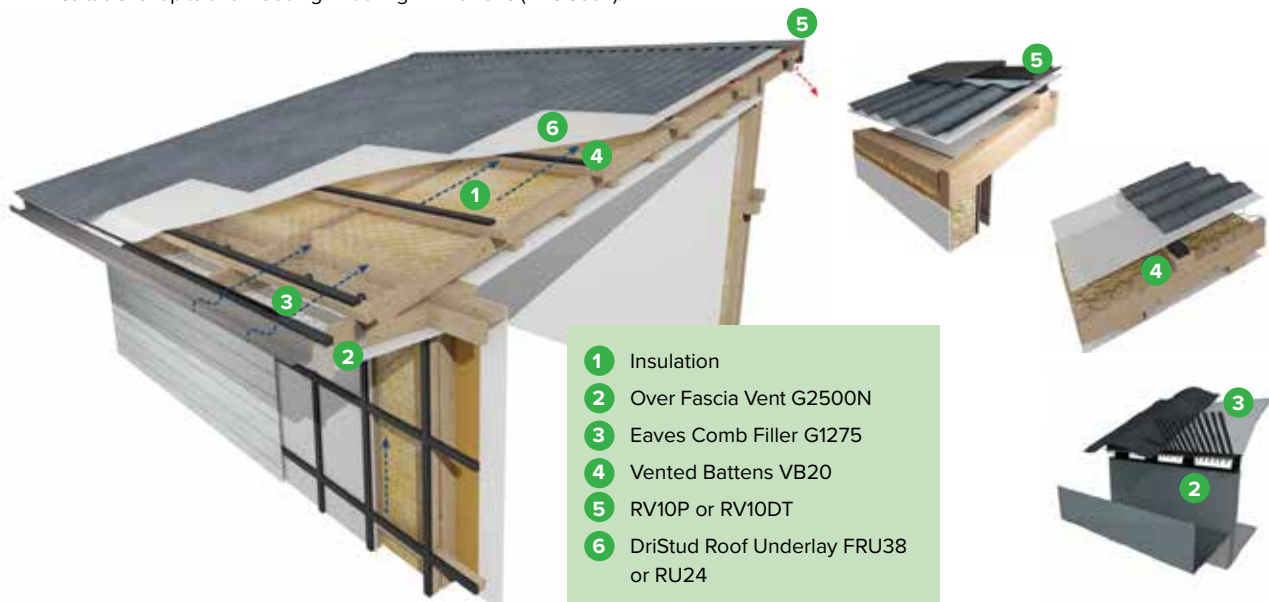
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Fix G2500N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves.
2. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
3. Terminate the underlays at the ridge purlins to create airpath.
4. Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm over the top of the roof cladding. Cut RV10P or RV10DT in half lengthwise for abutments and barge details.
5. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G2500N, and staples for G502.
- Fascia height to drop by 32mm to allow for G2500N Over Fascia Vent.
- Additional fixing screw length is required to accommodate 20mm thickness of RV10P or RV10DT.





## Steel Longrun Sarked Roof with Drainage Mat

ROOF PITCH 3° OR ABOVE

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | UNDERLAY               | VENT SYSTEM                       | FIXING AND ACCESSORIES  |
|--------------------|--|------------------------|-----------------------------------|---|
| DS-FRU3803-SLD     | <ul style="list-style-type: none"> <li>Standing seam roof system</li> <li>Ventilated with drainage mat</li> <li>Fire Retardant Underlay</li> </ul>               | FRU38                  | G2500N<br>VB20<br>RV10P or RV10DT | Galvanised or s/s staples, clouts or purlin screws. Scissors or knife. DriStud Joining Tape |
| DS-PWSA03-SLD      | <ul style="list-style-type: none"> <li>Standing seam roof system</li> <li>Ventilated with drainage mat</li> <li>Self-Adhering Fire Retardant Underlay</li> </ul> | Proctor<br>Wraptite SA | *ProctorGeo HC9<br>Drainage Mat   |   |

### USE CASE

- A complete roof system for sarked roof with all types of steel longrun where the roof pitch is 3° or above.
- Roof space ventilated with 25,000mm<sup>2</sup> per LM airflow from the eaves and release rising warm air of 8,000mm<sup>2</sup> per LM through the apex to minimise condensation and mould growth.

