



Passive Ventilation and Air Barrier Solutions for Cold Roofs and Walls

Roof and Wall Cavity Moisture Management Design Guide



DECEMBER 2025



DRISPACE

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 that 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 underlays. 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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Design Considerations

BUILD TIGHT, VENTILATE RIGHT

DriSpace systems consist of DriStud wall and roof underlay and Cool Window Flashing tape, VENT products and ProctorPassive 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.

SCOPE OF USE

DriSpace Systems are designed to provide an 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 minimising 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 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 the notice.

USE DRISPACE VENT SYSTEMS BACKED BY A SYSTEMS WARRANTY

DriSpace VENT System is designed to support the mitigation of mould, excessive moisture build-up, and condensation in roof cavities when the system is installed and maintained in accordance with DriSpace's guidelines.

Warranty coverage applies only when all system components are used as specified and remain undamaged. It excludes issues arising from improper installation, incompatible materials, physical damage, or external environmental factors beyond the system's control. Please refer to the warranty documentation to review the applicable terms, conditions, and exclusions. A copy of the warranty can be provided upon request.

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 is achieved.

No substitutions are permitted for any specified systems, components, or products listed in this manual. All products must be specified and installed exactly as detailed in the instructions. Any substitution or deviation from these instructions is strictly prohibited and will void all warranties.

LIABILITY

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

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 ensures 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.

Systems Summary Table

| ROOF MATERIAL | ROOF TYPE | ROOF PITCH | FIRE RETARDANT | PAGE |
|--------------------|--|--------------|----------------|------|
| VENTED ROOF | | | | |
| Steel Longrun | Trussed Roof | 5° to <15° | ✓ | 12 |
| | | | | 12 |
| | | 15° to <30° | ✓ | 13 |
| | | | | 13 |
| | | 30° or above | ✓ | 14 |
| | | | | 14 |
| | 5° to <15° mono | ✓ | 15 | |
| | | | 15 | |
| | 15° or above mono | ✓ | 16 | |
| | | | 16 | |
| | Skillion Roof | 5° or above | ✓ | 19 |
| | | | | 19 |
| 5° or above mono | | ✓ | 20 | |
| Sarked Roof | 5° or above | ✓ | 21 | |
| | | | 21 | |
| | | ✓ | 21 | |
| Pressed Tile | Trussed Roof | 15° to <30° | ✓ | 24 |
| | | | | 24 |
| | 30° or above | ✓ | 25 | |
| | | | 25 | |
| WALL SYSTEM | | | | |
| SYSTEM TYPE | | | | |
| | Flexible wall underlay | | ✓ | 27 |
| | Flexible wall underlay on rigid wall underlay | | ✓ | 30 |
| | Self-adhering flexible Wraptite on rigid wall underlay | | ✓ | 32 |

ROOF UNDERLAY COMPARISON TABLE

| PROPERTY | TEST METHOD | REQUIREMENT | ECODRI FR & FRU38 | RU24 & RU22 |
|---|----------------------|---|--|----------------------------------|
| Construction | | Non-Woven / Breathable Film / Non-Woven | Yes | Yes |
| Base Weight | | | 181 gsm EcoDri FR 220 gsm FRU38 | 170 gsm RU24 145 gsm RU22 |
| Water Vapour Resistance | ASTM E96 Procedure B | ≤ 7MN s/g | Vapour Permeable ≤ 0.5MN s/g | Vapour Permeable ≤ 0.5MN s/g |
| Absorbency | AS/NZS 4201: Part 6 | ≥ 150 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 | ≥ 100mm H ₂ O | Pass | Pass |
| Flammability | AS 1530.2:1993 | FR Index ≤ 5 | Fire Retardant | Non-Fire Retardant |
| Supported | | | Self Support | Self Support |
| Roof Pitch | | | >5° | >5° |
| Wind Zone | | | up to and including 'Extra High' | up to and including 'Extra High' |
| UV | | | EcoDri FR up to 21 days FRU38 up to 20 days | up to 7 days |

Products – Roof Underlay



DRISTUD ECODRI FR ROOF UNDERLAY CODEMARK™ CERTIFIED

181 gsm underlay, made using 80% Global Recycled Standard certified recycled non-woven materials. DriStud EcoDri FR is a heavy weight, fire retardant, self-supporting, synthetic roof underlay with excellent vapour permeability. Featuring microporous, water-resistant film laminated to two layers of non-woven spun bonded polypropylene. DriStud EcoDri FR is designed for use beneath roof claddings to assist with the weathertightness and moisture management of buildings.



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 wind zones up to and including 'Extra High', as outlined in NZS 3604.



DRISTUD RU24 ROOF UNDERLAY CODEMARK™ CERTIFIED

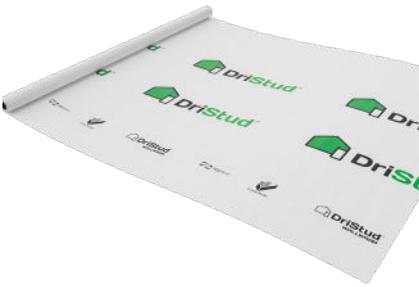
170 gsm self support synthetic non-woven roofing underlay consisting of two spun-bonded polyolefin fabric layers laminated to a micro porous water resistant film. Designed for use as a water absorbent, vapour permeable, water resistant roofing underlay under masonry tiles, metal tiles or profiled metal roof claddings, on timber or steel framing. Suitable for 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.



DRISTUD RU22 ROOF UNDERLAY CODEMARK™ CERTIFIED

145 gsm self support synthetic non-woven roofing underlay consisting of two spun-bonded polyolefin fabric layers laminated to a micro porous water resistant film. Intended for use on buildings designed in accordance with NZS 3604:2011 and in wind zones up to and including 'Extra High'. It can be installed over both timber and steel framing to ensure a dry roof cavity. RU22 can be used under masonry tiles, metal tiles and profiled metal roof claddings. RU22 can be used only where fire retardant underlay is NOT required.

Products – Wall Wrap



DRISTUD WALL WRAP CODEMARK™ CERTIFIED

- Fire retardant (FR Index: 3)
- UV exposure: 90 Days
- Vapour permeable, absorbent, air barrier (can be used on gable ends)
- Can be used where cladding is installed over a cavity system or direct fixed cladding
- Suitable for wind zones up to and including "Very High" and "Extra High" when used as a flexible underlay over a rigid wall underlay



DRISTUD ECOWALL WRAP CODEMARK™ CERTIFIED

- Made using 80% Global Recycle Standard Certified Recycled non-woven materials
- Fire retardant (FR Index: 3)
- UV Exposure: 90 Days
- Vapour permeable, absorbent, air barrier (can be used on gable ends)
- Can be used where cladding is installed over a cavity system or direct fixed cladding
- Suitable for wind zone up to and including "Very High" and "Extra High" when used as a flexible underlay over a rigid wall underlay



DRISTUD REPEL CODEMARK™ CERTIFIED

- Flexible air barrier
- Fire retardant (FR Index: 1)
- UV exposure: 90 Days
- Thick and strong
- Can be used where cladding is installed over a cavity system or direct fixed cladding
- Early close in wrap allowing internal work to be carried out before the cladding is installed



PROCTOR WRAPTITE SA CODEMARK™ CERTIFIED

- Self-adhering vapour permeable roof and wall underlay
- Multiple substrate compatibility
- Low flammability (Flammability Index: 1)
- Wide service temperature range, easily installed in all climates
- Zero VOC's, and free of any chemicals on the Living Building Challenge Red List
- Passive House Institute Certified Component phA
- Self-adhering, water resistant, exceptionally high vapour permeable air barrier wall and roof underlay



PROCTOR WRAPTITE UV-SA CODEMARK™ CERTIFIED

- Vapour permeable self-adhering airtight UV resistance wrap for open joint cladding
- Self-adhering and high UV resistance for open joint cladding applications
- High vapour permeable (AS 4200.1:2017 Class 4)
- Low flammability (Flammability Index: 1)
- Tough material resists punctures and tears
- Multiple substrate compatibility
- Low VOC's
- Exceptional airtightness

Products – Vapour Control Layer



PROCTORPASSIVE SMARTVAP 100 (SMARTVAP)

- When installed as a continuous layer, SmartVap100 will form an airtight layer, improving the thermal efficiency of the building enclosure
- Fire retardant (FR Index: ≤5)
- Airtight and variable water vapour diffusion resistance
- High water resistance
- Lightweight, easy to handle and semi-translucent for ease of installation
- AS/NZS 4200.1 testing and compliance

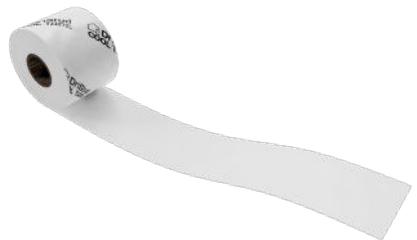
Products – Drainage Mat



PROCTORPASSIVE HC8 ENKAVENT

- Provides a drainage pathway for condensate or moisture
- Creates space for air movement between the roof sarking/underlay and metal roof
- Reduces corrosion risk - particularly important with zinc or galvanized steel roof sheets
- Offers a 14dB reduction in impact noise on metal roofing
- Allows for movement of roof sheets due to temperature fluctuations

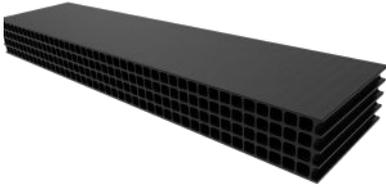
Products – Tape



DRISTUD COOL WINDOW FLASHING TAPE CODEMARK™ CERTIFIED

- UV Exposure: 180 days
- Service temperature range -28°C to 80°C and no primer required down to -6°C
- Only one layer required on the sill and no corner moulds required
- Can be used with DriStud Wall Wrap, EcoWall Wrap and REPEL flexible air barrier
- Can be used with rigid air barriers made of plywood, fibre cement and OSB
- Available in 3 widths: 75mm, 150mm and 200mm

Products – Vent



VENTED BATTEN VB20 BRANZ APPRAISED

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 16,000mm² per linear metre. VB20 is insect proof with 4mm vents preventing ingress of nesting insects.



VENTILATION & DRAINAGE BATTEN VB10 BRANZ APPRAISED

The VB10 is a polypropylene ventilation and drainage batten designed to facilitate passive airflow and cavity drainage between the roofing underlay or membrane and the roof cladding and prevents the transfer of dew point from the underside of the roofing underlay or membrane. It features a convenient peel-off adhesive backing, eliminating the need for nails or glue. Easy to install, VB10 is manufactured in 1800mm lengths for easy handling. The ventilated polypropylene structure is strong and robust, providing passive airflow of 8,000mm² per linear metre. VB10 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** roofs for roof pitches greater than 15°. 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°. 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.

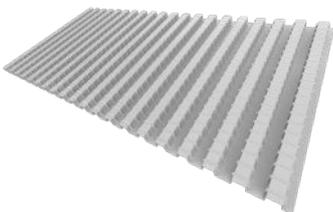


RIDGE VENT RV10P & RIDGE VENT DEEP TROUGH RV10DT BRANZ APPRAISED

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.

RV10P is designed to be compatible with roof cladding profiles with a trough depth of less than 34mm.

RV10DT is designed to be compatible with roof and cladding profiles with a trough depth greater than 34mm.



