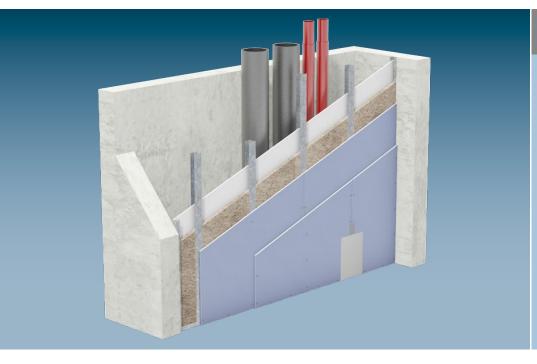
Note on English translation / Hinweise zur englischen Fassung

This is a translation of the System Data Sheet valid in Germany.

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

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





Drywall Systems

W62.de

System Data Sheet

2018-03

Knauf Installation Shaft Walls

W628A.de - Installation Shaft Wall - Free spanning

W630.de - Installation Shaft Wall - Stud crossbars with CW profiles

W628B.de – Installation Shaft Wall – Stud construction with CW profiles

W629.de – Installation Shaft Wall – Stud construction with CW double profiles

K251.de – Fireboard Installation Shaft Wall – Stud construction with CW double profiles

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



- New installation shaft wall heights
- Deflection head
- Equivalent connection to columns and beams
- Installation shaft wall upgrade



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Usage Instructions

Notes



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 German National Technical Approvals (abZ)) valid at the date they are published as well as on the applicable standards. In addition, design and structural requirements and those regarding building physics (fire protection 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 Vorsatzschalen (Knauf Furring (German only)
- Observe the Product Data Sheets of the Knauf system components

Symbols in System Data Sheet

The following symbols are used in this document:

Insulation layers

- Mineral wool insulation layer acc. to EN 13162 non-combustible (insulating material, e.g. from Knauf Insulation)
- S Mineral wool insulation layer acc. to EN 13162 non-combustible melting point ≥ 1000 °C acc. to DIN 4102-17 (insulating material, e.g. from Knauf Insulation)

Intended use of Knauf systems

Please observe the following:

Caution

Knauf systems may only be used in the applications as described in the Knauf documents. In case of third-party products or components, they must be recommended or approved by Knauf. Flawless application of products/ systems assumes proper transport, storage, assembly, installation and maintenance.

General instructions

Insulation layer

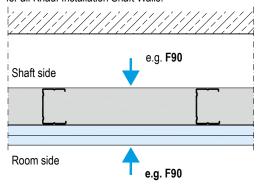
Requirements for the insulation layer:

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.



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

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 similar usages.

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.

Notes on sound insulation

R_w = Weighted sound reduction index in dB without sound transmission via flanking building components

Index R = Used to differentiate between the calculation value and the test stand values.

te	The verification according to the new DIN 4109-2:2018-01 is no longer according to calculation values $R_{\rm w,R}$ but rather with the values obtained on the test rig $R_{\rm w}$ rounded off to a single position following the decimal point. Only at the end of the forecast after consideration of all the perimeter surfaces (flanking surfaces) involved in the transmission of sound is an element of forecast uncertainty included in dependence on the type of separating constructional component. For a transition period the Knauf System data sheets will specify both the test stand values as well as the calculated values used up to now.
	Avoid air leaks. For deflection heads, sealing with permanently elastic

Note

Not

For deflection heads, sealing with permanently elastic sealant material (recommendation: Knauf Insulation LDS Solimur) may be necessary.



Certificate of usability

Certificate of usability

Knauf system	Fire protection	Sound insulation	Structural engineering Taking the respective fire protection abP (National Technical Test Certificate) into consideration
W628A.de	AbP P-3969/2222-MPA BS	Knauf sound insulation proof L 020-08.09	Knauf calculation
W630.de	AbP P-3969/2222-MPA BS	Knauf sound insulation proof L 020-08.09	Knauf calculation
W628B.de	AbP P-3393/172/08-MPA BS AbP P-SAC-02/III-797	Knauf sound insulation proof L 020-08.09	AbP P-1403/355/12-MPA BS AbP P-1100/490/15-MPA BS
W629.de	AbP P-3393/172/08-MPA BS AbP P-SAC-02/III-797	Knauf sound insulation proof L 020-08.09	AbP P-1403/355/12-MPA BS AbP P-1100/490/15-MPA BS
K251.de	AbP P-3393/172/08-MPA BS	Knauf sound insulation proof L 020-08.09	AbP P-1403/355/12-MPA BS
W635.de	AbP P-3320/194/09-MPA BS	Knauf sound insulation proof L 020-08.09	Knauf calculation

Notes on fire resistance

The specifications marked with plus 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 provide the documentation on which this assessment is based, such as surveyors' reports or technical assessments 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 protection 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.