### ADDITIONAL VENTILATION

Install \*ProctorGeo HC9 Drainage Mat to provide a permanent drainage channel for condensate that may get under the roof sheet. Install under zinc, copper, galvanised steel and any other standing seam roof to reduce corrosion risk.

### BENEFITS

- Allows some movement of the roof sheet under temperature fluctuation.
- Allows for moisture to escape from the roofing structure above and below the sarking.
- The system components, DS-FRU3803-SLD, DS-PWSA03-SLD and ProctorGeo HC9 Drainage Mat have low flammability with flammability index of ≤5 and are deemed fire retardant in accordance with AS 1530.2

### LINING

1. For DS-FUR3803-SLD system, apply DriStud FRU38 from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm. Use DriStud Cool Window Flashing Tape or Joining Tape to achieve lap seals.
2. For DS-PWSA03-SLD system, adhere Wraptite to the supporting sheet sarking horizontally or vertically. Overlaps must be minimum 75mm regardless of roof pitch. Eaves guards should be used to protect the membrane from sunlight.
3. Install G2500N Over Fascia Vent, VB20 Vented Batten and RV10P or RV10DT to introduce airflow below the sarking.
4. Install RV10P for trough <38mm and RV10DT for trough ≥38mm.
5. Terminate the underlays at the apex to create airpath.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- ProctorGeo HC9 is staple or screw fixed for temporary fixing until the roof is installed.
- Try to place fixings where the membrane is overlapped to reduce leakage risk of the membrane.



## Pressed Tile Vented Roof System

TRUSSED ROOF PITCH: 15° TO <30° ■ PRESSED TILE ROOF

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES   |
|--------------------|--|----------|-----------------|--|
| DS-FRU3815-TPV     | <ul style="list-style-type: none"> <li>Pressed Tile Trussed Roof</li> <li>Roof Pitch: 15° to &lt;30°</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G1200N<br>G502  | Galvanised or s/s staples, clouts or purlin screws self tapper, DriStud Joining Tape |
| DS-RU2415-TPV      | <ul style="list-style-type: none"> <li>Pressed Tile Trussed Roof</li> <li>Roof Pitch: 15° to &lt;30°</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                 |  |

### USE CASE

- The system is for pressed tile trussed roof, where the roof pitch is 15° to < 30°.
- For ventilated roof cavity with 10,000 mm<sup>2</sup> per LM airflow to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or where fire retardant performance is required.

### ADDITIONAL COMPONENTS

Eaves Comb Filler (G1275): Install G1275 on the over fascia vent, G1200N to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support DriStud Roof Underlays with high vapour permeability under pressed tile roof. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Lay G502 Roll Rafter Tray across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
2. Fix G1200N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. It is recommended the roof underlay is terminated at the ridge purlins.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G1200N, and staples for G502.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.



- 1 Insulation
- 2 Over Fascia Vent G1200N
- 3 Eaves Comb Filler G1275
- 4 Roll Panel Tray G502
- 5 DriStud Roof Underlay FRU38 or RU24

## Pressed Tile Vented Roof System

TRUSSED ROOF PITCH: 30° OR ABOVE ■ PRESSED TILE ROOF

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | UNDERLAY | VENT COMPONENTS         | FIXING AND ACCESSORIES   |
|--------------------|--|----------|-------------------------|--|
| DS-FRU3830-TPV     | <ul style="list-style-type: none"> <li>Pressed Tile Trussed Roof</li> <li>Roof Pitch: 30° or above</li> <li>Ventilated with Fire Retardant Underlay</li> </ul>     | FRU38    | G1200N<br>G502<br>VB10* | Galvanised or s/s staples, clouts or purlin screws self tapper, DriStud Joining Tape |
| DS-RU2430-TPV      | <ul style="list-style-type: none"> <li>Pressed Tile Trussed Roof</li> <li>Roof Pitch: 30° or above</li> <li>Ventilated with Non-Fire Retardant Underlay</li> </ul> | RU24     |                         |  |

\*VB10 is a half width of VB20

### USE CASE

- The system is for trussed pressed tile roof, where the roof pitch is 30° or above.
- A complete ventilated roof system with 10,000mm<sup>2</sup> per LM airflow in and release warm air using the natural convection of rising warm air of 8,000mm<sup>2</sup> per LM through the apex to minimise condensation and mould growth.
- Use FRU38 for intertenancy dwellings or where fire retardant performance is required.

