

## Basement Ceiling Insulation Board 3654 smartline



035 DI, "nichtbrennbar" (non-combustible), edges blunt with circumferential chamfered visible edges, fiberglass nonwoven coating on both sides and white speckled surface

### Field of application

Mineral wool insulation board for insulating basement and underground garage ceilings for improving thermal insulation, sound absorption and for preventative fire protection. The chamfered board edges all around and the resulting open and visible joint pattern with shade effect improves the appearance of basement ceilings.

### Properties

- Mineral wool insulation board made from mineral raw materials in accordance with DIN EN 13162
- With fiberglass nonwoven coating on both sides and additional white speckled surface
- Circumferential chamfered visible edges
- Edges blunt
- Diffusible
- Aging-resistant
- Dimensionally stable in fluctuating temperatures

### Material description

<b>Rated thermal conductivity <math>\lambda_B</math></b>	0.035 W/(m·K) in accordance with DIN 4108-4
<b>Rated value of the thermal conductivity <math>\lambda_D</math></b>	0.034 W/(m·K) in accordance with DIN EN 13162
<b>Reaction to fire</b>	"nichtbrennbar", non-combustible (Euroclass A1 in accordance with DIN EN 13501-1)
<b>Water vapor diffusion resistance value <math>\mu</math></b>	1 in accordance with DIN EN 12086
<b>Raw density</b>	approx. 50 kg/m <sup>3</sup>
<b>Temperature behavior</b>	Melting point > 1,000 °C, suitable for use up to 150 °C
<b>Thickness tolerance</b>	± 5 / -3 mm

## Material description

<b>Perpendicularity</b>	≤ 2 mm with 50 cm leg length	
<b>Edge formation</b>	Edges blunt, chamfered 45° all around	
<b>Insulation board format</b>	Length: 125.0 cm / Width: 62.5 cm	
<b>Thicknesses/packaging</b>	Insulation board thicknesses	m <sup>2</sup> per pack
	6 cm	ca. 6,25 m <sup>2</sup>
	8 cm	ca. 4,69 m <sup>2</sup>
	10 cm	ca. 3,13 m <sup>2</sup>
	12 cm	ca. 3,13 m <sup>2</sup>

## Storage

Store in a dry place and protect from moisture. Do not subject to direct weathering.

## Use

- Substrate preparation** The substrate must be level, solid, dry, clean, load-bearing and free from efflorescences, sintered layers and separating agents. Chip off projecting mortar or concrete parts. Remove major substrate unevennesses mechanically or even out with plaster in accordance with EN 998-1 (CSII, CS III, CS IV). Check existing plaster for solidity and cavities; check existing coatings for load-bearing capacity. Remove non-load-bearing plaster and coatings completely. Prime substrates with Lacryl Deep Penetrating Primer ELF 595, as required. See also VOB Part C, DIN 18363, Section 3.
- Definition of the joint layout** The desired joint layout must be agreed with the client in advance and the ceiling area must be divided into a suitable grid. The first row should then be mounted along a marked line.
- Bonding** Insulation boards can be bonded in a running bond pattern either with offset joints or cross joints with parallel board edges. When bonding in a running bond pattern, the bonding can start off one wall face. On walls that are not perpendicular or not straight, a chalk line should be used to ensure that the joints of the insulation board edges are straight. When bonding with parallel board edges, the ceiling area must be divided into an even grid to ensure that the boards are cut to size evenly along the edges. It is advisable to mount the insulation boards from the center of the room to the edges.  
The Basement Ceiling Insulation Board 3654 smartline must be bonded on the pretreated substrate with ETICS Powder Adhesive 3550. Apply the adhesive mortar on the rear side of the insulation board or the substrate in the required thickness with a notched trowel, e.g. 10 x 10 mm. Bond the insulation boards with tight joints by sliding them slightly and applying slight pressure. In order to avoid thermal bridges, ensure a tight joint connection and proper, adhesive-free implementation of the insulation board joints. In the edge area, the insulation boards must be cut to size to adapt them to the shape of the wall.
- Cutting insulation boards to size** Individual insulation boards can be cut using the Mineral Wool Cutting Tool 1900 M-24 1446 or the PUR/MW Insulation Material Saw 1142. Further information can be found in the Brillux tool product range.

## Notes

- Completion of other trades** Basement ceiling insulation boards should only be mounted once the other trades have completed their work (e.g. asphalt works, welding work etc.) to ensure the correct function and appearance of the ceiling areas.
- Only use on the cold side of ceiling areas** If used on the warm side of ceiling areas, e.g. heated basements or commercial and industrial halls, there is a risk of rear dampness due to condensation. The basement ceiling insulation boards should therefore only be mounted on the cold side of ceiling areas (unheated basement or underground garage ceilings).
- No further coating** The mounted insulation boards must not be coated or plastered over.
- Further information** Follow the instructions on the data sheets of the products used.

## Remark

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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