ROLL PANEL VENT/ INSULATION GUARD G502CL

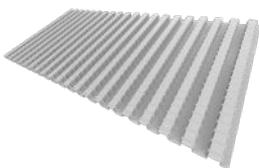
The VENT G502CL Insulation Guard/Roll Panel Vent/Eaves Baffle is designed to maintain a continuous 25mm air gap between the underside of the roofing underlay and the ceiling insulation at the eaves, ensuring consistent airflow into the roof space. Made from 90% recycled material, the G502CL features a castellated profile that is laid across the top of roof trusses or rafters, parallel to the eaves level. It is suitable for both new builds and roof renovations projects.



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 |
|--------------|---|---|---------------|----------------------|------------------|
| VB20 |  | Vented Batten (20mm thick) | 50 | 1,800 | 90.0 |
| VB10 |  | Ventilation & Drainage Batten (10mm thick) | 50 | 1,800 | 90.0 |
| G1200N |  | Over Fascia Vent Calculated Passive Air Flow: 10,000mm ² per LM | 20 | 1,000 | 20.0 |
| G2500N |  | Over Fascia Vent Calculated Passive Air Flow: 25,000mm ² per LM | 20 | 1,000 | 20.0 |
| RV10P |  | Ridge Vent Cut RV10P in half lengthwise to use for abutments and barge details. | 6 | 1,200 | 7.2 |
| RV10DT |  | Ridge Vent Deep Trough Cut RV10DT in half lengthwise to use for abutments and barge details. | 6 | 1,200 | 7.2 |
| G502CL |  | Roll Panel Vent/Insulation Guard/Eaves Baffle | 2 | 6,000 | 12.0 |
| G1275 |  | Eaves Comb Filler | 50 | 1,000 | 50.0 |

Steel Longrun
Trussed Roof
Systems

TECHNICAL ADVICE

DriSpace has a dedicated Technical Department which can help with installation details, view drawings for approval and give specialist advice on the correct use of the DriSpace products

www.drispace.co.nz | technical@drispace.co.nz | 0800 374 883

Steel Longrun Vented Roof System

TRUSSED ROOF PITCH 5° TO <15°

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|--|--------------------|--|---|
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 5° to <15° Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G2500N G502CL VB10 <i>Optional: G1275</i> | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting† or plastic strapping |
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 5° to <15° Ventilated with non-fire retardant underlay | RU24 or RU22 | | †75mm galvanized hexagonal wire netting AS/NZS 4534. |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is from 5° to <15°.
- For ventilated roof cavity with 25,000mm² per LM airflow to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

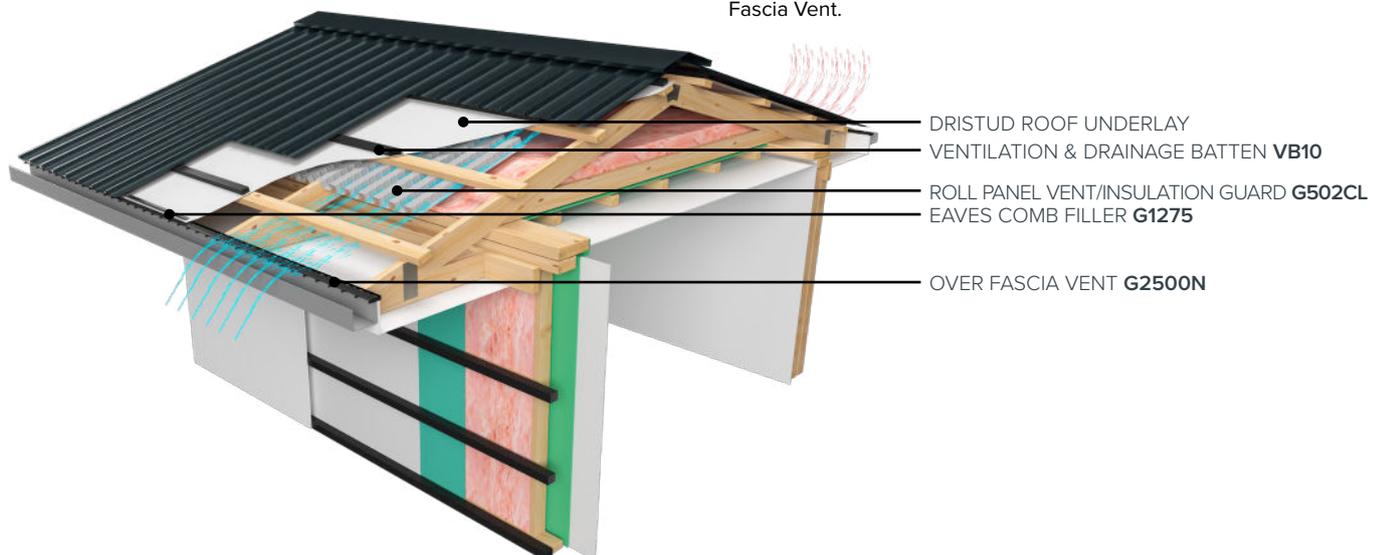
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

LINING

- Lay the G502CL Roll Panel Vent/Insulation Guard/Eaves Baffle 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 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.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the 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 and G2500N.
- Fascia height to drop by 32mm to allow for G2500N Over Fascia Vent.



Steel Longrun Vented Roof System

TRUSSED ROOF PITCH 15° TO <30°

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|---|--------------------|---|--|
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 15° to <30° Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G1200N G502CL VB10 Optional: G1275 | Galvanised or s/s staples, clouts or purlin screws or self tapper. |
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 15° to <30° Ventilated with non-fire retardant underlay | RU24 or RU22 | | |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is from 15° to <30°.
- For ventilated roof cavity with 10,000mm² per LM airflow to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

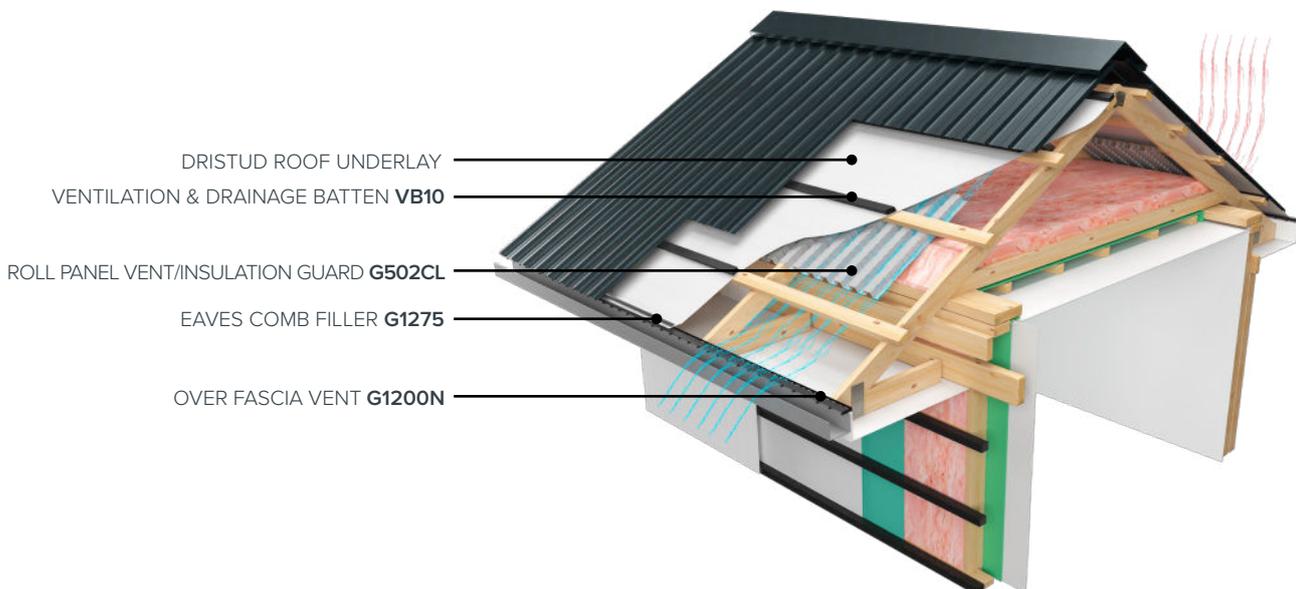
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

LINING

- Lay the G502CL Roll Panel Vent/Insulation Guard/Eaves Baffle 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 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.
- Apply DriStud 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.
- Terminating the underlays at the ridge purlins is recommended.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the 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 and G1200N.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.



Steel Longrun Vented Roof System

TRUSSED ROOF PITCH 30° OR ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|---|--------------------|---|---|
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof Pitch: 30° or above Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G1200N G502CL VB10 RV10P or RV10DT <i>Optional: G1275</i> | Galvanised or s/s staples, clouts or purlin screws or self taper. |
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 30° or above Ventilated with non-fire retardant underlay | RU24 or RU22 | | |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is from 30° or above.
- For ventilated roof cavity with 10,000mm² per LM airflow in and release warm air of 8,000mm² per LM through the apex to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

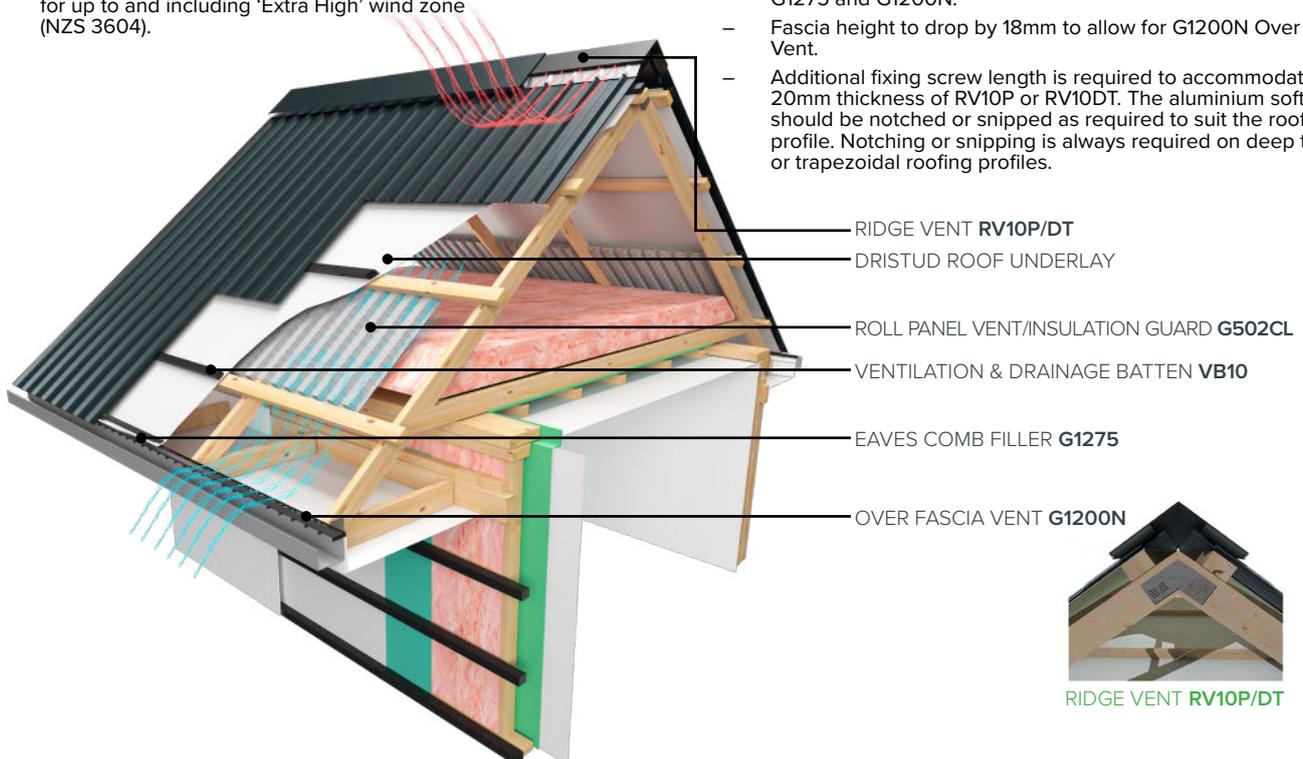
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

LINING

- Lay the G502CL Roll Panel Vent/Insulation Guard/Eaves Baffle 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 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.
- Apply DriStud roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and laps must be overlapped by a minimum of 150mm.
- Terminate the underlays at the ridge purlins to create airpath.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the purlins.
- Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm on the roof centrally at the apex.
- Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for the 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 taper to fix on metal fascia, nails for timber fascia for G1275 and G1200N.
- 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. The aluminium soft edge should be notched or snipped as required to suit the roofing profile. Notching or snipping is always required on deep trough or trapezoidal roofing profiles.



