



## Interior Insulation Foil

## Technical sheet

### High-effective thermal insulation foil

#### Fields of application:

- for pressureless laying in attics, on walls, ceilings and floors
- as insulation between, on and under rafters

#### Properties:

- Absorption-reduced bubble film with hexagonal structure
- Excellent insulation performance due to air enclosed in the bubbles
- Minimal transmission heat losses
- High-density metallized foils
- Very low vapour emissions to ambient air
- High-effective screening against electromagnetic radiation, waves and fields over the entire frequency range, especially pulsed radiation
- Halogen-free flame retardants
- With UV stabilizer
- Vapour diffusion on the outside
- Vapour barrier on the inside

#### Technical data:

Weight per area unit	approx. 12.6 oz/yd <sup>2</sup> (430 g/m <sup>2</sup> )
Thermal conductivity	0.012 W/mK
Packaging unit	Roll (8 rolls/pallet)
Length	40 ft (12.5 m)
Width	2.7 ft (82.5 cm)
Thickness	1½" (3 cm)
Area	10.31 m <sup>2</sup> /roll 82.5 m <sup>2</sup> /pallet
u-value in accordance with DIN 6946 and DIN 52611	0.37 W/m <sup>2</sup>
Water vapour permeability in accordance with DIN 52615	Inside s <sub>d</sub> : 1,500 m Outside s <sub>d</sub> : 9.9 m

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### Processing directions:

#### Laying instructions for drywall installations:

Measure the distance between the posts of the subconstruction. Add 1-2 cm per post. Cut the measured dimension with scissors or a knife off the roll and tape the open seam with appropriate vapor barrier tape. For a loss-free processing leave a gap of 81 cm between the posts of metal subconstructions. Upend the foil (vapour barrier to the inside) between the posts and fix it with vapour barrier tape. Seal the connections to the posts and on top and bottom carefully and damp-proof. Laying on wooden subconstruction, leave a gap of 40 cm between the posts. Lay the foil imbricate in horizontal layers from top to bottom overlapping 5 cm. If necessary, use a spike-tooth roller to lower the thickness of the foil upon the posts, then seal it with adhesive alloy tape. Fix the foil with staples on the wooden subconstruction then seal it with adhesive vapour barrier tape over the staples and the overlaps to achieve a wind-proof barrier.

#### Laying instructions for the insulation on rafters:

Measure the length from gable end to gable end and add 1-2 cm per rafter. Cut the measured length with scissors or a knife off the roll and seal the open seam with appropriate vapour barrier tape. Lay the foil imbricate in horizontal layers from top to bottom overlapping 5 cm. Fix the foil with few staples. Seal the overlaps and staples with appropriate adhesive vapour barrier tape. Fix the battens through the foil on the rafters from the centre to the sides. Seal lead-throughs and every connection to gable ends, crown and sill.

### Consumption:

approx. 1.05 m<sup>2</sup>/m<sup>2</sup>

### Packing unit:

8 Rolls per pallet (10.31 m<sup>2</sup> per roll)

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