

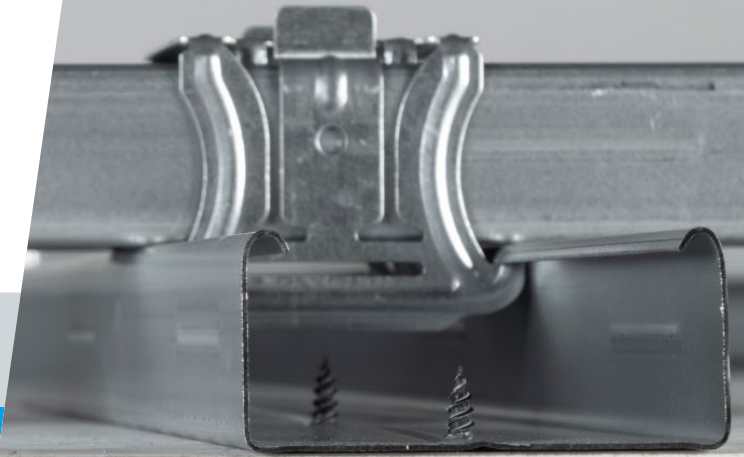
# **KNAUF**

Drywall Systems

**VT23\_Tl.de**

Technical Information

2025-07



## ***Knauf Cleaneo Klett Systems – Material Requirement***

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### Notes on the document

This technical information document serves as a planning and application basis for planners and professional installers with the application of Knauf systems. The contained information and specifications, constructions, details and stated products are based, unless otherwise stated, on the certificates of usability (e.g. National Technical Test Certificate (abP) valid at the date they are published as well as on the applicable standards. Additionally, design and structural requirements and those relating to building physics (fire resistance and sound insulation) are considered. The contained construction details are examples and can be used in a similar way for various cladding variants of the respective system. At the same time, the demands made on fire resistance and/or sound insulation as well as any necessary additional measures and/or limitations must be observed.

### References to other documents

#### System data sheets

- [Knauf Cleaneo Acoustic Board Ceilings D12\\_DSS.de](#)
- [Knauf Furring and Lining W61.de](#)
- [Knauf Free-Spanning Ceilings D13.de](#)

#### Technical brochures

- [Knauf Cleaneo Klett Solutions AK08\\_TB.de](#)
- [Knauf Cleaneo Acoustic Wall Systems AK04.de](#)
- [Knauf Jointing Competence – Tro89.de](#)

#### Folders

- [Sound insulation and room acoustics with Knauf \(only sections in English\)](#)

#### Product data sheets

- Observe the product data sheets of the individual Knauf system components.

### Stud frame spacings

- a Spacing of suspenders/anchors
- b Axial spacing furring timber batten/furring channel / hat-shaped channel (cladding span width)
- c Axial spacing carrying timber batten/carrying channel (spacing furring timber batten/furring channel)

### Legend symbols

- 1 Legend number that will be explained when used

### Intended use of Knauf systems

Please observe the following:

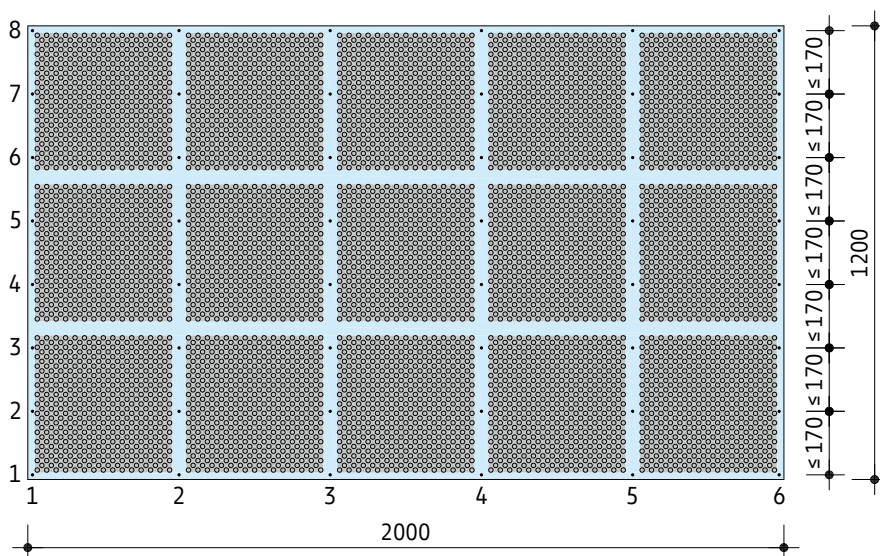
<b>Caution</b>	Knauf systems may only be used for the application cases as stated in the Knauf documentation. In case third-party products or components are used, they must be recommended or approved by Knauf. Flawless application of products / systems assumes proper transport, storage, assembly, installation and maintenance.
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### General notes on Knauf systems

