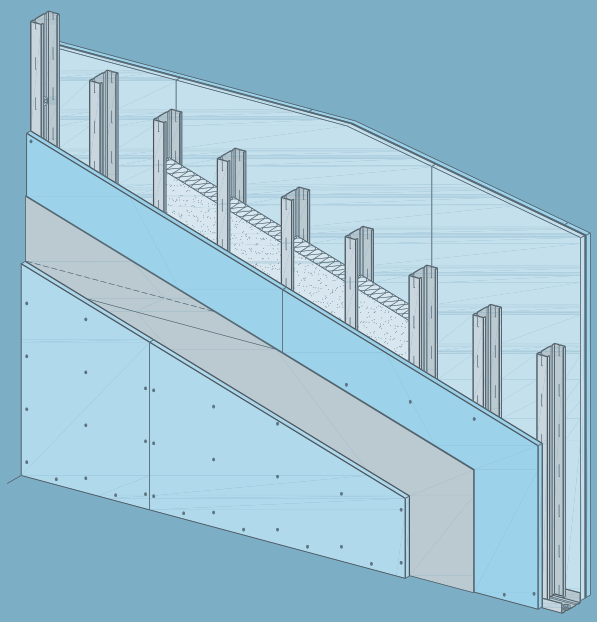


W13

Drywall and Floor Systems | 2009-01

W13 Knauf Fire Walls

W131 – Knauf Fire Wall - Single metal stud frame
double- or triple-layer cladding with sheet steel layer

New

- Knauf Fire Wall with 2x 15 mm Diamant

W13 Knauf Fire Walls

Knauf Boards / Bracket Loads

Knauf Boards

Excerpt of the Knauf product range

Board type	Short designation DIN	Short designation EN	Thickness t mm	Dimensions Width mm	Dimensions Length mm	Edge type long edges
Building material class A2						
Knauf GKF Fire-resistant Boards	**GKF**	DF	**12.5**	1250	2000 - 3000	HRAK
	GKF	DF	**15**	1250	2000 / 2500	HRAK
Knauf GKF Solid Boards	**GKF**	DF	**20**	625	2000 - 2600	HRAK
Diamant Hard gypsum board	**GKFI**	DFH2IR	**12.5**	1250	2000 / 2500	HRAK
			15	1250	2000 / 2500	HRAK
Building material class A1 (for A1 structures)						
Fireboard A1	-	GM-F	**12.5**	1250	2000	VK
			15			
			20			

GKFI: The gypsum core is additionally impregnated for moisture resistance

Fastening of the cladding on the substructure with Knauf Screws

Cladding Thickness in mm	Metal substructure (penetration ≥ 10 mm) Metal gauge **s ≤ 0.7 mm** Drywall Screws **TN**	Diamant Screws **HGP**	Metal gauge **0.7 mm < s ≤ 2.25 mm** Drywall Screws **TB**	Diamant Screws **HGP-TB**
2x 15	TN 3.5x35 + 3.5x45 mm	HGP 3.9x35 + 3.9x55 mm	TB 3.5x35 + 3.5x45 mm	HGP-TB 3.9x35 + 3.9x55 mm
20 + 12.5	TN 3.5x35 + 3.5x45 mm	-	TB 3.5x35 + 3.5x45 mm	-
3x 12.5	TN 3.5x25 + 3.5x35 + 3.5x55 mm	HGP 3.9x23 + 3.9x35 + 3.9x55 mm	TB 3.5x25 + 3.5x45 + 3.5x55 mm	HGP-TB 3.9x35 + 3.9x55 + 3.9x55 mm

Max. spacing of fasteners

Cladding	1st layer mm	2nd layer mm	3rd layer mm
double-layer	**750**	**250**	**-**
triple-layer	**750**	**500**	**250**

- Always use Diamant Screws HGP for for the fastening of Diamant boards

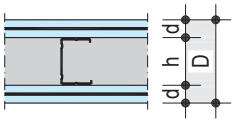
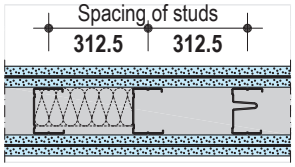
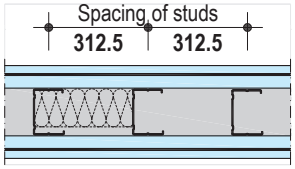
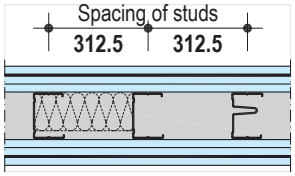
Bracket loads

Sheet steel layer of partition	Max. permissible bracket load
≥ 0.5 mm to < 0.7 mm →	**0.7 kN per m partition length** without additional measures
≥ 0.5 mm to < 0.7 mm →	**1.5 kN per m partition length** requires additional sheet steel as traverse ■ ≥ 0.7 mm gauge ■ Approx. 300 mm high ■ Fastening directly on the metal studs 3 fasteners per stud (e. g. Metal Screws LB, blind metal rivets)
≥ 0.7 mm →	**1.5 kN per m partition length** without additional measures

- For further information on bracket loads see Knauf Technical Data Sheets, e. g. W11

Technical and building physical data

W131 Knauf Fire Wall — Single metal stud frame, multi-layer cladding

Knauf System	Fire resistance class 1)	Cladding per side of partition: Knauf GKF / Solid Boards GKF / Diamant / Fireboard	Min. thickness t mm	Weight 2) ca. kg/m²	Thickness of partition T mm	Stud width Cavity h mm	Sound reduction $R_{w,R}$ 3): Insulation 4) Thickness mm	Knauf CW Stud dB	Knauf MW Stud dB	Knauf Premium Drywalling
 Dimensions in mm										
 Spacing of studs 312.5 312.5	F90	●	2x 15 + 0.5 mm sheet steel layer	63	111	50	40	52 **)		A1
					136	75	60	54 **)	-	
					161	100	80	55	-	
		●	2x 15 *) + 0.5 mm sheet steel layer	80	111	50	40	62		
					136	75	60	63	64	
					161	100	80	64	65	
 Spacing of studs 312.5 312.5	F90	● ●	20 + 12.5 + 0.5 mm sheet steel layer	70	116	50	40	55		
					141	75	60	55	-	
					166	100	80	55	-	
 Spacing of studs 312.5 312.5	F90	●	3x 12.5 + 0.5 mm sheet steel layer	76	126	50	40	≥ 55		
					151	75	60	≥ 56	≥ 57	
					176	100	80	≥ 58	≥ 59	
		●	3x 12.5 + 0.5 mm sheet steel layer	91	126	50	40	≥ 62		
					151	75	60	≥ 64	69	
					176	100	80	≥ 66	69	

A1 Alternatively: Fireboard with the same thickness

*) Alternatively: Knauf GKF with the same thickness

**) Extrapolated values

1) Insulation layer required for fire protection:
None *or* **mineral wool** G mineral wool insulation layer acc. to DIN EN 13162, building material class A, (e. g. Knauf Insulation Thermolan TI 140 T or Thermolan TP 115 or Heralan TW)

2) Weight without possibly required insulation layer

3) $R_{w,R}$ = calculation value of the rated sound reduction index of the separating construction component acc. to DIN 4109, without longitudinal transmission via adjacent components