Steel Longrun Vented Roof System

TRUSSED MONO PITCH ROOF 5° TO <15°

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|--|--------------------|--|--|
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 5° to <15° Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G2500N G502CL VB10 RV10P or RV10DT Optional: G1275 | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting† or plastic strapping. |
| <ul style="list-style-type: none"> Steel longrun trussed roof Roof pitch: 5° to <15° Ventilated with non-fire retardant underlay | RU24 or RU22 | | †75mm galvanized hexagonal wire netting to AS/NZS 4534, builders tape or other strong durable materials for roof pitch less than 10° |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun trussed roof, where the roof pitch is from 5° to <15°.
- For ventilated roof cavity with 25,000mm² per LM airflow in from the eaves and release warm air using the natural convection of rising warm air of 8,000mm² per LM through the barge to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

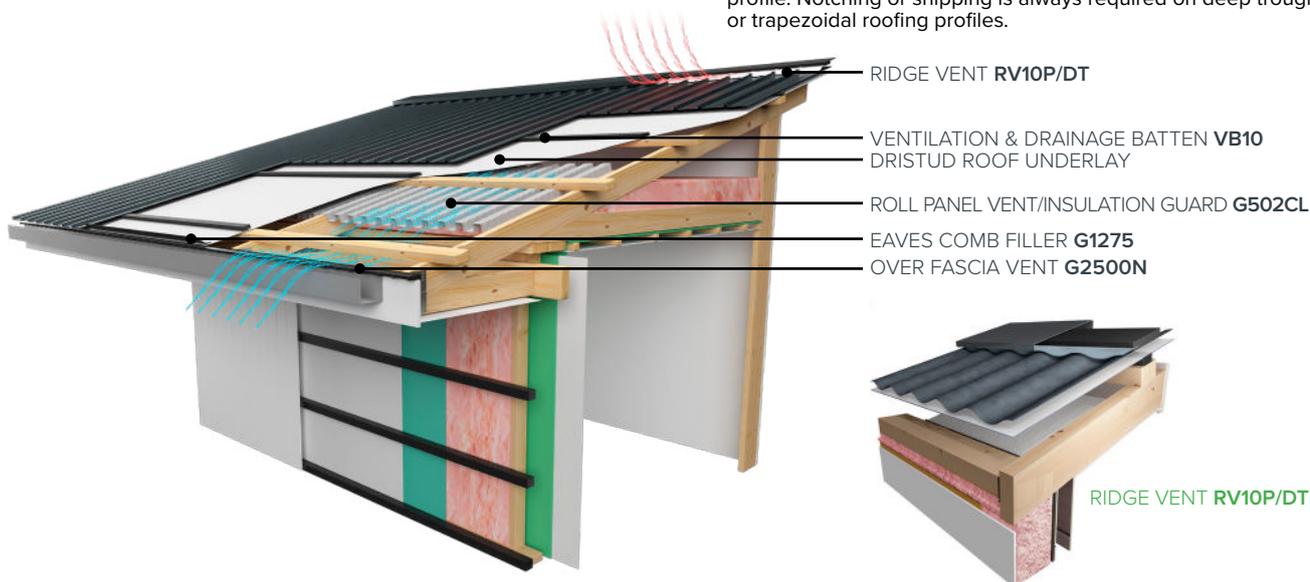
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

LINING

- Lay the G502CL Roll Panel Vent/Insulation Guard/Eaves Baffle 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.
- Apply DriStud 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.
- Terminating the underlays at the ridge purlins to create airpath.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the purlins.
- 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.
- Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for airflow.

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 and G2500N.
- 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. The aluminium soft edge should be notched or snipped as required to suit the roofing profile. Notching or snipping is always required on deep trough or trapezoidal roofing profiles.



Steel Longrun Vented Roof System

TRUSSED MONO ROOF PITCH 15° OR ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|--|--------------------|---|--|
| <ul style="list-style-type: none"> Steel longrun trussed mono roof Roof pitch: 15° or above Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G1200N G502CL VB10 RV10P or RV10DT <i>Optional: G1275</i> | Galvanised or s/s staples, clouts or purlin screws or self tapper. |
| <ul style="list-style-type: none"> Steel longrun trussed mono roof Roof pitch: 15° or above Ventilated with non-fire retardant underlay | RU24 or RU22 | | |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun trussed mono pitch roof, where the roof pitch is 15° or above.
- For complete ventilated roof system with 10,000mm² per LM airflow in from the eaves and release warm air using the natural convection of rising warm air of 8,000mm² per LM through the barge to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

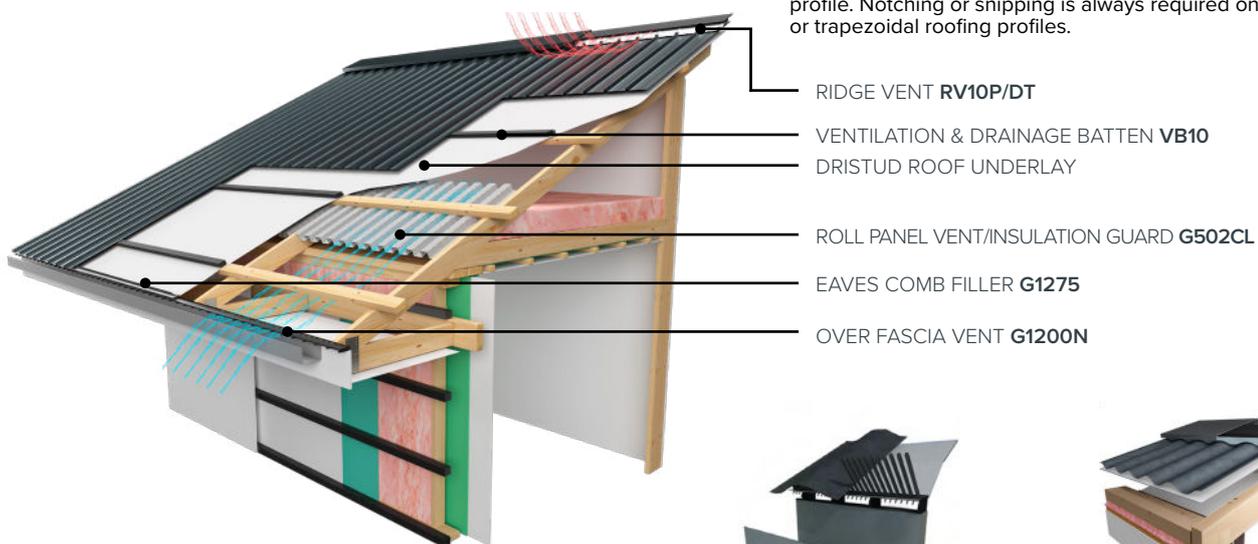
The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

LINING

- Lay the G502CL Roll Panel Vent/Insulation Guard/Eaves Baffle 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 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.
- Apply DriStud roof underlay from the lowest point to allow laps to shed water. Pull taut to prevent ponding of water. All edge and laps must be overlapped by a minimum of 150mm.
- Terminate the underlays at the ridge purlins to create airpath.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the purlins.
- Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm on the roof centrally at the apex.
- Minimum 20mm gap between the bottom purlin and Over Fascia Vent is required for the 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 and G1200N.
- 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. The aluminium soft edge should be notched or snipped as required to suit the roofing profile. Notching or snipping is always required on deep trough or trapezoidal roofing profiles.