<b>Note</b>	After wallpapering or after application of plasters, quick drying must be ensured through adequate airing.
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### Screws required for each Cleaneo Klett Board

Scheme drawing I Dimensions in mm



Distance between screw centres  $\leq 170$  mm

8 Diamant screws per board width x 6 screw rows (non-perforated area) = 48 Diamant screws per Cleaneo Klett Board

### Material requirement per m<sup>2</sup> ceiling without allowance for loss and waste

Selected examples

Description	Unit	Quantity as average value					
		1	2	3	4	5	6
<b>Connection to wall</b>							
<i>Batten</i>	m	0.4	–	0.4	–	0.4	–
Suitable fastener / anchor material, e.g. Knauf Nailable Plugs L 8/80	pcs	0.4	–	0.4	–	0.4	–
<i>Optional</i> <i>Angle Profile</i>	m	–	0.4	–	0.4	–	0.4
Suitable anchors, e.g. Knauf Deckennagel ceiling steel dowels with reinforced concrete	pcs	–	0.4	–	0.4	–	0.4
<b>Grid</b>							
Suitable anchors, e.g. Knauf Deckennagel ceiling steel dowels with reinforced concrete	pcs	1.8	1.5	1.2	2.2	2.0	1.5
Knauf Universal Bracket / Damping Universal Bracket for timber batten 50 x 30 2x Knauf Drywall Screw TN 3.5 x 25	pcs	1.8	1.5	1.2	2.2	2.0	1.5
<i>Alternative</i> Knauf Nonius Hanger Top + Nonius Stirrup for UA 50/40 + Nonius Splint 2x Knauf Drywall Screw TN 3.5 x 25	pcs	1.8	1.5	1.2	2.2	2.0	1.5
<i>Carrying timber batten and furring timber batten ≥ 50 x 30 mm</i>	m	4.4	4.1	3.7	4.4	4.1	3.7
Knauf Drywall Screw TN 4.3 x 55	pcs	4.7	3.9	2.9	4.7	3.9	2.9
<b>Insulation layer</b>							
<i>Insulation layer, e.g. Knauf Insulation</i>	m <sup>2</sup>	1.0	1.0	1.0	1.0	1.0	1.0
<b>Knauf boards</b>							
Cleaneo Klett Board with foil laminated on the rear	m <sup>2</sup>	1.0	–	1.0	–	1.0	–
Cleaneo Klett Board with fleece laminated on the rear	m <sup>2</sup>	–	1.0	–	1.0	–	1.0
<i>Trim e.g. 20 x 30 x 2 mm</i>	m	–	0.4	–	0.4	–	0.4
Diamant Screw XTB 3.9 x 38	pcs	–	1.4	–	1.4	–	1.4
<b>Screw fastening</b>							
Diamant Screw XTN 3.9 x 33	pcs	22	20	22	20	22	20
Cleaneo-Caps 12R	pcs	as req.	as req.	as req.	as req.	as req.	as req.
<b>Board joints</b>							
<i>Acrylate</i>	pcs	as req.	–	as req.	–	as req.	–
<b>Surface design</b>							
Cleaneo Klett Surface	pcs	1.1	1.1	1.1	1.1	1.1	1.1

**Legend:**

*as req.* = as required

Material not provided by Knauf = printed in italics

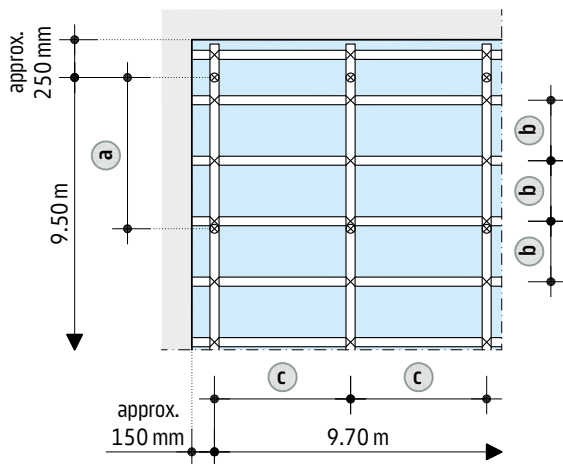
The amounts refer to a ceiling area of 10.00 m x 10.00 m = 100.00 m<sup>2</sup>

