

IZOPERM™ ECO PLUS

OPTIMUM PERFORMANCE VAPOUR CONTROL LAYER

Technical Data Sheet

Description	Standard	Performance
Weight	EN 1849-2	140 g/m ²
Colour		Beige
SD Value	EN-1931	20 m
g value		100 MNs/g
Vapour Permeance	ASTM E96	0.17
Reaction to Fire	EN 13501-1	F
Water Resistance	EN 1928	W1
Tensile strength MD/CD*	EN 12311-1	450 / 300
Elongation MD/CD*	EN 12311-1	3% / 4,5%
Nail Tear Resistance MD/CD*	EN 12310-1	130 N / 130 N
CE labelling	EN 13984	Available

*MD = longitudinal CD = transversal

Advantages

IZOPERM PLUS ECO is a sustainable airtight solution, paper-based. This innovative vapour check features an Sd value of 20m (US Perm of 0.17), which makes it suitable for most constructions.

- ✓ Consists of up to 60% of renewable FSC paper for healthier buildings
- ✓ 3 layers membrane - FSC kraft paper on both sides reduces carbon footprint
- ✓ Designed to be used as a vapour control layer, featuring fixed Sd value
- ✓ Optimal airtightness and water vapour transmission rate in different climate conditions
- ✓ High tear-resistance and optimum strength due to fabric mesh reinforcement
- ✓ Watertight – W1 class



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Fields of Application

Partel **IZOPERM PLUS ECO** can be used as an inner airtight membrane and vapour control layer. Primary usage includes internal walls, ceilings, and floors. The Partel ECO membranes supports a safe, eco-responsible building design for lower environmental impact.

- Ideal for timber frame structures
- Suitable for blown wool insulations or solutions
- New builds and refurbishments
- Residential and commercial developments
- Compatible with all insulation types

As it is a paper-based product, contact with rain or water should be avoided. It is not appropriate for external applications.

Application Process

IZOPERM PLUS ECO 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. **IZOPERM PLUS ECO** 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 **CONIZO** special paper based tape.

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

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In cold climates blown in insulation should be installed as soon as **IZOPERM PLUS ECO** installation is complete and for loose fitted installation **IZOPERM PLUS ECO** 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 IZOPERM PLUS ECO which prevents functionality.

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

"The information provided is based on current knowledge and experience. This data sheet may become invalid and we reserve the right to make changes to designs and processes as we continually improve quality. Processing instructions including full system component details should be adhered to. Visit partel.com for the most up to date information"

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