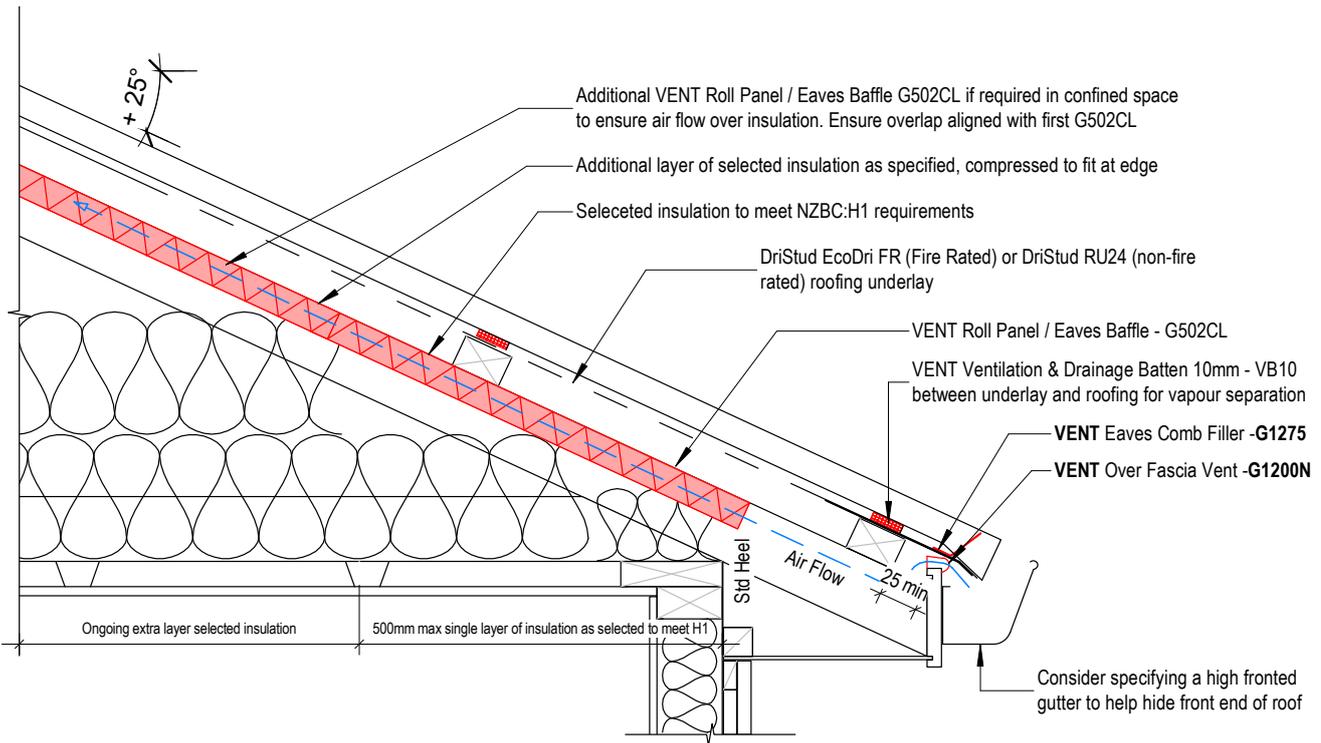


EAVES COMB FILLER G1275
OVER FASCIA VENT G2500N

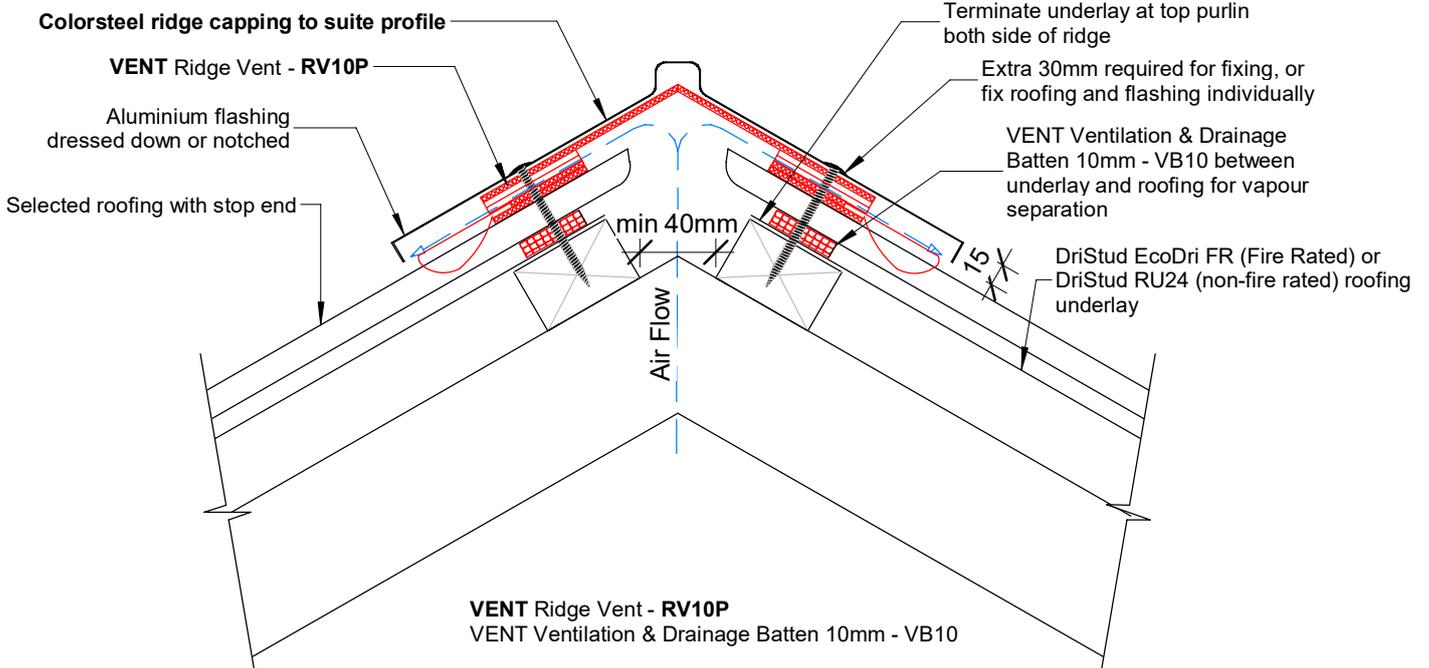
RIDGE VENT RV10P/DT

Steel Longrun Trussed Roof System

ROOF PITCH 15° TO 30°



Ridge Vent - RV10P/RV10DT



SELECTED ROOF CLADDING

roof profiles below 34mm

Ventilated Ridge

Use this method to provide ventilation to trussed roofs only. Vent VB20 also required for skillion roofs

Main contractor to ensure correct placement of purlins for fixing of Ridge Vent

The Ridge cap is to be supplied by the roof cladding supplier.

200mm ridge cap recommended to hide the soft edge flashing (if required)

Steel Longrun
Skillion Roof
Systems

TECHNICAL ADVICE

DriSpace has a dedicated Technical Department which can help with installation details, view drawings for approval and give specialist advice on the correct use of the DriSpace products

www.drispace.co.nz | technical@drispace.co.nz | 0800 374 883

Steel Longrun Vented Roof System

SKILLION ROOF PITCH 5° OR ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|---|--------------------|--|--|
| <ul style="list-style-type: none"> Steel longrun skillion roof Roof pitch: 5° or above Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G2500N G502CL VB10 RV10P or RV10DT Optional: G1275 | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting [†] or plastic strapping. |
| <ul style="list-style-type: none"> Steel longrun skillion roof Roof pitch: 5° or above Ventilated with non-fire retardant underlay | RU24 or RU22 | | [†] 75mm galvanized hexagonal wire netting to AS/NZS 4534, builders tape or other strong durable materials for roof pitch less than 10° |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun skillion roof, where the roof pitch is 5° or above.
- For ventilated roof cavity with 25,000mm² per LM airflow in from the eaves and release warm air using the natural convection of rising warm air of 8,000mm² per LM through the apex to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

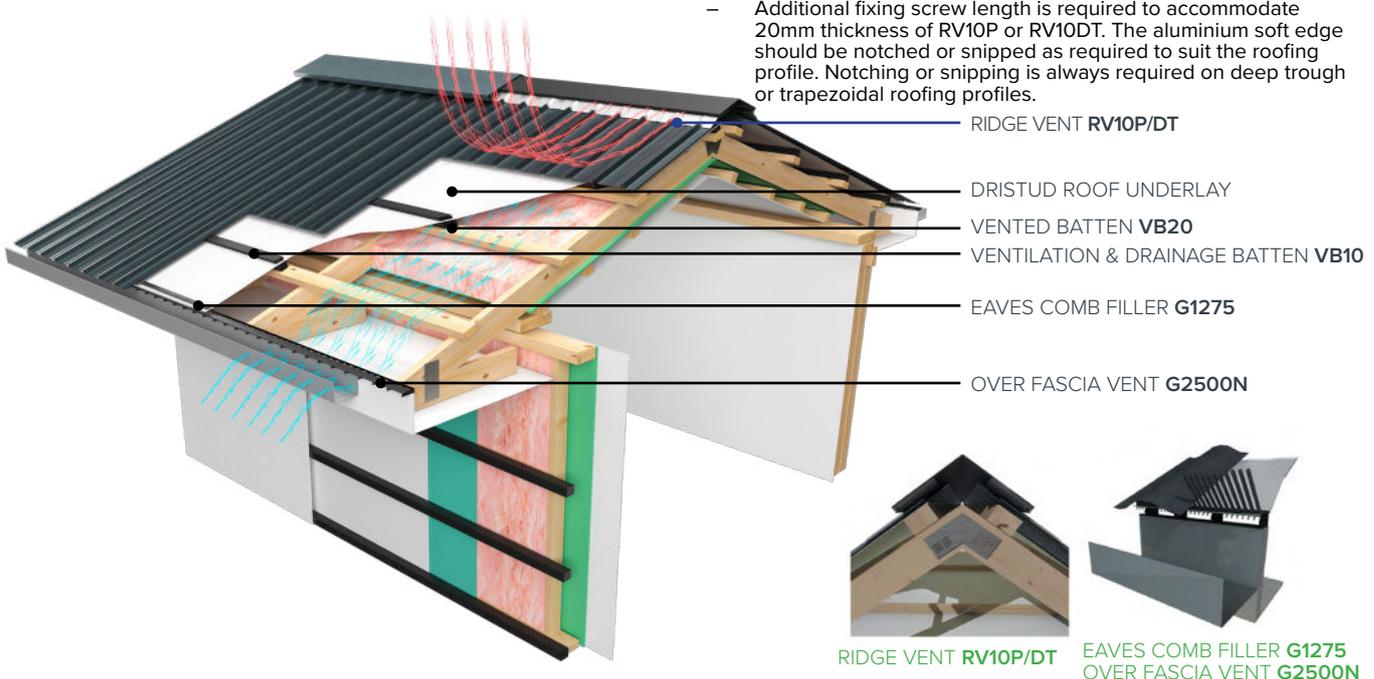
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

LINING

- 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.
- Peel-off adhesive backing of VB20 Vented Batten and attach to purlins for temporary fixing. Secure VB20 with exterior cladding fixings.
- Apply DriStud 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.
- Terminate the underlays at the ridge purlins to create airpath.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the purlins.
- Install RV10P for trough less than 34mm or RV10DT for trough greater than 34mm on the roof centrally at the apex.
- 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 and G2500N.
- 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. The aluminium soft edge should be notched or snipped as required to suit the roofing profile. Notching or snipping is always required on deep trough or trapezoidal roofing profiles.



Steel Longrun Vented Roof System

SKILLION MONO PITCH ROOF 5° OR ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|---|--------------------|---|--|
| <ul style="list-style-type: none"> Steel longrun skillion mono roof Roof pitch: 5° or above Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G2500N VB20 RV10P or RV10DT VB10 <i>Optional: G1275</i> | Galvanised or s/s staples, clouts or purlin screws or self tapper. Wire netting or plastic strapping |
| <ul style="list-style-type: none"> Steel longrun trussed mono roof Roof pitch: 5° or above Ventilated with non-fire retardant underlay | RU24 or RU22 | | †75mm galvanized hexagonal wire netting AS/NZS 4534. |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for steel longrun trussed mono pitch roof, where the roof pitch is 15° or above.
- For complete ventilated roof system with 25,000mm² per LM airflow in from the eaves and release warm air using the natural convection of rising warm air of 8,000mm² per LM through the barge to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.
- Install G1275 Eaves Comb Filler on the Over Fascia Vent to prevent bird ingress and nesting insects.

MANAGING DEW POINT CONDENSATION WITH VB10

When roof underlay is fixed directly against steel longrun roofing, both materials cool to the same temperature, particularly at night due to night sky radiation. This often results in dew point condensation forming beneath the underlay.

Install VB10 on top of the underlay to create a ventilation and drainage pathway. This prevents dew point condensation from forming on the roof underlay.