4) Insulation acc. to DIN EN 13162, length-related flow resistance acc. to DIN EN 29053: r ≥ 5 kPa • s/m² (e. g. Knauf Insulation Thermolan TI 140 T or Thermolan TP 115 or Heralan TW)

Slim construction

Non-combustible, A1

Highest sound insulation

Robust premium surface

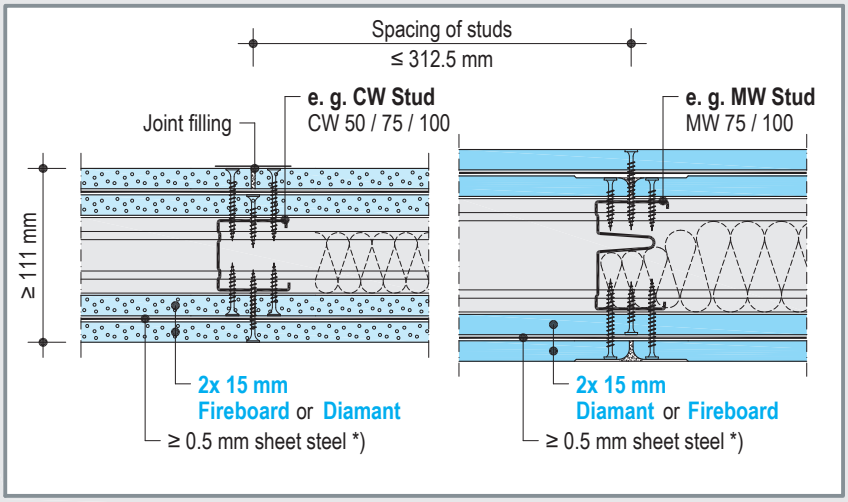
Proofs **Fire resistance:** ABP P-3391/170/08 **Sound insulation:** Knauf Sound Insulation Proof L 015-01.09

W131 Knauf Fire Walls

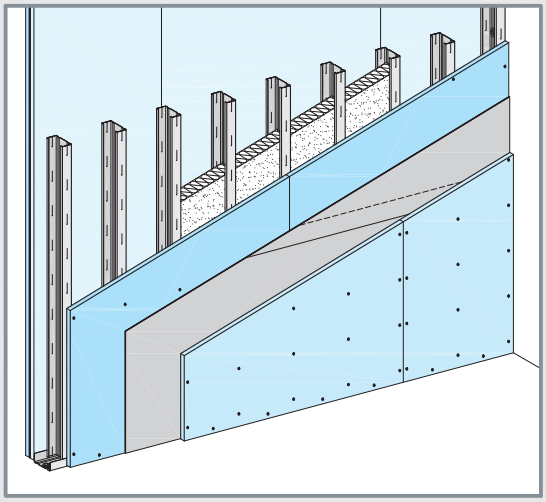
Details / Partition Heights

Cladding 2x 15 mm + sheet steel layer ≥ 0.5 mm

Horizontal sections, examples

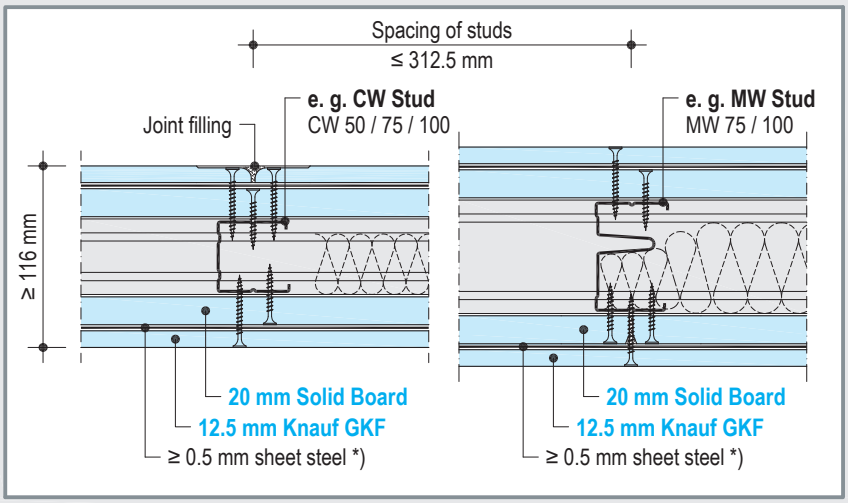


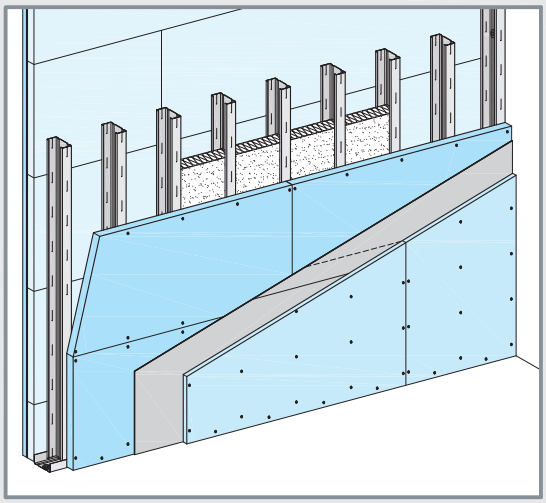
Perpendicular application of boards



Cladding 20 + 12.5 mm + sheet steel layer ≥ 0.5 mm

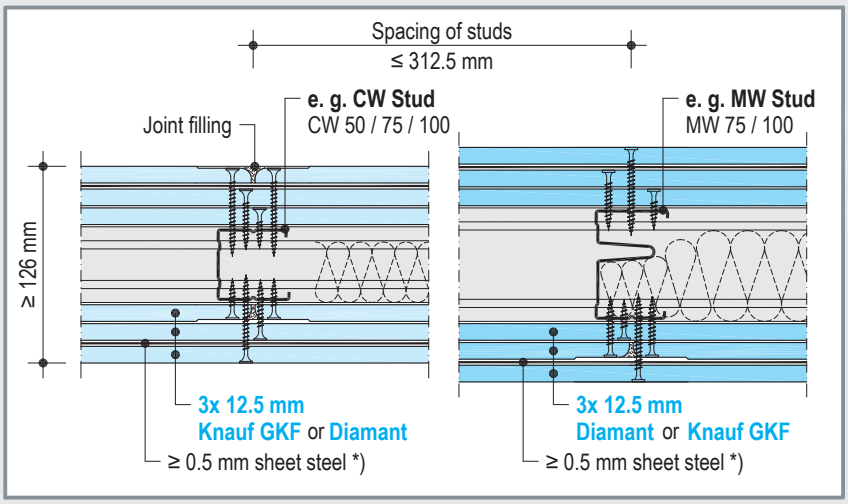
1st layer horizontal / 2nd layer perpendicular