### ADDITIONAL COMPONENTS

Eaves Comb Filler (G1275): Install G1275 on the over fascia vent, G1200N to prevent bird ingress and nesting insects.

### BENEFITS

The roof system uses tear resistant and self support DriStud Roof Underlays with high vapour permeability under pressed metal tile roof. The system includes vent components that form part of a passive ventilation system that works year around with no moving parts or energy consumption with 4mm vents preventing ingress of nesting insects.

The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

### LINING

1. Lay G502 Roll Rafter Tray across the top of the roof trusses/rafters and roll out the full length of the eaves and adjust to align with the required roof truss centres. Nail or staple to secure in position.
2. Fix G1200N Over Fascia Vent using nails or screws to the top of the fascia board through the fixing holes provided along the full length of the eaves.
3. Apply DriStud FRU38 or RU24 roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and end laps must be overlapped by a minimum of 150mm.
4. Roof underlay must be terminated at the ridge purlins.
5. Split VB20 in half and make 10mm thick VB10 and install on the ridge purlins to create airpath.
6. Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for air flow.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- For timber structures fixing or fasteners for roof underlays shall be placed no further than 300mm apart.
- Self tapper to fix on metal fascia, nails for timber fascia for G1275, G1200N, and staples for G502.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.
- Additional fixing screw length is required to accommodate 10mm thickness of VB10.

- 1 Vented Batten VB10
- 2 DriStud Roof Underlay FRU38 or RU24



## FR Flexible Wall Underlay System

### FIRE RETARDANT VAPOUR PERMEABLE AIR BARRIER SYNTHETIC WALL UNDERLAY

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | DRISPACE SYSTEM COMPONENTS   |
|--------------------|--|--|
| DS-FRWW01-DMC      | Fire retardant wall wrap with <ul style="list-style-type: none"> <li>– direct fixed cladding</li> <li>– drained and vented cavity cladding</li> <li>– masonry veneer cladding</li> </ul> | <ul style="list-style-type: none"> <li>– DriStud Wall Wrap</li> <li>– DriStud Cool Window Flashing Tape</li> <li>– VB20*</li> <li>– EPDM flexible seals or Marshall's Trade Seals</li> <li>– Polypropylene strap or 75mm galvanised mesh/wire</li> </ul> |
| Optional           | <ul style="list-style-type: none"> <li>– Proctor SmartVap 100</li> <li>– DriStud Joining Tape</li> </ul>   |  |

\*NB: The VB20 should be treated as non-structural cavity batten.

#### USE CASE

1. It is a fire-retardant flexible wall underlay system and is suitable for both timber and steel framed buildings.
2. Can be direct fixed or installed in conjunction with a minimum 18mm drained cavity.
3. Can be used with non absorbent or absorbent claddings including masonry veneer in accordance with NZBC Acceptable Solution E2/AS1 for timber framed buildings or specific design for steel framed buildings.
4. The system includes multiple components to offer solutions to airtightness and weathertightness of the envelope.
5. Situated in NZS 3604 Wind Zones up to and including 'Very High' and 60 days of UV exposure.

#### ADDITIONAL COMPONENTS

- The following sealants are tested in accordance with AAMA 711-13 and compatible with DriStud Window Flashing Tape: Dowsil 795, Gorilla Firestop Ms5, Fix HG MS, Fixall 200 MS, MasterSeal, NP 1508, Sika AT, Sika MS.
- For buildings with high risks of condensation, it is recommended Proctor SmartVap 100, air barrier and variable vapour diffusion resistance retarder is installed as a continuous layer to the framing on the inside face of the insulation to improve the ventilation systems and thermal efficiency of the building enclosure.

#### BENEFITS

The wall system integrates multiple products to achieve high vapour permeability and air barrier properties for moisture vapour transfer but airtightness of the envelope, creating a healthier and more energy-efficient structure. DriStud Wall Wrap is fire retardant, vapour permeable, air barrier, absorbent and durable underlay and can be installed on gable ends. The Cool Window Flashing Tape has polymer adhesive and ensures maximum adhesion across a wide range of temperatures without the need of primer nor corner moulds. It provides ultimate protection against water infiltration for windows, doors and through-wall entry points.

Vented wall batten, VB20 installed over DriStud Wall Wrap creates a 20mm cavity for ventilation and drainage in the wall cavity, reducing the risk of moisture build up and condensation.