BENEFITS

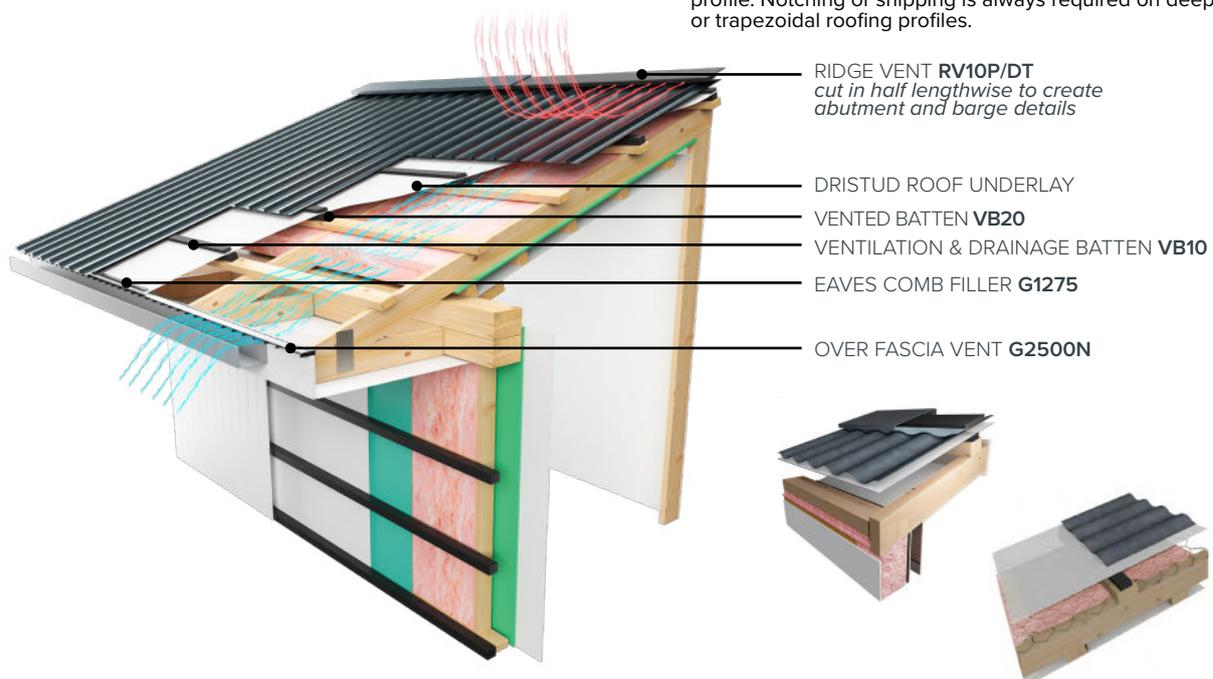
The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

LINING

- 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.
- Apply DriStud 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.
- Terminate the underlays at the ridge purlins to create airpath.
- Peel-off adhesive backing of VB10 Ventilation & Drainage Battens and attach to purlins above the roofing underlay for temporary fixing. Cladding fixings must be fixed through the VB10 into the purlins.
- 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.
- 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 and G2500N.
- 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. The aluminium soft edge should be notched or snipped as required to suit the roofing profile. Notching or snipping is always required on deep trough or trapezoidal roofing profiles.



Steel Longrun Sarked Roof with Drainage Mat

ROOF PITCH 5° OR ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|--|----------------------------|--|---|
| <ul style="list-style-type: none"> – Standing seam roof system – Ventilated with drainage mat – Fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> – G2500N – VB20 – RV10P or RV10DT – ProctorPassive HC8 EnkaVent – <i>Optional: G1275</i> | Galvanised or s/s staples, clouts or purlin screws or self tapper. Scissors or knife. |
| <ul style="list-style-type: none"> – Standing seam roof system – Ventilated with drainage mat – Self-adhering fire retardant underlay | ProctorPassive Wraptite SA | | |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- A complete roof system for sarked roof with all types of steel longrun where the roof pitch is 5° or above.
- Roof space ventilated with 25,000mm² per LM airflow from the eaves and release rising warm air of 8,000mm² per LM through the apex to minimise condensation and mould growth.

ADDITIONAL VENTILATION

Install ProctorPassive HC8 EnkaVent 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

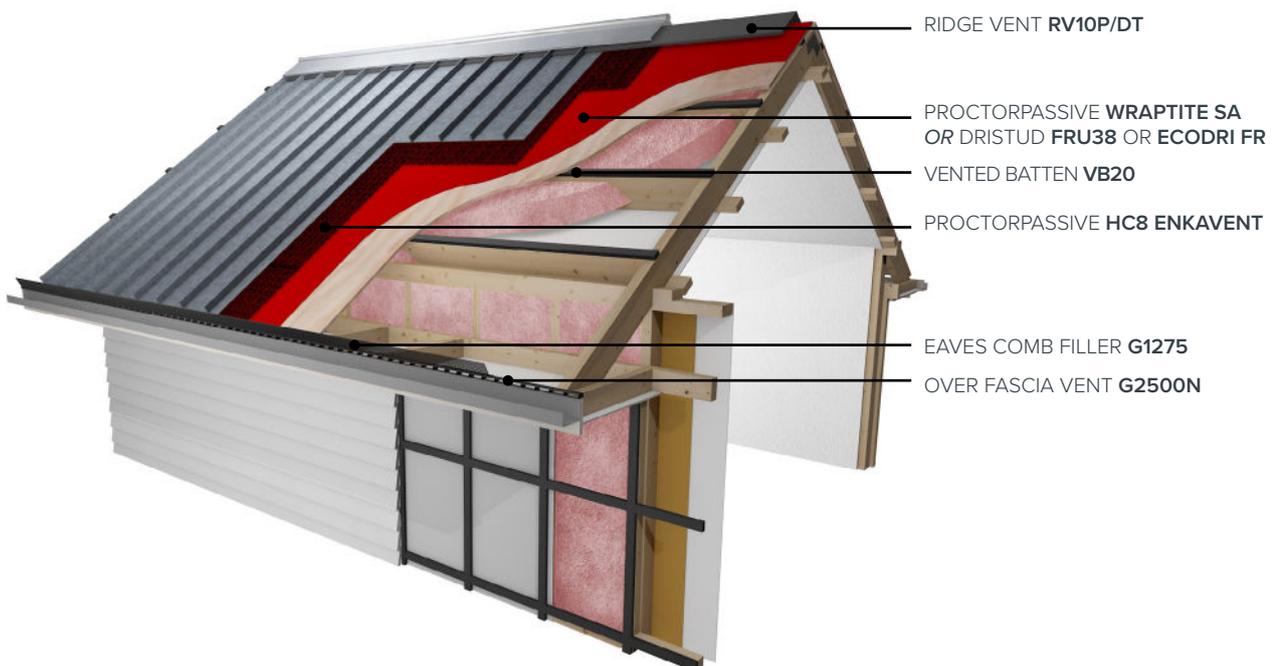
- Allows some movement of the roof sheet under temperature fluctuation.
- Allows for moisture to escape from the roofing structure above and below the sarking.
- The system components listed above the ProctorPassive HC8 EnkaVent have low flammability with flammability index of ≤5 are deemed fire retardant in accordance with AS 1530.2

LINING

1. Apply DriStud EcoDri FR or 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 to achieve lap seals.
2. If using ProctorPassive Wraptite SA, adhere to 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 <34mm and RV10DT for trough ≥34mm.
5. Terminate the underlays at the apex to create airpath.

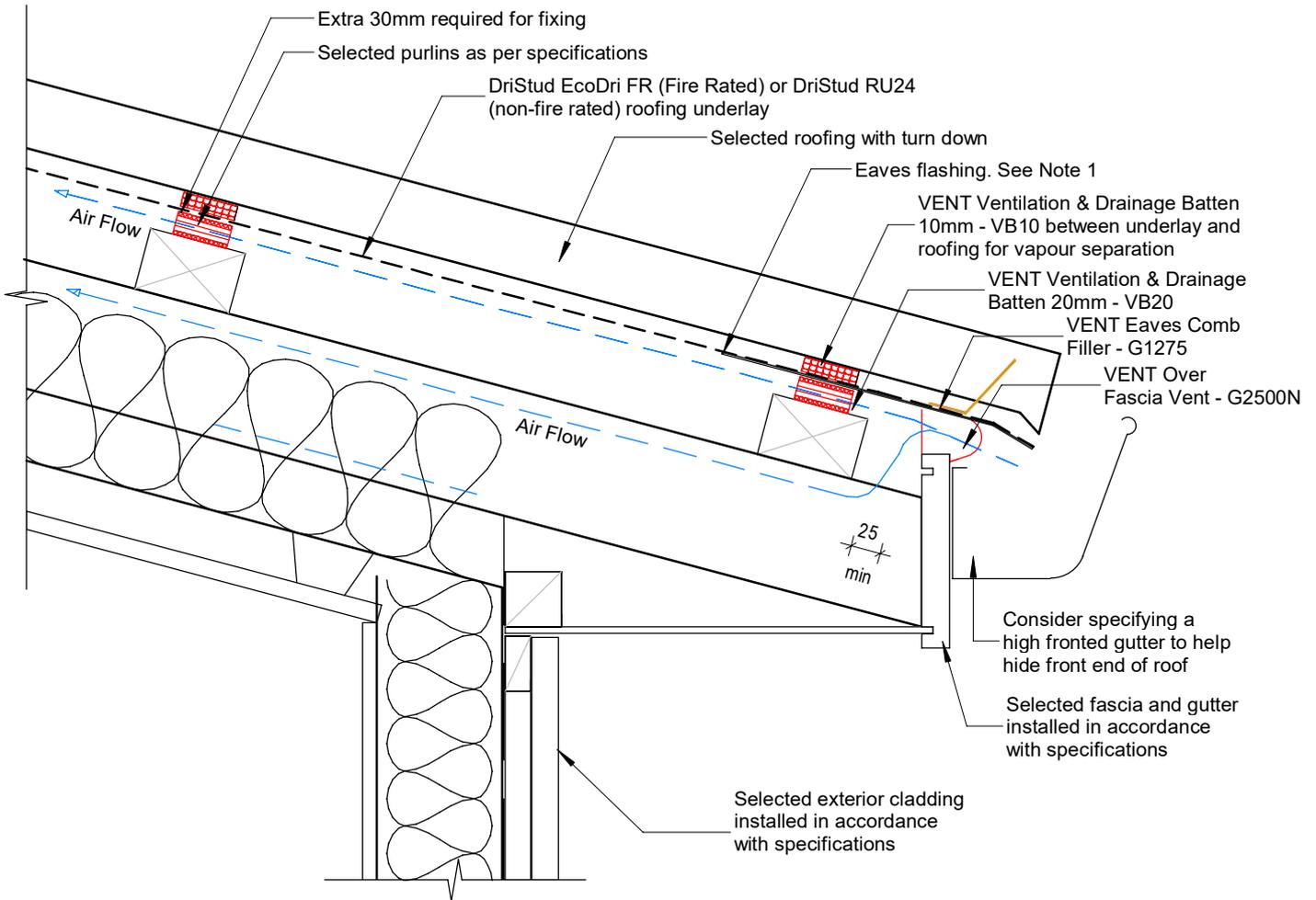
FIXINGS / FRAMING

- Framing must be specified and installed in accordance with NZBC 3604.
- ProctorPassive HC8 EnkaVent 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.



Steel Longrun Skillion Roof System

ROOF PITCH 5° OR ABOVE



- VENT Over Fascia Vent - G2500N
- VENT Eaves Comb Filler - G1275
- VENT Ventilation & Drainage Batten 20mm - VB20
- VENT Ventilation & Drainage Batten 10mm - VB10

SELECTED ROOF CLADDING

Ventilated Fascia - Skillion Roof with Eave
(25.000mm² lin/m)

Note 1

Eave flashing required where all of the following conditions are met
 - Roof pitch less than 10° and
 - Soffit width less than or equal to 100mm and
 - Wind zone is Very High or greater.