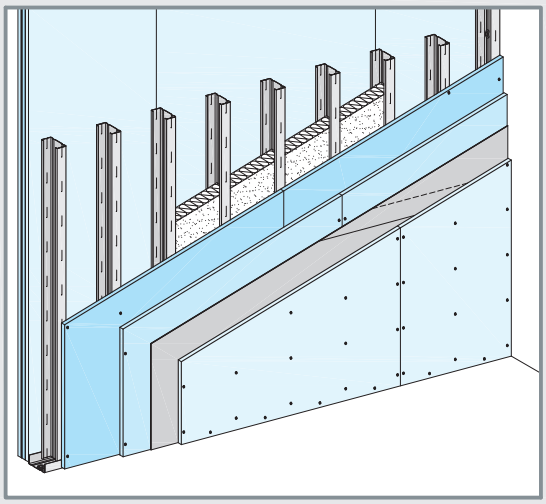




Cladding 3x 12.5 mm + sheet steel layer ≥ 0.5 mm

Perpendicular application of boards





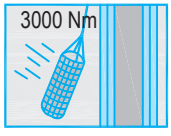
*) Galvanized sheet steel of ≥ 0.5 mm gauge, overlapping at joints of ≥ 100 mm (placed on studs), horizontal application, fastening with drywall screws (only for fixing during installation, to be removed during the application of the cladding)

Partition heights

Knauf Stud Metal gauge 0.6 mm	Spacing of studs mm	Max. permissible height of partition m
CW 50	312.5	**5**
CW 75 / MW 75	312.5	**5**
CW 100 / MW 100	312.5	**7**

Fire walls are fire-resistant partitions preserving their stabilty and room-enclosing function under fire exposure while being particularly resistant against impacts from falling construction components.

(Proof by application of impact energy of 3000 Nm, applied after fire exposure)



 For vertical extensions of studs see Technical Data Sheets e.g. W11 Knauf Metal Stud Partitions

W131 Knauf Fire Walls

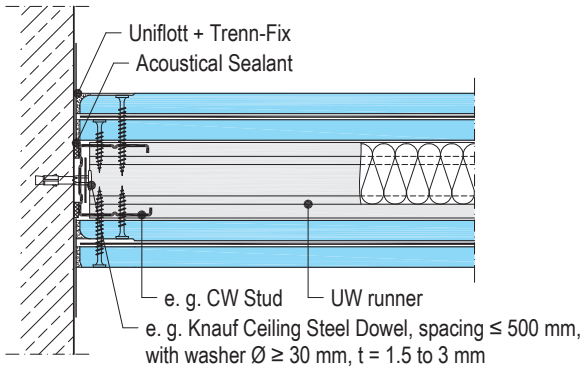
Details

Details, scale 1:5

Horizontal sections, examples

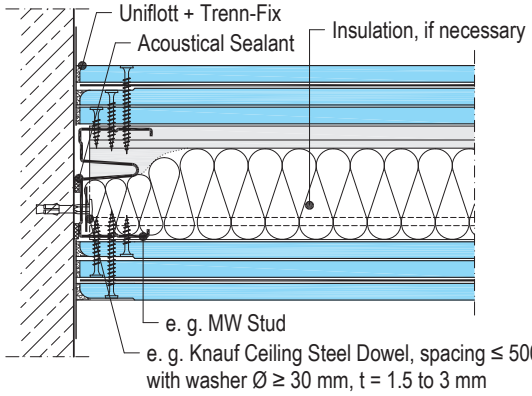
W131-A10 Connection to solid wall, CW Studs

■ 2x 15 mm Diamant



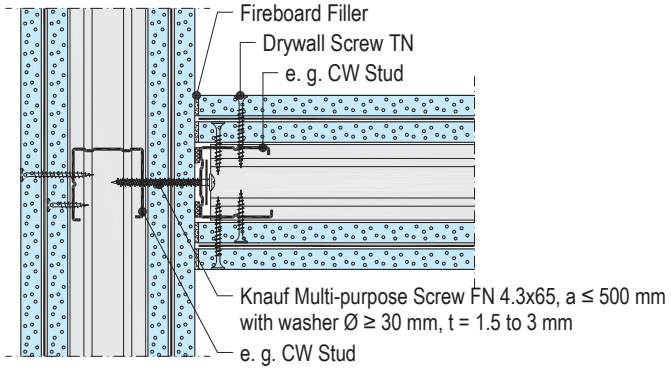
W131-A5 Connection to solid wall, MW Studs

■ 3x 12.5 mm Diamant



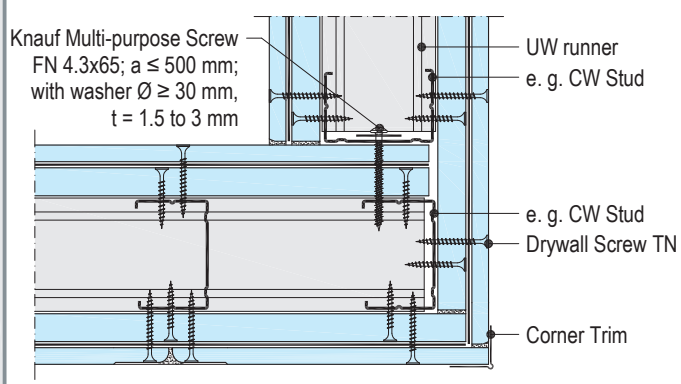
W131-C10 T junction

■ 2x 15 mm Fireboard



W131-D3 Corner

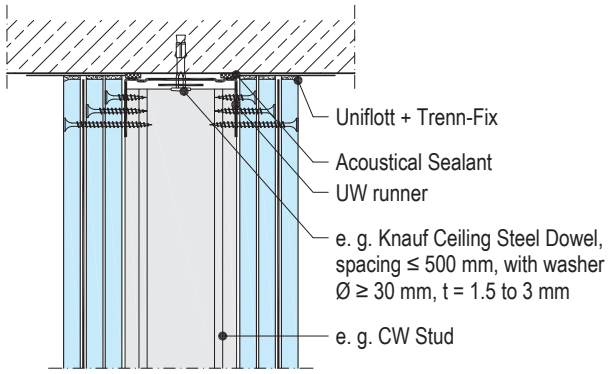
■ 20 mm Solid Boards + 12.5 mm Knauf GKF