### System examples for material estimation

System variants	1	2	3	4	5	6
Cleaneo Klett Board	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)
Load class	Up to 0.15 kN	Up to 0.15 kN	Up to 0.15 kN	Up to 0.30 kN	Up to 0.30 kN	Up to 0.30 kN
Spacing of hangers	1150 mm	1100 mm	950 mm	900 mm	850 mm	750 mm
Axial spacing carrying timber batten	600 mm	700 mm	1000 mm	600 mm	700 mm	1000 mm
Axial spacing furring timber batten	400 mm	400 mm	400 mm	400 mm	400 mm	400 mm

### Example material requirement for grid D125K.de

Scheme drawing



Spacing of hangers **a** e.g. = 900 mm, carrying timber batten axial spacing **c** e.g. = 1100 mm, furring timber batten axial spacing **b** 400 mm  
Ceiling area of 10.00 m x 10.00 m

#### Connection to wall

1. 2x ceiling length + 2x ceiling width  
2x 10.00 m + 2x 10.00 m  
**= 40 m connection to wall (abutment)**

#### Carrying timber battens (always round up to a whole number)

1. (Ceiling length/width - 2x carrying timber batten edge spacing) / axial spacing carrying timber batten **c** + 1 carrying timber batten  
(10.00 m - 2x 0.15 m) / 1.10 m + 1 pcs  
**= 10 carrying timber battens**
2. Number of carrying timber battens x ceiling length/width  
10 pcs x 10.00 m  
**= 100 m carrying timber batten**

#### Furring timber battens (always round up to a whole number)

1. Ceiling length/width / furring timber batten axial spacing **b** + 1 furring timber batten  
10.00 m / 0.40 m + 1 pcs  
**= 26 furring timber battens**
2. Number of furring timber battens x ceiling length/width  
26 pcs x 10.00 m  
**= 260 m furring timber batten**

#### Hangers / suspenders (always round up to a whole number)

1. (Ceiling length/width - 2x hanger edge spacing) / axial spacing hanger **a** + 1 hanger  
(10.00 m - 2x 0.25 m) / 0.90 m + 1 pcs  
**= 11 hangers per carrying timber batten**
2. Number of hangers per carrying timber batten x number of carrying timber battens  
12 pcs x 12 pcs  
**= 144 hangers**

#### Connection carrying timber batten and furring timber batten

1. Number of carrying timber battens x furring timber battens  
10 pcs x 26 pcs  
**= 260 Knauf Drywall Screws TN 4.3 x 55**

