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Technical data sheet of UNIVERSAL woodchip vapour barrier

Product features

Material:

Multi-layer foil made of woodchip wallpaper with vapour and gas-barrier aluminium insert.

Compound:

- Woodchip wallpaper type Erfurt 52
- Polyethylene lamination
- Aluminium foil, soft, 0.020mm
- Polyethylene lamination
- Kraft paper 40 g/m2, smooth brown on one side

Application:

Ideal vapour barrier for interior insulation, pitched roof renovations, etc., with

vapour barrier and wallpaper are applied in just one work step.

Safe gas barrier against perchloroethylene from dry cleaning companies and against toxins (formaldehyde) from contaminated building materials.

Moisture protection:

When insulating external walls on the inside, the change in temperature across the wall cross-section can lead to harmful condensation between the insulation material and the wall.

It should be noted that in addition to the standard cross-section, thermal bridge areas such as concrete window lintels, beams, reinforced concrete supports etc. must also be included in the calculation of condensation formation. A vapour barrier is always required for external walls made of normal concrete or building materials with similarly high diffusion resistance, such as masonry made of hollow bricks in accordance with DIN 398, ceramic external cladding, plastic plaster, dispersion paints, etc.

Due to the high water vapour diffusion resistance of sd ≥ 1000 m of the UNIVERSAL rough fibre vapour barrier, the construction is reliably protected against moisture penetration at all points.

In addition, ventilated and non-ventilated roofs with sufficient thermal insulation in accordance with DIN 4108 Part 2 can be constructed over non-air-conditioned living and working spaces without the need for a calculation to prove condensation.

In the case of roof renovations, the UNIVERSAL rough fibre vapour barrier can be applied directly to the existing rafter cladding as an efficient solution.

Gas protection:

Highly volatile halogenated hydrocarbons, such as perchloroethylene, from chemical cleaning products pose a health hazard even in low concentrations. In March 1992, the German Federal Environment Agency assessed the UNIVERSAL rough fibre gas barrier as an effective diffusion-inhibiting layer against perchloroethylene (research report no. 10408156).

The measured values are well below the maximum permissible diffusion permeability coefficient (25 µg/m2hPa), which is required to comply with the limit value of 0.1 mg/m3 indoor air concentration of halogenated hydrocarbons.

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Building materials contaminated with harmful substances, such as PCP from wood preservatives, formaldehyde, etc., are also sealed gas-tight with UNIVERSAL wood fibre.

Processing: The UNIVERSAL rough fibre vapour barrier is applied to an absorbent substrate using commercially available pastes for heavy wallpapers.

The overlap joint, 2 cm, is opened after the wallpapering process and coated on both sides with a contact adhesive and pressed on with a rubber roller after the required flash-off time.

Delivery form: Item no. 16100

Narrow rollers: Roll width 500 mm, roll length 10 m

Winding: Kraft paper inside

Technical values

Sd value:	approx. 1’100 m equivalent air layer thickness

The information contained in this data sheet is based on careful checks and reflects our current state of knowledge. They do not rule out the need to test the material for suitability for specific applications.

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