Vertical sections, examples

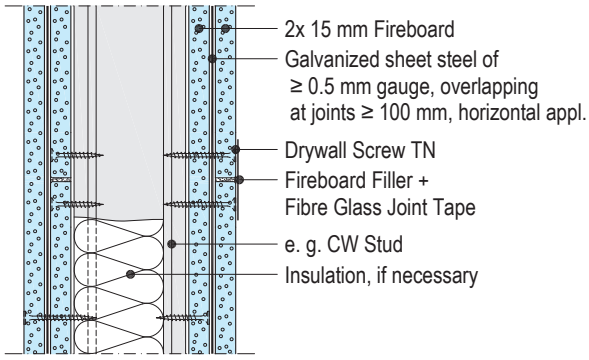
W131-VO1 Connection to basic ceiling

■ 3x 12.5 mm Knauf GKF



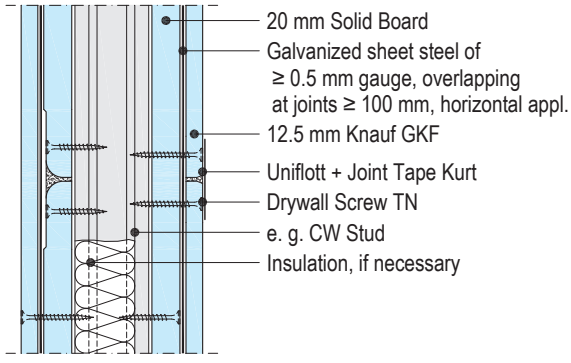
W131-VM10 Joint of boards

■ 2x 15 mm Fireboard



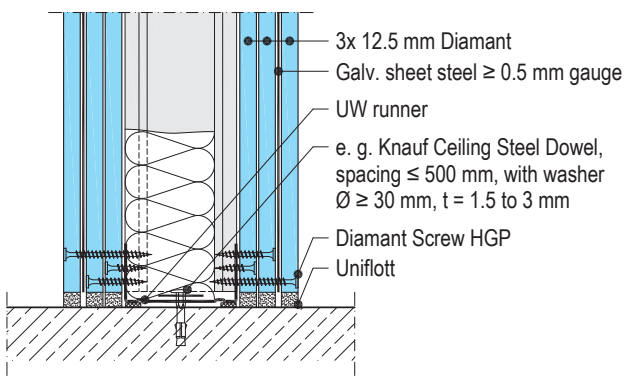
W131-VM3 Joint of boards

■ 20 mm Solid Boards + 12.5 mm Knauf GKF



W131-VU1 Connection to basic floor

■ 3x 12.5 mm Diamant

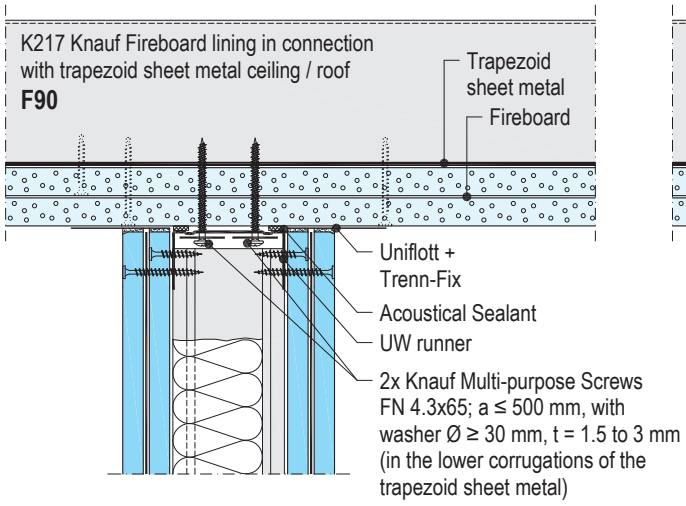


Details, scale M 1:5

Vertical sections, examples

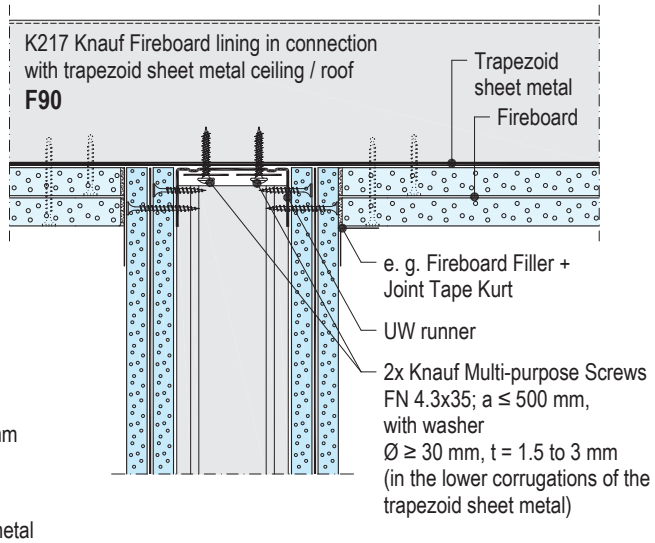
W131-VO11 Connection to trapezoid sheet metal ceiling / roof

■ 2x 15 mm Diamant continuous ceiling lining



W131-VO12 Connection to trapezoid sheet metal ceiling / roof

■ 2x 15 mm Fireboard interrupted ceiling lining



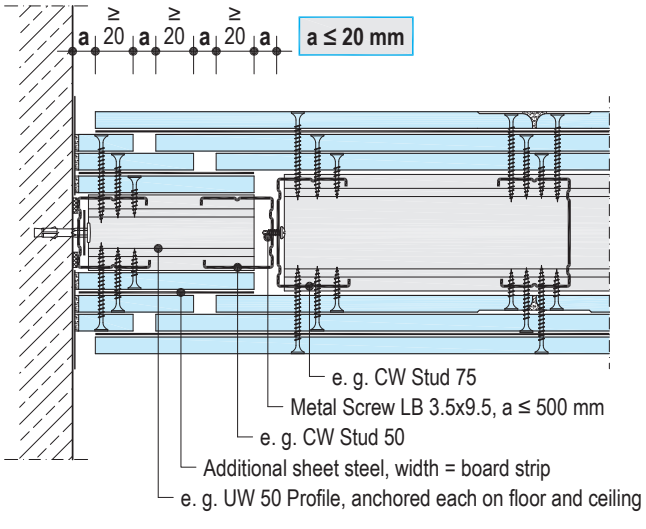
■ Drawing shows fire wall laterally to the corrugations of the trapezoid sheet metal
■ Construction of system K217 acc. to Knauf Technical Data Sheet K21.

Details, scale M 1:5

Horizontal section, examples, dimensions in mm

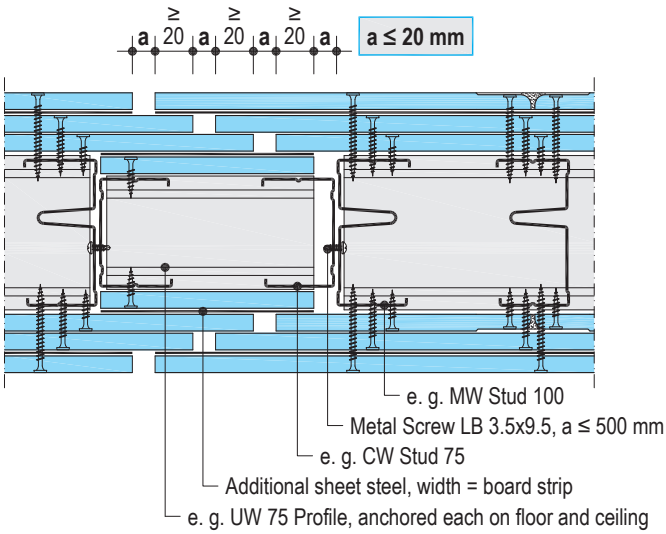
W131-A6 Sliding connection to solid wall