### Material requirement per m<sup>2</sup> ceiling without allowance for loss and waste

Selected examples

Description	Unit	Quantity as average value					
		1	2	3	4	5	6
<b>Connection to wall</b>							
Knauf Profile UD 28/27	m	0.4	–	0.4	–	0.4	–
Knauf Trennwandkitt acoustical sealant	pcs	0.6	–	0.6	–	0.6	–
Suitable anchors, e.g. Knauf Deckennagel ceiling steel dowels with reinforced concrete	pcs	0.4	–	0.4	–	0.4	–
<i>Optional</i> Angle Profile	m	–	0.4	–	0.4	–	0.4
Suitable anchors, e.g. Knauf Deckennagel ceiling steel dowels with reinforced concrete	pcs	–	0.4	–	0.4	–	0.4
<b>Grid</b>							
Suitable anchors, e.g. Knauf Deckennagel ceiling steel dowels with reinforced concrete	pcs	1.9	1.5	1.2	2.3	1.8	1.4
Knauf Universal Bracket / Damping Universal Bracket for CD 60/27 Knauf Metal Screws LN 3.5 x 11	pcs	1.9	1.5	1.2	2.3	1.8	1.4
Alternative Knauf Adjustable Universal Brackets / Damping Universal Bracket (incl. 2x pins)	pcs	1.9	1.5	1.2	2.3	1.8	1.4
Alternative Knauf Nonius Hanger Top/Nonius Swing Top + Nonius Hanger Bottom+ Nonius Splint	pcs	1.9	1.5	1.2	2.3	1.8	1.4
Alternative Knauf Nonius Hanger Top/Nonius Swing Top + Nonius Stirrup for CD 60/27 + Nonius Splint	pcs	1.9	1.5	1.2	2.3	1.8	1.4
Knauf Profile CD 60/27	m	4.7	4.0	3.6	4.7	4.0	3.6
Knauf CD Longitudinal Connector	pcs	as req.	as req.	as req.	as req.	as req.	as req.
Knauf Intersection Connector for CD 60/27	pcs	5.5	3.6	2.6	5.5	3.6	2.6
Alternative 2x Knauf Ankerwinkel Clips	pcs	5.5	3.6	2.6	5.5	3.6	2.6
<b>Insulation layer</b>							
Insulation layer, e.g. Knauf Insulation	m <sup>2</sup>	1.0	1.0	1.0	1.0	1.0	1.0
<b>Knauf boards</b>							
Cleaneo Klett Board with foil laminated on the rear	m <sup>2</sup>	1.0	–	1.0	–	1.0	–
Cleaneo Klett Board with fleece laminated on the rear	m <sup>2</sup>	–	1.0	–	1.0	–	1.0
Trim e.g. 20 x 30 x 2 mm	m	–	0.4	–	0.4	–	0.4
Diamant Screw XTB 3.9 x 38	pcs	–	1.4	–	1.4	–	1.4
<b>Screw fastening</b>							
Diamant Screw XTN 3.9 x 23	pcs	22	20	22	20	22	20
Cleaneo-Caps 12R	pcs	as req.	as req.	as req.	as req.	as req.	as req.
<b>Board joints</b>							
Acrylate	pcs	as req.	–	as req.	–	as req.	–
<b>Surface design</b>							
Cleaneo Klett Surface	pcs	1.1	1.1	1.1	1.1	1.1	1.1

**Legend:**

as req. = as required

Material not provided by Knauf = printed in italics

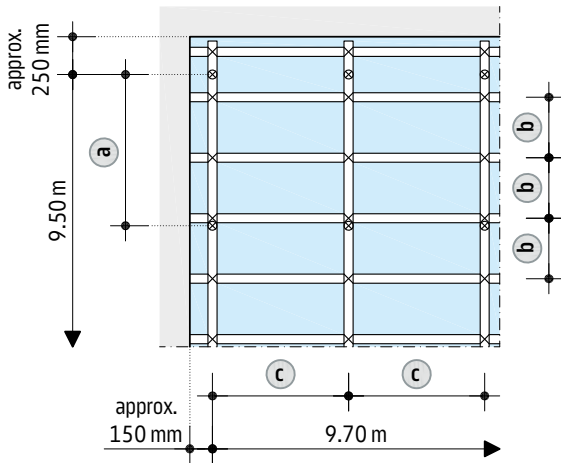
The amounts refer to a ceiling area of 10.00 m x 10.00 m = 100.00 m<sup>2</sup>

### System examples for material estimation

System variants	1	2	3	4	5	6
Cleaneo Klett Board	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)
Load class	Up to 0.15 kN	Up to 0.15 kN	Up to 0.15 kN	Up to 0.30 kN	Up to 0.30 kN	Up to 0.30 kN
Spacing of hangers/suspenders	1200 mm	1050 mm	900 mm	950 mm	800 mm	750 mm
Carrying channel axial spacing	500 mm	800 mm	1100 mm	500 mm	800 mm	1100 mm
Axial spacing of furring channel	400 mm	400 mm	400 mm	400 mm	400 mm	400 mm

### Example material requirement for grid D127K.de

Scheme drawing



Hanger spacings **a** e.g. = 1000 mm, carrying channel axial spacing **c** e.g. = 900 mm, furring channel axial spacing **b** 400 mm  
Ceiling area of 10.00 m x 10.00 m

#### Connection to wall

- 2x ceiling length + 2x ceiling width  
2x 10.00 m + 2x 10.00 m  
**= 40 m connection to wall (abutment)**

#### Carrying channels (always round up to a whole number)

- (Ceiling length/width - 2x carrying channel edge spacing) / axial spacing carrying channel **c** + 1 carrying channel  
(10.00 m - 2x 0.15 m) / 0.90 m + 1 pcs  
**= 12 carrying channels**
- Number of carrying channels x ceiling length/width  
12 pcs x 10.00 m  
**= 120 m carrying channel**