#### LINING

6. DriStud Wall Wrap is recommended to be installed horizontally with the printed side facing out. Horizontal laps should be overlapped no less than 75mm and vertical laps no less than 150mm. If possible, vertical laps should be over framing members or other solid backing. Where horizontal laps are required the upper sheet must overlap the bottom one to allow for moisture run off. At the end of runs and on gable walls, laps should be made vertically with a 150 mm end lap over studs. Tape vertical joints, cuts and tears with DriStud Cool or Joining Tape.
7. Run the underlay over openings and leave covered until windows and doors are ready to be installed. Form openings in the membrane by cutting a 45° diagonal from each corner of the penetration. Fold back the flaps inside the opening and staple to the penetration framing. Cut off excess underlay flush with the internal face of the wall frame.
8. Install DriStud Cool Window Flashing Tape to NZBC E2/AS1, 9.1.5 or DriStud Cool Tape Installation Guide. It requires only one layer on the horizontal sill surface.
9. Install VB20 as a drained vented batten by peeling-off adhesive backing for temporary fixing. It can be installed over the wall underlay both vertically or horizontally in line with requirements of selected wall cladding systems. It must be installed over the building wrap and cladding fixings must be fixed through the VB20 Vented Batten into the studs and dwangs.
10. Where stud spacings are greater than 450 mm, 75 mm galvanized mesh or wire galvanized in accordance with AS/NZS 4534, polypropylene strap or VB20 are installed over the building underlay behind the cavity battens at 300mm centres horizontally to prevent bulging of the building underlay into the drainage cavity.
11. Use flexible EPDM seals or Marshall's Trade Seals for wall cladding pipe and service penetration to E2/AS1.

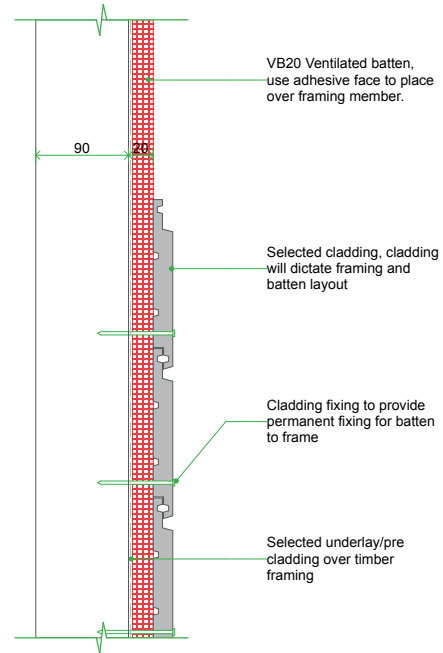


## FR Flexible Wall Underlay System (Cont.)

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- To fix DriStud Wall Wrap to the timber framing, use galvanized little grippers, 6-8mm staples or 20mm large head galvanized clouts to fix the underly securely to the frame with fasteners at 300mm centres horizontally and vertically. Additional fasteners should be used around each opening to be cut out. Fix securely to studs and dwangs so the underlay is taut across the framing.
- To fix DriStud Wall Wrap to steel framing use adhesive spray, tape or flat head screws or wafer-head self-drilling screws, power-driven helical nails or strapping and staples to fasten to the framing or thermal break. The exterior cladding fastenings will act as the permanent fixings.