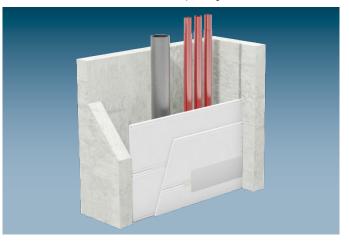
System overview



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 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.

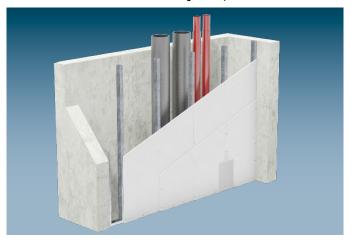
- Side perimeter connections with angle profiles
- Free spanning horizontal cladding
- Wall height up to: 15.00 mSound reduction index up to: 33 dB

F90

W630.de Installation Shaft Wall with stud crossbars



W628B.de Installation Shaft Wall with single stud profile



The installation shaft wall system **W630.de** is applied with stud crossbars up to an installation shaft width of 5.00 m. 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: 15.00 mSound reduction index up to: 42 dB

F30 F90

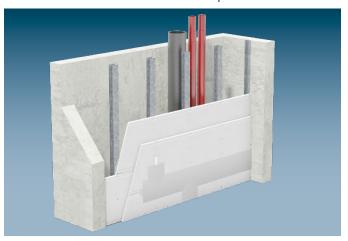
The installation shaft wall system **W628B.de** is applied using a single metal stud frame made of single profiles. Additional insulation is not required for fire protection purposes.

- 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: 7.00 mSound reduction index up to: 44 dB

F30 F60 F90



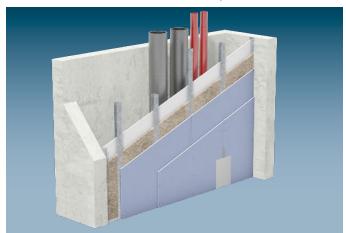
W629.de Installation Shaft Wall with double stud profiles



K251.de Fireboard Installation Shaft Wall with double stud profiles



W635.de 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. This facilitates particularly slim solutions.

- 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 depending on the system variant
- 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: 7.00 mSound reduction index up to: 44 dB

F30 F60 F90

The installation shaft wall system **K251.de** features premium 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 mSound reduction index up to: 39 dB

F90

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 mSound reduction index up to: 52 dB

F90





System variants

Without substructure, free-spanning across shaft width – double-layer cladding

Knauf system		Claddir	ng					Weight	Wall thick-	Knauf Angle	Insulation Fire prote	ection	Sound insulation		
Scheme drawings	W	nauf Piano board	lid Board						ness	Profile 50/35	resistance permissib				
	Fire resistance class	Feuerschutzplatte Knauf I Knauf fire resistant board	Massivbauplatte Solid Board	ard	ınt	board	Min. thick- ness	Without insulation layer			Min. thick- ness	Min. density			
	Fire re	Feuer	Massi	Fireboard	Diamant	Silentboard	t mm	approx. kg/m²	D mm	h mm	mm	kg/m³	R _w dB	$R_{w,R}$ dB	
W628A.de Installation Shaft Wall -	- free-sp	anning					Withou	ıt substructı	ure, free-s	panning ac	cross shaft	width – dou	ble-layer	cladding	
Shaft width	F90		•				2x 25	46	50	_	Without		36	33	



WW628A.de Installation Shaft Wall – Free spanning

Wall heights

1-sided application

Knauf perimeter runner	Maximum shaft width	Partition height	Increased wall heights				
	b	maximum permissible	maximum permissible plus				
Angle Profile 50/35 Alternative CW stud or UW runner possible	2.00 m	3.00 m	15.00 m				



2-sided application

Knauf perimeter runner	Maximum installation shaft wall surface execution	Maximum permissible wall height					
	b						
Angle Profile 50/35 Alternative CW stud or UW runner possible	a + b ≤ 2.00 m	5.00 m					



3-sided application

Knauf perimeter runner	Maximum installation shaft wall surface execution	Maximum permissible wall height
	b b	
Angle Profile 50/35 Alternative CW stud or UW runner possible	2 a + b ≤ 2.00 m	5.00 m



Extension of the fire resistance Certificate of Usability In case wall heights exceeding 3.00 m are used

- With 2- or 3-sided application

Prior consultation in acc. to page 5 is recommended.

