

D126 Knauf Cleaneo Acoustic Ceiling for fumi Acoustic Plaster

Note on English translation / Hinweise zu englischen Fassung

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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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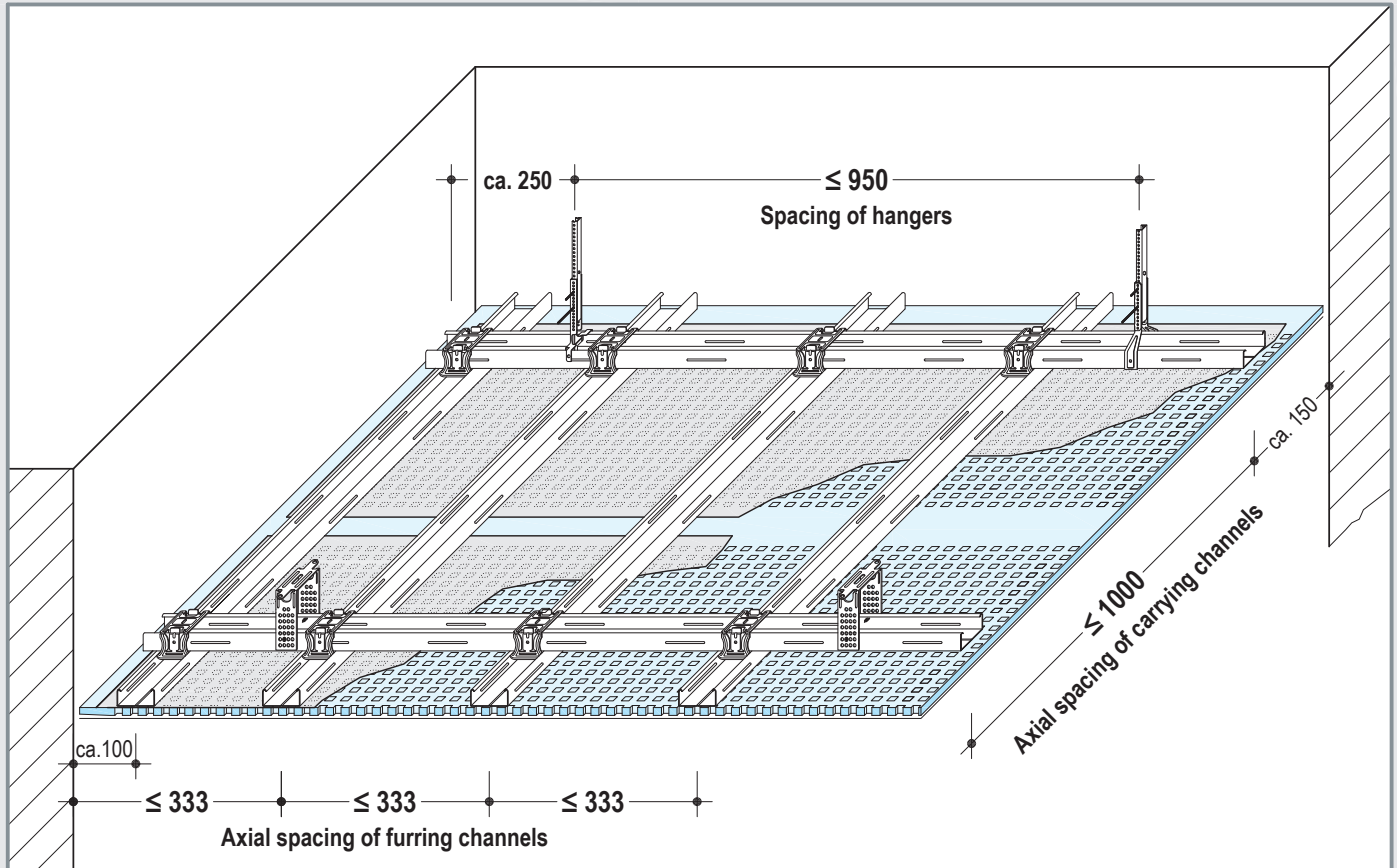
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D126 Knauf Cleaneo Acoustic Ceiling for fumi Acoustic Plaster **KNAUF** Gips

