



Benefits

1. Permanent weathertight layer installed as soon as frames and roof trusses are stood up.
2. Provides absolute weather protection before cladding is installed allowing interior work to continue without weather interruption.
3. Protects framing from top to bottom – roof and walls.
4. Cost effective – less expensive than rigid materials and doesn't require secondary canopies or covers. One-time installation.
5. Installed quickly and easily – lightweight but robust – instant weather protection and permanent performance for the life of the building
6. Tested to withstand extra high winds and wind uplift.
7. Tested for airtightness.
8. Codemark certified "system" – assured performance.

Installers must ensure the following

1. Never leave plain staples exposed to the weather
 - a. This will result in staple pull and possible air or water ingress.
2. Ensure all joins and overlaps are properly sealed
 - a. Use double sided tape for horizontal joins.
 - b. No horizontal tapes on top of membrane, this could result in channels for air or water ingress.
3. Direct any water runoff from the roof away from walls and joinery.
4. Ventilate the interior to the outside as often as possible while working indoors.
5. Repair any holes and tears immediately they occur or are found
6. Seal off edges at top and bottom plate to prevent water and air getting behind underlay.



Installation Requirements.

1. Begin with weatherproofing ROOF – always specify FPS® Eurotop;

- a. Commence laying FPS® Eurotop horizontally from bottom edge (gutter) of roof with a 100mm overhang into gutter and 150-200mm overhand at each end.
- b. If securing membrane with counter battens running along length of trusses or rafters – plain staples may be used provided they are covered with tape or securely fixed counter battens. Ensure membrane is pulled taut in all directions before securing.
- c. If purlins and spacers are being installed – cap and staples must be used along length of trusses or rafters where counter battens would have normally been fitted.
- d. Before laying second layer of FPS® Eurotop – fix Euroband DS (Double sided tape) to upper edge of first layer. Do not remove backing paper!
- e. Lay the second layer of FPS® Eurotop with a 60mm overlap – when pulled taut and secured, remove the backing paper on the Euroband DS and firmly press to get good adhesion.
- f. At the apex of the roof – have at least 300mm flap of FPS® Eurotop running over to other side. Fix down when other side is laid so the flap is on top. Fix down with Euroband DS. Alternatively – fix a 500-600mm strip over the apex (ridge line)
- g. Valley's - either have a 500mm strip of FPS® Eurotop laid down valley floor or horizontal layers running through valley and taped to opposite side well clear of valley.
- h. With mono-pitch or skillion roofs it is essential to vent the upper side/edge – refer to FPS® Manuals or contact FPS®.

2. WALLS:

- a. Measure 150cm (1500mm) from 75-100mm below the bottom plate and mark upper edge across entire wall section.
- b. Unroll FPS® Eurotop from left side to right side of wall, ensuring top edge is on marks and plain staple inside top 60mm.
- c. Make sure at least 300mm is wrapped around each corner, or continue along next wall section.
- d. Vertical joins require 75-100mm overlap and sealed with Euroband S60 tape on a stud or solid backing
- e. At openings wider than 1500mm – the layer can be cut leaving 300mm flap each side of the opening.
- f. Fix Euroband DS to upper horizontal edge of each layer of FPS® Eurotop – do not remove backing paper.
- g. Apply a recommended FPS® adhesive and staple (as close to the edge of the membrane as possible) to the foundation or bottom plate to prevent water and air/wind entering the wall structure under and behind the membrane. Depending on the substrate, FPS® supplies, Butyl tape or liquid adhesive.
- h. From the middle of wall section on a stud – run hand down membrane to get a flat taut surface - secure with staples. From the middle work across wall toward each end or corner. NOTE:
 - (i) If horizontal boarding cladding is specified, vertical cavity battens must be installed over staples. If there is any delay installing battens either Euroband S or FPS® Fleece-Butyl tape must be used to cover staples.
 - (ii) If vertical boarding cladding is specified, horizontal cavity battens must be installed – cap and staple fixings must be used on studs or panels between battens.
 - (iii) For brick veneer – cap and staple fixings are recommended.
- i. Next layer of FPS® Eurotop is rolled out and fixed/ stapled at upper edge across entire wall section, taped and smoothed out from the centre stud as before with first layer.
- j. When upper layer securely fixed, pull backing paper off Euroband DS progressively across wall pressing firmly to get good adhesion.
- k. If second layer extends beyond the top of the wall, both continue across the eave or soffit and connect to the roof section.
- l. To finish the wall installation – fix the bottom edge to the foundation with FPS® Butyl tape or FPS® Liquid Adhesive and further secure the membrane to the bottom plate with cap and staples.
- m. All soffits and eaves must have FPS® Eurotop fitted and connected to either roof membrane or other wind tight element at roof edge.

3. Install Euroband S 120 or 180 Sill-tape to all openings. Refer to Sealing Corner Sections leaflet.

4. Install doors and windows before commencing any work on the interior – if rain enters building after FPS® Eurotop is installed – interior must be dried.

5. IMPORTANT:

- (1) Do not leave plain staples exposed to the weather
- (2) Ensure all joins and overlaps are properly sealed (water and air/wind proof) – NO horizontal tapes on top of membrane.
- (3) Direct any water runoff from the roof away from walls and joinery.
- (4) Ventilate the interior as often as possible while working indoors.
- (5) Repair any holes and tears immediately they occur or are found
- (6) Ensure proper sealing around cable and plumbing penetrations through exterior membrane.