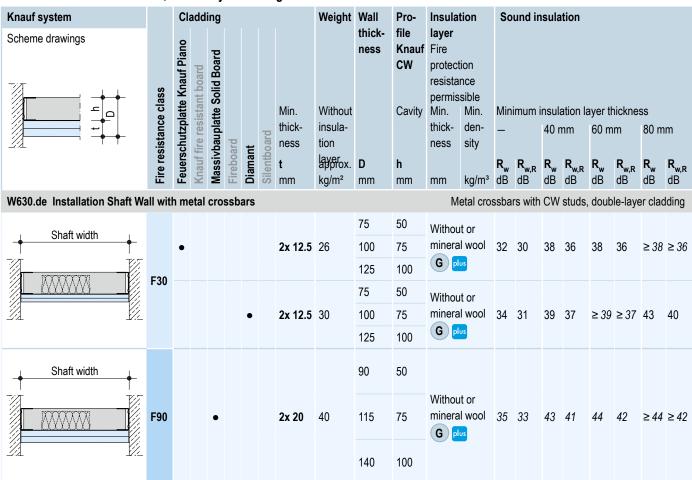
Note	Maximum permissible spacings with edge fixing see page
NOTE	40.

W630.de Installation Shaft Wall stud crossbars with CW profiles

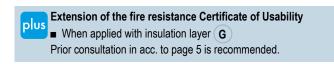


System variants

Metal crossbars with CW Studs, double-layer cladding



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



Note

Observe the notes on page 4.



W630.de Installation Shaft Wall stud crossbars with CW profiles

Wall heights

Double-layer cladding, Feuerschutzplatte Knauf Piano fire resistant board / Diamant 2x 12.5 mm

Knauf profile	Maximum crossbar spacing	Shaft widths maximum permissible	Maximum permissible increased shaft widths plus	Wall heights maximum permissible	Increased wall heights maximum permissible plus
Metal gauge 0.6 mm	mm	m	m	m	m
CW 50	312.5	3.00	3.00	3.00	15.00
OW 00	012.0	0.00	0.00	0.00	10.00
CW 75	312.5	3.00	4.50	3.00	15.00
CW 100	312.5	3.00	5.00	3.00	15.00

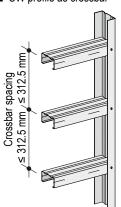
Double-layer cladding, Massivbauplatte Solid Board 2x 20 mm

Knauf profile Metal gauge	Maximum crossbar spacing	Shaft widths maximum permissible	Maximum permissible increased shaft widths	Wall heights maximum permissible	Increased wall heights maximum permissible
0.6 mm	mm	m	m	m	m
CW 50	312.5 ¹⁾	3.00	3.00	3.00	15.00
CW 75	312.5 ¹⁾	4.00	4.50	3.00	15.00
CW 100	312.5 ¹⁾	4.00	5.00	3.00	15.00

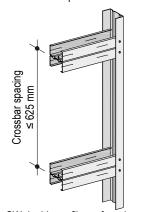
1) Alternative crossbar spacing 625 mm possible with CW double profile possible up to shaft width 4.00 m and shaft height 3.00 m

Crossbar frame spacing

■ CW profile as crossbar



■ CW double profile as crossbar



CW double profile preferred variant with installation of insulation layer

Extension of the fire resistance Certificate of Usability

- In case the enhanced shaft widths are used
- In case the enhanced wall heights are used Prior consultation in acc. to page 5 is recommended.

Maximum permissible spacings with edge fixing see page Note

System variants

Single metal stud frame with CW single studs, double-layer cladding																				
Knauf system Cladding Weight Wal								Pro- Insulation		tion	Sound insulation									
Scheme drawings									thick- ness	file Knauf	layer									
		Feuerschutzplatte Knauf Piano		5					11622	CW	protection resistance permissible									
		uf P	ard	Воа									Minimum insulation layer thickness							
٥-	SS	Kna	t bo	<u>B</u>				14711												
	e cla	latte	stan	tte S			Min. thick-	Without insula-		Cavity	Min. thick-			mum i			•		ss 80 m	~~
	Fire resistance class	utzp	res	upla _		5		tion			ness	sity	_		40 mm		60 mm		00 111	111
	esis	rsch	fire	ivba oard	ant	tboa	ness t mm	layer				·	_	_			_			
	<u>:</u>	ene	Feuerschutzplatte Knauf Plar Knauf fire resistant board Massivbauplatte Solid Board Fireboard	Diamant	ilen	t	approx. kg/m²	D mm	h mm	mm	kg/m³	R _w dB	$R_{w,R}$ dB	R _w dB	$R_{w,R}$ dB	R _w dB	$R_{w,R}$ dB	R _w dB	$R_{w,R}$ dB	
W628B.de Installation Shaft W							111111	Kg/III		Single m										
Wozob.de installation offait W	raii w	1111 3	iligic	Juu	pic	ille			75	50 50			WILLI	O V V 31	rigie (stuus,	uoub	ic-iay	oi ciau	ung
							2x 12.5	25	100	75	Withou		32	20	20	36	38	36	> 20	> 26
		•					23 12.3	20		100	G pl	_	32	30	38	30	30	30	≥ 30	≥ 36
⊥ Stud spacing ⊥	F30								125											40
a								00	75	50	Withou minera		24	31	39	37	40	38	43	
					•		2x 12.5	29	100	75	G		34				40			
									125	100										
	F30 plus						2x 12.5	40	75	50	Without or mineral wool		38.4	00				42	46.8	44
						•			100	75				36	42.9	40	44.8			
									125	100										
		,							80	50	G plus Without or mineral wool	00				00			≥36	
Stud spacing			•				2x 15	29	105	75		32	30	38	36	38	36	≥ 38		
a	F60						2x 15		130	100										
									80	50										
					•			34	105	75			32 3	30	38	36	38	36	≥ 38	≥ 36
									130	100	G p									
Stud spacing									90	50	\A <i>P</i> (I									
a	F90						2x 20	39	115	75	Withou		35	33	43	Δ 1	44	42	> 44	> 42
L. WWW.L.	plus						ZA ZU	33			mineral wool G plus		55	55	40	71	44	42	≥ 44	≥ 42
									140	100										
⊥ Stud spacing ⊥									100	50										
a a											Withou									
Γ \sim Γ				•			2x 25	47	125	75	minera G p		36	33	43	41	44	42	≥ 44	≥42
									150	100										
Stud spacing							2x 20		115	75 v	Without or									
a				•				36			minera		35 33	33	43 41	41	44	42	≥ 44	≥ 42
									140	100	G	US								
ha ma managana ma									_											