Metal substructure, consumption of material

All dimensions in mm

Grid made of suspended carrying channels and furring channels



Consumption of material per m² ceiling without allowance for loss and waste

Amounts refer to a ceiling area of: 10 m x 10 m = 100 m²

Description <i>Italics = not provided by Knauf</i>	Unit	Amount as average value
Connection to wall		
or Knauf Ceiling Steel Dowel (for reinforced concrete) <i>approved anchor</i>	pcs	1.2
Knauf Universal Bracket for CD 60x27	pcs	1.2
Knauf Metal Screw LN 3.5x9 mm (connection to CD Channel)	pcs	2.4
alt. Knauf Nonius Hanger Bottom for CD 60x27 with Nonius Hanger Top and Nonius Pin	pcs	1.2
or Knauf Nonius Stirrup for CD 60x27 with Nonius Hanger Top and Nonius Pin	pcs	1.2
Knauf CD Channel 60x27x0.6; 4 m long (carrying channels and furring channels)	m	4.2
Knauf Multi Connector (as extension connection of CD Channels)	pcs	0.8
or Knauf Intersection Connector for CD 60x27	pcs	3.4
2x Knauf Ankerwinkel Clip for CD 60x27	pcs	6.8
Insulation layer made of mineral wool 30 mm, e. g. Knauf Insulation TP 120 A	m ²	as required
Cladding		
Knauf Cleaneo Acoustic Base Board for fumi Acoustic Plaster; 12.5 mm; 1250 mm x 2000 mm; Standard Square Perforation 12/25 Q; with PET foil (factory-laminated on rear side)	m ²	1
Fastening		
Knauf Counter-sunk Screw SN 3.5x30 mm	pcs	24
Jointing and priming		
Uniflott	kg	0.25
Knauf Atonol blocking primer	l	0.15
Frieze		
Knauf Board Strips	m ²	as required
Knauf Drywall Screw TN 3.5x25 mm	pcs	as required

Plaster system fumi Acoustic Plaster acc. to manufacturer specifications:

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68766 Hockenheim, Germany

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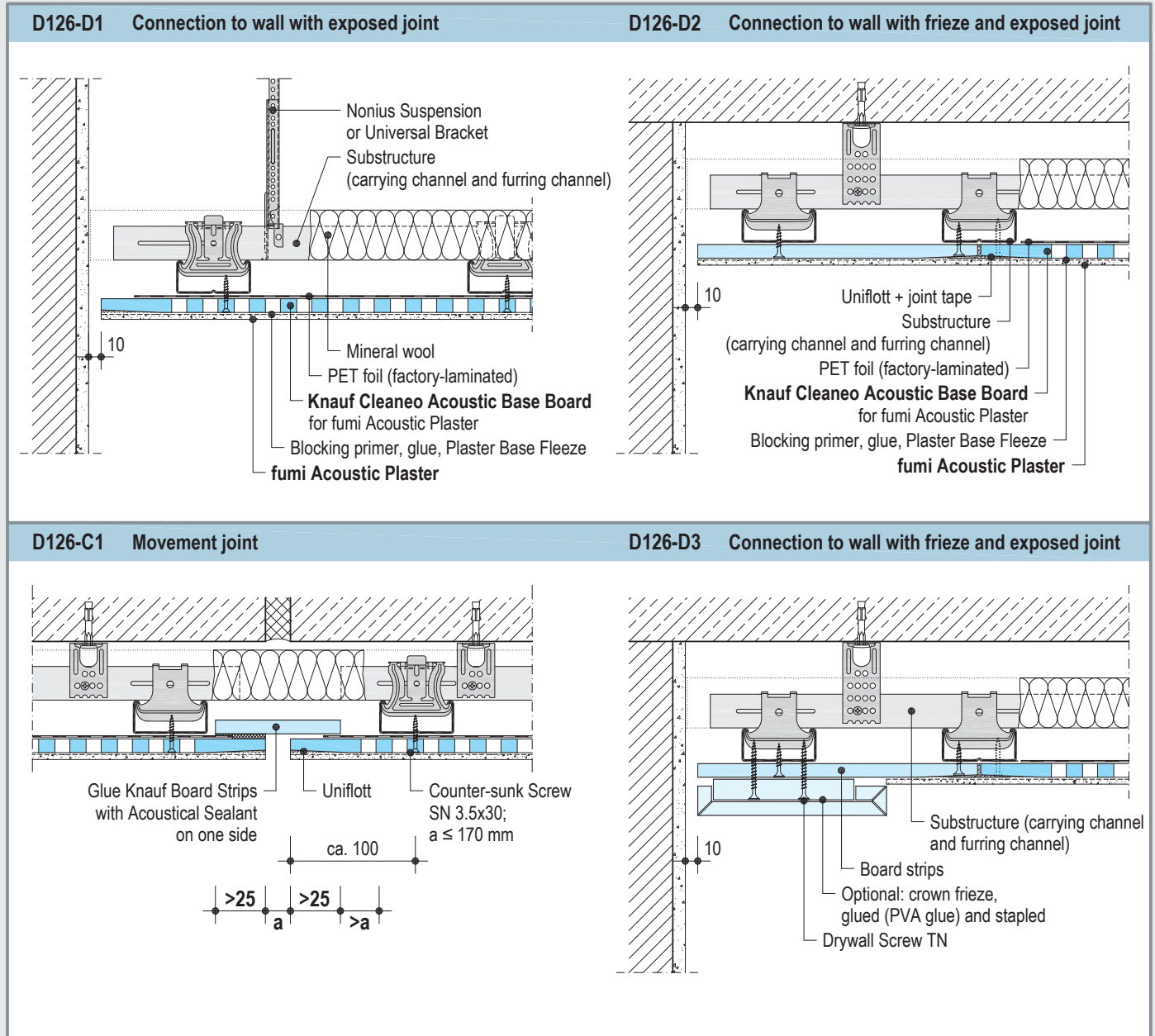
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Details, construction height, sound absorption

