Knauf Installation Shaft Walls

W628A.de Knauf Installation Shaft Wall – Free spanning
W630.de Knauf Installation Shaft Wall – Stud crossbars with CW profiles
W628B.de Knauf Installation Shaft Wall – Stud construction with CW profiles
W629.de Knauf Installation Shaft Wall – Stud construction with CW double profiles
K251.de Knauf Fireboard Installation Shaft Wall – Stud construction with CW double profiles
W635.de Knauf Installation Shaft Wall – Stud construction with UW double profiles

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the system catalogue 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. Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.

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Usage instructions

Notes on the document
Knauf System Data Sheets are the planning and application basis for the 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) and/or approvals) 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
- For application of furring (without fire resistance) refer to System Data Sheet W61.de Knauf Trockenputz und Vorsatzschalen (Drylining and Furring) (German only)
- Observe the Product Data Sheets of the Knauf system components

Insulation layer
Requirements for the insulation layer:
- Mineral wool insulation layer acc. to EN 13162 (insulating material, e.g. from Knauf Insulation)
- Fire protection: Observe the system specifications
- Sound insulation: Length related flow resistance acc. to EN 29053 (r ≥ 5 kPa s/m²)

Fire protection effect
Fire protection is effective from the room side and from the shaft cavity side for all Knauf Installation Shaft Walls

Room side

Shaft side

Reinforcing and supporting connection components must at least feature the same fire resistance class.

Sound insulation
- $R_{wR} =$ calculation value of the weighted apparent sound reduction index without flanking paths
- Sound insulation values only apply in conjunction with Knauf profiles. (Insulation materials, e.g. from Knauf Insulation)

Note
Sound insulation
Avoid air leaks.
For deflection heads, sealing with permanently elastic sealant material (recommendation: Knauf Insulation LDS Solimur) may be necessary.

Installation zones acc. to DIN 4103-1
- Installation zone 1
  - Partitions in rooms where low numbers of persons gather, e.g. dwellings, hotels, office and hospital rooms including corridors and halls or similar.
- Installation zone 2
  - Partitions in rooms where large numbers of persons gather, e.g. meeting halls, school classrooms, auditoria, exhibition halls and sales rooms as well as rooms with floor height difference of ≥ 1 m (partition walls acting as barriers).
  - Unless otherwise stated, the value in the table is the maximum permissible partition height for installation zone 2.

Construction notes
Movement joints
Movement joints of the main structure should be integrated into the construction of the installation shaft walls. Movement joints are to be installed about every 15 m on continuous installation shaft walls.
## Certificates of Usability

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Fire protection</th>
<th>Sound insulation</th>
<th>Statics</th>
</tr>
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<tbody>
<tr>
<td>W628A.de</td>
<td>abP P-3969/2222-MPA BS</td>
<td>Knauf sound insulation proof L 020-08.09</td>
<td>Knauf calculation</td>
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<tr>
<td>W630.de</td>
<td>abP P-3969/2222-MPA BS</td>
<td>Knauf sound insulation proof L 020-08.09</td>
<td>Knauf calculation</td>
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<td>abP P-1403/355/12-MPA BS</td>
</tr>
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<td></td>
<td>abP P-SAC-02/III-797</td>
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<td>abP P-1100/490/15-MPA BS</td>
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<td>abP P-1100/490/15-MPA BS</td>
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<td>abP P-3393/172/08-MPA BS</td>
<td>Knauf sound insulation proof L 020-08.09</td>
<td>abP P-1403/355/12-MPA BS</td>
</tr>
<tr>
<td>W635.de</td>
<td>abP P-3320/194/09-MPA BS</td>
<td>Knauf sound insulation proof L 020-08.09</td>
<td>Knauf calculation</td>
</tr>
</tbody>
</table>

### Notes on fire resistance

The specifications marked with **offer additional application options, which are not directly included in the Certificate of Usability. On the basis of our technical assessments, we assume that these marked design solutions can be assessed as a non-significant divergence. We can make the documentation on which this assessment is based, such as surveyors' reports or technical assessments, available to you together with the Certificate of Usability on request. We recommend that a non-significant divergence be coordinated and authorised in advance in consultation between the persons responsible for fire resistance and/or the relevant authorities.

The stated constructional and structural properties, and characteristic building physics of Knauf systems can solely be ensured with the exclusive use of Knauf system components, or other products expressly recommended by Knauf. The validity and up-to-datedness of the stated proofs have to be considered.
System overview

Knauf Installation Shaft Walls

Knauf Installation Shaft Walls are metal stud partitions clad on one side with a fire resistance rating, and if necessary, with a sound insulation rating providing constructional separation of installation shafts. Fire protection is provided both internally (fire in the installation shaft, protects against fire spreading to surrounding rooms) and externally (protection of the equipment as well as the spread of fire to other floors). Knauf Installation Shaft Walls consist of a metal substructure and single or double layer cladding made of Knauf boards. The metal framework is anchored along the entire perimeter (on W628A.de only on the side) to the flanking components. Insulation material for sound and thermal insulation can be installed into the metal frame construction depending on the system insulation materials.

W628A.de Knauf Installation Shaft Wall free spanning

The installation shaft wall system W628A.de is installed up to a shaft width of 2.00 m without a stud frame. The installation shaft wall system features a slim construction. Additional insulation is not required for fire protection purposes.

- Side perimeter connections with angle profiles
- Free spanning horizontal cladding
- Wall height up to: 15.00 m
- Sound reduction index up to: 33 dB

W630.de Knauf Installation Shaft Wall with stud crossbars

The installation shaft wall system W630.de is applied using a single metal stud frame made of single profiles. Additional insulation is not required for fire protection purposes.

- Horizontal metal crossbars, metal CW studs
- Perimeter connection with UW runners, upper and lower perimeter with CW studs
- Ball impact safety on request
- Insulation layer optional
- Horizontal cladding
  (Massivbauplatte Solid Board horizontal in the 1st layer and vertical in the 2nd layer)
- Wall height up to: 7.00 m
- Sound reduction index up to: 42 dB

W628B.de Knauf Installation Shaft Wall with single stud profile

The installation shaft wall system W628B.de is applied using a single metal stud frame made of single profiles. Additional insulation is not required for fire protection purposes.

- Metal CW studs
- Perimeter connection with CW studs, upper and lower perimeter with UW runners
- Ball impact safety possible
- Insulation layer optional
- Vertical cladding with Feuerschutzplatte Knauf Piano fire-resistant board / Knauf Feuerschutzplatte fire-resistant board / Fireboard / Diamant, horizontal cladding with Massivbauplatte Solid Board / Silentboard
- Wall height up to: 5.00 m
- Sound reduction index up to: 44 dB
**W629.de** Knauf Installation Shaft Wall with double stud profiles

The installation shaft wall system **W629.de** is applied using a single metal stud frame made of double profiles.
- CW metal stud as a double profile
- Perimeter connection with CW studs, upper and lower perimeter with UW runners
- Ball impact safety possible
- Insulation layer optional / required depending on the system variant selected
- Vertical cladding with Feuerschutzplatte Knauf Piano fire-resistant board / Knauf Feuerschutzplatte fire-resistant board / Fireboard / Diamant, horizontal cladding with Massivbauplatte Solid Board / Silentboard
- Wall height up to: 5.60 m
- Sound reduction index up to: 44 dB

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**K251.de** Fireboard Installation Shaft Wall with double stud profiles

The installation shaft wall system **K251.de** features sophisticated fire protection properties with reaction to fire A1, non-combustible and single-layer cladding made of Knauf Fireboard.
- Metal stud partition CW as a double profile without/with Fireboard covering strips on the shaft side
- Perimeter connection with CW studs, upper and lower perimeter with UW runners
- Ball impact safety on request
- Insulation layer required
- Vertical cladding
- Wall height up to: 5.00 m
- Sound reduction index up to: 39 dB

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**W635.de** Knauf Installation Shaft Wall with double stud profiles

The installation shaft wall system **W635.de** is specially designed for sound installation requirements as a slim system with specially constructed additional board layer on the shaft side.
- Metal stud partition UW as a double profile with installed 12.5 mm layer of Feuerschutzplatte Knauf Piano fire-resistant board on the shaft side.
- Surrounding perimeter connections with UW runners
- Ball impact safety on request
- Insulation layer required
- Vertical cladding
- Wall height up to: 5.00 m
- Sound reduction index up to: 52 dB
## Technical and building physical data

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound insulation</th>
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<tbody>
<tr>
<td>Scheme drawings</td>
<td>Knauf Piano fire-resistant board</td>
<td>approx. kg/m²</td>
<td>D mm</td>
<td>Knauf profile 50/35 mm</td>
<td>Min. thickness mm</td>
<td>Min. density kg/m³</td>
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<tr>
<td>F90</td>
<td>■</td>
<td>2x 25</td>
<td>44</td>
<td>50</td>
<td>—</td>
<td>without</td>
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</tbody>
</table>