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



- When applied with insulation layer **G**
- For variant with Silentboard

Prior consultation in acc. to page 5 is recommended.

Note Observe the notes on page 4.

KNAUF

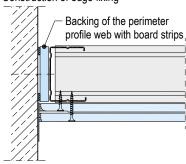
W628B.de Installation Shaft Wall with single stud profile

Knauf	Max.	Maximum peri	nissible wall hei	ght					
Metal gauge 0.6 mm	spac- ings a	Feuer- schutzplatte Knauf Piano fire resistant board 2x 12.5 mm	Diamant 2x 12.5 mm	Silentboard 2x 12.5 mm	Knauf Feuer- schutzplatte fire resistant board 2x 15 mm	Diamant 2x 15 mm	Mas- sivbauplatte Solid Board 2x 20 mm	Fireboard 2x 20 mm	Mas- sivbauplatte Solid Board 2x 25 mm
	mm	m	m	m	m	m	m	m	m
Double-I	ayer claddi	ng							
	1000	-	-	-	_	-	-	-	3.001)
CW 50	625	2.95 ¹⁾	2.95 ¹⁾	-	3.001)	3.001)	-	-	3.00
	312.5	3.00	3.00	-	3.00	3.00	-	-	3.00
	1000	-	-	-	-	-	-	-	3.00
CW 75	625	3.00	3.00	_	3.00	3.00	-	3.00	3.00
	312.5	3.00	3.00	_	3.00	3.00	-	3.00	3.00
	1000	-	_	_	_	-	-	-	3.00
CW 100	625	3.00	3.00	_	3.00	3.00	-	3.00	3.00
	312.5	3.00	3.00	_	3.00	3.00	-	3.00	3.00
plus Incre	eased wall h	neights, double-	layer cladding						
	1000	-	-	-	-	-	2.70	2.70	3.10
014/ 50	625	2.95	2.65 / 3.351)	2.65 / 3.351)	3.10	3.25	2.80 / 3.551)	2.80 / 3.551)	4.00
CW 50	417	3.20	4.00	4.00	3.80	4.00	4.00	4.00	4.00
	312.5	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.05
	1000	_	_	_	_	_	3.95	3.95	4.00
OM 75	625	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.05
CW 75	417	4.00	4.40	4.40	4.15	4.65	4.55	4.55	5.00
	312.5	4.55	4.95	4.95	4.75	5.25	5.20	5.20	5.70
	1000	_	_	_	_	_	4.00	4.00	4.10
014/400	625	4.50	4.95	4.95	5.20	5.20	5.00	5.00	5.40
CW 100	417	5.40	5.90	5.90	6.20	6.20	6.10	6.10	6.60
	312.5	6.15	6.65	6.65	6.95	6.95	6.90	6.90	7.00

¹⁾ only for installation zone 1

With wall height > 3.00 m

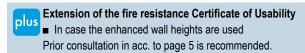
Construction of edge fixing



See page 25 and page 40.

Ball impact safety

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



Note Maximum permissible spacings with edge fixing see page 40.