#### Furring channel (always round up to a whole number)

- Ceiling length/width / furring channel axial spacing **b** + 1 furring channel  
10.00 m / 0.40 m + 1 pcs  
**= 26 furring channels**
- Number of furring channels x ceiling length/width  
26 pcs x 10.00 m  
**= 260 m furring channel**

#### Hangers / suspenders (always round up to a whole number)

- (Ceiling length/width - 2x hanger edge spacing) / axial spacing hanger **a** + 1 hanger  
(10.00 m - 2x 0.25 m) / 1.00 m + 1 pcs  
**= 11 hangers per carrying channel**
- Number of hangers per carrying channel x number of carrying channels  
11 pcs x 12 pcs  
**= 132 hangers**

#### Connectors

- Number of carrying channels x number of furring channels  
12 pcs x 26 pcs  
**= 312 connectors**

#### CD Longitudinal Connector

As required

D125K.de

D127K.de

D131K.de

W623K.de

### Material requirement per m<sup>2</sup> ceiling without allowance for loss and waste

Selected examples

Description	Unit	Quantity as average value			
		1	2	3	4
<b>Connection to wall</b>					
Knauf UW runner	m	0.8	0.8	0.8	0.8
Suitable fastener material, e.g.					
Knauf Multi-Purpose Screw 2x FN with Metal Stud Partition	pcs	2.7	2.7	2.7	2.7
Alternative Knauf Deckennagel ceiling steel dowel with reinforced concrete	pcs	2.8	2.8	2.8	2.8
Knauf CW runner	m	0.2	0.2	0.2	0.2
Suitable fastener material, e.g.					
Knauf Multi-Purpose Screw 2x FN with Metal Stud Partition	pcs	as req.	as req.	as req.	as req.
Alternative Knauf Deckennagel ceiling steel dowel with reinforced concrete	pcs	as req.	as req.	as req.	as req.
<b>Grid</b>					
Knauf carrying channel					
Knauf CW single profile	m	2.1	1.9	1.7	1.5
e.g. Knauf Metal Screw LN 3.5 x 11 (connection with lateral UW perimeter runner)	pcs	1.8	1.5	1.5	1.2
Alternative Knauf CW double stud profile	m	4.0	3.8	3.2	3.0
Knauf Metal Screw LN 3.5 x 11 (Knauf CW stud screwed at lap)	pcs	3.8	3.8	3.0	3.0
e.g. Knauf Metal Screw LN 3.5 x 11 (connection with lateral UW perimeter runner)	pcs	3.4	3.2	2.7	2.6
Hat-Shaped Channel 98/15	m	2.4	2.8	2.4	2.8
Knauf Multi-Purpose Screw FN 4.3 x 35	pcs	10.1	11.8	8.2	9.5
Knauf board strip 15 mm wide	m <sup>2</sup>	0.2	–	0.2	–
Knauf Drywall Screws TN / Diamant Screw XTN	pcs	1.4	–	1.4	–
<b>Insulation layer</b>					
<i>Insulation layer, e.g. Knauf Insulation</i>	m <sup>2</sup>	1.0	1.0	1.0	1.0
<b>Knauf boards</b>					
Cleaneo Klett Board with foil laminated on the rear	m <sup>2</sup>	1.0	–	1.0	–
Cleaneo Klett Board with fleece laminated on the rear	m <sup>2</sup>	–	1.0	–	1.0
<i>Trim e.g. 20 x 30 x 2 mm</i>	m	–	0.4	–	0.4
Diamant Screw XTB 3.9 x 38	pcs	–	3.4	–	3.4
<b>Screw fastening</b>					
Diamant Screw XTN 3.9 x 23	pcs	18.5	21.8	18.5	21.8
Diamant Screw XTN 3.9 x 38	pcs	6	–	6	–
Cleaneo-Caps 12R	pcs	as req.	as req.	as req.	as req.
<b>Board joints / jointing</b>					
Acrylate	pcs	as req.	–	as req.	–
Knauf Uniflott (board strip jointing)	kg	as req.	–	as req.	–
<b>Surface design</b>					
Cleaneo Klett Surface	pcs	1.1	1.1	1.1	1.1

