ProctorWrap HTS-IT

High Tensile Sarking with integrated tape - Installation Guide

Installation Recommendations

ProctorWrap High Tensile Sarking with integrated tape (HTS-IT) shall be installed with the printed face outwards, and in accordance with AS/NZS 4200.2:2017 Pliable Building Membranes and Underlays, Part 2, Installation Requirements.

Tile and Slate Roofs

For tile and slate roof applications, ProctorWrap HTS-IT should be laid horizontally across the rafters starting at the eaves and secured in place with battens and/or counter-battens.

The recommended minimum horizontal laps are given in the table below. When a lap occurs between horizontal battens in a partially supported situation it is recommended to introduce an extra batten 25mm above the bottom edge to restrain the lap from opening under wind uplift.

MINIMUM HORIZONTAL LAP		
Rafter Pitch	Partially Supported	Fully Supported
12.5° - 15°	225mm	150mm
Over 15°	150mm	150mm

End laps should overlap by one full rafter spacing. Fixings should be at least 50mm from the edge of the membrane. Where rafter centres exceed 600mm, AS/NZS4200.2:2017 advises that ProctorWrap HTS-IT should be supported by wire mesh or rigid sheeting.

ProctorWrap HTS-IT should be draped over rafters with adequate drape to allow drainage of moisture to the eaves.

Where local wind activity is likely to cause extensive flexing (flapping) of the membrane, the use of a polyurethane pad is recommended in a staggered pattern under each second row of battens between each pair of rafters. ProctorWrap HTS-IT should be cut back from hot flue surfaces to leave a clear space of 50mm.

Metal Roofs

For sheet roof applications, ProctorWrap HTS-IT should be laid so it forms a continuous membrane over the entire area of the roof, allowing any water to drain down to the gutters and avoiding direct contact with the roof sheet.

ProctorWrap HTS-IT may be used unsupported for spans less than 1200mm, beyond which it must be supported by wire mesh, strapping or rigid sheeting.

<u>Under batten installation</u>

Best practice is to unroll the ProctorWrap HTS-IT **parallel to the fascia** across the roof trusses or rafters with sufficient drape to permit drainage below the roof battens/ purlins but ensuring there is no ponding at the eaves.

<u>Over batten installation</u>

ProctorWrap HTS-IT can be installed above the roof battens/purlins by unrolling from **eaves to ridge**, overlapped not less than 150 mm. To avoid lateral leakage of air and water through the overlap, it is recommended to use the integrated tape where possible, or ProctorWrap HighTack tape with 30mm applied to both runs of material, to seal the overlap. To achieve a good bond with the tape, both runs of membrane should be equally taught avoiding any creases, and supported from below while pressure is applied with a squeegee.

Alternatively, install by unrolling **parallel to the fascia** over the battens, ensuring that where the membrane is unsupported, that all overlaps occur over a roof batten/ purlin and care is taken to avoid ponding.

Draping of ProctorWrap HTS-IT between purlins can result in ponding which is unsatisfactory, and should be avoided. Particularly, with low pitch roofs less than 8°, it is recommended that installations are fully supported, for example by a safety mesh, strapping, sheeting or insulation.

As ProctorWrap HTS-IT is a vapour permeable membrane, if in direct contact with an impermeable material such as a metal roof, the functional vapour permeance is restricted. To avoid the limited absorbent capacity of ProctorWrap HTS-IT being exceeded, it is recommended that an air gap is maintained between the roof sheet and the underlay and that contact with the roof sheet is minimised.

With over batten installations, and particularly with flat profile roof sheeting, the use of a ProctorVent drainage batten, counter batten, or thermal spacer that does not block drainage or air flow, are recommended methods to create this separation.