**Note**: Observe the notes on page 4
### Wall heights

#### 1-sided application

<table>
<thead>
<tr>
<th>Knauf perimeter runner</th>
<th>Maximum shaft width</th>
<th>Maximum permissible wall heights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="#">Diagram</a></td>
<td><a href="#">Diagram</a></td>
</tr>
<tr>
<td>Angle Profile 50/35</td>
<td>2.00 m</td>
<td>3.00 m</td>
</tr>
</tbody>
</table>

- Larger wall heights on request

#### 2-sided application

<table>
<thead>
<tr>
<th>Knauf perimeter runner</th>
<th>Maximum installation shaft wall surface execution</th>
<th>Maximum permissible wall heights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="#">Diagram</a></td>
<td><a href="#">Diagram</a></td>
</tr>
<tr>
<td>Angle Profile 50/35</td>
<td>a + b ≤ 2.00 m</td>
<td>5.00 m</td>
</tr>
</tbody>
</table>

- [plus](#)

#### 3-sided application

<table>
<thead>
<tr>
<th>Knauf perimeter runner</th>
<th>Maximum installation shaft wall surface execution</th>
<th>Maximum permissible wall heights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="#">Diagram</a></td>
<td><a href="#">Diagram</a></td>
</tr>
<tr>
<td>Angle Profile 50/35</td>
<td>2 a + b ≤ 2.00 m</td>
<td>5.00 m</td>
</tr>
</tbody>
</table>

- [plus](#)

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**Extension of the fire resistance Certificate of usability**

- With wall heights exceeding 3.00 m
- With 2- or 3-sided application

Prior consultation in acc. to page 5 is recommended.

**Note**

Maximum permissible spacings with edge fixing see page 36.
### Technical and building physical data

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheme drawings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire resistance class</td>
<td>Knauf Piano fire-resistant board</td>
<td>With-</td>
<td>Knauf CW profile cavity</td>
<td>Insulation layer Fire protection permissible</td>
<td>Sound reduction index $R_{w,R}$ in dB</td>
<td></td>
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<tr>
<td></td>
<td>Fireboard</td>
<td>out insulation layer approx. kg/m²</td>
<td>h mm</td>
<td>Min. thickness</td>
<td>Min. density</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silentboard</td>
<td></td>
<td></td>
<td>mm</td>
<td>kg/m³</td>
<td></td>
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<table>
<thead>
<tr>
<th>W630.de Knauf Installation Shaft Wall</th>
<th>Metal crossbars with CW studs, double-layer cladding</th>
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<tbody>
<tr>
<td><strong>F30</strong></td>
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</tr>
<tr>
<td><strong>Shaft side</strong></td>
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</tr>
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<td></td>
</tr>
<tr>
<td><strong>Shaft width</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>F90</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Extension of the fire resistance Certificate of Usability

- **G** When applied with insulation layer
- Prior consultation in acc. to page 5 is recommended.

#### Note

Observe the notes on page 4
### Wall heights

**Double-layer cladding, Feuerschutzplatte Knauf Piano fire-resistant board / Diamant 2x12.5 mm**

<table>
<thead>
<tr>
<th>Knauf Profile</th>
<th>Max. spacing of crossbars</th>
<th>Max. installation shaft widths</th>
<th>Max. permissible wall heights</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Metal gauge 0.6 mm</td>
<td>mm</td>
<td>m</td>
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<tr>
<td>CW 50</td>
<td>312.5</td>
<td>3.00</td>
<td>3.00</td>
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<tr>
<td>CW 75</td>
<td>312.5</td>
<td>3.00</td>
<td>4.50</td>
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<tr>
<td>CW 100</td>
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<td>3.00</td>
<td>5.00</td>
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</tbody>
</table>

**Double-layer cladding, Massivbauplatte Solid Board 2x 20 mm**

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<th>Max. spacing of crossbars</th>
<th>Max. installation shaft widths</th>
<th>Max. permissible wall heights</th>
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<tr>
<td></td>
<td>Metal gauge 0.6 mm</td>
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<td>CW 50</td>
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<td>CW 75</td>
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<td>3.00</td>
</tr>
<tr>
<td>CW 100</td>
<td>312.5</td>
<td>4.00</td>
<td>3.00</td>
</tr>
</tbody>
</table>

1) Alternative crossbar spacing 625 mm possible with CW double profile

### Crossbar frame spacing

- CW profile as crossbar
- CW double profile as crossbar

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**Extension of the fire resistance Certificate of Usability**

- With wall heights exceeding 3.00 m (F30)
- With installation shaft widths exceeding 3.00 m (F30)

Prior consultation in acc. to page 5 is recommended.

**Note**

Maximum permissible spacings with edge fixing, see page 36.
# Technical and building physical data

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound insulation</th>
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<tr>
<td>Scheme drawings</td>
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## W628B.de Knauf Installation Shaft Wall

Single metal stud frame with CW single studs, double-layer cladding

### Stud spacing

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<th>Cladding</th>
<th>Weight</th>
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<th>Profiles</th>
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<tr>
<td>2x 12.5</td>
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<td>75</td>
<td>50</td>
<td>Without 1)</td>
<td>30 36 36 –</td>
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### Stud spacing

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### Stud spacing

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### Stud spacing

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<tr>
<td>115</td>
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<td>140</td>
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<td>37</td>
<td>115</td>
<td>75</td>
<td>Without or mineral wool G</td>
<td>33 41 42 –</td>
<td></td>
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### Stud spacing

<table>
<thead>
<tr>
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<tbody>
<tr>
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### Stud spacing

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<tr>
<th>Fire resistance class</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound insulation</th>
</tr>
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<tr>
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</tr>
<tr>
<td>2x 20</td>
<td>37</td>
<td>115</td>
<td>75</td>
<td>Without or mineral wool G</td>
<td>33 41 42 –</td>
<td></td>
</tr>
<tr>
<td>140</td>
<td>100</td>
<td></td>
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### Stud spacing

<table>
<thead>
<tr>
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<td>Without or mineral wool G</td>
<td>33 41 42 –</td>
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<tr>
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<th>Weight</th>
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<tr>
<td>2x 20</td>
<td>37</td>
<td>115</td>
<td>75</td>
<td>Without or mineral wool G</td>
<td>33 41 42 –</td>
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<td>100</td>
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### Stud spacing

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>a</td>
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</tr>
</tbody>
</table>

### Stud spacing

1) • Up to wall height of 3.00 m acc. to abP P-3393/172/08-MPA BS mineral wool G permissible for fire resistance purposes.

### Extension of the fire resistance Certificate of Usability

• With insulation layer in conjunction with abP P-SAC-02/II-797 mineral wool G permissible for fire resistance purposes.

### Sound reduction index values represented in italics are derived values from measurements on divergent constructions.

### Note

Observe the notes on page 4
## Double-layer cladding acc. to abP P-339/172/08-MPA BS

<table>
<thead>
<tr>
<th>Knauf Profile</th>
<th>Maximum spacing a mm</th>
<th>Maximum permissible wall heights Feuerschutzplatte Piano / Diamant</th>
<th>Knauf Feuer- schutzplatte fire-resistant board / Diamant</th>
<th>Diamant 2x15 mm</th>
<th>Fireboard 2x20 mm</th>
<th>Massivbauplatte Solid Board 2x25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW 50</td>
<td>1000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3.10(^1)</td>
</tr>
<tr>
<td></td>
<td>625</td>
<td>3.00</td>
<td>3.00</td>
<td>3.10(^1)</td>
<td>3.25</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>417</td>
<td>3.00</td>
<td>4.00</td>
<td>4.00</td>
<td>3.00</td>
<td>3.00</td>
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<td>4.00</td>
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<td>3.00</td>
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<tr>
<td>CW 75</td>
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<td>-</td>
<td>-</td>
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<td>CW 100</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>3.00</td>
</tr>
<tr>
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<td>625</td>
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<td>4.65</td>
<td>5.00</td>
<td>3.00</td>
<td>3.00</td>
</tr>
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<td>5.00</td>
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<td>3.00</td>
</tr>
<tr>
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<td>5.00</td>
<td>5.00</td>
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<td>3.00</td>
</tr>
</tbody>
</table>

\(^1\) only for installation zone 1

**Double-layer cladding acc. to abP P-SAC-02/III-797**

<table>
<thead>
<tr>
<th>Knauf Profile</th>
<th>Maximum spacing a mm</th>
<th>Maximum permissible wall heights Feuerschutzplatte Piano / Diamant</th>
<th>Knauf Feuer- schutzplatte fire-resistant board / Diamant</th>
<th>Diamant 2x15 mm</th>
<th>Fireboard 2x20 mm</th>
<th>Massivbauplatte Solid Board 2x25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW 50</td>
<td>1000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3.10(^1) plus</td>
</tr>
<tr>
<td></td>
<td>625</td>
<td>2.95(^1)</td>
<td>2.65 / 3.35(^1)</td>
<td>2.65 / 3.35(^1)</td>
<td>3.55(^1)</td>
<td>4.00</td>
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<tr>
<td></td>
<td>417</td>
<td>3.20 / 3.60(^1)</td>
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<td>4.00 plus</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>4.00 plus</td>
</tr>
<tr>
<td></td>
<td>625</td>
<td>4.00</td>
<td>4.00</td>
<td>4.00</td>
<td>4.00</td>
<td>4.05</td>
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<td>4.95</td>
<td>4.95</td>
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<td>5.00</td>
</tr>
<tr>
<td>CW 100</td>
<td>1000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4.10 plus</td>
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</tr>
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</tbody>
</table>

\(^1\) only for installation zone 1

**Construction of edge fixing with backing at:**
- Wall height > 3.00 m with 2x 15 mm Knauf boards
- System variants acc. to abP P-SAC-02/III-797

Connection to wall with backing of the CW perimeter runner web with board strips, see pages 24, 25 and 36.