■ 3x 12.5 mm Knauf GKF



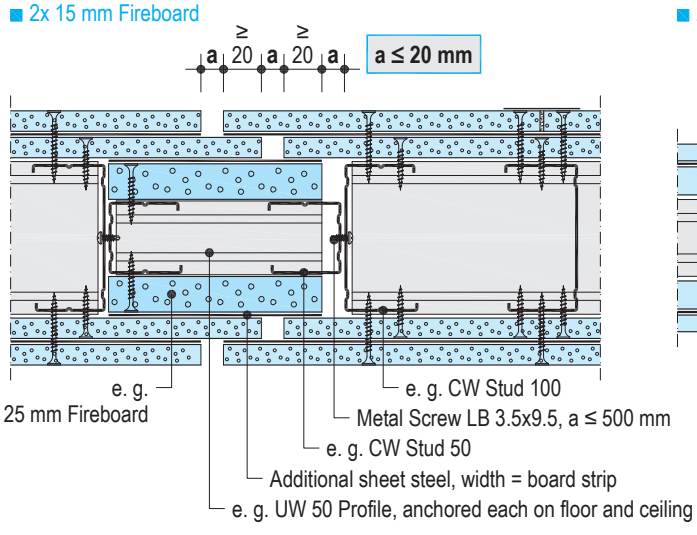
W131-BFU2 Movement joint

■ 3x 12.5 mm Diamant



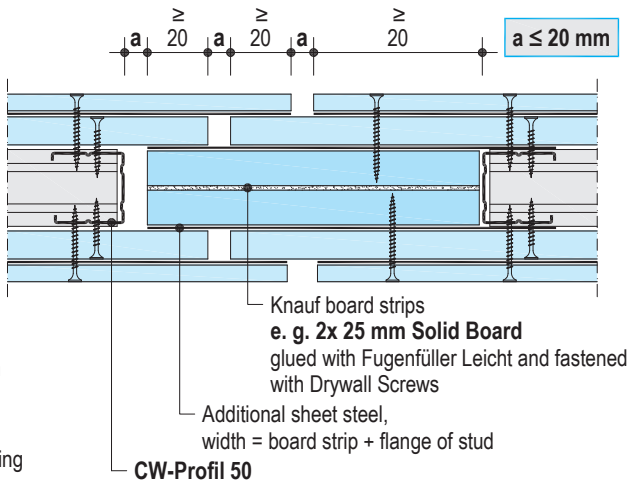
W131-BFU10 Movement joint

■ 2x 15 mm Fireboard



W131-BFU3 Movement joint, option only for CW 50

■ 20 mm Solid Board + 12.5 mm Knauf GKF



W131 Knauf Fire Walls

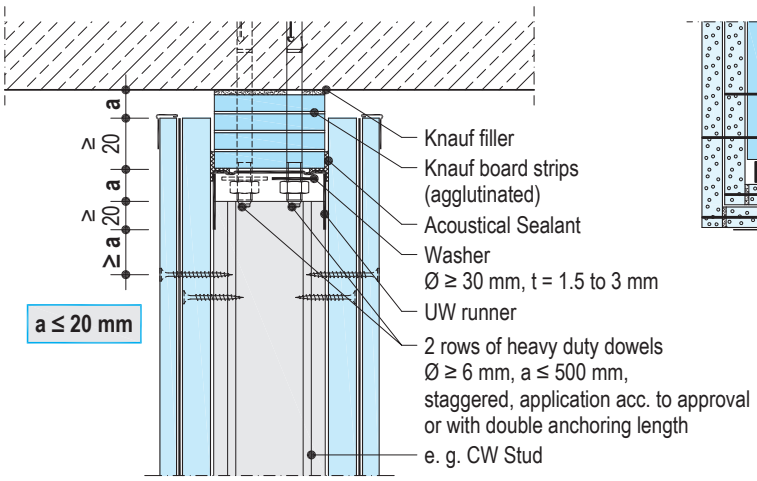
Details / Installation of Power Sockets

Details, scale 1:5

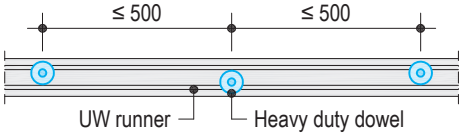
Vertical sections, examples, dimensions in mm

W131-VO4 Deflection head

■ 20 mm Solid Board + 12.5 mm Knauf GKF

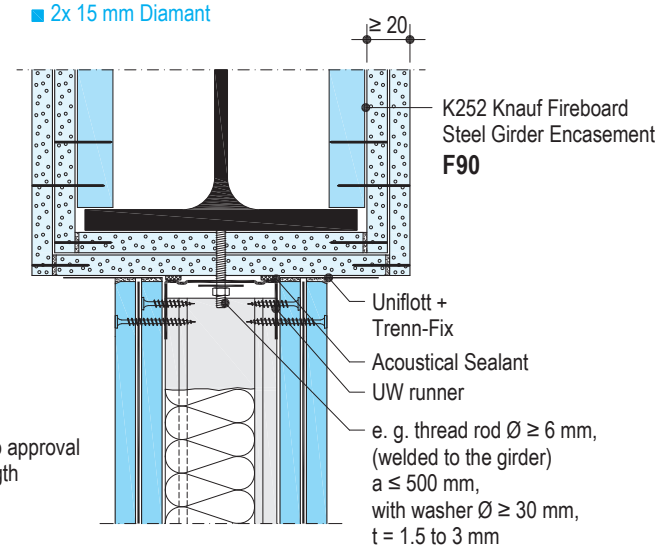


■ Solutions for bigger deflections on request
■ Do not fasten boards on UW runner
■ Positioning of the anchors:



W131-VO13 Connection to girder encasement

■ 2x 15 mm Diamant

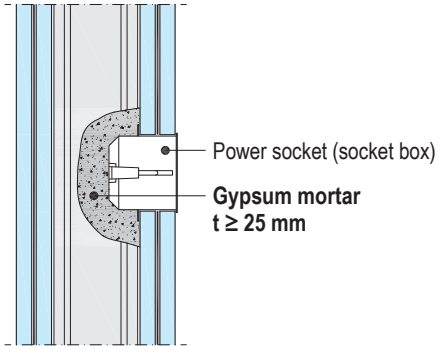


■ Drawing shows steel girder encasement without substrucure
■ Fireboard lining with ≥ 20 mm Fireboard
■ Construction of System K252 acc. to Knauf Technical Data Sheet K25

Installation of power sockets (socket boxes)

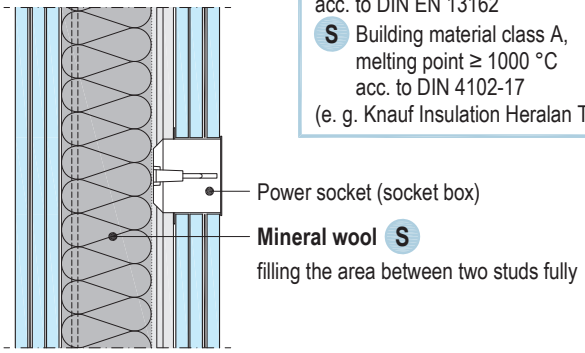
Vertical sections, scheme drawings, dimensions in mm

