

# ECHOFOIL

## IZO



## REFLECTIVE INTERNAL VAPOUR CONTROL LAYER

### Non-woven reflective foil

#### Technical Data

Description	Standard	Performance
Weight	EN-1849-2	130 g/m <sup>2</sup>
Colour		Anthracite
SD-Value	EN 1931	150 m
g value		750 MNs/g
Reaction to Fire	EN 13501-1	E
Nail tear resistance MD/CD*	EN 12310-1	150 / 150 N
Airtightness	EN 12114	<0.002
Tensile strength MD/CD*	EN 12311-1	320 / 280 N / 50 mm
Emission Value	BS EN 15976	<0.03 (97% Heat Radiation)
Water Resistance	EN 1928	W1
Temperature resistance		-20°C to 80°C
CE labelling	EN 13984	Available
UV Resistance		3 months
R-Value of the air cavity**	BS EN ISO8990	0.78 m <sup>2</sup> K/W

\*MD = longitudinal CD = transversal

\*\*R-Value of air cavity BS EN ISO6946 + BRE 443 calculated method is from 0.71(m2K)/W unaged or 0.67(m2K)/W aged

#### Technical Advantages

Our **Internal reflective** Vapour Control Layer (VCL) helps to **improve the thermal performance** of a structure via **reflecting up to 97%** of the internal heat from inside the structure back into the building. Used in conjunction with ECHOFOIL EXO, it increases thermal performance further and helps to lower U values.

- ✓ Lowest emissivity on the market reflecting up to 97%
- ✓ Water resistant (W1)
- ✓ Damp proofing
- ✓ Significant improvement of thermal resistance and insulation properties
- ✓ Humidity controlling and insulating
- ✓ Great durability
- ✓ Optimal UV Stability



#### IRL & EU

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## General Conditions

Partel **ECHOFOIL** membranes should be laid with the printed side facing the installer.

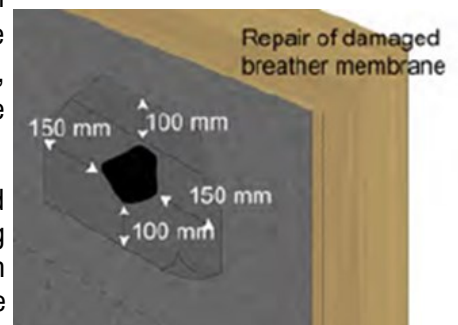
Membranes are suitable as roofing/decking underlays. They are resistant to driving rain and wind. Apply onto the existing support structure, parallel to eaves with overlaps of 100mm (4") in a taught manner. It should be nailed or screwed under the overlapped section. Tape all joints using **CONEXO MULTISEAL**, **ECHOSEAL** or **VARA SEAL**. Use **NAIL SEAL** underneath all battens.

Penetrations should be sealed using **KABSEAL** or **CONLEY BUTYL** and edge connections can be sealed with **ACRABOND**, **ACRALINE** or Partel tapes. Cross battens are recommended for ventilation and additional security. Wall membranes are suitable only for wall installation. Roof membranes can be used on walls and roof.

Partel membranes can be used as temporary roof cover for 3 months, roof pitch must be 15' or greater. During installation membranes should be immediately secured or fixed down to avoid wind damage.

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.

Damage should be repaired thoroughly by removing damaged material and installing a new piece of applicable membrane pushed under the existing membrane and then passing over the existing membrane (see image) with 150mm (6") overlap to sides of hole and 100mm (4") at top/bottom. The membrane should be sealed using **CONEXO MULTISEAL**, **ECHOSEAL** or **VARA SEAL** to connect the overlap.



*"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](http://partel.com) for the most up to date information"*

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