**Extension of the fire resistance Certificate of Usability**
- When the enhanced wall heights are used
- With Silentboard/Fireboard acc. to abP P-SAC-02/III-797
- With stud spacing of ≤ 625 mm

Prior consultation in acc. to page 5 is recommended.

**Ball impact safety**
Ball impact safety is provided with spacing of studs ≤ 625 mm.
## Technical and building physical data

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer required for fire resistance</th>
<th>Sound insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheme drawings</td>
<td></td>
<td></td>
<td></td>
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#### W62.de Knauf Installation Shaft Wall

**Single metal stud frame with CW double studs, double-layer cladding**

<table>
<thead>
<tr>
<th>Fire resistance class</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer required for fire resistance</th>
<th>Sound insulation</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

**Table entries**

1. **Up to wall height of 3.00 m acc. to abP P-3393/172/08-MPA BS mineral wool (G) permissible for fire resistance purposes.**
2. System variants acc. to abP P-SAC-02/III-797 mineral wool (G) permissible for fire resistance purposes.
3. Without mineral wool acc. to abP P-SAC-02/III-797 or with mineral wool (S) acc. to abP P-3393/172/08-MPA BS.
4. **Sound reduction index values represented in italics are derived values from measurements on divergent constructions.**

### Extension of the fire resistance Certificate of Usability

- With insulation layer in conjunction with abP P-SAC-02/III-797
- Prior consultation in acc. to page 5 is recommended.

### Note

Observe the notes on page 4.
### Wall heights

#### Double-layer cladding acc. to abP P-3393/172/08-MPA BS

<table>
<thead>
<tr>
<th>Knauf profile</th>
<th>Maximum spacing</th>
<th>Maximum permissible wall heights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal gauge 0.6 mm</td>
<td>a mm</td>
<td>Feuerschutzplatte / Knauf Piano fire-resistant board / Diamant 12.5 mm 2x 15 mm m</td>
</tr>
<tr>
<td>CW 50</td>
<td>1000</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>312.5</td>
<td>3.00</td>
</tr>
<tr>
<td>CW 75</td>
<td>1000</td>
<td>—</td>
</tr>
<tr>
<td></td>
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<td>3.00</td>
</tr>
<tr>
<td>CW 100</td>
<td>1000</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>312.5</td>
<td>3.00</td>
</tr>
</tbody>
</table>

#### Double-layer cladding acc. to abP-SAC-02/III-797

<table>
<thead>
<tr>
<th>Knauf profile</th>
<th>Maximum spacing</th>
<th>Maximum permissible wall heights</th>
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</thead>
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</tr>
<tr>
<td>CW 50</td>
<td>1000</td>
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</tr>
<tr>
<td></td>
<td>625</td>
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<td></td>
<td>312.5</td>
<td>4.05</td>
</tr>
<tr>
<td>CW 75</td>
<td>1000</td>
<td>—</td>
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<td></td>
<td>625</td>
<td>4.55</td>
</tr>
<tr>
<td></td>
<td>312.5</td>
<td>5.00</td>
</tr>
<tr>
<td>CW 100</td>
<td>1000</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>625</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**Construction of edge fixing with backing at:**
- Wall height > 3.00 m with 2x 15 mm Knauf boards
- System variants acc. to abP-SAC-02/III-797

Connection to wall with backing of the CW perimeter runner web with board strips, see pages 26, 27 and 36.

**Extension of the fire resistance Certificate of Usability**
- When the enhanced wall heights are used
- With Silentboard/Fireboard acc. to abP-SAC-02/III-797
- With stud spacing of ≤ 625 mm
- Prior consultation in acc. to page 5 is recommended.

**Ball impact safety**
Ball impact safety is provided with spacing of studs ≤ 625 mm.

**Note**
Maximum permissible spacings with edge fixing see page 36.
### Technical and building physical data

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheme drawings</td>
<td></td>
<td></td>
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#### Fire resistance class

<table>
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<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound reduction index $R_{w,K}$ in dB</th>
</tr>
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<td>D mm</td>
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<td>75</td>
<td></td>
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</tr>
<tr>
<td>Silentboard</td>
<td>130</td>
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</tbody>
</table>

#### K251.de Knauf Fireboard Installation Shaft Wall height ≤ 3.00 m

- Single metal stud frame with CW double stud frame – single layer cladding

<table>
<thead>
<tr>
<th>Stud spacing</th>
<th>Wall height</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound reduction index $R_{w,K}$ in dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>≤ 3.00 m</td>
<td>30</td>
<td>31 D mm</td>
<td>80 50</td>
<td>D mm</td>
<td>38 39</td>
</tr>
<tr>
<td></td>
<td></td>
<td>105 75</td>
<td></td>
<td></td>
<td>Mineral wool</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>130 100</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### K251.de Knauf Fireboard Installation Shaft Wall height > 3.00 m to 5.00 m

- Single metal stud frame with CW double stud frame – single layer cladding

<table>
<thead>
<tr>
<th>Stud spacing</th>
<th>Wall height</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer</th>
<th>Sound reduction index $R_{w,K}$ in dB</th>
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</thead>
<tbody>
<tr>
<td>a</td>
<td>&gt; 3.00 m</td>
<td>30 + 12.5 stud covering</td>
<td>32</td>
<td>92.5 50</td>
<td>D mm</td>
<td>38 39</td>
</tr>
<tr>
<td></td>
<td></td>
<td>117.5 75</td>
<td></td>
<td></td>
<td>Mineral wool</td>
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<td></td>
<td>142.5 100</td>
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</tbody>
</table>

- Apply backing to front joints using profiles or Fireboard strips

### Note

- Observe the notes on page 4

---

**Extension of the fire resistance Certificate of Usability**

- With wall heights exceeding 3.00 m
- Prior consultation in acc. to page 5 is recommended.
### Wall heights

#### Single-layer cladding

<table>
<thead>
<tr>
<th>Knauf double stud profile</th>
<th>Maximum spacings a mm</th>
<th>Maximum permissible wall heights m</th>
</tr>
</thead>
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<td>CW 50: 625</td>
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<td>CW 75: 625</td>
<td>CW 75: 625</td>
</tr>
<tr>
<td></td>
<td>CW 100: 625</td>
<td>CW 100: 625</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Knauf double stud profile</th>
<th>Maximum spacings a mm</th>
<th>Maximum permissible wall heights m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal gauge 0.6 mm</td>
<td>CW 50: 625</td>
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<tr>
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<td>CW 75: 625</td>
<td>CW 75: 625</td>
</tr>
<tr>
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<td>CW 100: 625</td>
<td>CW 100: 625</td>
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### Increased wall heights

#### Single-layer cladding

<table>
<thead>
<tr>
<th>Knauf double stud profile</th>
<th>Maximum spacings a mm</th>
<th>Maximum permissible wall heights m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal gauge 0.6 mm</td>
<td>CW 50: 625</td>
<td>CW 50: 4.00</td>
</tr>
<tr>
<td></td>
<td>CW 75: 625</td>
<td>CW 75: 4.50</td>
</tr>
<tr>
<td></td>
<td>CW 100: 625</td>
<td>CW 100: 5.00</td>
</tr>
</tbody>
</table>

Note: Maximum permissible spacings with edge fixing see page 36.

- **Increased wall heights**
  - Type with stud covering
    - Covering strips (not required if partition height ≤ 3.00 m)
    - Additional insulation strips
    - ≥ 50 mm

---

**Extension of the fire resistance Certificate of Usability**
- When the enhanced wall heights are used
- Prior consultation in acc. to page 5 is recommended.