### DIMENSIONS

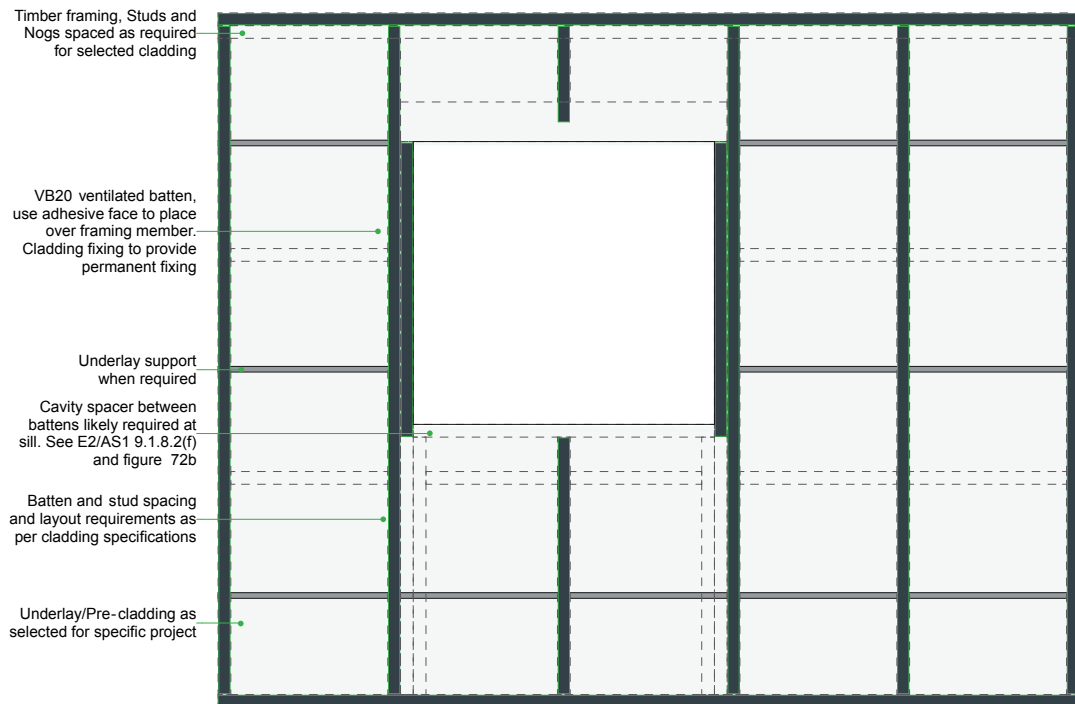


- 1 Insulation
- 2 Vented Batten VB20
- 3 DriStud Wall Wrap
- 4 DriStud Cool Window Flashing Tape