W629.de Installation Shaft Wall with double stud profiles



System variants

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

Single metal stud frame with	I CVV				uS	– ac	uble-lay		_												
Knauf system Scheme drawings		iano	oard					Weight	Wall thick- ness	Pro- file Knauf CW	Insula layer Fire protect resistat permis	tion nce	Sou	ınd in	sulat	ion					
= 0		Feuerschutzplatte Knauf Piano	Knauf fire resistant board	Massivbauplatte Solid Board		-	Min. thick-	Without insula-tion		Cavity	Min. thick- ness	Min. Min. thick- den-		mum i	um insulation la		•			ss 80 mm	
	Fire resistance class	uersch	nauf fire	assivba	Fireboard	Diamant	ness t mm	layer approx.	D	h			R_w	$R_{w,R}$	R _w					$R_{w,R}$	
								kg/m²	mm	mm	mm			dB		dB	dB	dB	dB	dB	
W629.de Installation Shaft Wa	ll wit	h do	uble	stu	d pr	ofile	S			ngle met	al stud f	rame w	ith CV	V doul	ble pr	ofiles,	doub	le-lay	er clad	ding	
									75	50	Withou										
		•					2x 12.5	26	100	75	mineral wool G plus		32	30	38	36	38	36	≥ 38	≥ 36	
	F30								125	100											
Stud spacing a								30	75	50	Without or mineral wool			31	20				40	40	
						•	2x 12.5		100	75			34		39	37	40	38	43	40	
									125	100											
	F30					. 44	75	50	Without or mineral wool		00.4	20		40	110	40	40.0	44			
	plus					(2x 12.5	41	100 125	75 100	G		38.4	36	42.9	40	44.8	42	46.8	44	
									80	50	Without or										
						2x 15	31	105	75	mineral wool	32	30	38	36	38	36	≥ 38	≥ 36			
Stud spacing a									130	100	G	us	02						_ 00		
	F60								80	50	Withou	ıt or									
						•	2x 15	36	105	75	minera		32	30	38	36	38	36	≥ 38	≥ 36	
									130	100	G	us									
									90	50	Withou	ıt or									
	F90			•			2x 20	40	115	75	minera		35	33	43	41	44	42	≥ 44	≥ 42	
	pios								140	100	G	us									
Stud spacing									100	50	Withou	ıt or									
a a		•		•			2x 25	49	125	75	minera		36	33	43	41	44	42	≥ 44	≥ 42	
									150			G plus									
	F90								90	50	Without or	ıt or									
					•		2x 20	37	115	75	minera	ıl wool		33	43	41	44	42	≥ 44	≥ 42	
									140	100	G plus										

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



- When applied with insulation layer **G**
- For variant with Silentboard

Prior consultation in acc. to page 5 is recommended.

Note Observe the notes on page 4.



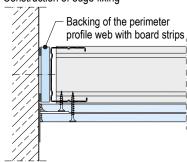
W629.de Installation Shaft Wall with double stud profiles

Wall heights Installa	tion zones 1 and 2
-----------------------	--------------------

Knauf	Max.	Maximum per	missible wall he	ight					
profile Metal gauge	spac- ings a	Feuer- schutzplatte Knauf Piano fire resistant board 2x 12.5 mm	Diamant 2x 12.5 mm	Silentboard 2x 12.5 mm	Knauf Fire Resistant Board 2x 15 mm	Diamant 2x 15 mm	Massivbau- platte Solid Board 2x 20 mm	Fireboard 2x 20 mm	Massivbau- platte Solid Board 2x 25 mm
0.6 mm	mm	m	m	m	m	m	m	m	m
Double-I	layer clado	ding							
	1000	-	-	-	-	-	-	-	3.00
CW 50	625	3.00	3.00	-	3.00	3.00	-	3.00	3.00
	312.5	3.00	3.00	_	3.00	3.00	-	3.00	3.00
	1000	-	-	-	-	-	-	-	3.00
CW 75	625	3.00	3.00	-	3.00	3.00	-	3.00	3.00
	312.5	3.00	3.00	-	3.00	3.00	-	3.00	3.00
	1000	-	_	_	-	-	-	_	3.00
CW 100	625	3.00	3.00	_	3.00	3.00	-	3.00	3.00
	312.5	3.00	3.00	_	3.00	3.00	-	3.00	3.00
plus Incre	eased wall	heights, double	-layer cladding						
	1000	-	_	_	_	-	3.95	3.95	4.00
CW 50	625	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.05
	312.5	4.05	4.45	4.45	4.30	4.75	4.80	4.80	5.45
	1000	-	_		_	_	4.15	4.15	4.55
CW 75	625	4.55	4.95	4.95	4.75	5.25	5.20	5.20	5.70
	312.5	6.00	6.45	6.45	6.30	6.80	6.90	6.90	7.00
	1000	-	-	-	-	-	5.60	5.60	6.00
CW 100	625	6.15	6.65	6.65	6.40	6.95	6.90	6.90	7.00
	312.5	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

With wall height > 3.00 m

Construction of edge fixing



See page 27 and page 40.

Ball impact safety

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



Extension of the fire resistance Certificate of Usability In case the enhanced wall heights are used

Prior consultation in acc. to page 5 is recommended.

