

## Technical Data Sheet

### Hanno<sup>®</sup>-Tect AL

#### Product description

Hanno<sup>®</sup>-Tect AL is an open-pored melamine resin foam which is laminated with a coarse-grained aluminium foil.

Material structure:

Density: depending on the structure

Melamine resin foam 10–60mm

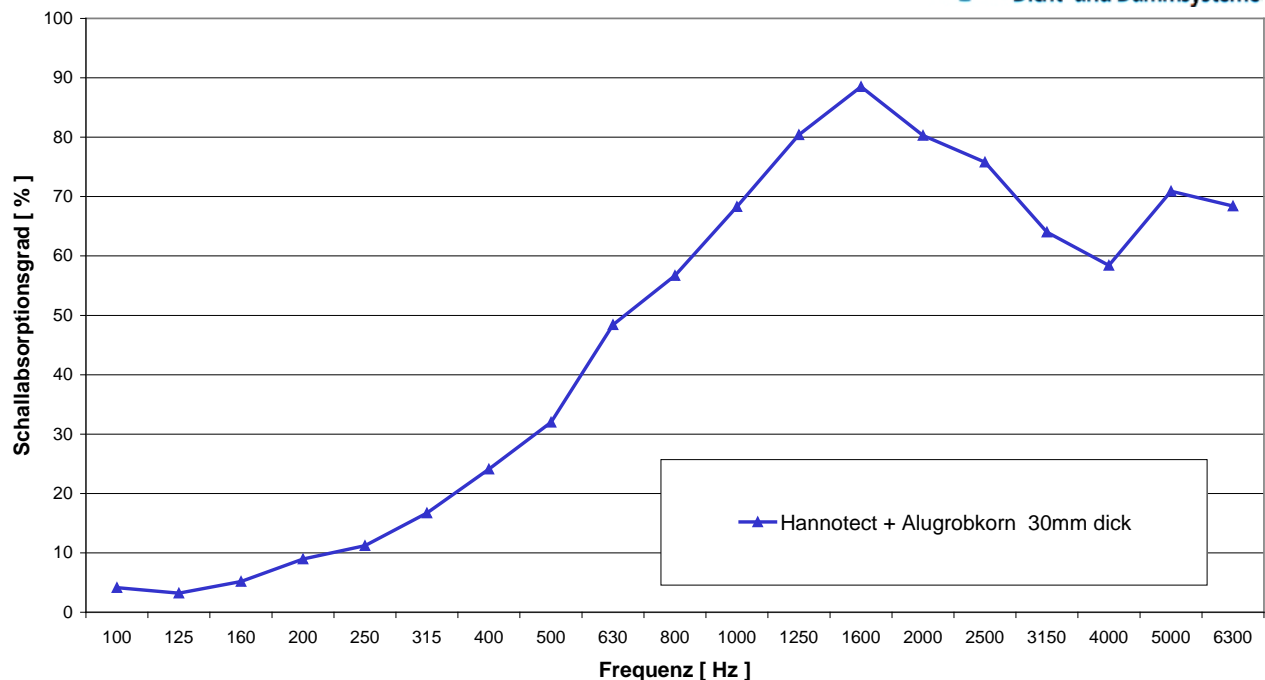
Coarse-grained aluminium foil 50µm



#### Product properties

High level of temperature resistance, low thermal conductivity, favourable fire behaviour, good chemical resistance and excellent sound absorption property.

Messung nach DIN - EN - ISO 10 534 - 2 Impedanzrohr



Measurement conform with DIN – EN – ISO 10 534 – 2 Impedance Tube

Degree of sound absorption [%], Frequency [Hz], Hanno-Tect + coarse-grained aluminium foil 30mm density

#### Instructions for use

Only adhere to dry, fat-free and clean substrates. Press on well.

The contact pressure which is required for full-surface contact has to be ensured.

Processing temperature: 18 – 25°C

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### Special instructions

The sorption behaviour of the melamine resin in connection with the open-cell nature of the foam result in a change being made to the humidity content of the material depending in the ambient conditions. This comprises dimension changes of around  $\pm 2\%$  (on the basis of the mean humidity content). This behaviour is to be taken into account during processing (pre-storage of the components in an application-related climate)

Due not use Tect outside/outdoor exposure.

The material can be rendered hydrophobic and oleophobic if required by means of impregnation.