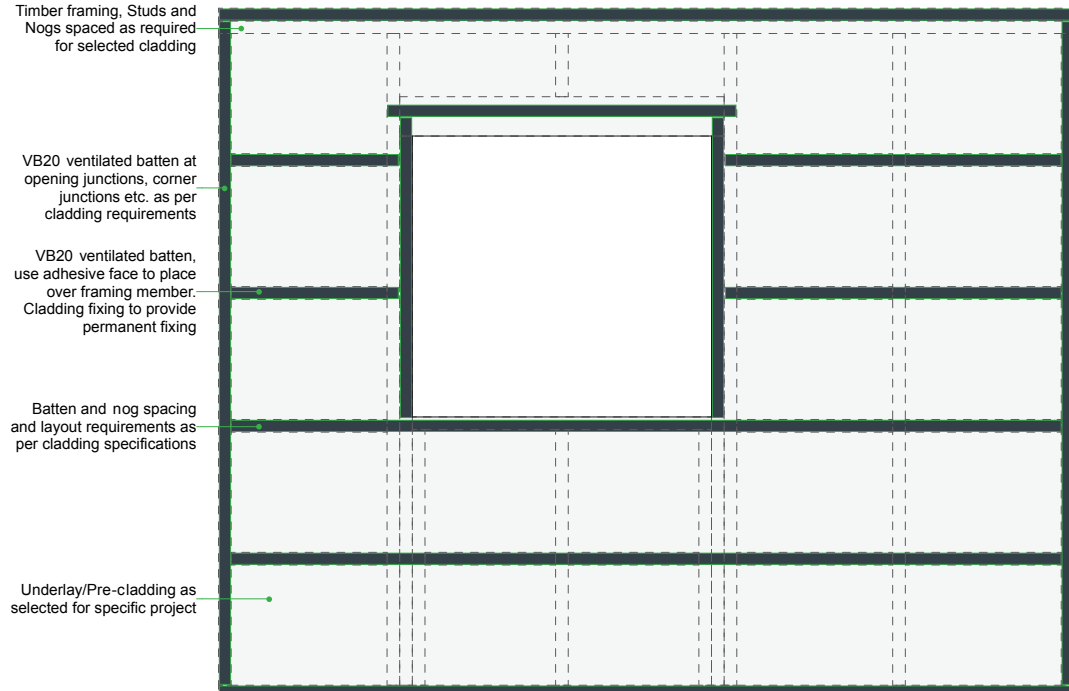


## FR Flexible Wall Underlay System (Cont.)

### VENT VB20 HORIZONTAL CLADDING SYSTEM



### VENT VB20 VERTICAL CLADDING SYSTEM



## FR wall system on rigid air barrier

### FLEXIBLE WALL UNDERLAY ON RIGID WALL UNDERLAY

| SPECIFICATION CODE | DRISPACE SPECIFICATION  | DRISPACE SYSTEM COMPONENTS   |
|--------------------|---|--|
| DS-FRWW01-RWU      | Fire retardant flexible wall underlay installed on Rigid Wall Underlays | <ul style="list-style-type: none"> <li>– DriStud Wall Wrap</li> <li>– DriStud Cool Window Flashing Tape</li> <li>– VB20*</li> <li>– EPDM flexible seals or Marshall's Trade Seals</li> </ul> |
| Optional           | – Proctor SmartVap 100  |  |

\* NB: The VB20 should be treated as non-structural cavity batten.

#### USE CASE

- It is a fire retardant flexible wall underlay system installed on rigid wall underlays made from plywood, OSB or fibre cement.
- The system integrates multiple components to offer additional weather and air tightness benefits to rigid air barriers for both cavity and direct fixed with absorbent and non-absorbent claddings.
- Situated in NZS 3604 Wind Zones up to and including 'Extra High' and 60 days of UV exposure.

#### ADDITIONAL COMPONENTS

- The following sealants are tested in accordance with AAMA 711-13 and compatible with DriStud Window Flashing Tape: Dowsil 795, Gorilla Firestop Ms5, Fix HG MS, Fixall 200 MS, MasterSeal, NP 1508, Sika AT, Sika MS.
- For buildings with high risks of condensation, it is recommended Proctor SmartVap 100 air barrier and variable vapour diffusion resistance retarder is installed as a continuous layer to the framing on the inside face of the insulation to improve the ventilation systems and thermal efficiency of the building enclosure.



- 1 Insulation
- 2 Vented Batten VB20
- 3 Rigid Wall Underlay
- 4 DriStud Wall Wrap
- 5 DriStud Cool Window Flashing Tape

## FR wall system on rigid air barrier (Cont.)

### BENEFITS

The wall system integrates flexible wall underlay components to install on rigid wall underlays made of plywood, OSB, exterior grade gypsum and fibre cement. The system offers additional weather and air tightness and allows fast drying of moisture built up within the envelope, creating a healthier and more energy-efficient structure. Vented wall batten, VB20 installed over DriStud Wall Wrap creates a 20mm cavity for ventilation and drainage in the wall cavity, reducing the risk of moisture build up and condensation. The Cool Window Flashing Tape has polymer adhesive and ensures maximum adhesion across a wide range of temperatures without the need of primer nor corner moulds. It provides ultimate protection against water infiltration for windows, doors and through-wall entry points.

### LINING

1. DriStud Wall Wrap is recommended to be installed horizontally with the printed side facing out. Horizontal laps should be overlapped no less than 75mm and vertical laps no less than 150mm. Where horizontal laps are required the upper sheet must overlap the bottom one to allow for moisture run off. Tape the vertical joins, cuts and tears with DriStud Cool Window Flashing Tape.
2. Run the underlay over openings and leave covered until windows and doors are ready to be installed. Form openings in the membrane by cutting a 45° diagonal from each corner of the penetration. Fold back the flaps

inside the opening and staple to the penetration framing. Cut off excess underlay flush with the internal face of the wall frame. Install DriStud Cool Window Flashing Tape to NZBC E2/AS1, 9.1.5 or DriStud Cool Tape Installation Guide. It requires only one layer on the horizontal sill surface.

3. Install VB20 as a drained vented batten by peeling-off adhesive backing for temporary fixing. It can be installed over the wall underlay both vertically or horizontally in line with requirements of selected wall cladding systems. Must be installed over the building wrap. Cladding fixings must be fixed through the VB20 Vented Batten into the studs and dwangs.
4. Use flexible EPDM seals or Marshall's Trade Seals for wall cladding pipe and service penetration to E2/AS1.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604 and rigid wall underlays are installed in accordance with the manufacturers' specification.
- Pull flexible underlays taut and fix securely to the rigid wall underlays with galvanized little grippers, 6-8mm staples or 20mm large head galvanized clouts at 300mm centres horizontally and vertically. Additional fasteners should be used around each opening to be cut out.