Note

Maximum permissible spacings with edge fixing see page



K251.de Fireboard Installation Shaft Wall with double stud profiles

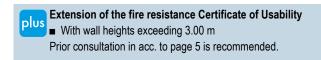


System variants

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

Single metal stud frame with CW double stud frame, single-layer cladding																	
Knauf system		Cla	ddin	g					Weight	Wall	Profile	Insulatio	n layer	Sound insulation			
Scheme drawings		auf Piano	oard	d Board						thick- ness	Knauf CW	Fire prote resistand necessar	e				
	Fire resistance class	Feuerschutzplatte Knauf Piano	Knauf fire resistant board	Massivbauplatte Solid Board	ard	nt	oard	Min. thickness	Without insulation layer		Cavity	Min. thick- ness	Min. density		num in: thicknown m		
	Fire re	Feuers	Knauf	Massiv	Fireboard	Diamant	Silentboard	t mm	approx. kg/m²	D mm	h mm	mm	kg/m³	R _w dB	${ m R}_{ m w,R}$ dB	${f R}_{f w}$ dB	${ m R_{w,R}}$ dB
K251.de Fireboard Installation	K251.de Fireboard Installation Shaft Wall height ≤ 3.00 m Single metal stud frame with CW double stud frame, single-layer cladding																
Stud spacing										80	50						
a	F90				•			30	31	105	75	Mineral wool \$ 40 40		40	38	41	39
Wall height: ≤ 3.00 m										130	100						
plus K251.de Fireboard Installat	tion Sh	aft V	/all h	eigh	t > 3.	.00 m	to 5	5.00 m	Single	metal stud	d frame wit	th CW dou	ble stud fra	ame, s	ingle-la	yer cla	ıdding
Stud spacing					•			30		92.5	50						
a T	F90				•			+ 12.5 Stud	32	117.5	75	Mineral wool S 40 40		40	38	41	39
Wall height > 3.00 m								covering		142.5	100						

Apply backing to front edge joints using profiles or Fireboard strips



Note

Observe the notes on page 4.



K251.de Fireboard Installation Shaft Wall with double stud profiles

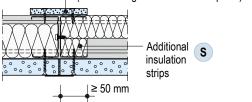
Wall heights

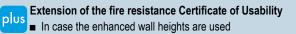
Single-layer cladding

Knauf profile	Maximum spacings a	Wall heights maximum permissible	Increased wall heights maximum permissible plus
Metal gauge 0.6 mm	mm	m	
0.0 111111	mm	m	m
CW 50	625	3.00	4.00
CW 75	625	3.00	4.50
CW 100	625	3.00	5.00

Type with stud covering

12.5 mm Fireboard covering strips b \geq 100 mm (with wall height ≤ 3.00 m not required)





Prior consultation in acc. to page 5 is recommended.

Note

W635.de Installation Shaft Wall with double stud profiles



System variants

Single metal stud frame with UW double runners, double-layer cladding + intermediate board layer

Knauf system Scheme drawings		Feuerschutzplatte Knauf Piano	Knauf fire resistant board upp	Massivbauplatte Solid Board	Fireboard	Diamant	ilentboard	Min. thick- ness	Weight Without insulation layer approx.	thick- ness	Profile Knauf CW	Insulation Fire prote resistance necessari Min. thick- ness	ection ee y Min. density	Minim layer 40 mi	$R_{w,R}$	ulation	m R _{w,R}
W635.de Installation Shaft Wall		Ľ.	X	2			meta	mm al stud fra	kg/m² me with U	mm IW double	mm runners, d	mm ouble-laye	kg/m³ er cladding	dB + inter	dB mediate		dB I layer
Stud spacing						•		2x 15		80	50						
T a T)	•						+ 12.5 interme-	46	105	75	Mineral v 40	vool S	49	47	54	52
								diate		130	100						



W635.de Installation Shaft Wall with double stud profiles

Wall heights

Double-layer cladding + intermediate board layer

Knauf profile Metal gauge	Maximum spacings a	Wall heights maximum permissible	Maximum permissible increased wall heights
0.6 mm	mm	m	m
UW 50	625	3.00	4.00
UW 75	625	3.00	4.50
UW 100	625	3.00	5.00

Extension of the fire resistance Certificate of Usability

In case the enhanced wall heights are used

Prior consultation in acc. to page 5 is recommended.

Note

Maximum permissible spacings with edge fixing see page



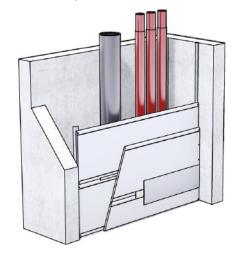
W628A.de Installation Shaft Wall – Free-spanning



Scale 1:5

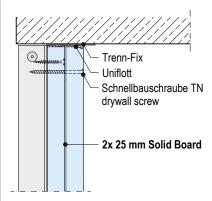
Details W628A.de-P1 Horizontal board layers