Trussed Roof

Pressed Tile

Vented Roof Systems

TECHNICAL ADVICE

DriSpace has a dedicated Technical Department which can help with installation details, view drawings for approval and give specialist advice on the correct use of the DriSpace products

www.drispace.co.nz | technical@drispace.co.nz | 0800 374 883

Pressed Tiled Vented Roof System

TRUSSED ROOF PITCH: 15° TO <30° ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|--|--------------------|--|--|
| <ul style="list-style-type: none"> Pressed tile trussed roof Roof pitch: 15° to <30° Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G1200N G502CL | Galvanised or s/s staples, clouts or purlin screws or self tapper. |
| <ul style="list-style-type: none"> Pressed tile trussed roof Roof pitch: 15° to <30° Ventilated with non-fire retardant underlay | RU24 or RU22 | | |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for trussed pressed tile roof, where the roof pitch is 15° to <30°.
- A complete ventilated roof system with 10,000mm² per LM airflow in and release warm air of 8,000mm² per LM through the apex to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.

ADDITIONAL VENTILATION

Eaves Comb Filler (G1275): Install G1275 on the Over Fascia Vent (G1200N) to prevent bird ingress and nesting insects.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year-round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

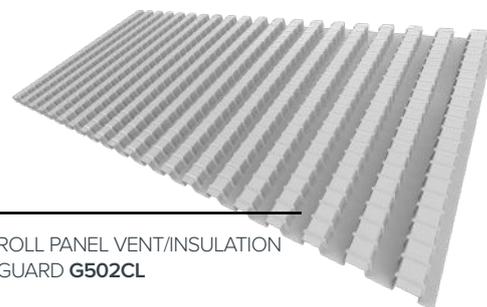
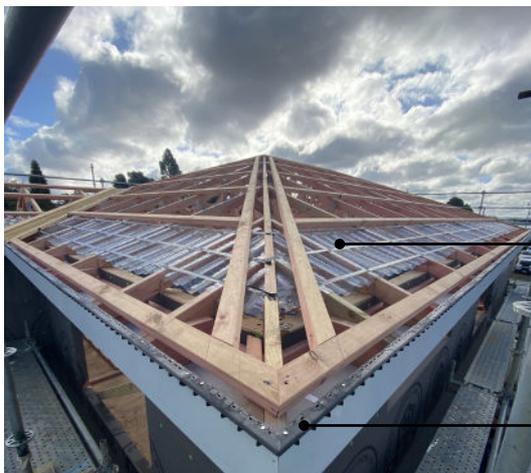
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604).

LINING

- Lay G502CL Roll Panel Vent/Insulation Guard 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 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.
- Apply DriStud 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.
- Roof underlay must be terminated at the ridge purlins.
- 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 and G1200N.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.



ROLL PANEL VENT/INSULATION GUARD G502CL



OVER FASCIA VENT G2500N

Pressed Tile Vented Roof System

TRUSSED ROOF PITCH: 30° OR ABOVE

| DRISPACE SPECIFICATION | UNDERLAY | VENT COMPONENTS | FIXING AND ACCESSORIES |
|--|--------------------|--|---|
| <ul style="list-style-type: none"> Pressed tile trussed roof Roof pitch: 30° or above Ventilated with fire retardant underlay | EcoDri FR or FRU38 | <ul style="list-style-type: none"> G1200N G502CL VB10 | Galvanised or s/s staples, clouts or purlin screws or self tapper. Scissors or knife. |
| <ul style="list-style-type: none"> Pressed tile trussed roof Roof pitch: 30° or above Ventilated with non-fire retardant underlay | RU24 or RU22 | | |

SPECIFICATION AND DRAWINGS (RVT, PLN, PDF, DWG) ARE AVAILABLE UPON REQUEST

USE CASE

- The system is for trussed pressed tile roof, where the roof pitch is 30° or above.
- A complete ventilated roof system with 10,000mm² per LM airflow in and release warm air of 8,000mm² per LM through the apex to minimise condensation and mould growth.
- Use EcoDri FR or FRU38 for intertenancy dwellings or where fire retardant performance is required.

ADDITIONAL VENTILATION

Eaves Comb Filler (G1275): Install G1275 on the Over Fascia Vent (G1200N) to prevent bird ingress and nesting insects.

BENEFITS

The roof system utilises high vapour permeable and self-supporting DriStud Roof Underlays and VENT passive ventilation components. Passive ventilation operating year-round with no moving parts or energy consumption, with 4mm vents preventing the ingress of nesting insects.

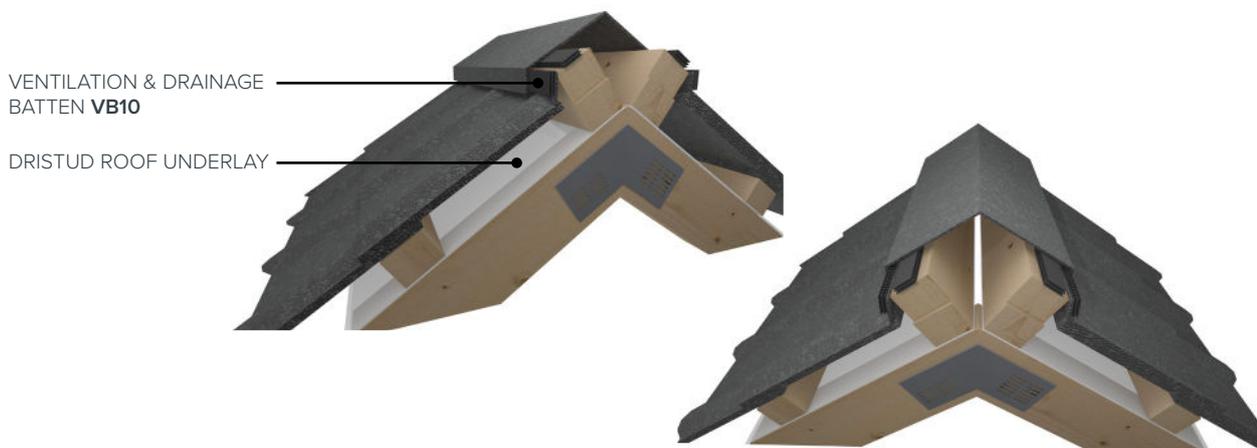
The system is compatible with timber and metal frames and suitable for up to and including 'Extra High' wind zone (NZS 3604)

LINING

- Lay G502CL Roll Panel Vent/Insulation Guard 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 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.
- Apply DriStud 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.
- Roof underlay must be terminated at the ridge purlins.
- 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 and G1200N.
- Fascia height to drop by 18mm to allow for G1200N Over Fascia Vent.



Fire Retardant

Flexible Wall Underlay System

TECHNICAL ADVICE

DriSpace has a dedicated Technical Department which can help with installation details, view drawings for approval and give specialist advice on the correct use of the DriSpace products

www.drispace.co.nz | technical@drispace.co.nz | 0800 374 883

FR Flexible Wall Underlay System

FIRE RETARDANT VAPOUR PERMEABLE AIR BARRIER SYNTHETIC WALL UNDERLAY

| DRISPACE SPECIFICATION | DRISPACE SYSTEM COMPONENTS |
|---|---|
| Fire Retardant Wall Wrap with: <ul style="list-style-type: none"> – Direct fixed cladding – Drained and vented cavity cladding – Masonry veneer cladding | <ul style="list-style-type: none"> – DriStud Wall Wrap, DriStud EcoWall Wrap or DriStud REPEL – DriStud Cool Window Flashing Tape – VB20* – EPDM flexible seals – Polypropylene strap or 75mm galvanised mesh/wire |

Proctor SmartVap 100

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

USE CASE

- It is a fire-retardant flexible wall underlay system and is suitable for both timber and steel framed buildings.
- Can be direct fixed or installed in conjunction with a minimum 18mm drained cavity.
- 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.
- The system includes multiple components to offer solutions to airtightness and weathertightness for the envelope.
- 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 ST, 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, DriStud EcoWall Wrap and DriStud REPEL are fire retardant, vapour permeable, air barrier, absorbent and durable underlays 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.

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

LINING

1. DriStud Wraps are 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 150mm end lap over studs. Tape vertical joints, 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.
3. 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.
4. 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.
5. Where stud spacings are greater than 450mm, 75mm galvanised mesh or wire galvanised 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.
6. Use flexible EPDM seals or Marshall's Trade Seals for wall cladding pipe and service penetration to E2/AS1.
7. DriStud REPEL Installation: REPEL enables internal work to proceed before cladding is applied. Therefore, it is crucial to strictly follow the REPEL installation instructions outlined in the guide. Please visit our website - www.drisspace.co.nz/product/dristud-repel-vapour-permeable-flexible-air-barrier/

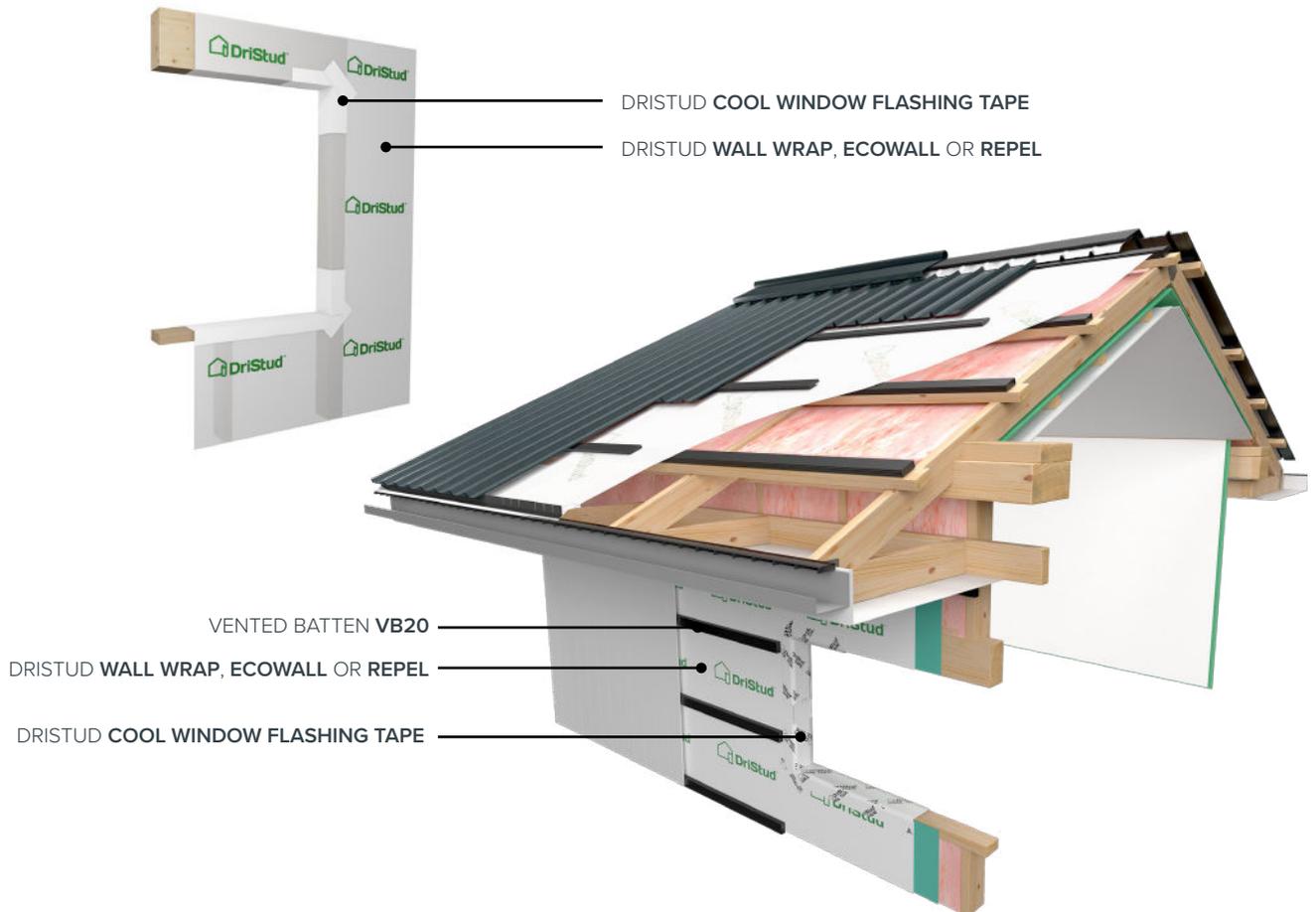
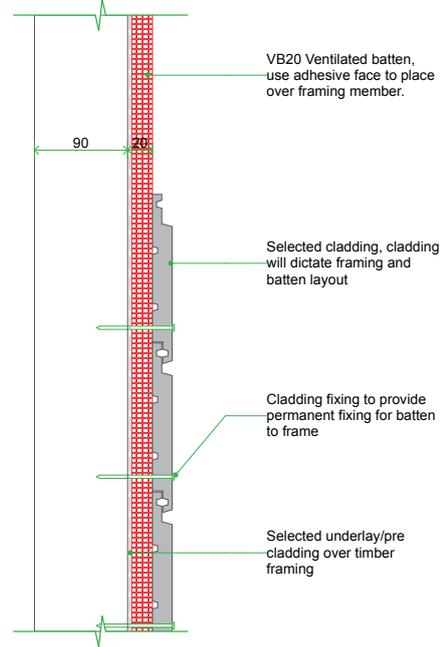
FR Flexible Wall Underlay System (Cont.)