Details, scale 1:5

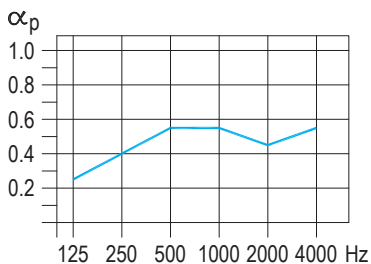
Boards are applied laterally to the furring channels. All dimensions in mm



Sound absorption

Standard Square Perforation 12/25 Q

Perforation ratio: 17.5 %
with PET foil, mineral wool 30 mm and
fumi Acoustic Plaster S1



Depth of construction of the acoustic level
200 mm

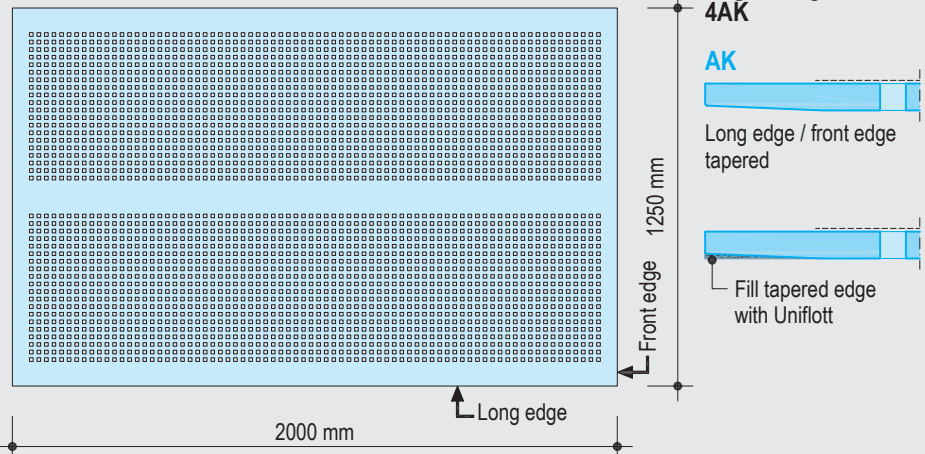
α_p 0.25 0.40 0.55 0.55 0.45 0.55

$\alpha_w = 0.55$ Class: **D** (absorbent)

Proof:

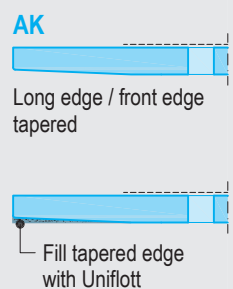
Knauf Sound Proof no. A 009-08.08

Knauf Cleaneo Acoustic Base Board



- **Board thickness:** 12.5 mm
- **Area weight incl. plaster:** ca. 13.5 kg/m² (Load class 0.15 kN/m²)
- **Reaction to fire** acc. to DIN EN 13501: **A2-s1,d0**

Edge design 4AK



Reference to other technical data sheets

D12 Knauf Cleaneo Acoustic Ceilings, K761 Knauf Cleaneo Acoustic, www.akustikputz.de

D126 Knauf Cleaneo Acoustic Ceiling for fumi Acoustic Plaster

Construction, application and joint filling / Tender specifications



Construction, application and joint filling

Construction

Knauf Cleaneo Acoustic Ceilings as suspended ceilings are anchored on basic ceilings with suspenders. Knauf Cleaneo Acoustic Base Boards for fumi Acoustic Plaster are fastened on a metal grid consisting of carrying channels and furring channels. Movement joints of the main structure have to be transferred into the construction of the acoustic ceiling. Use control joints in case of ceiling areas over approx. 15 m length, or for narrow ceiling spaces caused by a break of a wall.