- 1 Insulation
- 2 Vented Batten VB20
- 3 Rigid Wall Underlay
- 4 DriStud Wall Wrap



## Proctor Wraptite SA Wall System

### SELF ADHERING MEMBRANE ON RIGID WALL UNDERLAY

| SPECIFICATION CODE | DRISPACE SPECIFICATION   | DRISPACE SYSTEM COMPONENTS   | VENT SYSTEM   |
|--------------------|--|--|---|
| DS-PWSA01-WRS      | Proctor Wraptite SA - self adhering membrane for Wall and Roof | <ul style="list-style-type: none"> <li>Proctor Wraptite SA</li> <li>Wraptite Liquid Flashing or Tremco Dymonic 100</li> <li>DriStud Cool Window Flashing Tape</li> </ul> | <ul style="list-style-type: none"> <li>VB20*</li> </ul> |

\*NB: The VB20 should be treated as non-structural cavity batten.

### USE CASE

- Proctor Wraptite SA is an externally applied fully adhered vapour permeable Weather Resistant Barrier/Air Barrier membrane for walls and roofs onto the various substrates with cavity wall claddings.
- Wraptite SA is compatible with and can be adhered to Aluminium (painted or mill finish), Anodised Aluminium, Concrete Block, Exterior Grade Gypsum/Fire Board, Galvanised Metal, In-Situ Concrete, OSB, Precast Concrete, Pre-Painted Steel, Rigid Vinyl, Steel, Plywood.
- Wraptite membrane and the range of Wraptite accessories are robust materials that are suitable as a roof and wall underlay on SIP and CLT construction. This makes Wraptite a flexible and simple solution

for achieving airtightness on both on-site and off-site projects.

- Situated in NZS 3604 Wind Zones up to and including 'Extra High' and 60 days of UV exposure.

### ADDITIONAL COMPONENTS

- Tools: utility knife, rubber roller, stiff brush, marker pen, measuring tape, scissors, barrel sealant gun, putty knife, clean cloth.
- The following sealants are tested in accordance with AAMA 711-13 and compatible with DriStud Window Flashing Tape: Dowsil 795, Gorilla Firestop Ms5, Fix HG MS, Fixall 200 MS, MasterSeal, NP 1508, Sika AT, Sika MS.



## Proctor Wraptite SA Wall System (Cont.)

### BENEFITS

- Wraptite SA makes the envelope airtight and energy efficient by addressing air leakage that accounts for up to 70% reduction in the effectiveness of insulation.
- Wraptite SA's high vapour permeability allows sheathing to dry quickly and moisture to escape. This ensures good indoor air quality by reducing the likelihood of mould, mildew, condensation, timber distortion and metal corrosion.
- Proctor Passive Wraptite SA fully bonds without mechanical attachments to most substrates for ease of installation, requiring minimal use of sealants or tapes.
- Proctor Passive Wraptite SA utilizes a patented full coverage air permeable adhesive to provide unsurpassed vapour permeability in a commercial quality, self-adhered, water resistant breather membrane.

### LINING PREPARATION

Substrate surfaces must be clean, dry and free from all bond-breaking contaminants and sharp protrusions.

Keep Wraptite in the original packaging which also functions as a dispenser.

### WALL LINING

1. Wraptite membrane can be installed horizontally (2 person method) or vertically (1 person method)
2. Pre-cut the membrane to the required length then reroll with the release paper facing outwards and peel back the release paper and lightly apply the adhesive surface to the prepared substrate.
3. Using a hand roller or stiff brush smooth out any air bubbles, releasing the air by starting from the middle and working your way towards the edges. Overlaps must be minimum 75mm.