Legend:

as req. = as required

Material not provided by Knauf = printed in italics

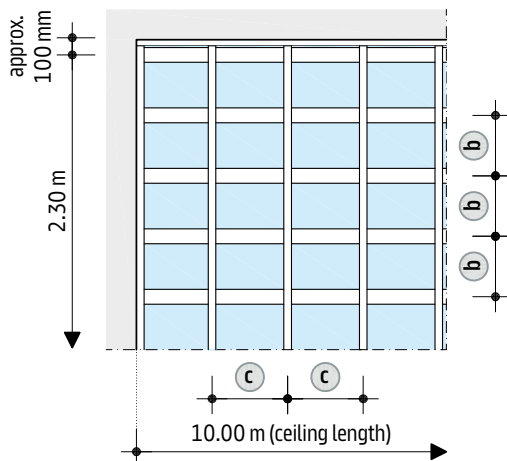
The amounts refer to a ceiling area of 2.5 m x 10.00 m = 25.00 m<sup>2</sup>

### System examples for material estimation

System variants	1	2	3	4
Cleaneo Klett Board	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)	Foil lamination (sealed perimeter connection)	Fleece lamination (with shadow gap)
Carrying channel axial spacing	500 mm	500 mm	625 mm	625 mm
Axial spacing of furring channel	400 mm	400 mm	400 mm	400 mm

### Example material requirement for grid D137K.de

Scheme drawing



Axial spacing of furring channel <b>c</b> e.g. = 500 mm (CW single profile), axial spacing furring channel <b>b</b> 400 mm	
Ceiling area of 2.50 m x 10.00 m	
Fleece lamination (with shadow gap)	Foil lamination (sealed perimeter connection)
<b>Connection to wall supporting</b>	
1. 2x ceiling length 2x 10.00 m = 20 m UW runner	1. 2x ceiling length 2x 10.00 m = 20 m UW runner
<b>Carrying channels</b> (always round up to a whole number)	
1. Ceiling length / carrying channel axial spacing <b>c</b> + 1 carrying channel 10.00 m / 0.50 m + 1 pcs = 21 carrying channels	1. Ceiling length / carrying channel axial spacing <b>c</b> + 3 carrying channel 10.00 m / 0.50 m + 3 pcs = 23 carrying channels
2. Number of carrying channels x ceiling width 21 pcs x 2.50 m = 52.50 m carrying channel	2. Number of carrying channels x ceiling width 23 pcs x 2.50 m = 57.50 m carrying channel
<b>Furring channel</b> (always round up to a whole number)	
1. (Ceiling width - 2x furring channel edge spacing) / furring channel axial spacing <b>b</b> + 1 furring channel (2.50 m - 2x 0.10 m) / 0.4 m + 1 pcs = 7 furring channels	1. (Ceiling width - 2x furring channel axial spacing <b>b</b> ) / furring channel axial spacing <b>b</b> + 1 furring channel (2.50 m - 2x 0.40 m) / 0.4 m + 1 pcs = 6 furring channels
2. Number of furring channels x ceiling length 7 pcs x 10.00 m = 70 m furring channel	2. Number of furring channels x ceiling length 6 pcs x 10.00 m = 60 m furring channel
<b>Multi-Purpose Screw FN 4.3 x 35</b>	
1. Number of carrying channels x number of furring channels x 2 21 pcs x 7 pcs x 2 = 294 Multi-Purpose Screws FN	1. (Number of carrying channels - 2 carrying channels) x number of furring channels x 2 (23 pcs - 2 pcs) x 6 pcs x 2 = 252 Multi-Purpose Screws FN

D125K.de

D127K.de

D137K.de

W623K.de

### Material requirement per m<sup>2</sup> of acoustic wall lining without allowance for loss and waste Selected examples