TRUSSED ROOF PITCH: 30° OR ABOVE

FIXINGS / FRAMING

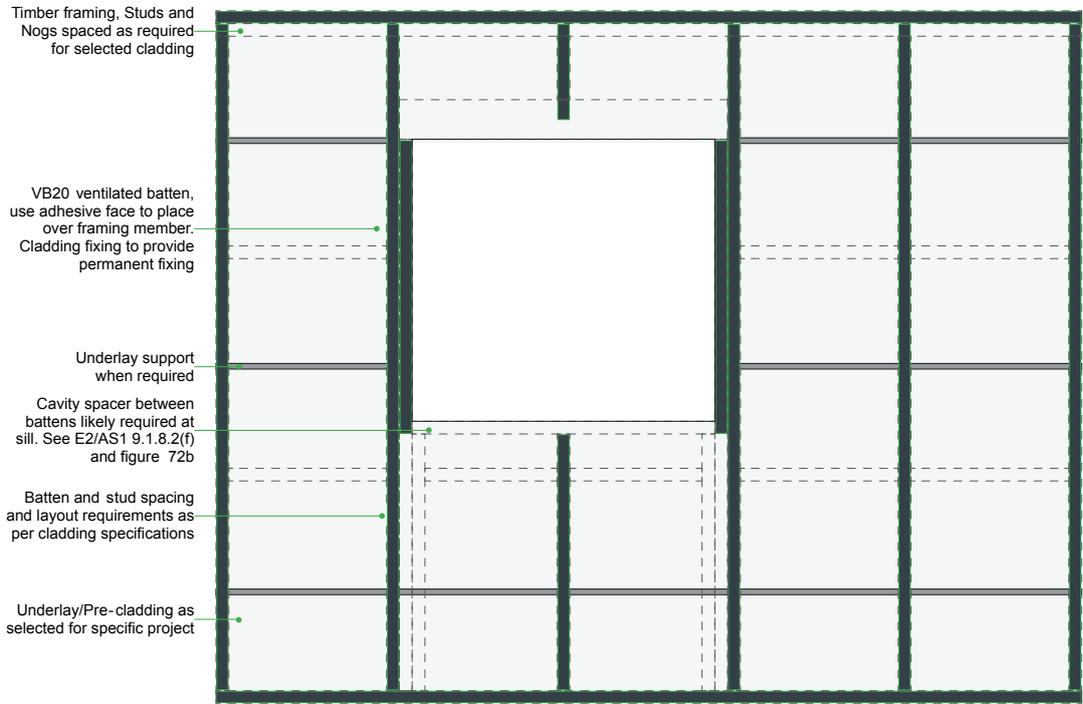
- Framing must be specified and installed in accordance with NZBC 3604.
- To fix DriStud Wall Wrap or DriStud EcoWall Wrap to the timber framing, use galvanised little grippers, 6-8mm staples or 20mm large head galvanised clouts to fix the underlay securely to the frame with fasteners at 300mm centres 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 or DriStud EcoWall 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

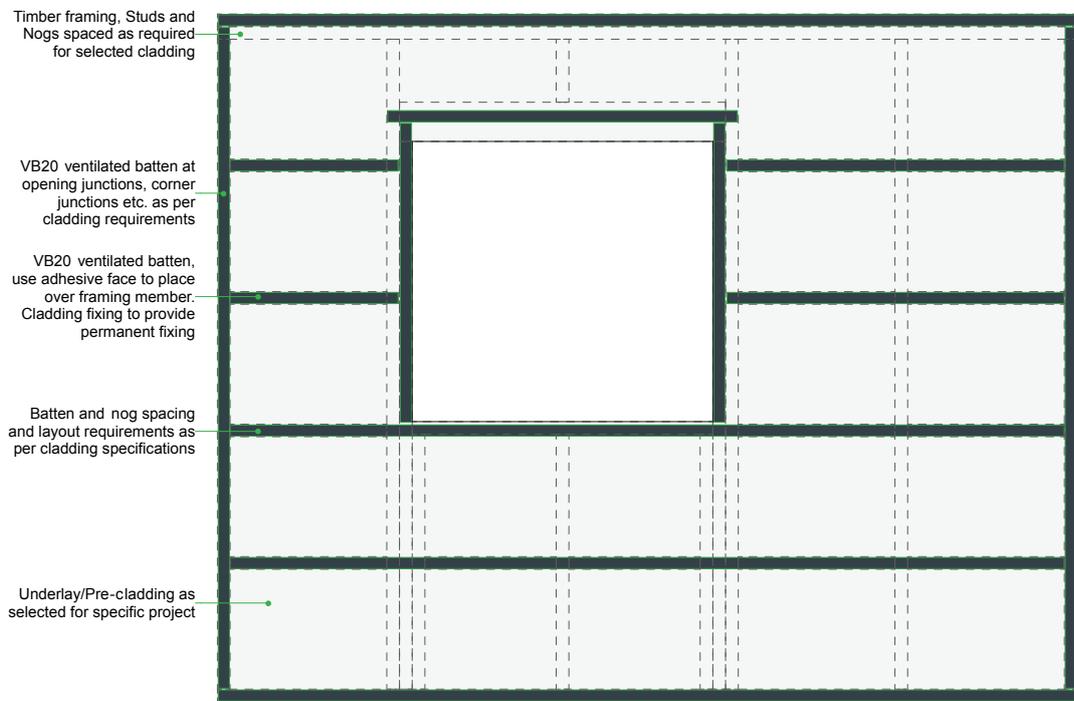


FR Flexible Wall Underlay System (Cont.)

VENT VB20 HORIZONTAL CLADDING SYSTEM



VENT VB20 VERTICAL CLADDING SYSTEM



FR Wall System on Rigid Air Barrier

FLEXIBLE WALL UNDERLAY ON RIGID WALL UNDERLAY

| DRISPACE SPECIFICATION | DRISPACE SYSTEM COMPONENTS |
|---|---|
| <ul style="list-style-type: none"> Fire retardant flexible wall underlay installed on rigid wall underlays | <ul style="list-style-type: none"> DriStud Wall Wrap, DriStud EcoWall Wrap or DriStud REPEL DriStud Cool Window Flashing Tape VB20* EPDM flexible seals or Marshall's Trade Seals |

Proctor SmartVap 100

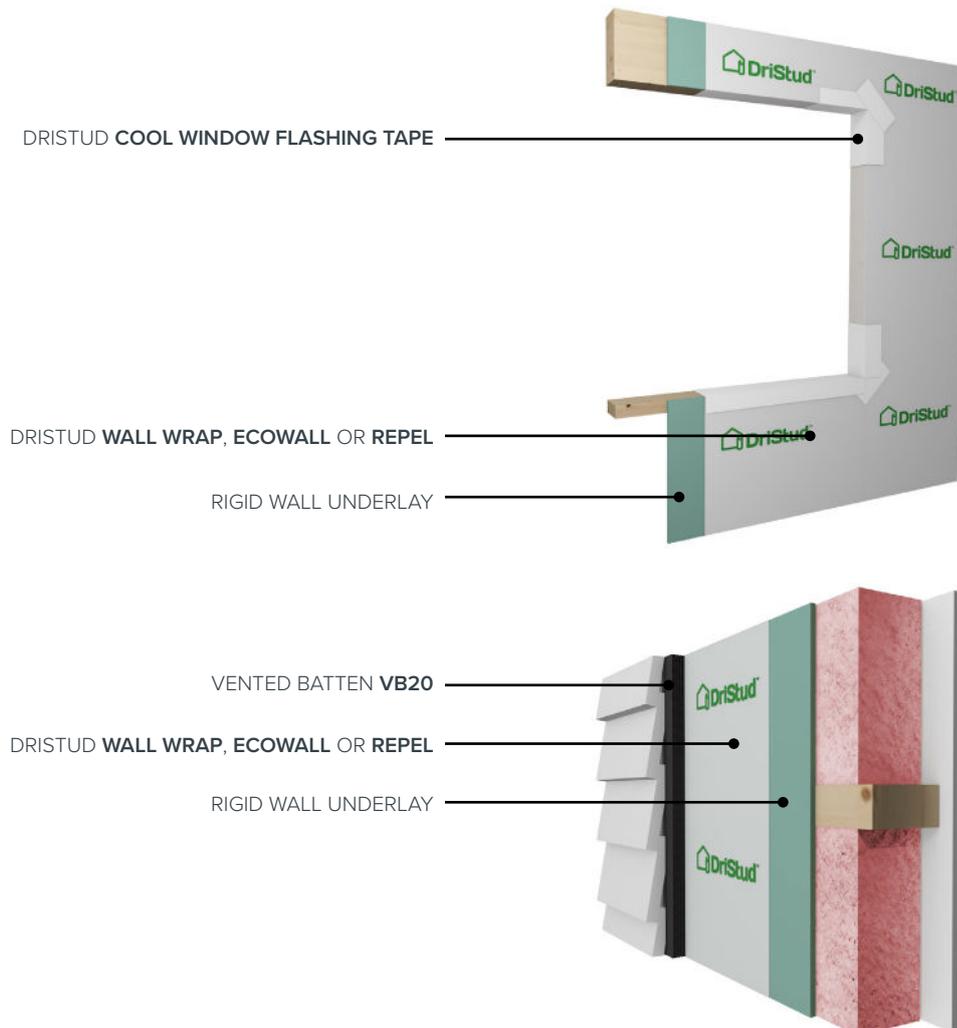
*NB: The VB20 should be treated as a non-structural cavity batten.

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 airtightness benefits to rigid air barriers for both cavity and direct fixed with absorbent and non-absorbent claddings.

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 ST, 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.



FR Wall System on Rigid Air Barrier (Cont.)

FIRE RETARDANT VAPOUR PERMEABLE AIR BARRIER SYNTHETIC WALL UNDERLAY

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 airtightness 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 Wraps 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.