1 with gypsum mortar

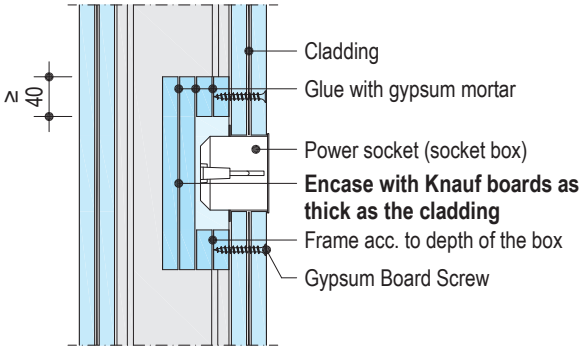


2 with mineral wool

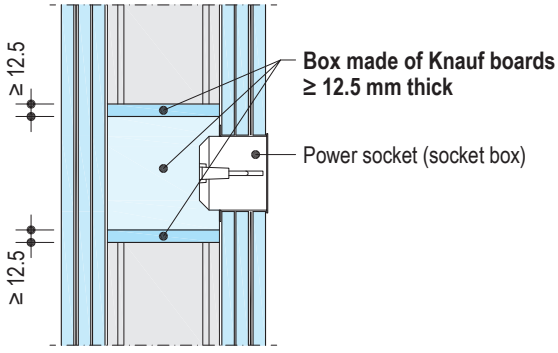
Mineral wool insulation
acc. to DIN EN 13162
S Building material class A,
melting point ≥ 1000 °C
acc. to DIN 4102-17
(e. g. Knauf Insulation Heralan TW)



3a with Knauf boards



3b with Knauf boards



■ Power sockets, switch boxes, junction boxes etc. are allowed to be installed at any position, but not opposite to each other.
■ Penetrations of single electric cables are allowed. The remaining opening has to be closed with gypsum mortar.

Installation of door frames

■ The installation of door frames is permissible, acc. to the approval of the door supplier, e. g. Schörghuber, Hörmann. Observe additional measures.

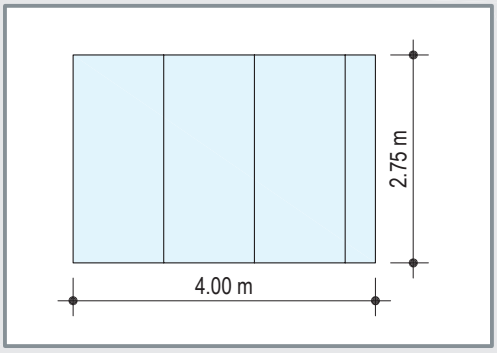
W13 Knauf Fire Walls

Consumption of Material of selected examples

Consumption of material per m² partition

without allowance for loss and waste

- Amounts refer to partition area of:
  H = 2.75 m, L = 4.00 m. A = 11.00 m²
- as req. = as required
- The figures are not based on specific building physical requirements
- *italic = not provided by Knauf*



Description	Unit	Amount as average value Cladding thickness in mm				
		2x 15 Fireboard	**2x 15** Diamant	**20 + 12.5** Knauf GKF	**3x 12.5** Knauf GKF	**3x 12.5** Diamant
Substructure						
or Knauf UW runner 50x40x0.6, 4 m long or Knauf UW runner 75x40x0.6, 4 m long or Knauf UW runner 100x40x0.6, 4 m long	m	0.7	0.7	0.7	0.7	0.7
or Knauf CW Stud 50x50x0.6 or Knauf CW Stud 75x50x0.6 or Knauf CW Stud 100x50x0.6 or Knauf MW Stud 75x50x0.6 or Knauf MW Stud 100x50x0.6	m	3.5	3.5	3.5	3.5	3.5
or Knauf Acoustical Sealant	pcs	0.3	0.3	0.3	0.3	0.3
or Knauf Sealing Tape (50/3.2 mm, 70/3.2 mm, 95/3.2 mm)	m	1.2	1.2	1.2	1.2	1.2
non-combustible fastener, suitable for substrate e. g. Knauf Ceiling Steel Dowel in case of reinforced concrete	pcs	2.9	2.9	2.9	2.9	2.9
+ washer Ø ≥ 30 mm, t = 1.5 to 3 mm	pcs	2.9	2.9	2.9	2.9	2.9
Insulation, thickness ... mm e. g. Knauf Insulation Thermolan TI 140 T or Thermolan TP 115 or Heralan TW consider fire protection and sound insulation specs, see page 3	m²	as req.	as req.	as req.	as req.	as req.
Knauf boards						
Knauf GKF 12.5 mm	m²	-	-	2	6	-
Solid Board GKF 20 mm	m²	-	-	2	-	-
Diamant 12.5 mm	m²	-	-	-	-	6
Diamant 15 mm	m²	-	4	-	-	-
Fireboard 15 mm	m²	4	-	-	-	-
Galvanized sheet steel ≥ 0.5 mm gauge, (joint overlapping ≥ 100 mm)	m²	2.4	2.4	2.4	2.4	2.4
Fastening						
Fastening of Knauf boards with Knauf fasteners acc. to page 2						
1st layer	pcs	18	18	30	18	18
2nd layer	pcs	42	42	42	22	22
3rd layer	pcs	-	-	-	42	42
Fixing of the sheet steel with Knauf fasteners acc. to page 2	pcs	6	6	6	6	6
Filling						
or Uniflott for hand filling or TRIAS for hand filling	kg	-	1.0	1.2	1.1	1.1
Joint Tape Kurt	m	-	as req.	as req.	as req.	as req.
Fireboard Filler	kg	0.10	-	-	-	-
Knauf Fibre Glass Joint Tape (long and front edges)	m	2.2	-	-	-	-
Trenn-Fix, 65 mm wide, self-adhesive	m	1.8	1.8	1.8	1.8	1.8
Knauf Edge Trim 23/13, 2.75 m long Knauf Corner Trim 31/31, 2.6 m / 3 m long Alux Edge Trim, 52 mm wide	m	as req.	as req.	as req.	as req.	as req.
Knauf Multi-purpose Screw (FN 4.3x35 mm / FN 4.3x65 mm) *+ washer Ø ≥ 30 mm, t = 1.5 to 3 mm*	pcs	as req.	as req.	as req.	as req.	as req.