Details

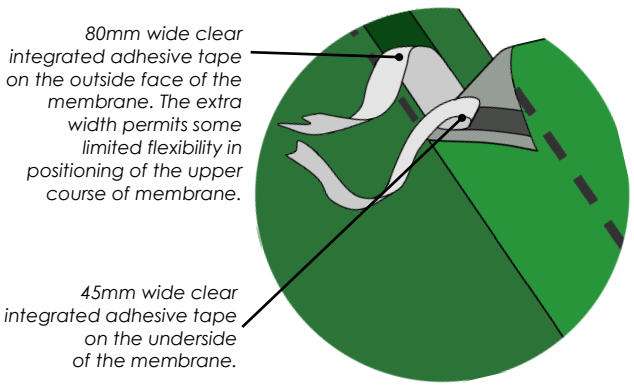
At penetrations, such as vent pipes and roof lights, an additional piece of ProctorWrap HTS-IT should be laid upslope and taped in position, to channel water away from the opening.

Avoid blockages that would prevent the free drainage of water. With secret fix and standing seam roof installations, a drainage mat, drainage batten, or counter batten, must be used to create a clear drainage path. At the eaves, ensure that ProctorWrap HTS-IT is dressed into the gutter. Anti-ponding boards should be installed to support ProctorWrap HTS-IT when roof pitches are below 20°, to ensure that any water collected by the membrane will be discharged into the gutter.

Integrated Tape

ProctorWrap HTS-IT is supplied with a factory applied adhesive with release liner in two locations; (i) 80mm wide strip on the outer face of the lower course of membrane; and (ii) 45mm strip on the rear face of the upper course of membrane.

Overlaps should not be less than 150mm and such that the integrated tapes are aligned. The receiving strip on the outer face of the lower course is wider to permit adjustments to be made when positioning the upper course of ProctorWrap HTS-IT.



Mechanically fix the ProctorWrap HTS-IT in place and ensure that the integrated tapes are fully aligned before removing the release liner. **Note:** Once the adhesive bond has been made, it is impossible to separate without damaging the membrane.

Begin by removing a short length of both release liners. Line up both release liners together so they can be pulled away from the join with one hand. Use the other hand to simultaneously apply pressure with a squeegee and smooth the two layers as the release liners are removed together. Be sure to remove the entire release liner, particularly where it has been interrupted by a fixing.

Wall Applications

ProctorWrap HTS-IT is also suitable for use in wall applications, installed in accordance to AS4200.2:2017. Please contact us for further details, including fixing span-tables.

Durability

Although ProctorWrap HTS-IT can be used as temporary protection during construction, it is not a waterproof membrane as classified by AS 4654.2. The product may be damaged by careless handling, high winds, or vandalism, and should not be left uncovered for longer than is absolutely necessary.

Ensure that ProctorWrap HTS-IT is covered by the primary roofing material as soon as possible and is not left exposed for longer than **2 months.**

Some timber treatments may impact on the water resistance of the product, so the membrane should only be applied once such treated timber has dried.

ProctorWrap HTS-IT

Product Description:

- Medium duty vapour permeable membrane for use in tiled, slate and metal roofs.

Width	**1500mm**
Length	**30m**
Area	**45m²**
Weight	**8.5kg**
Colour	**Green/Grey**

THIS PRODUCT MEETS THE REQUIREMENTS OF AS/NZS 4200.1.

PRODUCT IDENTIFIER	ProctorWrap HTS-IT	
DUTY	Medium	
VAPOUR CLASSIFICATION	Class 4	Vapour permeable
VAPOUR PERMEABILITY	2.5650µg/N.s	
WATER CONTROL CLASSIFICATION	Water barrier	
FLAMMABILITY INDEX	LOW (≤ 5)	
ELECTRICAL CONDUCTIVITY	Non-conductive	
AIR CONTROL CLASSIFICATION	Air barrier	

EMMITTANCE

VALUE	CLASSIFICATION	CATEGORY
>0.15	IR Non-reflective	NN
>0.15	IR Non-reflective	

Classifications in accordance with AS/NZS 4200.1. This product should be installed in accordance with AS4200.2