Description	Unit	Quantity as average value		
		1	2	3
<b>Grid</b>				
Anchoring of the Knauf profiles (to flanking constructional components)				
Suitable anchors, e.g. Deckennagel ceiling steel dowels with reinforced concrete	pcs	1.5	1.5	1.5
Fastening Knauf Universal Bracket for CD 60/27				
Suitable anchors, e.g. Deckennagel ceiling steel dowels with reinforced concrete	pcs	1.5	1.5	1.5
Knauf Profile UD 28/27	m	1.2	1.2	1.2
Knauf Profile CD 60/27	m	2.3	2.3	2.3
Knauf Universal Bracket for CD 60/27, 120 mm Knauf Metal Screws LN 3.5 x 11	pcs	1.5	1.5	1.5
Knauf Sealing Tape strips 70/3 mm, 75 mm long	m	0.1	0.1	0.1
Knauf Trennwandkitt acoustical sealant	pcs	0.4	0.4	0.4
<i>Alternative</i> Knauf Dichtungsband sealing tape	m	0.1	0.1	0.1
Knauf Profil CD 60/27 for joint backing (Cleaneo Klett Board to Diamant)	m	0.4	0.4	–
<b>Insulation layer</b>				
<i>Insulation layer, e.g. Knauf Insulation</i>	m <sup>2</sup>	1.0	1.0	1.0
<b>Knauf boards</b>				
Cleaneo Klett Board with foil laminated on the rear 18 mm Diamant	m <sup>2</sup>	0.3	0.5	1.0
Knauf board with mitering	m	as req.	as req.	as req.
<b>Screw fastening</b>				
Diamant Screw XTN 3.9 x 2.3 (Cleaneo Klett Board with foil laminated on the rear)	pcs	7.0	11.0	21.0
Diamant Screw XTN 3.9 x 3.3 of (18 mm Diamant)	pcs	16.0	13.0	–
Cleaneo-Caps 1.2R	pcs	as req.	as req.	as req.
<b>Board joints (Cleaneo Klett Board with foil laminated on the rear)</b>				
<i>Acrylate</i>	pcs	as req.	as req.	as req.
<b>Jointing (18 mm Diamant)</b>				
Knauf Uniflott	kg	1.0	1.0	–
Knauf Edge Trim	m	as req.	as req.	as req.
Trenn-Fix, 65 mm wide, self-adhesive	m	as req.	as req.	as req.
<b>Surface design</b>				
Cleaneo Klett Surface	pcs	0.4	0.6	1.1

**Legend:**

*as req.* = as required

*Material not provided by Knauf* = printed in italics

The amounts refer to a wall area of  
 $H = 3.00\text{ m}$ ,  $L = 4.00\text{ m}$  =  $A = 12.00\text{ m}^2$

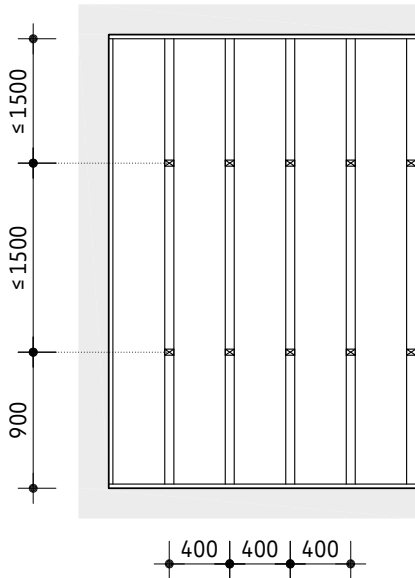
### System examples for material estimation

System variants	1	2	3
Share of the surface Cleaneo Klett	33 %	50 %	100 %
Stud spacing CD 60/27	400 mm	400 mm	400 mm

D125K.de  
D127K.de  
D137K.de  
W623K.de

### Example material requirement for grid W623K.de

Scheme drawing | Dimensions in mm



Stud spacing = 400 mm, Universal Bracket axial spacing  $\leq$  1500 mm  
 Wall area of H = 3.00 m, L = 4.00 m

#### Connection to wall

- 2x wall height + 2x wall width  
 $2 \times 3.00 \text{ m} + 2 \times 4.00 \text{ m}$   
**= 14 m Profile UD 28/27**

#### Stud profiles (always round up to a whole number)

- $(\text{Wall width} - 2 \times \text{stud profile axial spacing}) / \text{stud profile axial spacing} + 1 \text{ stud profile}$   
 $(4.00 \text{ m} - 2 \times 0.40 \text{ m}) / 0.40 \text{ m} + 1 \text{ pcs}$   
**= 9 stud profiles**
- Number of stud profiles x wall height  
 $9 \text{ pcs} \times 3.00 \text{ m}$   
**= 27 m stud profiles**

#### Universal Brackets (always round up to a whole number)

- $(\text{Wall height} - \text{first Universal Bracket from upper edge of finished floor}) / \text{Universal Bracket axial spacing}$   
 $(3.00 \text{ m} - 0.90 \text{ m}) / 1.50 \text{ m}$   
**= 2 Universal Brackets per stud profile**
- Number of stud profiles x number of Universal Brackets  
 $9 \text{ pcs} \times 2 \text{ pcs}$   
**= 18 Universal Brackets**

D125K.de  
D127K.de  
D137K.de  
W623K.de

# KNAUF



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