**Note**
- Prior consultation in acc. to page 5 is recommended.
## Technical and building physical data

<table>
<thead>
<tr>
<th>Knauf System</th>
<th>Cladding</th>
<th>Weight</th>
<th>Wall thickness</th>
<th>Profiles</th>
<th>Insulation layer required for fire resistance</th>
<th>Sound insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheme drawings</td>
<td>Knauf Piano fire-resistant board</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Knauf fire-resistant board</td>
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<td>Silentboard</td>
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<td>t mm</td>
<td>D mm</td>
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<tr>
<td>W635.de Knauf Installation Shaft Wall</td>
<td>Single metal stud frame with UW double runners – double layer cladding + intermediate board layer</td>
<td></td>
<td></td>
<td></td>
<td>47</td>
<td>80</td>
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</table>

### Stud spacing

- **F90**: 2x 15 + 12.5 intermediate board

### Note

*Observe the notes on page 4*
Wall heights

**Double-layer cladding** + intermediate board layer

<table>
<thead>
<tr>
<th>Knauf Profile</th>
<th>Maximum spacings a mm</th>
<th>Maximum permissible wall heights plus m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>UW 50</td>
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<td>Metal gauge</td>
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<td></td>
<td></td>
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</tbody>
</table>

**Extension of the fire resistance Certificate of Usability**

- With wall heights exceeding 3.00 m
- Prior consultation in acc. to page 5 is recommended.

**Note**

Maximum permissible spacings with edge fixing see page 36.
Construction details
W628A.de Knauf Installation Shaft Wall free spanning

Details
W628A.de-P1 Horizontal board layers
2x 25 mm Massivbauplatte Solid Board

W628A.de-VO1 Connection to ceiling
Vertical section
- Trenn-Fix
- Uniflott
- Drywall screw TN
- 2x 25 mm Massivbauplatte Solid Board

W628A.de-VM1 Board joint
Vertical section
- Knauf Deckennagel ceiling steel dowel
- Angle profile 50/35
- Uniflott
- 2x 25 mm Massivbauplatte Solid Board

W628A.de-VU1 Connection to floor
Vertical section
- Angle profile 50/35
- 2x 25 mm Massivbauplatte Solid Board
- Seal floor connection joint with a frictional bond using Uniflott
Details

W628A.de-A1 Connection to solid wall

Horizontal section

- Acoustical sealant if necessary
- Knauf Deckennagel ceiling steel dowel
- Angle profile 50/35
- 2x 25 mm Massivbauplatte Solid Board
- Drywall screw TN
- Uniflott + Trenn-Fix

W628A.de-D1 Corner

Horizontal section

- UW runner
- CW stud
- Blechschraube LN 3.5x11 metal screw; a ≤ 500 mm
- Flex profile 100 mm
- CW stud
- Fill board joint
- Corner trim if required

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended.
Construction details

W630.de Knauf Installation Shaft Wall stud crossbars with CW profiles

Details

W630.de-P1 Horizontal board layers
2x 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board / Diamant

W630.de-P4 Board layer 1 horizontal, board layer 2 vertical
2x 20 mm Massivbauplatte Solid Board

W630.de-VO1 Connection to ceiling
Vertical section
- Trenn-Fix
- Uniflott
- Acoustical sealant
- CW stud
- Knauf Deckennagel ceiling steel dowel
- UW profile
- 2x 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board

W630.de-VM4 Board joint CW double profile
Vertical section
- UW runner
- 2x 20 mm Massivbauplatte Solid Board
- CW stud (rivet, crimp or screw to UW runner)
- Uniflott + Fugendeckstreifen Kurt joint tape
- Blechschraube LN 3.5x11 metal screw; a ≤ 750 mm

W630.de-VU4 Connection to floor
Vertical section
- 2x 20 mm Massivbauplatte Solid Board
- UW runner
- CW stud
- Knauf Deckennagel ceiling steel dowel
- Drywall screw TN
- Uniflott
Details

W630.de-A1 Connection to solid wall

Horizontal section

- Acoustical sealant
- Knauf Deckennagel ceiling steel dowel
- 2x 12.5 mm Diamant
- Diamant screw
- TRIAS + Trenn-Fix

W630.de-B4 Board joint

Horizontal section

- CW stud
- Uniflott
- Drywall screw TN

W630.de-VM1 Board joint CW single profile

Vertical section

- UW runner
- CW stud
- Uniflott
- Drywall screw TN
- 2x 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board
- Crossbar spacing
Details

W628B.de-P2 Vertical board layers
- e.g. 2x 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board / Di- mant acc. to abP P-SAC-02/III-797

W628B.de-P6 Horizontal board layers
- e.g. 2x 20 mm Massivbauplatte Solid Board acc. to abP P-SAC-02/III-797

W628B.de-P4 Vertical board layers
- e.g. 2x 20 mm Fireboard acc. to abP P-3393/172/08-MPA BS

W628B.de-VO2 Connection to ceiling
- Vertical section

W628B.de-VM6 Board joint
- Vertical section

W628B.de-VU4 Connection to floor
- Vertical section

Scale 1:5
Details

**W628B.de-A2** Connection to solid wall

**Horizontal section**

- Acoustical sealant
- Knauf Deckennagel ceiling steel dowel
- CW stud

With wall height ≤ 3.00 m acc. to abP P-393/172/08-MPA BS no backing of the CW perimeter connection profile on the web side required

**W628B.de-A21** Connection to solid wall

**Horizontal section**

- Acoustical sealant
- ≥ 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board
- CW stud

With wall height > 3.00 m acc. to abP P-SAC-02/III-797 backing of the CW perimeter connection profile on the web side is required

**W628B.de-A3** Connection to solid wall

**Horizontal section**

- Acoustical sealant
- Knauf Deckennagel ceiling steel dowel
- CW stud

With wall height ≤ 3.00 m acc. to abP P-393/172/08-MPA BS no backing of the CW perimeter connection profile on the web side required

**W628B.de-A6** Connection to solid wall

**Horizontal section**

- Acoustical sealant
- ≥ 20 mm Massivbauplatte Solid Board
- CW stud

Acc. to abP P-SAC-02/III-797 backing of the CW perimeter connection profile on the web side is required

**W628B.de-B4** Board joint

**Horizontal section**

- CW stud
- Acoustical sealant
- Knauf Deckennagel ceiling steel dowel
- Uniflott + Trenn-Fix

≥ 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board

Non-combustible fastener

Uniflott + Trenn-Fix

2x 25 mm Massivbauplatte Solid Board

- UW runner
- CW stud

2x 20 mm Fireboard

Fireboard-Spachtel filler + fibre glass joint tape

**W628B.de-D3** Corner

**Horizontal section**

- UW runner
- CW stud

2x 25 mm Massivbauplatte Solid Board

Blechschaube LN 3.5x11 metal screw; a ≤ 500 mm

CW stud

Schnellbauschraube TN 3.5x35 drywall screw; a ≤ 250 mm (for corner only)

Corner trim if required

**W628B.de-A2** Connection to solid wall

**Extension of the fire resistance Certificate of Usability**

Prior consultation in acc. to page 5 recommended.
Details

W62.de-P2 Vertical board layers
- e.g. 2x 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board / Diamant acc. to abP P-SAC-02/III-797

W62.de-P5 Horizontal board layers
- e.g. 2x 20 mm Massivbauplatte Solid Board acc. to abP P-3393/172/08-MPA BS

W62.de-P6 Horizontal board layers
- e.g. 2x 25 mm Massivbauplatte Solid Board acc. to abP P-3393/172/08-MPA BS

W62.de-VO2 Connection to ceiling
- Vertical section
- Trenn-Fix
- Uniflott
- Acoustical sealant
- UW runner
- Knauf Deckennagel
- ceiling steel dowel
- CW stud
- 2x 12.5 mm Feuerschutzplatte Knauf Piano
- fire-resistant board

W62.de-VM5 Board joint
- Vertical section
- CW stud
- Schnellbauschraube TN
- drywall screw
- 2x 20 mm Massivbauplatte
- Solid Board
- Uniflott
- Schnellbauschraube TN
- drywall screw
- Mineral wool

W62.de-VU6 Connection to floor
- Vertical section
- 2x 25 mm Massivbauplatte
- Solid Board
- CW stud
- UW runner
- Knauf Deckennagel
- ceiling steel dowel
- Acoustical sealant
- Drywall screw TN
- Uniflott
Details

**W629.de-A2 Connection to solid wall**

Horizontal section

- Knauf Deckennagel ceiling steel dowel
- Acoustical sealant
- CW stud

2x 12.5 mm Diamant
TRIAS + Trenn-Fix

With wall height $\leq 3.00$ m acc. to abP P-3393/172/08-MPA BS no backing of the CW perimeter connection profile on the web side required

**W629.de-A21 Connection to solid wall**

Horizontal section

- Acoustical sealant
- ≥ 12.5 mm Diamant
- CW stud

2x 12.5 mm Diamant
TRIAS + Trenn-Fix

With wall height $> 3.00$ m acc. to abP P-SAC-02/III-797 backing of the CW perimeter connection profile on the web side is required

**W629.de-A51 Connection to solid wall**

Horizontal section

- Acoustical sealant
- ≥ 20 mm Massivbauplatte Solid Board
- CW stud

2x 20 mm Massivbauplatte Solid Board
Non-combustible fastener
TRIAS + Trenn-Fix

Acc. to abP P-SAC-02/III-797 backing of the CW perimeter connection profile on the web side is required

**W629.de-SO5 Connection to solid wall**

Horizontal section

- Knauf Hartmut; a $\leq 500$ mm
- Acoustical sealant
- UW profile
- Mineral wool S

2x 20 mm Massivbauplatte Solid Board
CW stud
Schnellbauschraube TN drywall screw

**Extension of the fire resistance Certificate of Usability**

Prior consultation in acc. to page 5 recommended.