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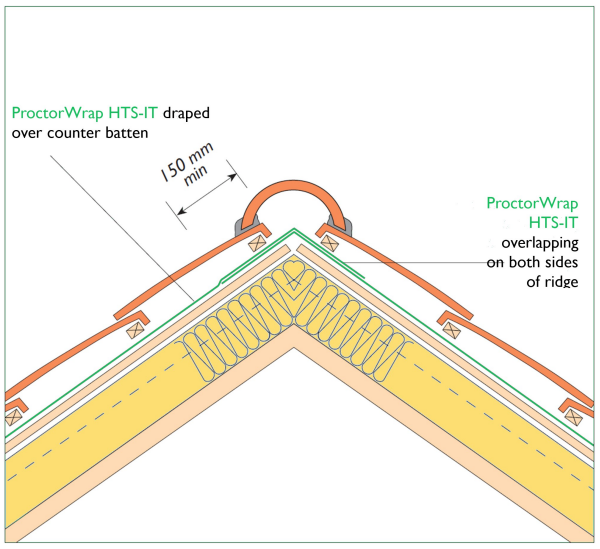
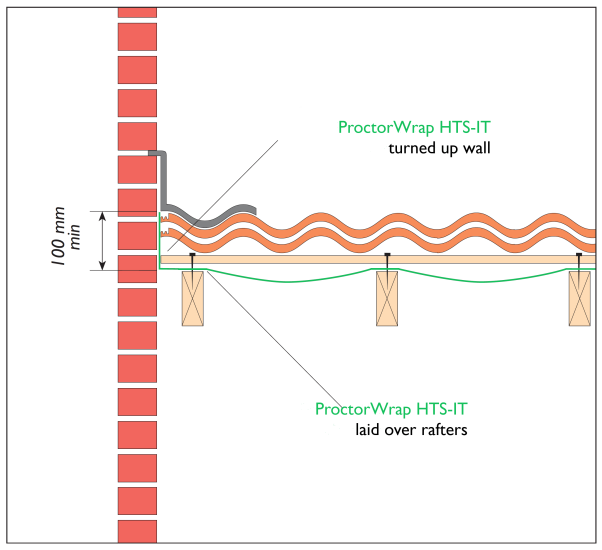
Installation of ProctorWrap HTS-IT

Ridges - Dual pitch Detail



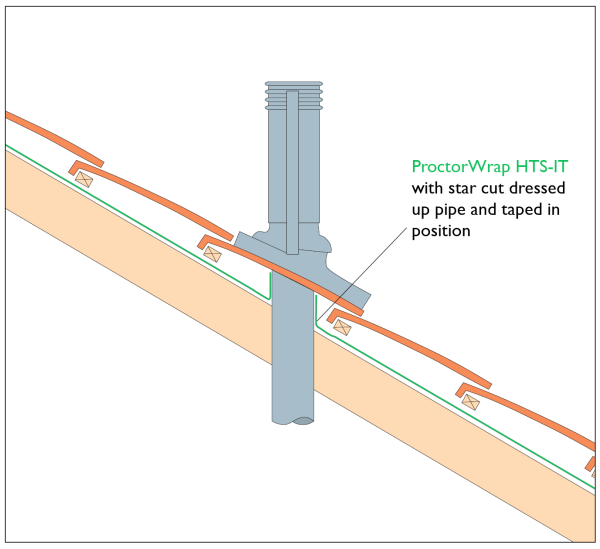
(Dual pitch detail)
Key Point: ProctorWrap HTS-IT overlaps both sides of ridge.

Verge and Sloping Valley - Abutment Detail



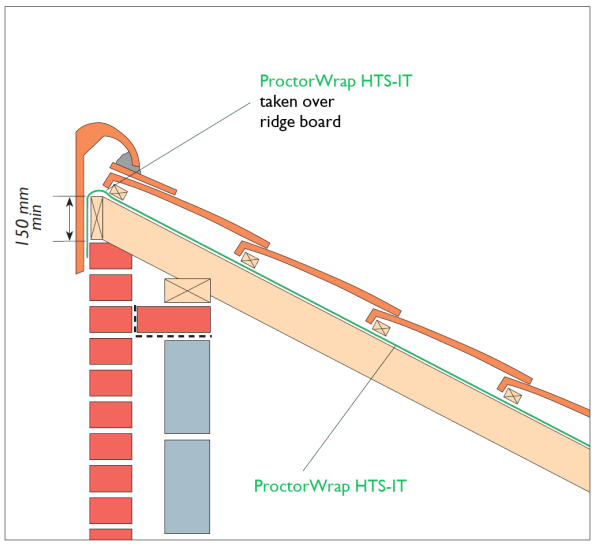
(Abutment detail)
Key point: Ensure ProctorWrap HTS-IT is turned up along verges.