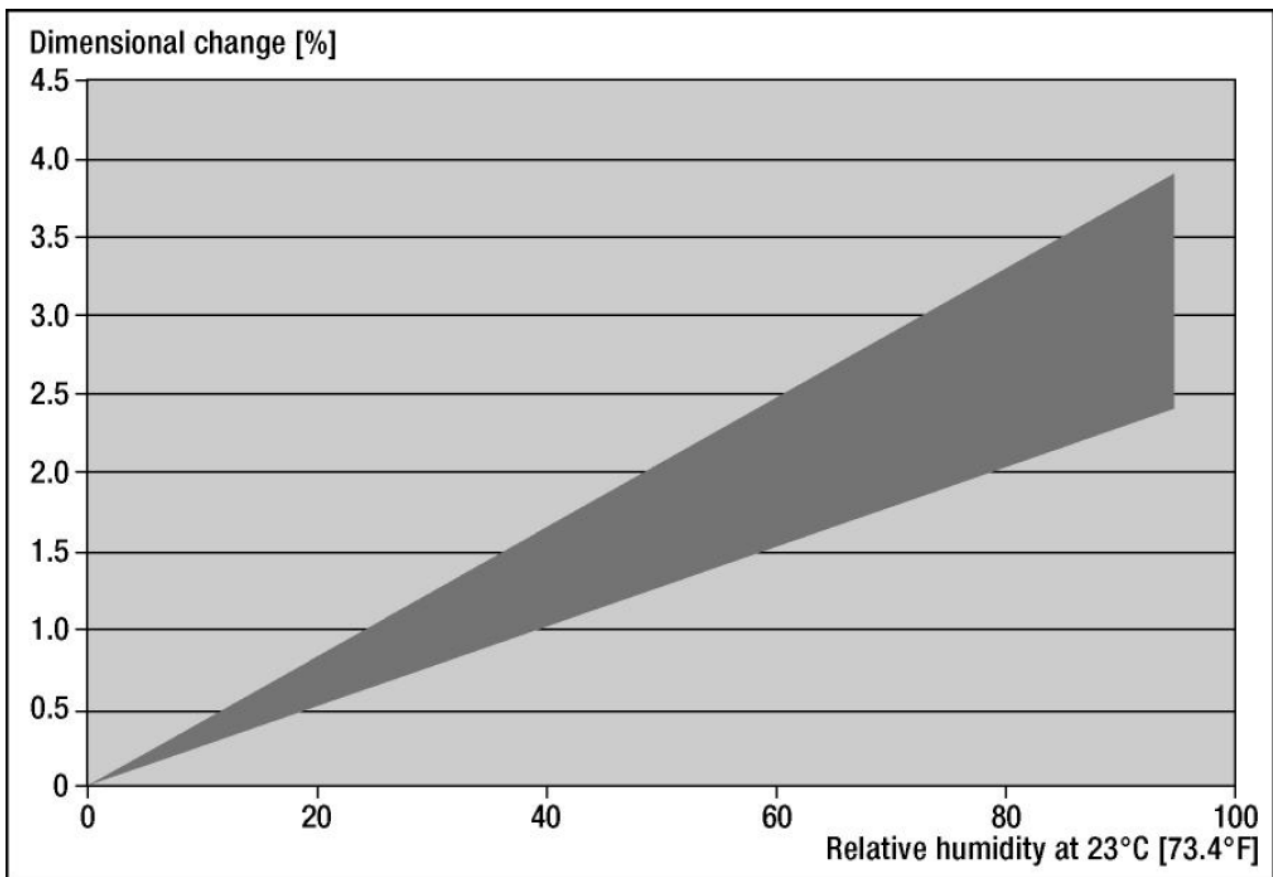


Diagram 1: Dimensional change depending on the air humidity with an ambient temperature of 23°C

The Tect material has a mixed pore structure for manufacturing reasons. A maximum of 10 pores per m<sup>2</sup> with a diameter of between 5 and 15mm can occur and do not give cause for complaint.

### Form of delivery

- slabs, blanks, stampings
- self-adhesive

Storage stability: 6 months at 5–25°C when not adhered.

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### Safety instructions

On the basis of existing data and experience, the product is not hazardous material in the meaning of the Hazardous Material Regulations and the corresponding EC directives. We recommend however that you take the same care and use the same hygiene as with chemical materials. Processing of the material can result in an annoying dust manifestation. Skin contact can cause skin irritation. Do not inhale the dust. Local suction removal is recommended.

### Technical data

Colour		grey, surface: aluminium
Fire behaviour	CEN/TS 45545-2:2009:	
	ISO 5660-1	10mm: MAHRE = 2.52 kW/m <sup>2</sup> (10/0524, CUR*) 50mm: MARHE = 1.31 kW/m <sup>2</sup> (10/0523, CUR*)
	ISO 5659-2	11mm: CIT4&8 <0,01, D <sub>smax</sub> =0,1 (10/0548, CUR*) 27mm: CIT4&8 <0,01, D <sub>smax</sub> =0,4 (10/0549, CUR*)
	ISO 5658-2	10mm: CFE > 40 kW/m <sup>2</sup> (10/0687, CUR*) 25mm: CFE > 40 kW/m <sup>2</sup> (10/0688, CUR*)
	DIN 54837	10 mm: S 4; SR 2; ST 2 (P60-09-0468, RST*) 50 mm: S 4; SR 2; ST 2 (P60-09-0469, RST*)
	NF F 16-101 / 16-102 / STM-S-001-C	10mm – 40mm = M1 (H020996-CEMATE/7, LNE*) 10mm = F1 (H020996-CEMATE/5, LNE*) 40mm = F3 (H020996-CEMATE/6, LNE*)
Smoke gas toxicity	DIN 5510-2 Annex C	fulfilled (P60-07-3033, RST*)
Maximum application temperature	DIN EN ISO 2578 (according to ISO 3386-1)	150°C
Low temperature stability		-40°C (glued)

\* CUR: Currenta GmbH, Leverkusen; RST: Rail System Testing GmbH, Henningsdorf; LNE: Laboratoire national de métrologie et d'essais, Trappes, Frankreich

### Environment and disposal

Tect is manufactured using no hydrocarbons which contain halogens. The product is not hazardous to water. The product does not include any foaming agents when delivered and it is also not subject to labelling in accordance with the Hazardous Material Regulations.

### Restriction of liability

Our General Terms and Conditions of Sales with the warranty conditions which you can refer to at [www.hanno.com](http://www.hanno.com), have validity. This data sheet provides non-binding information without the assumption of a guarantee. The stipulated instructions for use are to be adapted to the given conditions. The user is obligated to validating the suitability and application possibility of the product by testing it himself, so as to avoid failures for which we assume no liability. The right to make technical changes are reserved. You will find the latest version of this datasheet under [www.hanno.com](http://www.hanno.com).