**W629.de-D6 Corner**

Horizontal section

- UW runner
- CW stud

- Metal screw LN 3.5x11;
  a $\leq 500$ mm

- Schnellbauschraube TN 3.5x35 drywall screw;
  a $\leq 250$ mm (for corner only)

- Schnellbauschraube TN 4.5x70 drywall screw
- CW stud
- Corner trim if necessary

2 x 25 mm Massivbauplatte Solid Board

**Extension of the fire resistance Certificate of Usability**

Prior consultation in acc. to Page 5 recommended.
Construction details
K251.de Fireboard Installation Shaft Wall with stud profile (double profile)

Details
K251.de-P6 Vertical board layers
30 mm Fireboard

K251.de-P5 Vertical board layers + stud covering
30 mm Fireboard + 12.5 mm Fireboard covering strip

K251.de-VO6 Connection to ceiling
Vertical section
- Trenn-Fix
- Fireboard-Spachtel filler
- Acoustical sealant
- UW profile
- Knauf Deckennagel ceiling steel dowel
- 30 mm Fireboard

With wall height ≤ 3.00 m

K251.de-VM6 Board joint
Vertical section
- Joint backing
- CW stud
- Drywall screw TN
- Fireboard-Spachtel filler + fibre glass joint tape
- 30 mm Fireboard
- CW stud
- Mineral wool

With wall height ≤ 3.00 m

K251.de-VU6 Connection to floor
Vertical section
- 30 mm Fireboard
- Mineral wool
- Knauf Deckennagel ceiling steel dowel
- UW profile
- Acoustical sealant
- Drywall screw TN
- Fireboard-Spachtel filler

With wall height ≤ 3.00 m
K251.de Fireboard Installation Shaft Wall with stud profile (double profile)

Details
K251.de-A6 Connection to solid wall
Horizontal section

![Diagram of K251.de-A6 Connection to solid wall]

With wall height ≤ 3.00 m
Extension of the fire resistance Certificate of Usability
Prior consultation in acc. to page 5 recommended.

K251.de-B6 Board joint
Horizontal section

![Diagram of K251.de-B6 Board joint]

With wall height ≤ 3.00 m

K251.de-D6 Corner
Horizontal section

![Diagram of K251.de-D6 Corner]

With wall height ≤ 3.00 m

K251.de-D5 Corner
Horizontal section

![Diagram of K251.de-D5 Corner]

With wall height ≤ 3.00 m

K251.de-VU5 Connection to floor
Vertical section

![Diagram of K251.de-VU5 Connection to floor]

With wall height ≤ 3.00 m
Extension of the fire resistance Certificate of Usability
Prior consultation in acc. to page 5 recommended.

K251.de-B5 Board joint
Horizontal section

![Diagram of K251.de-B5 Board joint]

With wall height ≤ 3.00 m
Extension of the fire resistance Certificate of Usability
Prior consultation in acc. to page 5 recommended.
Details

W635.de-P1 Vertical board layers
2x 15 mm Diamant + intermediate Knauf Piano fire-resistant board

W635.de-VO1 Connection to ceiling
Vertical section
- Trenn-Fix
- TRIAS
- Acoustical sealant
- UW runner
- Knauf Deckennagel ceiling steel dowel
- 2x 15 mm Diamant
- 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board
- Mineral wool

W635.de-VM1 Board joint
Vertical section
- Diamant screw
- UW runner
- Diamant screw
- 2x 15 mm Diamant
- 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board
- Mineral wool

W635.de-VU1 Connection to floor
Vertical section
- 12.5 mm Feuerschutzplatte Knauf Piano fire-resistant board
- 2x 15 mm Diamant
- Acoustical sealant
- UW runner
- Knauf Deckennagel ceiling steel dowel
- Diamant screw
- Acoustical sealant
- TRIAS
Details

W635.de-A1 Connection to solid wall
Horizontal section

Knauf Deckennagel ceiling steel dowel
UW runner
Acoustical sealant
12.5 mm Feuerschutzplatte
Knauf Piano fire-resistant board
Mineral wool
2x 15 mm Diamant
TRIAS + Trenn-Fix

W635.de-B1 Board joint
Horizontal section

Metal screw LN 3.5x11; a ≤ 750 mm
UW runner
Mineral wool
TRIAS
2x 15 mm Diamant
Detail
W629.de-SO2 Installation shaft
Horizontal section

- Knauf Deckennagel: ceiling steel dowel
- 2x 12.5 mm Diamant
- Diamantschraube screw: a ≤ 250 mm
- CW stud
- Blechschaube LN 3.5x11 metal screw: a ≤ 500 mm
- Diamant screw
- Knauf Hartmut: a ≤ 500 mm

**Extension of the fire resistance Certificate of Usability**
Prior consultation in acc. to page 5 recommended.
**Details**

**W628B.de-SO1 Power sockets with runner frame**
Horizontal section

- e.g. W628B.de

**W628B.de-SO2 Power sockets with runner frame**
Vertical section

- Knauf boards
- Profile frame

**W629.de-SO6 Power sockets with board backing**
Horizontal section

- e.g. W629.de

**W629.de-SO7 Connection to steel beam encasement**
Vertical section

- Technical fire resistance classified beam encasement
- min. one fire resistance class higher than the Installation Shaft Wall (e.g. F120 with Installation Shaft Wall F90) e.g. design acc. to Knauf System Data Sheet K25.de

---

**Note**

The power sockets must be encased in at least cladding thickness "t" by Knauf GKF/Fireboard boards.
Lead-through for individual electrical cables

Basics

In accordance with paragraph 40 of the MBO (German model building code), “pipes passing through space-enclosing components for which a fire resistance duration is specified, may only be passed through if the spread of fire need not be feared for a sufficiently long time”.

Application options without any particular fire protection measure in acc. to Model Conduit Systems Directive (German designation MLAR), section 4.3.2 for individual cables a - b - c (see below) should be taken from the solution examples on this page.

When leading through bundled electrical cables, approved bulkhead systems are required for non-flammable conduits > 160 mm or flammable conduits > 32 mm.

Drywalling approved bulkheads can only be conditionally used in installation shaft walls. The prerequisite is that the installation shaft wall is compliant with the stipulations of the abP/abZ (National Technical Test Certificate/Approval) in the area where the cable lead-throughs are located. This shaft wall section should feature the stability of one of the partition walls. An application option for this feature can be found on “Lead-through for several electrical cables” on page 35.

For applying the cable lead-through’s as shown on pages 34 and 35, the specifications and notes in Knauf “Brandschutz mit Knauf” (BS1) section “Lead-through for individual electrical cables” or “Lead-through for several electrical cables” in the section “Knauf cable and pipe penetrations” must be observed (German only).

Minimum thickness D

- Fire resistant walls (fh) \( D \geq 60 \text{ mm} \)
- Highly fire resistant walls (fhf) \( D \geq 70 \text{ mm} \)
- Fire-proof walls (fb) \( D \geq 80 \text{ mm} \)

Cable type acc. to Model Conduit Systems Directive (German designation MLAR)

- a Individual electrical cables
- b Conduits of non-flammable (nbr) building materials ≤ 160 mm
- c Conduits of flammable (br) building materials ≤ 32 mm

Note

For technically correct implementation, the minimum cable spacings e must be observed. Detailed specifications for applying the indicated solution examples as well as further solutions can be found at Knauf “Brandschutz mit Knauf” (BS1) section “Lead-through for individual electrical cables” or “Lead-through for several electrical cables” in the section “Knauf cable and pipe penetrations” (German only).
In order to apply approved bulkhead systems in Knauf Installation Shaft Walls, a partial upgrade to a light partition with double sided cladding, and a component thickness of ≥ 100 mm, is necessary.