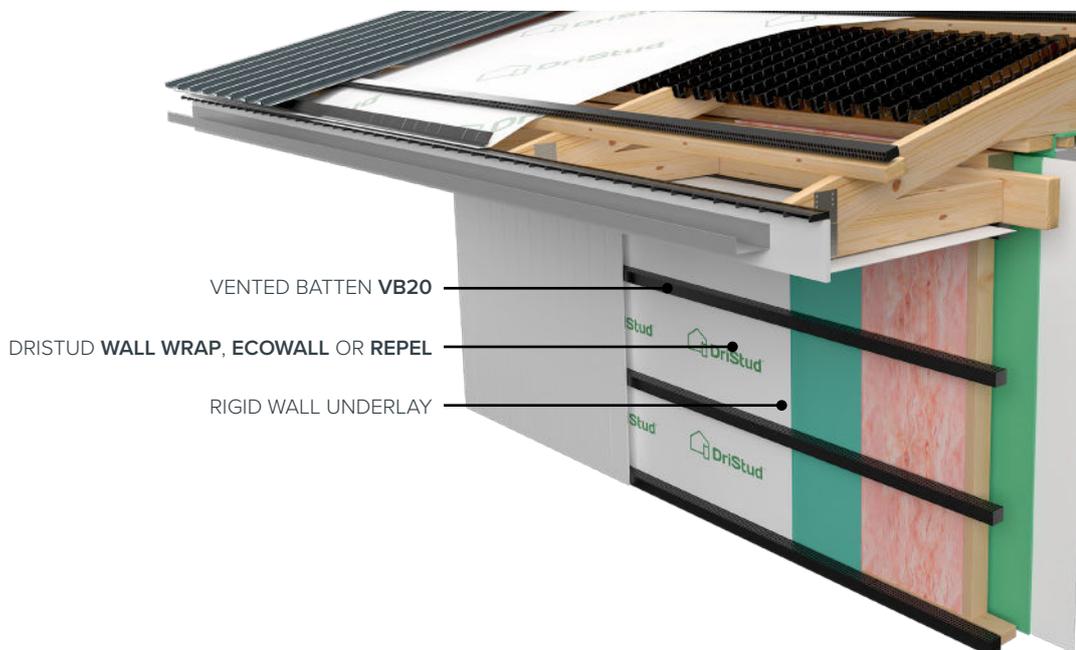
LINING

1. DriStud Wraps are 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 the openings and leave covered until windows and doors are ready to be installed. Form openings in the underlay 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.
5. DriStud REPEL Installation: REPEL enables internal work to proceed before cladding is applied. Therefore, it is crucial to strictly follow the REPEL installation instructions outlined in the guide. Please visit our website for more information - www.drisspace.co.nz/product/dristud-repel-vapour-permeable-flexible-air-barrier/

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 galvanised little grippers, 6-8mm staples or 20mm large head galvanised clouts at 300mm centres horizontally and vertically. Additional fasteners should be used around each opening to be cut out.



ProctorPassive Wraptite Wall Systems

SELF ADHERING MEMBRANE ON RIGID WALL UNDERLAY

| DRISPACE SPECIFICATION | DRISPACE SYSTEM COMPONENTS | VENT SYSTEM |
|---|--|---|
| Fire Retardant Wall Wrap with: <ul style="list-style-type: none"> – direct fixed cladding – drained and vented cavity cladding – masonry veneer cladding | <ul style="list-style-type: none"> – ProctorPassive Wraptite SA or ProctorPassive Wraptite UV-SA – DriStud Cool Window Flashing Tape – VB20* – EPDM flexible seals – Polypropylene strap or 75mm galvanised mesh/wire | <ul style="list-style-type: none"> – VB20* |

Proctor SmartVap 100

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

USE CASE

- Wraptite SA and UV-SA are CodeMark™ Certified, self-adhesive, vapour permeable external flexible air barriers.
- Use Wraptite SA for closed cladding applications and UV-SA for high UV environments including open joint cladding applications.
- Proctor Wraptite SA is an externally applied fully adhered vapour permeable weather resistant barrier/air barrier underlay for walls and roofs onto the various substrates with cavity wall claddings.
- Wraptite SA & UV-SA are 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.

- ProctorPassive Wraptite 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.

ADDITIONAL COMPONENTS

- Tools: Utility knife, rubber roller, stiff brush, marker pen, measuring tape, scissors, barrel sealant gun, putty knife, clean cloth.



Proctor Wraptite SA Wall System (Cont.)

BENEFITS

- Wraptite SA & UV-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 & UV-SA's high vapour permeability allows the rigid air barrier 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.
- ProctorPassive Wraptite SA & UV-SA fully bonds without mechanical attachments to most substrates for ease of installation, requiring minimal use of sealants or tapes.
- ProctorPassive Wraptite SA & UV-SA utilises 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.

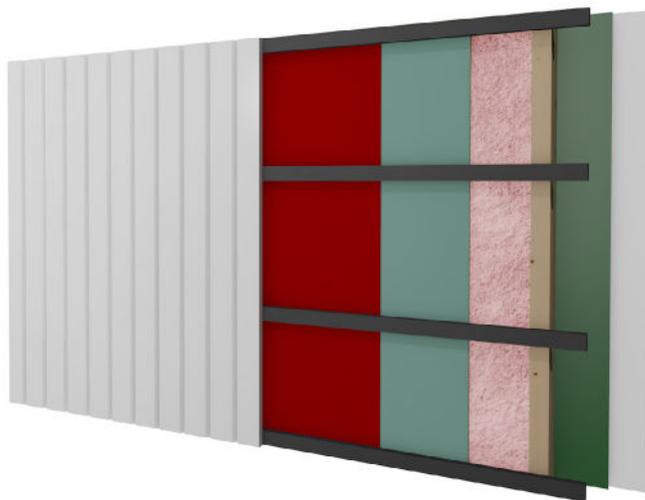
WALL LINING

1. Wraptite underlay can be installed horizontally (2 person method) or vertically (1 person method).
2. Pre-cut the wraptite underlay to the required length then re-roll 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 a minimum 75mm.

4. Run the underlay over the 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 to 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 pre-filled 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.
8. For Wraptite UV-SA installation for open joint cladding applications, please refer to the Wraptite UV-SA installation guide. It is essential to adhere strictly to the Wraptite UV-SA installation instructions provided in the guide. Please visit our website for further details.

FIXINGS / FRAMINGS

- Framing must be specified and installed in accordance with NZBC 3064 and rigid wall underlays are installed in accordance with the manufacturers' specification.
- Minimal requirement of fixing: ProctorPassive Wraptite SA fully bonds without mechanical attachments to most substrates.



Multi Unit Dwellings

FOR ALL ROOF DESIGN AND PITCHES

| ROOF PITCH/DESIGN | DRISPACE SPECIFICATIONS | SYSTEM COMPONENTS |
|---|---|--|
| <ul style="list-style-type: none"> — For trussed and skillion roof — 5° pitch and above | <p>All previous systems can be used for multi-terraced houses, with DriStud fire retardant underlays. For more in depth information, contact technical@driSPACE.co.nz for specific systems.</p> | <ul style="list-style-type: none"> — DriStud FRU38 or DriStud Ecodri Fr — ProctorPassive Wraptite SA or UV-SA — VENT — DriStud Wall Wrap, DriStud EcoWall Wrap and DriStud REPEL — DriStud Cool Window Flashing Tape or DriFlash Tape |

OVERVIEW

DriSpace offer a number of vented roof systems for skillion and trussed roofs with different roof pitches. The systems provide solutions to improve New Zealand buildings by providing an air barrier envelope but allowing our buildings to breathe again by introducing passive ventilation in the roof space to minimise interstitial condensation.

Roof ventilation products are designed as non-structural roofing components, engineered to prevent the build-up of internal moisture in roof cavities, and 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 builds and renovation projects, and on commercial, residential, school and MDH projects.

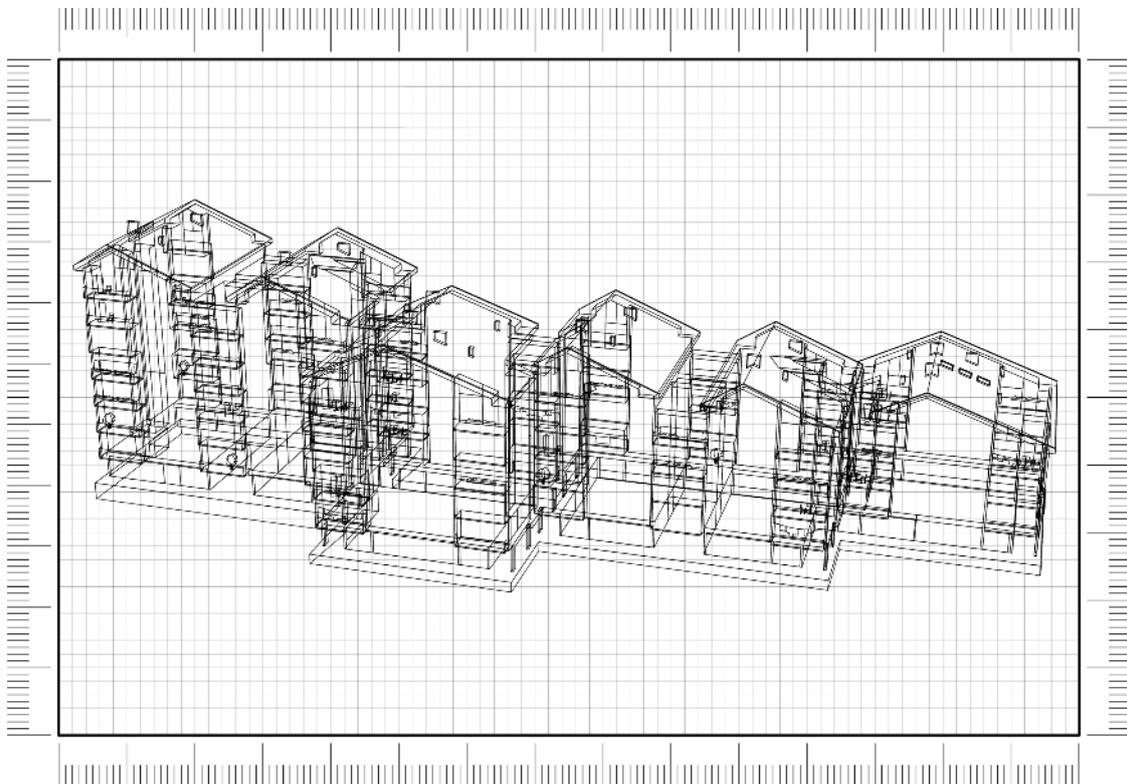
APPLICATION

DriSpace systems use three principles:

1. Passive ventilation: VENT
 2. High vapour-permeable underlay: DriStud
 3. Vapour control layer and airtight membrane: ProctorPassive
- Specified vents must be used in the system to ensure sufficient airflow is introduced into the roof, creating a difference in air pressure so that warm moist air is pushed out.

BENEFITS

Incorporating continuous, calculated and unimpeded passive ventilation into the roof cavity adds durability and sustainability to the lifespan of the roof. Passive ventilation systems will manage internal moisture that is created by the means of construction moisture, occupancy behaviour, or variance of temperature (dew points) in roof system and any associated risks such as building product failure or damp and mould.





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