



SMART VAPOUR CONTROL LAYER

Technical Data Sheet

Description	Standard	Performance
Weight	EN-1849-2	120 g/m ²
Colour		White
SD Value	EN-1931	8 m
SD Vapour Variability Range	EN 12572	0.4->30m
g value		40 MNs/g
g value, humidity variable		2 - >150 MNs/g
Vapour Permeance	ASTM E96	0.12—8.37
Surface Burning Specs	ASTM E84	Class A
Reaction to Fire	EN 13501-1	E
Water Resistance	EN 1928	W1
Tensile strength MD / CD*	EN 12311-1	350 N / 315 /50mm
Elongation MD / CD*	EN 12311-1	20% / 20%
Nail Tear Resistance MD/ CD*	EN 12310-1	350 N / 375
Temp Resistance		-40°C to 80°C
CE labelling	EN 13984	Available

*MD = longitudinal CD = transversal

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Advantages

VARA PLUS is a humidity variable vapour check with a market leading variable range of 0.4—30+ (US Perm of 0.12—8.37). This characteristic provides optimum summer drying conditions and winter protection.

- ✓ Optimal airtightness and water vapour transmission rate in different climate conditions
- ✓ Hygrovariable Technology
- ✓ Elastic and durable
- ✓ Reinforced for optimal strength
- ✓ Durable towards UV ageing
- ✓ Optimal protection against humidity, ensures drying of the building structure
- ✓ BBA pending



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Fields of Application

Partel **VARA PLUS** can be used as an inner airtight membrane and vapour control layer for externally vapour open build-ups. **VARA PLUS** is also a key component in demanding externally vapour closed structures such as flat roofs, green roofs and unventilated roofs.

- Wall and ceiling
- Inside of flat roofs and pitched roofs, in timber construction
- Residential and commercial applications
- Compatible with all insulation types and does not shrink

Application Process

VARA PLUS should be installed with the printed side facing the installer in a taught manner with all creases, seams, overlaps, joints and penetrations completely sealed. It should be installed so that all overlaps are sealed by taping to the printed side, and can be installed parallel or perpendicular to the supporting structure with maximum distances between supports of 1000mm (40”).

If installation is perpendicular to the supporting structures a batten is required or additional taping at 500mm strips perpendicular to overlap joints at 300mm (12”) intervals. **VARA PLUS** must overlap by 100mm (4”) and perpendicular battens should be installed to support the weight of insulation and to protect the product from future damage.

Staple in a triangular pattern to ensure the membrane is taught but make sure membrane is relaxed at junctions to allow for movement. Staple at 75mm (3”) intervals for blown in insulation or 300mm (12”) generally. Staples should be 10 mm (0.4”) wide and 8 mm (0.31”) long.

Partel **CONDUO** can be used as an installation aid where staples cannot be used, overlaps can then be sealed with **VARA SEAL, CONIZO, or CONEXO MULTISEAL**.

Penetrations should be sealed using **KABSEAL** or **BUTAFLEX** and edge connections can be sealed with **ACRABOND, ACRALINE** or Partel tapes.

In cold climates blown in insulation should be installed as soon as **VARA PLUS** installation is complete and for loose fitted installation **VARA PLUS** should be fitted immediately after installation. Installation of vapour control layers in cold temperatures should make allowance for necessary heating, ventilation as adhesives and primers are water based, and adhesives will not adhere to wet surfaces. In high humidity situations >70% and cold temperatures visible water could be seen on the internal surface of **VARA PLUS** which prevents functionality.

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General Information

Connection joints should be free from tensile strain. Acrylic base adhesive tapes are pressure activated, sufficient pressure is required to ensure a long lasting bond.

A smoother physical substrate will result in optimum adhesion between tape and surface. It is the responsibility of the applicator to check the substrate for suitability, adhesion tests are recommended in non standard situations.

Use **ACRAPRIME** to prime all rough, porous or dusty surfaces.

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