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This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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Plaster & Façade Systems

# D391.de

Product Data Sheet

2023-08



## MW Kellerdeckendämmplatten 035 plus

Ceiling insulation board made of mineral wool with adhesive coating on both sides.

### Product description

#### Composition

Non-combustible cellar insulation board made of stone wool with adhesive coating on both sides.

#### Storage

Store in a dry place and protect against damp.

#### Quality

In compliance with EN 13162, the product is subject to initial type testing and continuous factory production control and is marked with the CE marking.

The product is compliant with all demands of the DIN 4108-10 and the Fachverband Wärmedämm-Verbundsysteme e.V. (*German external thermal insulation composite systems association*).

### Properties and added value

- Application type DI acc. to DIN 4108-10
- Reaction to fire A1, non-combustible
- Thermal conductivity rated value  $\lambda = 0.035 \text{ W/(m}\cdot\text{K)}$
- Thermal and sound insulating
- Diffusion permeable
- Dimensionally and geometrically stable
- Edge type flat



### Field of application

With good thermal insulation and sound insulation properties, especially for use with interior ceilings, such as in cellars, garages or hall ceilings. Visual requirements are a secondary consideration. If there are enhanced demands regarding the optical appearance, a subsequent application of a paint coat with an airless spray method is recommended. An optimum adhesive bonding is guaranteed by the adhesive coating on the surface. The adhesive coating is suitable for application of adhesive by machine and contributes significantly to the improvement in board application. Not for application on ETICS.

### Application

#### Preparation

Cover easily-soiled building components (e.g. window sills) prior to application. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion. Check the stability of the existing coatings.

#### Application

MW Kellerdeckendämmplatte 035 plus cellar insulation board is adhesively bonded using SM700 PRO or Duo-Kleber adhesive as a flush aligned, flat and offset-free bonded application to a stable ceiling substrate.

<b>Caution</b>	In case of insulation material thickness $\geq 180$ mm, full surface adhesive bonding with Duo-Kleber adhesive is obligatory.
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<b>Note</b>	In case of larger insulation material thicknesses, two boards can be applied. During installation use suitable tools to ensure uniform pressure application. Support the board during setting of the adhesive to ensure that it cannot detach from the ceiling due to its own weight.
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#### Manual application of adhesive on insulation board

##### *Edge ribbon and dab bonding method*

The side with the coating-free strips has a bead of adhesive mortar of about 50 mm applied all around the perimeter of the panel edge as well as 3 palm-sized dabs of adhesive mortar in the centre of the board so that at least 50 % of the board has adhesive applied to it.

##### *Full surface adhesive application*

Full surface adhesive application can also be undertaken with an even surface. Apply adhesive to the full surface on the side with the coating-free strips using a notched trowel.

#### Machine applied adhesive on substrate

Slide the insulation panel with the coating-free strips immediately into the fresh adhesive (slide the board lightly to and fro) and push in. Spray apply the mounds of adhesive onto the ceiling at a clearance of  $\leq 200$  mm; the adhesive bonding must cover at least 50 % of the surface. The perimeters must have a continuous strip of adhesive applied to ensure that back ventilation is not possible.

#### Dowelling

Dowelling is only required should the MW Kellerdeckendämmplatte cellar insulation board require subsequent application of mesh reinforcement or if it is adhesively bonded on old plaster or substrates with a paint coat. The adhesive mortar must have dried sufficiently before the dowels are applied. Apply dowelling under the reinforcement mesh using Schlagdübel CNplus 8 dowels or Schraubdübel STR U 2G screw-in dowels. When dowelling, at least 4 dowels per  $m^2$  must be applied.

<b>Note</b>	The product side with coating free stripes is the adhesive side.
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### Coatings

The white adhesive coating, in particular on the edges, can be damaged during application. A subsequent application of a paint coat to the cover surface is recommended. The application of an appropriate interior paint, such as Intol E.L.F. Paint or Malerweiss E.L.F. paint. Emulsion paints for interiors can be applied efficiently with PFT airless spray equipment, e.g. PFT Samba L (maximum paint application wet  $150 \text{ g/m}^2$ ). Application of paint with a lambskin roller is not recommended.

Subsequent coating of the board with plaster is possible. The plaster layer must be with a purely mineral plaster or be classified acc. to A2-s1,d0 and the total weight may not exceed a maximum of  $22 \text{ kg/m}^2$ .

## Technical data

Description	Standard	Unit	MW Kellerdeckendämmplatten 035 plus
Reaction to fire	EN 13501-1	–	A1
Melting point	DIN 4102-17	°C	≥ 1000
Resistance to temperature	–	°C	≤ 250
Rated value of thermal conductivity $\lambda_D$	EN 13162	W/(m·K)	0.034
Specific heat capacity $c_p$	EN 12524	J/(kg·K)	1030
Water vapour diffusion resistance $\mu$	EN 12086	–	approx. 1
Tensile strength perpendicular to the board level $\sigma_{mt}$	EN 1607	kPa	≥ 1
Length-related flow resistance $r$	EN 29053	kPa·s/m <sup>2</sup>	≥ 25

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

## Sound absorption MW Kellerdeckendämmplatte 035 plus<sup>1)</sup> ceiling insulation board acc. to EN ISO 11654

Description	Description / data							Unit	Standard
	60	80	100	120	140	160	180		
Thickness	60	80	100	120	140	160	180	mm	–
Rated sound absorption coefficient $\alpha_w$	0.85	–	1.00	–	1.00	–	–	–	ISO 11654
Practical sound absorption coefficient $\alpha_p$ at 125 Hz	0.45	–	1.00	–	1.00	–	–	–	–
Practical sound absorption coefficient $\alpha_p$ at 250 Hz	0.85	–	0.95	–	0.95	–	–	–	–
Practical sound absorption coefficient $\alpha_p$ at 500 Hz	0.90	–	1.00	–	1.00	–	–	–	–
Practical sound absorption coefficient $\alpha_p$ at 2000 Hz	0.80	–	1.00	–	1.00	–	–	–	–
Practical sound absorption coefficient $\alpha_p$ at 4000 Hz	0.65	–	0.95	–	1.00	–	–	–	–
Noise Reduction Coefficient NRC	0.85	–	1.00	–	1.00	–	–	–	ASTM C423
Sound absorption class	B	–	A	–	A	–	–	–	ISO 11654

<sup>1)</sup> Contacting the substrate, without application of a subsequent paint coating, acc. to Knauf sound insulation proof SH 09 128

## Product range

Description	Thick-ness mm	Width mm	Length mm	Packaging unit		Material number	EAN
				m <sup>2</sup> /package	m <sup>2</sup> /pallet		
MW Kellerdeckendämmplatten 035 plus	60	400	1200	1.92	19.20	00178259	4003950086786
	80			1.44	14.40	00178262	4003950086793
	100			0.96	11.52	00178265	4003950086809
	120			0.96	9.60	00178266	4003950086816
	140			0.96	7.68	00178267	4003950086823
	160			0.96	5.76	00289431	4003950092046
	180			0.96	5.76	00289432	4003950092053

Knauf MW Kellerdeckendämmplatte 035 cellar insulation board is an equivalent for the following products:

- Knauf Insulation Kellerdeckendämmplatte KDP-B-035 plus



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For safety data sheets and CE marking see

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