2x 25 mm Massivbauplatte Solid Board



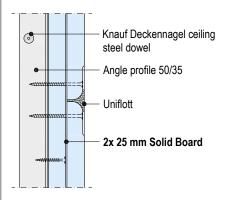
W628A.de-VO1 Connection to ceiling

Vertical section



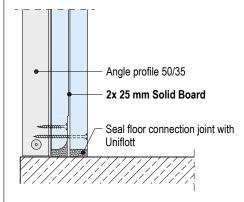
W628A.de-VM1 Board joint

Vertical section



W628A.de-VU1 Connection to floor

Vertical section

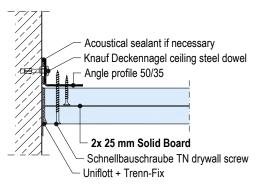




W628A.de Installation Shaft Wall – Free-spanning

Details W628A.de-A1 Connection to solid wall

Horizontal section

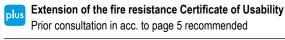


W628A.de-D2 Corner

Angle profile 50/35 or CW stud/UW runner
Drywall screw TN

Tight board butt joint
Uniflott
Corner trim if required

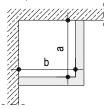
■ Simplified corner detail maximum wall heights see table



Internal dimension clearance maximum permissible for Installation Shaft Walls with simplified corner detail (e.g.: W628A.de-D2 Corner)

Applica- tion	Maximum d a	imensions b	Maximum installation shaft wall surface execution	Maximum permissible wall height
	mm	mm	mm	m
1-sided	500	500	a + b ≤ 500	4.00
2-sided	500	500	a + b ≤ 750	4.00
3-sided	500	500	a + b ≤ 1000	3.00

Example: Internal dimensioning with 2-side application Scheme drawing



W628A.de-D1 Corner

Horizontal section

UW runner
CW stud
Blechschraube LN 3.5x11
metal screw; a ≤ 500 mm
Schnellbauschraube TN
drywall screw; a ≤ 250 mm
Flex profile100 mm
CW stud
Fill board joint
Corner trim if required
Schnellbauschraube TN drywall screw; a ≤ 250 mm

Maximum permissible wall height 5.00 m

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



W630.de Installation Shaft Wall stud crossbars with CW profiles

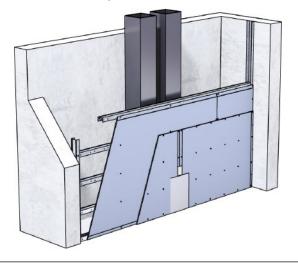


Scale 1:5

Details

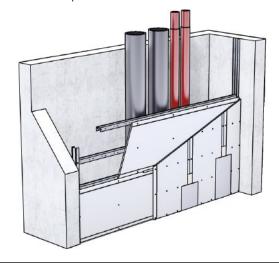
W630.de-P1 Horizontal board layers

2x 12.5 mm Feuerschutzplatte Knauf Piano fire resistant board / Diamant



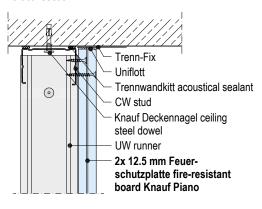
W630.de-P4 Board layer 1 horizontal, board layer 2 vertical

2x 20 mm Massivbauplatte Solid Board



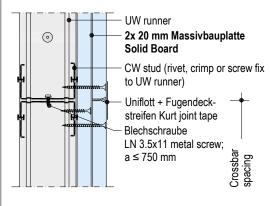
W630.de-VO1 Connection to ceiling

Vertical section



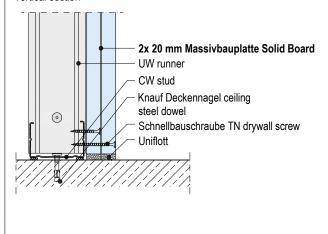
W630.de-VM4 Board joint CW double profile

Vertical section



W630.de-VU4 Connection to floor

Vertical section



Note

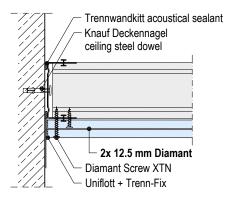
Scale 1:5



W630.de Installation Shaft Wall stud crossbars with CW profiles

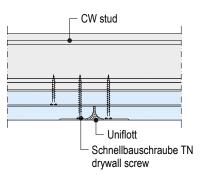
Details W630.de-A1 Connection to solid wall

Horizontal section



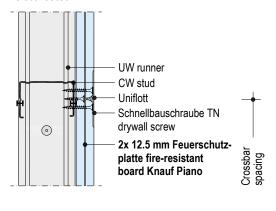
W630.de-B4 Board joint

Horizontal section



W630.de-VM1 Board joint CW single profile

Vertical section



Note

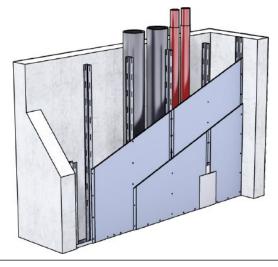
W628B.de Installation Shaft Wall with single stud profiles