The width of at least one section and a height \( H = \text{bulkhead height} + 2 \times 100 \text{ mm} \) (\( H \geq 500 \text{ mm} \)) is required on the installation shaft wall.

The thickness of the Knauf board GKF to be applied to the shaft side must be ≥ 20 mm. The constructional component thickness in the upgrade area must be ≥ 100 mm.

**Required brace in upgraded installation shaft walls**
- Installation when assembling the installation shaft wall
  - After upgrading the installation shaft wall to accept the installation of the respective bulkhead system, the brace and reveal cladding must be applied as shown in the drawing opposite.
- Reveal aperture
  - Cladding with Knauf boards minimum in the cladding thickness of the installation shaft wall unless the abZ/abP on the individual bulkheads specifies otherwise
  - Screw centres ≤ 150 mm
  - Apply board width in the reveal area acc. to AbZ / abP but at least to min. partition thickness
  - Fill the joints with a gypsum filler
  - Install the bulkhead systems acc. to abZ / abP of the bulkhead manufacturer

**Fire protection F30 to F90**
Required fire protection cladding / mineral wool acc. to the respective systems.

**Cable type acc. to Model Conduit Systems Directive (German designation MLAR)**
- a Bundled cables
- b Conduits of non-flammable (nbr) building materials > 160 mm
- c Conduits of flammable (br) building materials > 32 mm

**Horizontal section**
- Stud spacing ≤ 625 mm
- approx. 100 mm
- approx. 100 mm
- Shaft side
- Room side
- Upgrade
- Reveal boards
- Trimmer

**Vertical section**
- Shaft side
- Room side
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm
- approx. 100 mm

**Note**
Detailed specifications for applying the indicated solution examples as well as further solutions can be found at Knauf “Brandschutz mit Knauf” (BS1) section “Lead-through for individual electrical cables” or “Lead-through for several electrical cables” in the section “Knauf cable and pipe penetrations” (German only).
Stud frame

General
Apply Trennwandkitt acoustical sealant (two strings) or sealing tape to rear side of runners for the connection of flanking constructional components. In case of sound insulation requirements, seal carefully with Trennwandkitt acoustical sealant according to DIN 4109, supplement 1, chapter 5.2; porous sealant strips such as sealing tape are usually not suitable in this case.

Fix perimeter runners to the floor and ceiling. Anchor wall perimeter runners with suitable dowels to flanking walls.

Use suitable fasteners:
- Knauf Deckennagel ceiling steel dowel (reinforced concrete)
- Fasteners for the building materials that are specially suitable and non-combustible

Use suitable fasteners:
- CW profile as crossbar
- CW double profile as crossbar

Wall height | Max. fastening spacing | Ceiling and floor connection profiles
---|---|---
| Wall perimeter runner | mm | mm

<table>
<thead>
<tr>
<th>Wall</th>
<th>Max. fastening spacing</th>
<th>Ceiling and floor connection profiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 15.00</td>
<td>500</td>
<td>–</td>
</tr>
<tr>
<td>≤ 3.00</td>
<td>625</td>
<td>625(2)</td>
</tr>
<tr>
<td>&gt; 3.00 to 7.00</td>
<td>500</td>
<td>625(2)</td>
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<tr>
<td>up to 5.00</td>
<td>500(1)</td>
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<td>up to 5.60</td>
<td>500(1)</td>
<td>500</td>
</tr>
<tr>
<td>up to 5.00</td>
<td>1000(2)</td>
<td>1000</td>
</tr>
<tr>
<td>up to 5.00</td>
<td>1000(2)</td>
<td>1000</td>
</tr>
</tbody>
</table>

1) Connection to wall with backing of the CW perimeter runner web with board strips (half cladding thickness) with system variants acc. to abP-P-SAC-02/II-797 or with 2x 15 mm Knauf boards with wall heights > 3.00 m. Contact surfaces of the board strips with flanking component provided with acoustical sealant (2 beads).

2) Structural connection, at least 3 anchoring point per side

Note
The permissible wall heights vary depending on the system variant. Please observe the table in section “Technical and physical building data” on pages 8 to 19.
**K251.de Knauf Fireboard Installation Shaft Wall – Stud construction with CW double profiles**

Screw two CW profiles to one another on the web side at centres ≤ 500 mm using Metal Screws LN 3.5x11. With wall heights > 3.00 m on the shaft side, screw fix alternating 12.5 mm Fireboard covering strips of width ≥ 100 mm and on the wall perimeter runner of width ≥ 50 mm at a spacing of ≤ 250 mm. Apply and align stud frame profiles in the perimeter connection profiles at appropriate spacings.

**W635.de Knauf Installation Shaft Wall – Stud construction with UW double profiles**

Screw two UW runners to one another on the web side at centres ≤ 750 mm using Metal Screws LN 3.5x11. Apply and align stud frame profiles in the perimeter connection profiles at appropriate spacings. Apply Acoustical Sealant to the inner surface of the shaft sided flange of the double UW runner and apply and push on a 12.5 mm layer of Knauf Piano fire-resistant board.

**Vertical profile extensions**

**Dimensions in mm**

**Alternative 1**
2 CW profiles connected to form a box.

**Alternative 2**
2 CW profiles butt jointed, connected with additional UW runner.

**Profile extensions**

<table>
<thead>
<tr>
<th>Knauf profiles</th>
<th>Overlap o</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW 50</td>
<td>≥ 500 mm</td>
</tr>
<tr>
<td>CW 75</td>
<td>≥ 750 mm</td>
</tr>
<tr>
<td>CW 100</td>
<td>≥ 1000 mm</td>
</tr>
</tbody>
</table>

- Stagger the heights of the profile joints (alternating upper and lower wall half)
- Crimp, screw fix or, if possible, crimp the profiles in the overlapping area
**Installation schemes**

**W630.de Horizontal board layers**
- Feuerschutzplatte Knauf Piano fire-resistant board / Diamant (board width 1250 mm)
  - Crossbar spacing 312.5 mm

**Scheme drawings I Dimensions in mm**

**W630.de Board layer 1 horizontal, board layer 2 vertical**
- 2x 20 mm Massivbauplatte Solid Board (board width 625 mm)
- Crossbar spacing 312.5 mm

**W628B.de/W629.de Horizontal board layers**
- Silentboard / Massivbauplatte Solid Board (board width 625 mm)
- Stud spacing 625 mm

**W628B.de/W629.de/K251.de/W635.de Vertical board layers**
- Feuerschutzplatte Knauf Piano fire-resistant board / Diamant / Knauf Feuerschutzplatte fire-resistant board / Fireboard (board width 1250 mm)
- Stud spacing 625 mm

**Scheme drawings II Dimensions in mm**

**Lower/upper layer:**
- Offset front edge joint by at least 500 mm.
- Arrange the long edge joints on the crossbar.
- Stagger long edge joints by 625 mm.
- Stagger the front edge joints between board layers.

**W628B.de/W629.de Horizontal board layers**

**Lower/upper layer:**
- Recommendation: Board length 2500 mm
- Front edge joints must be staggered by at least one stud spacing.
- Stagger the long joints between the cladding layers by at least half a board width.

**W628B.de/W629.de/K251.de/W635.de Vertical board layers**
- Stagger long edge joints by 625 mm (one stud spacing)
- If non floor-to-ceiling high boards are used, stagger the front edge joints ≥ 500 mm (for K251.de ≥ 1000 mm) in a cladding layer
- For K251.de apply backing to front joints using profiles or Fireboard strips.
- Stagger the front edge joints between board layers in case of multi-level cladding.
### Fastening of the cladding