Item	Description	No. of units	Unit price	Total price
.....	**Knauf Firewall A2** Fire Wall according to DIN 4102-3, non-load bearing, as drywall partition, height in m ....., thickness in mm ..... , fire resistance class acc. to DIN 4102-2: F90, rated sound reduction index acc. to DIN 4109 $R_{w,R}$ in dB ..... *. Substructure made of galvanized sheet metal profiles acc. to DIN 18182-1: Knauf CW 50/ 75/ 100 * / Knauf MW 75/ 100 *, as single metal stud frame, entire perimeter connections fixed. Insulation made of mineral wool acc. to DIN EN 13162, thickness 40/ 60/ 80 * mm, building material class A, length-related flow resistance acc. to DIN EN 29053: r ≥ 5 kPa·s/m², Product: Knauf Insulation Thermolan TI 140 T/ Thermolan TP 115/ Heralan TW * *or equivalent*. * Cladding made of gypsum boards acc. to DIN 18180: Knauf Diamant/ GKF *, application acc. to DIN 18181, double/ triple * layer, cladding thickness 2x15/ 20+12.5/ 3x12.5 * mm, and one layer of sheet steel ≥ 0.5 mm thick on each side of the partition beneath the top layer. Jointing in accordance with Code of Practice no. 2 (BVG, December 2007) quality standard Q1 basic filling to be coated with plaster/ ..... */ quality standard Q2 standard jointing *. Application and installation acc. to Knauf Technical Data Sheet W13. Product/ System: **Knauf Fire Wall W131 Diamant/ GKF ***	..... m²	..... €	..... €
	Knauf Firewall A1 Fire Wall according to DIN 4102-3, non-load bearing, as drywall partition, height in m ....., thickness in mm ..... , fire resistance class according to DIN 4102-2: F90, rated sound reduction index acc. to DIN 4109 $R_{w,R}$ in dB ..... *. Substructure made of galvanized sheet metal profiles acc. to DIN 18182-1: Knauf CW 50/ 75/ 100 * / Knauf MW 75/ 100 *, as single metal stud frame, entire perimeter connections fixed. Insulation made of mineral wool acc. to DIN EN 13162, thickness 40/ 60/ 80 * mm, building material class A, length-related flow resistance acc. to DIN EN 29053: r ≥ 5 kPa·s/m²,* Product: Knauf Insulation Thermolan TI 140 T/ Thermolan TP 115/ Heralan TW * *or equivalent*. * Cladding made of gypsum boards: Knauf Fireboard, application acc. to DIN 18181, double layer, cladding thickness 2x15 mm, and one layer of sheet steel ≥ 0.5 mm thick on each side of the partition in-between the layers. Jointing in accordance with Code of Practice no. 2 (BVG, December 2007) quality standard Q1 basic filling to be coated with plaster/ ..... */ quality standard Q2 standard jointing *. Application and installation acc. to Knauf Technical Data Sheet W13. Product/ System: **Knauf Fire Wall W131 Fireboard**	..... m²	..... €	..... €
.....	**Corner of fire wall** Corner, with corner trim *, as upgrade to Fire Wall W131, installation acc. to drawing no. W131-D3	..... m	..... €	..... €
.....	**Deflection head of fire wall** Connection to ceiling, sliding up to 20 mm, as upgrade to Fire Wall W131 with double/ triple * layer cladding, installation according to drawing no. W131-VO4	..... m	..... €	..... €
.....	**T junction of fire wall** T junction as upgrade to Fire Wall W131, installation according to drawing no. W131-C10	..... m	..... €	..... €
.....	**Movement joint of fire wall** Movement joint, width in mm ....., as upgrade to Fire Wall W131 with double/ triple * layer cladding, with metal studs CW 50/ 75/ 100 */ MW 75/ 100 *, installation according to drawing no. W131-BFU2/ W131-BFU3/ W131-BFU10 *	..... m	..... €	..... €
	* *Cancel not applicable items*		Sub-total	..... €

Requirements

The purpose of fire walls as room-enclosing partitions is partying buildings (as building party wall) or separating fire zones within buildings (as interior fire wall) by resisting fire for a defined period in order to prevent fire from spreading to other buildings or fire zones.

Fire walls have to preserve their fire-resistance while being additionally loaded by mechanical stress and they have to consist of non-combustible building materials (fire resistance class F90 and all components of building material class A).

The resistance against additional mechanical stress is proven by defined impact tests using a 200 kg lead shot bag during the fire test, applying an impact energy of 3000 Nm for each impact on an area of approx. 400 cm² on the side not exposed to the fire.

Construction

Knauf Fire Walls consist of a metal substructure as single metal stud frame and double-layer or triple-layer cladding made of Knauf boards on both sides of the partition.
A sheet steel layer is applied beneath the top layer.

Insulation material according to the requirements of building physics can be installed in the partitions cavity.
The systems provide safety against ball throwing.

Movement joints of the main structure have to be taken over into the construction of the Fire Walls. For continuous walls use control joints at approx. 15 m.

Installation of penetrations for routing of cables and pipes acc. to Knauf Brandschutzbroschüre BS1.

Application

Substructure

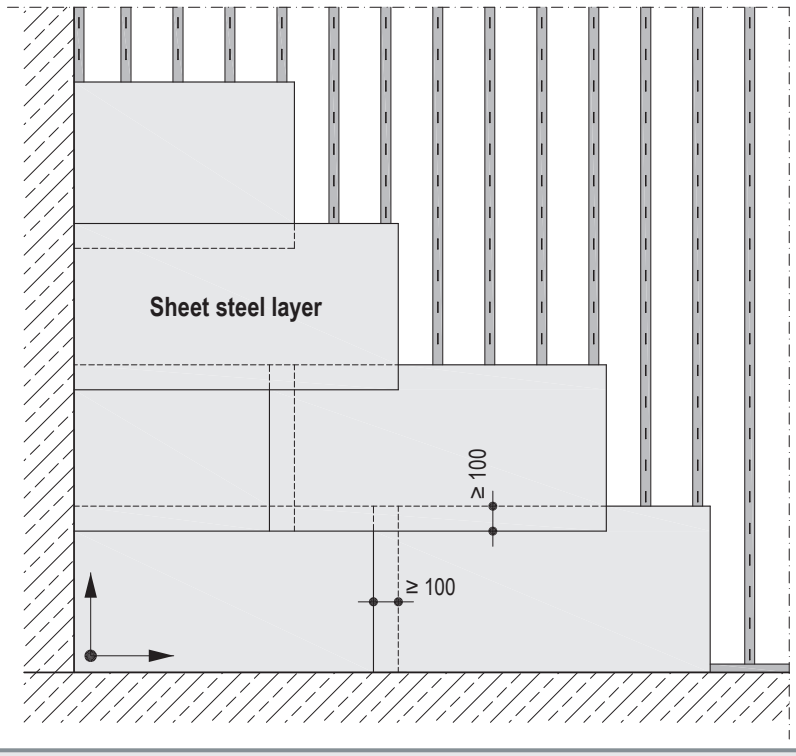
- Apply Acoustical Sealant (two strings) or Sealing Tape to rear side of runners for the connection of flanking constructional components. For sound protection requirements seal up carefully with acoustical sealant according to DIN 4109, Supplement 1, Chapter 5.2; porous sealant strips like Sealing Tape are usually not suitable in this case.
- Fix perimeter runners (UW runners at floor and ceiling, CW studs at walls) with suitable, non-combustible dowels to flanking components, e.g. Ceiling Steel Dowel (use and application according to National Technical Approval Z-21.1-1519) with washers ≥ Ø 30 mm, t = 1.5 to 3 mm for reinforced concrete. Spacing of dowels 500 mm.
- Install MW or CW studs at a spacing of 312.5 mm into the UW runners and align.

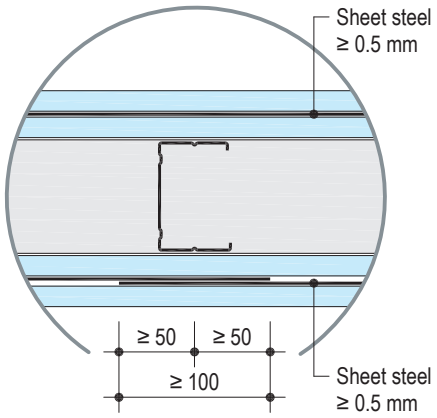
Cladding

- Fasten cladding acc. to table on page 2.
- Apply cladding vertically using preferably room-high Knauf boards.
  Solid Boards are applied horizontally.
- Stagger front edge joints by at least 400 mm.
- Stagger long edge joints between the layers by at least one stud spacing in case of multi-layer cladding.
- Stagger front and long edge joints of opposite layers as well.
- Apply sheet steel layer made of sheet plates or coil material with ≥ 0.5 mm gauge horizontally beneath the top cladding layer. Overlap sheets at joints by at least 100 mm and place vertical joints on studs. Fastening with Drywall Screws, only for fixing during installation, to be removed during the application of the cladding

Installation scheme for sheet steel layer

Scheme drawings, dimensions in mm





- Sheet steel layer on each side of the partition
- Galvanized sheet steel ≥ 0.5 mm gauge, overlapping at joints ≥ 100 mm (placed on studs), horizontal application
- Fastening with Drywall Screws
  (only for fixing during installation, to be removed during the application of the cladding)

Filling

Surface quality

- Fill the gypsum boards for the specified quality grade Q1 to Q4 in accordance with Code of Practice no. 2 “Verspachtelung von Gipsplatten, Oberflächengüten” of the BVG (Bundesverband der Gipsindustrie e.V.).