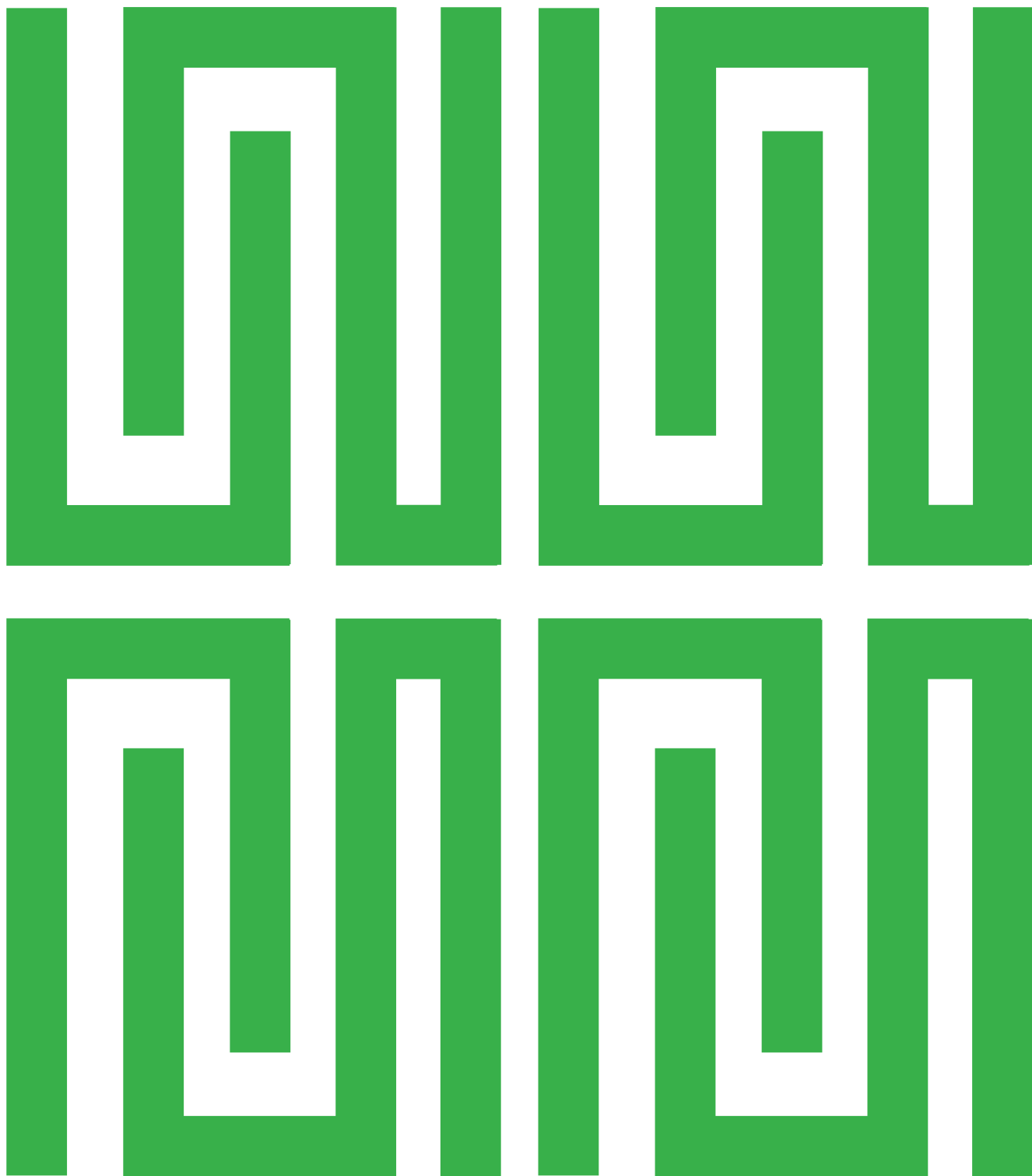
4. Run the underlay over openings and leave covered until windows and doors are ready to be installed. Form openings in the membrane by cutting a 45° diagonal from each corner of the penetration. Fold back the flaps inside the opening and adhere to the penetration framing. Cut off excess underlay flush with the internal face of the wall frame. Install DriStud Cool Window Flashing Tape to NZBC E2/AS1, 9.1.5 or DriStud Cool Tape Installation Guide. It requires only one layer on the horizontal sill surface.
5. Gaps around wall penetrations that are greater than 6mm are prefilled with Wraptite Liquid Flashing and allowed to cure and after DriStud Cool Tape is installed, use approved sealants to fill gaps.
6. Install VB20 as a drained vented batten by peeling-off adhesive backing for temporary fixing. It can be installed over the Wraptite both vertically or horizontally in line with requirements of selected wall cladding systems. Cladding fixings must be fixed through the VB20 Vented Batten into the studs and dwangs.
7. Use flexible EPDM seals for wall cladding pipe and service penetration to E2/AS1.

### FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604 and rigid wall underlays are installed in accordance with the manufacturers' specification.
- Minimal requirement of fixing: Proctor Passive Wraptite SA fully bonds without mechanical attachments to most substrates.



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