Notes: The Knauf Cleaneo Acoustic Ceiling is not suitable to be used for ventilation via the ceiling cavity (as ventilation duct).

A separation (joint) between the acoustic ceiling and adjacent walls is recommended (see page 3).

Application of the metal grid

Suspend ceilings with Direct Brackets, Nonius Stirrups or Nonius Hangers on the basic ceilings using anchors that are approved or standardized for the particular building material. Connect carrying channels CD 60x27 with hangers and align them at the required suspension height.

Connect furring channels CD 60x27 to carrying channels with Intersection Connectors or Ankerwinkel Clips.

Cladding

An installation team of 3 workers is recommended. Cross-mounting of Knauf Cleaneo Acoustic Base Boards laterally to furring channels. Place front edge joints on channels. Fasten boards with Drywall Screws SN 3.5x30 on the furring channels while pressing the boards firmly on to the grid. Start fastening from the corner, where the board meets previously attached boards along the long edge and front edge. Fasten along long edge first and then along front edge. Max spacing of screws is 170 mm. Seal all damages (e. g. tears) in the factory laminated rear side PET foil with self-adhesive tape (e. g. Knauf Insulation LDS Solifit) before applying the boards. This recommendation is also applying in case of built-ins such as lighting. Openings for lightings or access panels should preferably be done with prefabricated, 1250 mm wide gypsum boards in order to avoid cutting the Knauf Cleaneo Acoustic Base Boards. If cutting

cannot be avoided, seal cut carefully.

Joint filling

Fill joints with Uniflott and Knauf Joint Tape Kurt in surface quality Q2. Fill screw heads as well. The filled surface should be even. The application of fumi Acoustic Plaster does NOT level any surface unevenness. Jointing should only take place after boards have been allowed to rest in the given humidity and temperature zones, and no more longitudinal changes can be expected, i. e. expansion or contraction. Joints should be filled at a minimum air and surface temperature of 10 °C. In case of mastix asphalt screed, cement screed or calcium sulphate screed, fill joints after screed has been applied. Notes of the Code of Practice no. 1 "Baustellenbedingungen" of IGG are to be observed.

fumi Acoustic Plaster

Application according to manufacturer specifications: Schmidt Akustik GmbH (see page 2)

Item	Description	No. of units	Unit price	Total price	
.....	Suspended ceiling acc. to DIN 18168-1, installation height in m, suspension height in cm, sound absorption coefficient DIN EN ISO 11654 $\alpha_w = 0.55$ in connection with fumi Acoustic Plaster (extra item), (for depth of construction of 200 mm). Anchored on reinforced concrete/ wood joists, spacing in cm/ steel girder, type, spacing in cm *. Substructure as double-level grid with carrying channels and furring channels, suspended with Universal Bracket/ Nonius Suspension *, anchored with approved anchors. Insulation layer made of mineral wool acc. to DIN 13162, length-related flow resistance $r \geq 10 \text{ kPa}\cdot\text{s}/\text{m}^2$, thickness 30 mm. Product: Knauf Insulation Acoustic Insulation Panel TP 120 A or equivalent. Cladding made of perforated gypsum boards acc. to DIN 18180 Knauf Cleaneo Acoustic Base Boards with air-cleaning effect, board thickness 12.5 mm, installation acc. to DIN 18181, single layer, perforation Standard Square Q: 12/25 Q with factory-laminated PET foil on the rear side. Jointing in accordance with Code of Practice no. 2 of the IGG in the Bundesverband der Gipsindustrie e.V. quality standard Q2 standard jointing, with Uniflott and Joint Tape Kurt. Application acc. to Knauf Technical Data Sheet D126. System: Knauf Cleaneo Acoustic Ceiling for fumi Acoustic Plaster D126	m ² € €
.....	Priming of acoustic ceiling surface with Knauf Atonol and gluing of fumi Plaster Base Fleece. Finishing made of approved mineral acoustic plaster with reaction to fire of A1 acc. to DIN EN 13501-1, grain size S1/ S3/ S6 *, colour: white. Product: fumi Acoustic Plaster S1/ S3/ S6 *	m ² € €
* Cancel not applicable items				Sub-total €

Knauf Direct

Technical Advisory Service:

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▶ Fax: +49 1805 31-4000 **

▶ www.knauf.de

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* Call rates from within the German landline network: 0.39 € per Min. for callers whose phone numbers are registered in the Knauf address database, 0.06 €/Min. for Knauf Partner Dealers, 1.69 €/Min. for private builders or non-patrons. Calls from mobile phones will be charged acc. to net provider and call rate.

** 0.14 €/Min. within the German landline network

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