Pipe Penetration Detail



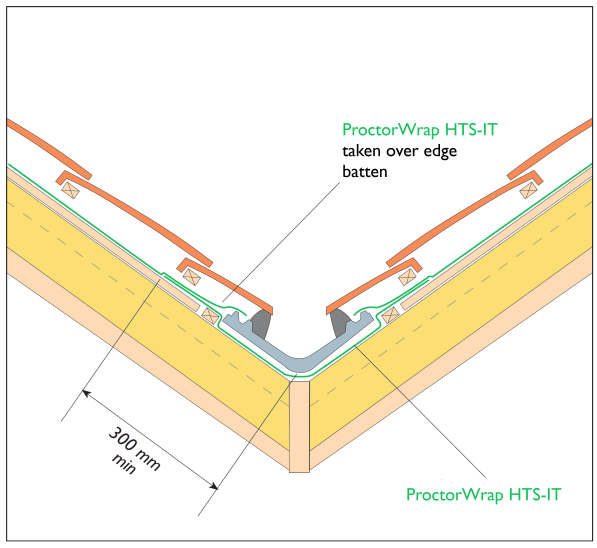
(Vent pipe detail)
Key Point: ProctorWrap HTS-IT dressed up the penetration to keep water away from opening.

Monopitch Detail



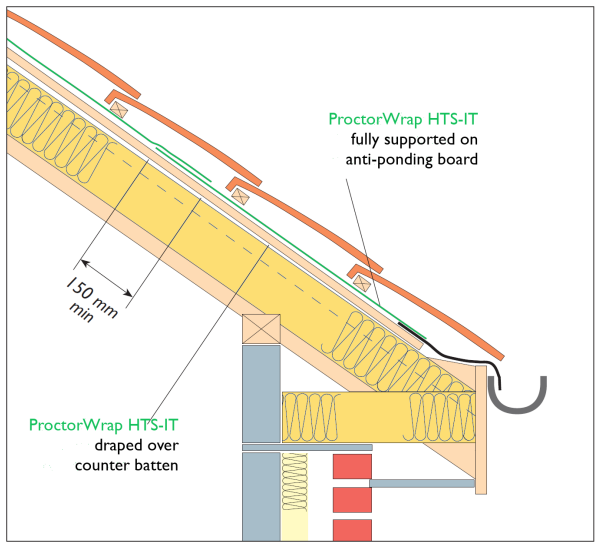
(Monopitch detail)
Key Point: ProctorWrap HTS-IT is taken over ridge board.

Valley Detail



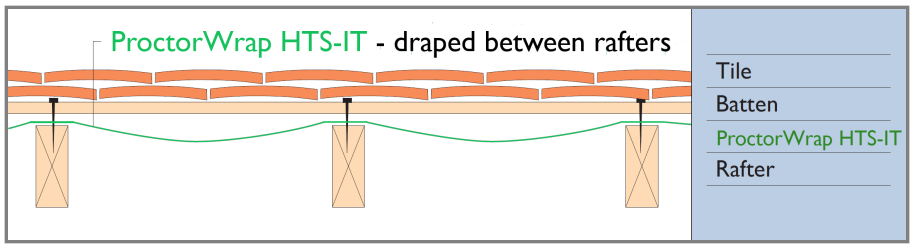
(Valley detail)
Key Point: Additional piece of ProctorWrap HTS-IT laid up sloping valley.

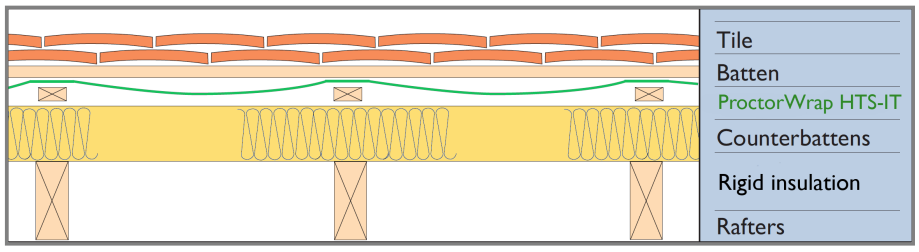
Eaves / Fascia Detail (unvented)