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FPS® Weathertight™ for roofs and walls

Frame Protection System Ltd, FPS® Weathertight™ system is a comprehensive roof and wall underlay system for timber and steel frame, panel and prefab building elements, providing both interim and permanent weather protection plus moisture control within the wall or roof structure. FPS® Weathertight™ is certified to allow internal work to proceed to completion before the roof and wall claddings are installed.



The Four Essential Requirements for Weathertightness

To allow work to progress inside before the exterior cladding is applied, a membrane must meet four minimum requirements; moisture control, waterproofing, windproofing and UV exposure.

Moisture Control

An underlay system must be vapour open to the outside, so that any moisture that is still within the construction can pass freely to the ventilation cavity.

Waterproofing

An underlay system must be waterproof from the outside, both in its ability to hold out a volume of water, and its ability to hold out water continuously for an extended period.

Windproofing

An underlay system must be wind tight, both in terms of wind uplift durability as well as being airtight. Wind uplift is important because the roof of a structure acts like an aircraft wing. However, airtightness is also important because of airborne moisture vapour (humidity).

UV Exposure

An underlay must be able to withstand exposure to the sun for an extended period, without any degradation.



Moisture Control

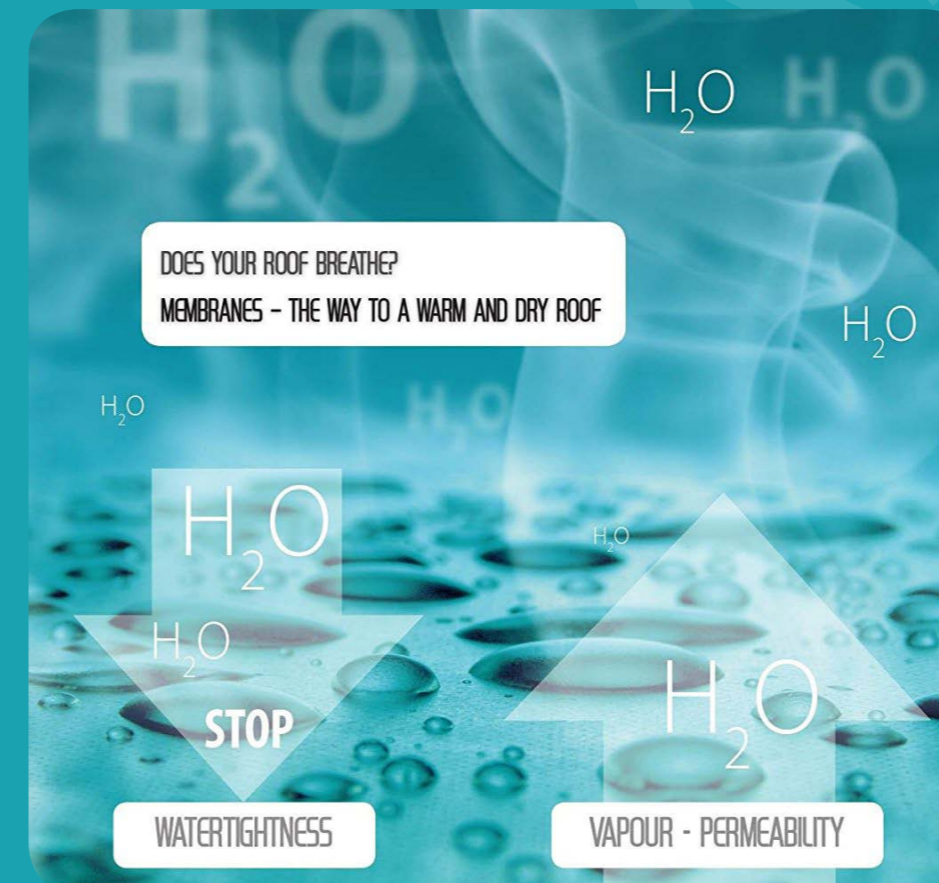
To be able to install insulation and linings on the inside of a building, any moisture that is still inside the structure, must be able to get out. Therefore, the building enclosure must be vapour open to the outside.

- All FPS membranes are considered vapour open according to British Standard BS5250.
- To be considered "vapour open", permeability must be less than 0.25MN/g according to British Standard BS5250.

Waterproof

To be able to line inside, the outside of the structure must be waterproof.

- All FPS membranes are class 1 waterproof products, with no tent effect.
- All FPS membranes have passed column of water tests of between 1.5m & 5.5m.
- FPS membranes are the only underlay in New Zealand to have been tested and passed the 24-hour Water Streaming Test.



Wind Uplift

To be able to line inside, the outside of the structure must be windproof, both in terms of air ingress as well as wind uplift.

- All FPS membranes have been tested for wind uplift.
 - Tested: Refer to FPS® Technical Manual – Wind Loadings Page 17: BRE Test Report 301-688 Issue 2, 9th Feb 2015.
- FPS® Eurotop N65 is certified for use as an unsupported underlay in Extra High Wind Zones instead of rigid boarding.
 - Recommendations for FPS® product in NZ wind zones:

FPS® Eurotop Product Recommendations

NZ Wind Ratings	Unsupported		Supported	
	Roof	Wall	Roof	Wall
Low [115kmh]	N35	N15	N35	N15
Med [133kmh]	N35	N15	N35	N15
High [158kmh]	S65	N35	N35	N35
V High [180kmh]	S65	N35	N35	N35
E High [198kmh]	S65/ S4	N35/ S65	S65	N35

UV Protection

Any temporary cladding must be able to withstand UV for an extended period.

- All FPS membranes are warranted for up to 90 days exposure to UV.