**Fastening of the cladding to the stud frame with Knauf drywall screws**

<table>
<thead>
<tr>
<th>Board type</th>
<th>Min. thickness mm</th>
<th>Metal stud frame (penetration ≥ 10 mm)</th>
<th>Diamant screws</th>
<th>Max. fastener spacings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Metal gauge s ≤ 0.7 mm</td>
<td></td>
<td>1st layer mm</td>
</tr>
<tr>
<td>W628A.de Knauf Installation Shaft Wall</td>
<td>2x 25</td>
<td>TN 3.5x35 + TN 4.5x70</td>
<td>–</td>
<td>300</td>
</tr>
<tr>
<td>W630.de Knauf Installation Shaft Wall</td>
<td>2x 12.5</td>
<td>TN 3.5x25 + TN 3.5x35</td>
<td>–</td>
<td>750</td>
</tr>
<tr>
<td>Diamant</td>
<td>2x 12.5</td>
<td>–</td>
<td>XTN 3.9x23 + XTN 3.9x38</td>
<td>750</td>
</tr>
<tr>
<td>Massivbauplatte Solid Board</td>
<td>2x 20</td>
<td>TN 3.5x35 + TN 3.5x55</td>
<td>–</td>
<td>600</td>
</tr>
<tr>
<td>W628B.de Knauf Installation Shaft Wall</td>
<td>2x 12.5</td>
<td>TN 3.5x25 + TN 3.5x35</td>
<td>–</td>
<td>750</td>
</tr>
<tr>
<td>Diamant</td>
<td>2x 12.5</td>
<td>–</td>
<td>XTN 3.9x23 + XTN 3.9x38</td>
<td>750</td>
</tr>
<tr>
<td>Silentboard</td>
<td>2x 12.5</td>
<td>–</td>
<td>XTN 3.9x23 + XTN 3.9x38</td>
<td>600</td>
</tr>
<tr>
<td>Knauf fire-resistant board</td>
<td>2x 15</td>
<td>TN 3.5x25 + TN 3.5x45</td>
<td>–</td>
<td>750</td>
</tr>
<tr>
<td>Diamant</td>
<td>2x 15</td>
<td>–</td>
<td>XTN 3.9x33 + XTN 3.9x55</td>
<td>750</td>
</tr>
<tr>
<td>Fireboard</td>
<td>2x 20</td>
<td>TN 3.5x35 + TN 3.5x55</td>
<td>–</td>
<td>750</td>
</tr>
<tr>
<td>Massivbauplatte Solid Board</td>
<td>2x 25</td>
<td>TN 3.5x35 + TN 4.5x70</td>
<td>–</td>
<td>300</td>
</tr>
</tbody>
</table>

### Knauf Installation Shaft Wall

**Installation and application**

**Cladding**

1. **Fastening of the cladding**
   - **Metal stud frame**: penetration ≥ 10 mm, Metal gauge s ≤ 0.7 mm.
   - **Drywall screws**: TN, Diamant screws: XTN.

**Max. fastener spacings**

- **1st layer mm**
- **2nd layer mm**

---

**W629.de Knauf Installation Shaft Wall**

- **Cladding acc. to abP P-3393/172/08-MPA BS**

**Board type** | Min. thickness mm | Metal stud frame (penetration ≥ 10 mm) | Diamant screws | Max. fastener spacings |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire-resistant board Knauf Piano</td>
<td>2x 12.5</td>
<td>TN 3.5x25 + TN 3.5x35</td>
<td>–</td>
<td>750</td>
</tr>
<tr>
<td>Diamant</td>
<td>2x 12.5</td>
<td>–</td>
<td>XTN 3.9x23 + XTN 3.9x38</td>
<td>750</td>
</tr>
<tr>
<td>Silentboard</td>
<td>2x 12.5</td>
<td>–</td>
<td>XTN 3.9x23 + XTN 3.9x38</td>
<td>600</td>
</tr>
<tr>
<td>Massivbauplatte Solid Board</td>
<td>2x 20</td>
<td>TN 3.5x35 + TN 3.5x55</td>
<td>–</td>
<td>250</td>
</tr>
<tr>
<td>Fireboard</td>
<td>2x 20</td>
<td>TN 3.5x35 + TN 3.5x55</td>
<td>–</td>
<td>250</td>
</tr>
<tr>
<td>Massivbauplatte Solid Board</td>
<td>2x 25</td>
<td>TN 3.5x35 + TN 4.5x70</td>
<td>–</td>
<td>250</td>
</tr>
</tbody>
</table>

**K251.de Knauf Fireboard Installation Shaft Wall**

- **Fireboard covering strips**
  - 12.5 | TN 3.5x25 | – | 250 | – |
- **Fireboard**
  - 30 | TN 3.5x45 | – | 250 | – |

**W635.de Knauf Installation Shaft Wall**

- **Diamant**
  - 2x 15 | – | XTN 3.9x33 + XTN 3.9x55 | 750 | 250 |
Jointing

Jointing of the boards in the required quality level Q1 to Q4 in accordance with Code of Practice no. 2 “Verspachtelung von Gipsplatten, Oberflächengüten”\(^1\).

With Fireboard, a skim coating of the entire surface with Knauf Fireboard-Spachtel filler is additionally required before application of direct coatings or linings.

Suitable jointing materials
- TRIAS: Hand filling without joint tape in the long joint edges; easy to sand, with high strength and suitable for areas of high humidity, reduced absorption for surfaces with uniform appearance, the ideal filler particularly for systems with Diamant boards
- Uniflott: Hand filling without joint tape strips in the long joint edges
- Uniflott imprägniert impregnated: Hand filling of impregnated boards without joint tape in the long edge joints, water-repellent, matching green colour
- Fugenfüller Leicht: Hand filling with joint tape, preferably with Knauf Fugendeckstreifen Kurt joint tape
- Fireboard-Spachtel filler: Hand filling of Fireboard with fibre glass joint tape.

Suitable finish filling compounds
- Q2, application by hand: Fill & Finish, SuperFinish
- Q3/Q4, application by hand: Readygips, SuperFinish
- Q3/Q4, machine application: Readygips, ProSpray Light
- Fireboard Spachtel filler for full surface skimming of Fireboard

Filling of the gypsum boards
- For multi-layer cladding, fill the lower layers with filler; fill the joints of the visible layer. Filling the joints of covered cladding layers with multi-layer cladding is necessary to provide technical fire protection and sound insulation properties as well as the structural properties!

<table>
<thead>
<tr>
<th>Quality levels</th>
<th>Joint implementation</th>
<th>Joint implementation</th>
<th>Description working steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>Long edges half-rounded tapered edge/half-rounded edge</td>
<td>Front edge bevelled cut edge</td>
<td>Fill the joints with Uniflott, Uniflott imprägniert or TRIAS, Fill the visible parts of the fastener</td>
</tr>
<tr>
<td>Q2</td>
<td>Preliminary jointing in acc. with quality level Q1</td>
<td>Finish (finish compound) until a smooth transition to the board surface with Uniflott, Uniflott imprägniert, TRIAS, Readygips, Fill &amp; Finish or SuperFinish, No application marks or ridges may remain visible. Sand off the areas concerned if necessary.</td>
<td></td>
</tr>
<tr>
<td>Q3</td>
<td>Jointing in acc. with quality level Q2</td>
<td>Wide jointing of the joints as well as clean and accurate removal of the remaining board liner filling the pores, e.g. with Readygips, Knauf SuperFinish, Fill &amp; Finish or ProSpray Light. If necessary, i.e. physical ridges and grooves are not acceptable and must be sanded if necessary.</td>
<td></td>
</tr>
<tr>
<td>Q4</td>
<td>Jointing in acc. with quality level Q2</td>
<td>Complete surface covering of skim coat with a layer thickness of at least 1 mm, e.g. with Readygips</td>
<td></td>
</tr>
</tbody>
</table>

Recommendation: Front edge and cut edge joints as well as mixed joints (e.g. HRAK + cut edge) of the visible cladding layers filled using Uniflott or TRIAS, will require the application of Knauf Joint Tape Kurt as well. Fill in visible screw heads. Lightly sand visible surfaces after drying of the filler material, if required.

Joint filling of the connection joints
- Apply connections to the flanking drywall construction (ceiling/walls), dependent on the conditions and the demands on crack resistance with Trenn-Fix or Knauf Fugendeckstreifen Kurt joint tape.
- Observe code of practice no. 3 “Gipsplattenkonstruktionen - Fugen und Anschlüsse” (German only) \(^1\).
- Apply Trenn-Fix when filling joints to adjacent solid construction components.
- Fully seal (with a frictional bond) the connection to the floor with joint filler.

Application temperature/climate
- Filling and covering of joints should only take place when no more longitudinal changes can be expected, i.e. expansion or contraction due to humidity or temperature changes. Do not apply filling at room or substrate temperatures below approx. +10 °C.
- In case of mastic asphalt screed, cementitious screed and self-levelling screed, fill in board joints after screed has been applied.
- Observe code of practice no. 1 “Baustellenbedingungen” \(^1\).

1) Issued by the Industriegruppe Gipsplatten im Bundesverband der Gipsindustrie e.V.
Coatings and linings
For direct application of a coarse texture wallpaper, the surface must at least have quality level Q2.
For direct application of a textured paint coat, the surface must at least have quality level Q3.
With Fireboard, the surface must be completely filled in both cases, e.g. with Knauf Fireboard-Spachtel filler.

Pretreatment
Before further coatings or linings (wallpaper) are applied, the filled surface must be free of dust and the surface of the gypsum boards should always be primed, acc. to code of practice no. 6 “Vorbehandlung von Trockenbauflächen aus Gipsplatten zur weitergehenden Oberflächenbeschichtung bzw. –bekleidung” issued by the Industriegruppe Gipsplatten im Bundesverband der Gipsindustrie e.V.
Ensure that the primer is compatible with the coating / paint / lining.
In order to compensate for the differences in absorption of surfaces, coatings of primer such as Knauf Tiefengrund primer or Spezialgrund floor dispersion are suitable.
Where a wallpaper lining is used, a primer that facilitates easier removal of wallpaper for redecoration is recommended.
A sealing primer of Knauf Flächendicht is required for covering splash water areas with tiles.