Filling materials

Choose filling materials suitable for the type of boards and the desired quality:

- TRIAS: hand filling of Diamant boards without joint tape, easy blending, very smooth application and easy to sand, with high strength and suitable for areas of high humidity, reduced suction for surfaces with uniform appearance
- Uniflott: hand filling without joint tape
- Fugenfüller Leicht: hand filling with Joint Tape Kurt
- Fireboard Filler: hand filling of Fireboard with Fibre Glass Joint Tape

Finishing compound to create the required surface quality grade:

- Readygips: for Q3 and Q4;
- Finish-Pastös: for Q2 and Q3;
- Spezialgrund: for Q3 in connection with Finish-Pastös;
- Multi-Finish / Multi-Finish M: for Q4.

Gypsum board joints

- In case of multi-layer cladding, fill joints of first layers in quality Q1, fill AND smooth joints of top layer.
  Filling of all concealed board layers in case of multi-layer cladding is necessary to preserve the required properties for fire protection, sound insulation and stability.
- Recommendation: Fill cut edge joints and mixed joints (e. g. HRAK + cut edge) of the visible cladding layers with Knauf Joint Tape Kurt, no matter which filling material is used.
- In deviation from the specifications given in the Code of Practice no. 2, a skim coating of the entire surface with Fireboard Filler is required to achieve surface quality Q2 with Fireboard.
- Cover all visible screw heads.
- Slightly sand visible surface after drying of filling compound, if necessary

Connection joints

- Apply Trenn-Fix or Joint Tape Kurt when filling joints to adjacent drywall constructions (ceiling or partition), depending on the conditions and requirements for crack safety.
- Notes of the Code of Practice no. 3 “Gipsplattenkonstruktionen - Fugen und Anschlüsse” of the BVG (IGG) are to be observed.
- Apply Trenn-Fix when filling joints to adjacent solid construction components.
- Fill joints of connections to floor with filler as well.

Application temperature/climate

- Filling and covering of joints should only take place after the boards have been allowed to rest in the given humidity and temperature zones, and no more longitudinal changes can be expected, i.e. expansion or contraction.
- Do not fill joints at air and surface temperatures below 10 °C (50 °F).
- In case of mastic asphalt, gypsum or cement screed, fill joints only after screed application.
- Notes of the Code of Practice no. 1 “Baustellenbedingungen” of the BVG (IGG) are to be observed.

Coats and linings

Common paints, coats or vapour barriers up to approx. 0.5 mm thickness and linings (with the exception of sheet steel) do not affect the fire resistance rating of Knauf Fire Walls.

Pre-treatment

Pre-treat and prime gypsum board surfaces before the application of coats and linings (wallpaper) in accordance with Code of Practice no. 6 of the BVG “Vorbehandlung von Trockenbauflächen aus Gipsplatten zur weitergehenden Oberflächenbeschichtung bzw. -bekleidung“.
Ensure that the primer and the coat or paint or lining are compatible. To settle the different suction properties of the filled areas and the paper surface, primers such as Knauf Tiefengrund/ Spezialgrund/Putzgrund are suitable.
In case of wallpaper lining a primer that allows for an easier removal of wallpaper for redecoration is recommended.
A sealing with Knauf Flächendicht is required for covering splash water areas with tiles.

Suitable coats and linings

The following coats and linings can be used on Knauf boards:

- Wallpapers:
  - Paper, fleece, textile, and synthetic wallpapers

  Use only adhesives made of cellulose according to Code of Practice no. 16 “Technische Richtlinien für Tapezier- und Klebearbeiten“ released by Bundesausschuss Farbe und Sachwertschutz.
- Ceramic tiles
- Plasters:
  - Knauf Structured Plasters / Interior Plasters / Finishing Plasters
  - Entire surface skimming such as Readygips, Multi-Finish or Multi-Finish M

  In case of plastering, it is recommended to fill front and cut edge joints with Knauf Joint Tape Kurt even if Uniflott or TRIAS is used for filling.
- Coats: Resin emulsion paint, multicoloured (rainbow) emulsion, oil paint, matte-finish lacquer, alkyd resin paint, PUR lacquer, polymer resin paint, epoxy-based lacquer (EP).
- Silicate-based emulsion paints may be used after referring to the manufacturer’s recommendations for priming.

Not suitable are:

- Alkaline coats such as lime, water glass colours and silicate-based paints.

After wallpapering with paper and fibre glass wallpapers or the application of resin / cellulose plasters, quick drying must be ensured through adequate airing.

Notes

Gypsum board surfaces that have constantly been exposed to light without any protection can cause yellowing after coating. Therefore a trial coat is recommended that will extend across several boards including all joints. Yellowing can, however, be successfully avoided only by using a special primer.

W13 Knauf Fire Walls

Declarations of Compliance

A declaration of compliance specified for your project is available from Knauf Direct Technical Advisory Service.

Declaration of compliance by the installer of the building component

Installer:
(name, address) .....

.....

Site / building: .....

Date of installation: .....

Building component / requirements: .....

.....

It is certified herewith that the Knauf Fire Wall system as stated above has been built and installed in accordance with

Knauf Technical Data Sheet W13, edition 2009-01

with the system components specified there, and has therefore been built regarding the declaration of compliance by the system manufacturer below in accordance with the valid building supervisory proofs concerning statics, sound insulation and fire protection.

....

Place, date Stamp and signature

Declaration of compliance by the system manufacturer

Knauf Gips KG
Am Bahnhof 7
97346 Iphofen, Germany

It is certified herewith that the construction variants, application details and specified products included in **Knauf Technical Data Sheet W13, edition 2009-01** are fully in accordance with the specified valid building supervisory proofs respectively.

As far as specified for the respective system / detail, this applies particularly to

- the stability according to DIN 4103.
- the fire protection according to ABP P-3391/170/08-MPA BS

In order to fulfil the building supervisory requirements specified above in the installation of Knauf Fire Wall systems, building and application have to be done according to the valid edition of Knauf Technical Data Sheet W13 with system components specified there. This has to be certified by the installer of the component with the declaration of compliance (see above) towards the contractor.

Iphofen, January 2009

Prof. Dr. Hummel

Dr. Schröpf

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W13/dtsch./D/01.09/FB/D

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* A rate of 0.39 € per minute will be charged for calls from within the German landline network. Callers whose phone numbers are not registered in the address database of Knauf Gips KG, i.e. private builders or non-patrons, will be charged a rate of 1.69 € per minute. Calls from mobile phones will be charged 1.48 € per minute.

** 0,14 €/Min.

The 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.