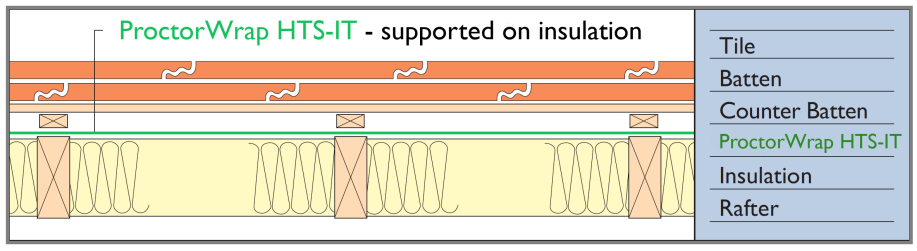


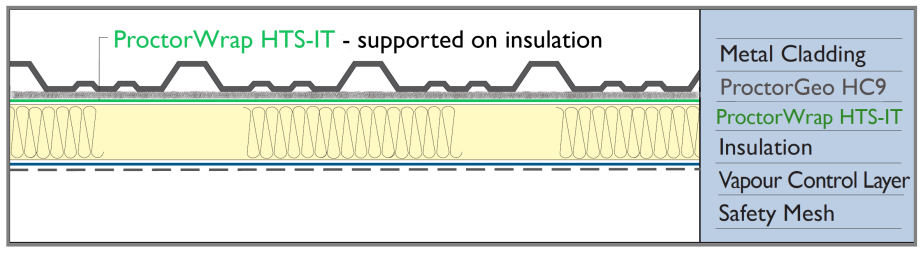
(Eaves / Fascia detail)
Key Point: ProctorWrap HTS-IT laid to discharge water into the gutter.

Typical Roof Constructions









Delivery, Storage and Site Handling Requirements

ProctorWrap HTS-IT rolls are individually wrapped in a transparent polyethylene sleeve with a ProctorWrap HTS-IT 'User Guide' included with each roll. Rolls may be stored flat or upright on a clean, level surface and kept under cover.

Unventilated Roof Space Installations

Where the roof space is not adequately ventilated, a continuous and sealed vapour and air tight layer may be required to be installed on the warm interior side of a sufficient proportion of insulation such that the vapour and air tight layer is maintained well above dew point temperature throughout the year.

The dwelling below the roof space should be ventilated in accordance with building regulations. Extractor fans installed in rooms of high humidity (e.g. kitchens and bathrooms) should be vented directly to the external atmosphere.

It is highly recommended that designers run a condensation risk analysis to determine the suitability of an unventilated roof and the need for an air and vapour barrier.

Condensation Risk

There are a large number of factors that need to be considered in assessing and managing condensation risk, including local climate, building use, position, thickness and type of bulk insulation, location and integrity of vapour barriers, and mechanical or passive ventilation both in the roof space and wall cavities where applicable. It is highly recommended that designers run a condensation risk analysis. Proctor Group Australia can assist in assessing condensation risk.

For further information on the risks of condensation please refer to the Australian Building Codes Board Handbook, *Condensation in Buildings*.

Occupational Health and Safety

All proper safety measures should be taken during installation of ProctorWrap HTS-IT. All relevant OH&S and statutory regulations must be followed.

ProctorWrap HTS-IT is not designed for fall prevention and is not intended to support a person's weight, or to be walked upon unless supported. Installing membranes in high wind conditions is difficult and appropriate precautions should be taken during installation.

Tested to AS1530.2, ProctorWrap HTS-IT achieves a flammability index of low (i.e. ≤ 5). As with other pliable building membranes that include polyolefins there is a risk that fire can spread if the material is accidentally ignited during maintenance works, eg., by a plumber's torch. Care should be taken during building and maintenance to avoid the material being ignited.

Product Performance

ProctorWrap HTS-IT performs to specification in normal building applications when installed in accordance to AS/NZS 4200.2:2017 and this user guide. The information herein is supplied in good faith and to the best of our knowledge was accurate at the time of publication.

Users are advised to make their own determination as to the suitability of this information in relation to their particular purpose and specific requirements.