Suitable coatings and linings
The following coatings/linings can be applied to Knauf boards:
■ Wallpapers
  ▪ Paper, fleece, textile and synthetic wallpapers:
    Use only adhesives made of methyl cellulose according to Code of Practice no. 16 “Technische Richtlinien für Tapezier- und Spannarbeit- en innen” (German only) released by the Bundesausschuss Farbe und Sachwertschutz.
■ Ceramic tiles
  ▪ System W628A.de only up to 1.00 m installation shaft width
■ Plaster and filler materials
  ▪ Top coats (e.g. Noblo, Raumklima Spritzputz spray plaster, Rotkalk Filz)
  ▪ Full surface plaster (e.g. Readygips, ProSpray Light).
  Application of plaster layers only in conjunction with Knauf Fugendeckstreifen Kurt joint tape.
■ Coatings
  ▪ Dispersion paint (e.g. Intol E.L.F., Malerweiss E.L.F.),
  ▪ Multicoloured (rainbow) emulsion
  ▪ Silicate-based emulsion paints with suitable primer.
After wallpapering or after application of plasters, quick drying must be ensured through adequate airing.

Unsuitable coatings and linings
■ Alkaline coats such as lime, water glass paints and silicate-based paints.

Notes
Gypsum board surfaces that have constantly been exposed to light without any protection can cause yellowing after coating. The yellowing agents are soluble in water and can penetrate through to the next coating layers and impair the adhesion properties of filler materials. In this case, the application of special primers such as Knauf Sperrgrund barrier coating for finish coats and filler materials and Knauf Atonol for paint coats are recommended.
Other coatings or layers and vapour barriers up to about 0.5 mm thickness as well as claddings (with the exception of sheet steel), do not have any influence on the technical fire resistance classification of Knauf installation shaft walls.
### Material requirement per m² of installation shaft wall without allowance for loss and waste.

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Quantity as average value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>W628A.de</td>
</tr>
<tr>
<td>Stud frame</td>
<td></td>
<td>F90</td>
</tr>
<tr>
<td>Knauf angle profile 50/35/0.7</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>Knauf UW runner, e.g. UW 50</td>
<td>m</td>
<td>–</td>
</tr>
<tr>
<td>Knauf CW stud; e.g. CW 50</td>
<td>m</td>
<td>–</td>
</tr>
<tr>
<td>Knauf CW stud/UW runner as a joint backing</td>
<td>m</td>
<td>–</td>
</tr>
<tr>
<td>Knauf Metal Screw LN 3.5x11 (Connection to double stud)</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>Metal blind rivet; Alternative: Metal screw LN 3.5x11 or crimps (Connect CW stud to UW runner)</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>Knauf Trennwandkitt acoustical sealant</td>
<td>pcs</td>
<td>0.2</td>
</tr>
<tr>
<td>Alternative Knauf Dichtungsband sealing tape; e.g. 50/3.2 mm</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>Knauf Trennwandkitt acoustical sealant for intermediate board</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>With fasteners suitable for the substrate that are compliant with the fire protection requirements</td>
<td>pcs</td>
<td>2.2</td>
</tr>
<tr>
<td>Knauf Deckennagel dowel with reinforced concrete</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>Alternative Drehstiftdübel nailable plug &quot;K&quot; 6/35</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>Alternative Drehstiftdübel &quot;K&quot; 6/50 (plastered connection surfaces)</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>Insulation layer, e.g. Knauf Insulation</td>
<td>m²</td>
<td>as req.</td>
</tr>
<tr>
<td>Knauf boards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feuerschutzplatte Knauf Piano fire-resistant board; 12.5 mm</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Diamant 12.5 mm</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Diamant 15 mm</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Massivbauplatte Solid Board 20 mm</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Massivbauplatte Solid Board 25 mm</td>
<td>m²</td>
<td>2</td>
</tr>
<tr>
<td>Fireboard 12.5 mm (board strips)</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Fireboard 20 mm</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Fireboard 30 mm</td>
<td>m²</td>
<td>–</td>
</tr>
<tr>
<td>Fastening (fastening of the boards, Knauf fasteners see page 39)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 layer</td>
<td>pcs</td>
<td>5.5</td>
</tr>
<tr>
<td>2 layer</td>
<td>pcs</td>
<td>7</td>
</tr>
<tr>
<td>Board strips</td>
<td>pcs</td>
<td>–</td>
</tr>
<tr>
<td>Jointing (e.g. quality level Q2) – see also page 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knauf filling compound, e.g. Uniflott or TRIAS</td>
<td>kg</td>
<td>0.8</td>
</tr>
<tr>
<td>Fireboard-Spachtel filler</td>
<td>kg</td>
<td>–</td>
</tr>
<tr>
<td>Fugendeckstreifen Kurt joint tape (for front edges)</td>
<td>m</td>
<td>–</td>
</tr>
<tr>
<td>Knauf fibre glass joint tape (long/front edges)</td>
<td>m</td>
<td>–</td>
</tr>
<tr>
<td>Trenn-Fix, 65 mm wide, self-adhesive</td>
<td>m</td>
<td>as req.</td>
</tr>
<tr>
<td>Knauf edge/corner trims; e.g. Kantenschutzprofil edge trim 23/13</td>
<td>m</td>
<td>as req.</td>
</tr>
</tbody>
</table>

The quantity relates to a partition area of:
- W628A.de: 
  - H = 2.75 m; L = 2.00 m; A = 5.50 m²
- W630.de / W628B.de / W629.de / K251.de / W635.de: 
  - H = 2.75 m; L = 4.00 m; A = 11.00 m²

Legend:
- as req. = as required
- Material not provided by Knauf = printed in italics

42 W62.de Knauf Installation Shaft Walls
Technical advice

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Knauf Direkt is a team of technically competent employees with a wide skill base. Architects, building physicists, master timber construction craftsmen and many other areas assist you with professional advisory services in the areas of timber construction, drywalling, plastering/stucco work and architecture.

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- For questions on plaster and façade systems
  Tel.: 09001 31-2000¹ (Germany only)

Availability:
Mo – Th 7:00 – 18:00 and
Fr 7:00 – 17:00

¹ A call to Knauf Direkt is charged at € 0.39/min in Germany. Callers whose phone numbers are not registered within the Knauf address data base, e.g. private builders or non-customers, will be charged a rate of € 1.69 per minute within Germany. Calls from mobiles will be charged depending on the tariffs of the network operator.

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Access to certificates of usability for fire protection

In the abPs (German National Technical Test Certificate), a fire test performed according to the applicable standards is documented and the scope (possible applications) for the tested system that can be used in practice is described. Here at www.knauf.de/profi/tools-services/kontakt/ you can access the available test certificate for your building site.

CAD design details

All of the design details in this System Data Sheet as well as further details can be found at www.knauf.de/profi/tools-services/dokumenten-center/cad-details-downloaden/ Available for download in the formats DWG, DXF, PDF and GIF.
Information on the sustainability

Knauf Installation Shaft Walls

Information on the sustainability

Building assessment systems ensure the sustainable quality of buildings and constructional structures by a detailed assessment of ecological, economic, social, functional and technical aspects. The certification systems of the DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen, German association for environmentally sustainable building), BNB (Bewertungssystem Nachhaltiges Bauen, Quality rating system for environmentally sustainable building) and LEED (Leadership in Energy and Environmental Design) are of particular relevance in Germany.

Knauf products and installation shaft wall systems can positively influence many of these criteria.

DGNB/BNB

Ecological quality
- Criterion: Risks for the local environment
  The relevant environmental data are contained in the EPD for gypsum products

Economic quality
- Criterion: Building related life-cycle costs
  Cost-effective Knauf Drywalling

Sociocultural and functional quality
- Criterion: Space efficiency
  Slim, floor-space enhancing Knauf installation shaft wall systems
- Criterion: Suitability for conversion
  Flexible Knauf Drywalling

Technical quality
- Criterion: Fire protection
  Comprehensive fire protection know-how
- Criterion: Sound insulation
  Exceeding the demands of the standard with Knauf sound protection
- Criterion: Ease of dismantling and recycling
  Knauf Drywalling is fully compliant

LEED

Materials and resources
- Credit: Recycled Content
  Recycled content in Knauf boards, e.g. FGD gypsum
- Credit: Regional Materials
  Short transport routes provided by the extensive network of Knauf manufacturing facilities

Detailed information on request