Details

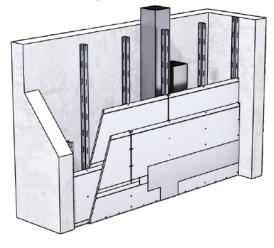
W628B.de-P2 Vertical board layers

e.g. 2x 12.5 mm Feuerschutzplatte Knauf Piano fire resistant board /



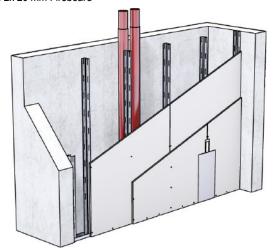
W628B.de-P6 Horizontal board layers

e.g. 2x 20 mm Massivbauplatte Solid Board



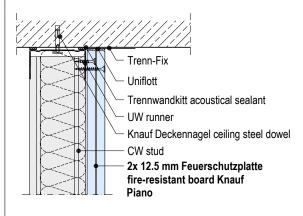
W628B.de-P4 Vertical board layers

e.g. 2x 20 mm Fireboard



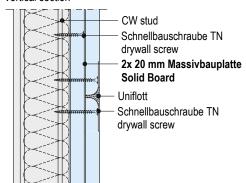
W628B.de-VO2 Connection to ceiling

Vertical section



W628B.de-VM6 Board joint

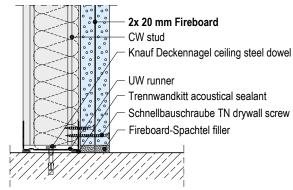
Vertical section



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

W628B.de-VU4 Connection to floor

Vertical section



Note

Installation of an access panel is possible. Application in accordance with the Knauf Access Panel product data sheets.

Scale 1:5

Scale 1:5

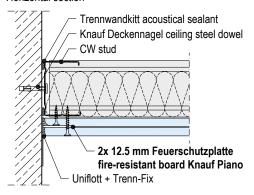


W628B.de Installation Shaft Wall with single stud profiles

Details

W628B.de-A2 Connection to solid wall

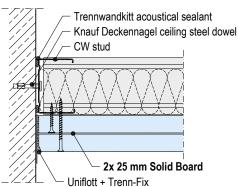
Horizontal section



With wall height ≤ 3.00 m no backing of the CW perimeter connection profile on the web side required.

W628B.de-A3 Connection to solid wall

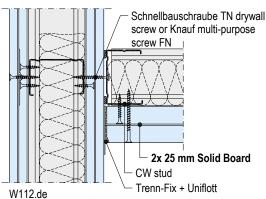
Horizontal section



With wall height \leq 3.00 m no backing of the CW perimeter connection profile on the web side required.

W628B.de-SO4 Connection to metal stud partition

Horizontal section



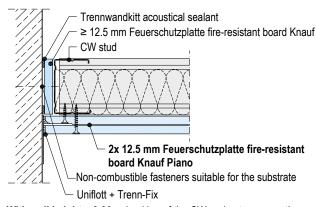
With wall height ≤ 3.00 m no backing of the CW perimeter connection profile on the web side required



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

W628B.de-A21 Connection to solid wall

Horizontal section



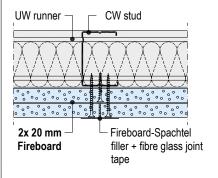
With wall height > 3.00 m backing of the CW perimeter connection profile on the web side required.



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

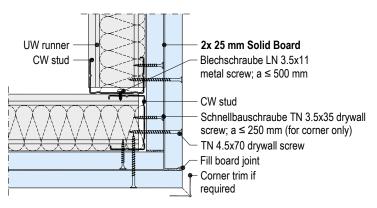
W628B.de-B4 Board joint

Horizontal section



W628B.de-D3 Corner

Horizontal section





Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended.

Note

W629.de Installation Shaft Wall with double stud profiles

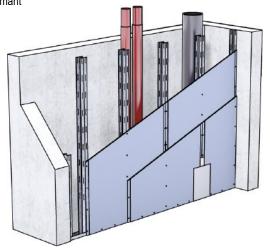


Scale 1:5

Details

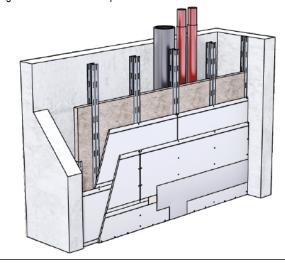
W629.de-P2 Vertical board layers

e.g. 2x 12.5 mm Feuerschutzplatte Knauf Piano fire resistant board /



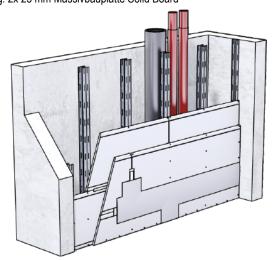
W629.de-P5 Horizontal board layers

e.g. 2x 20 mm Massivbauplatte Solid Board



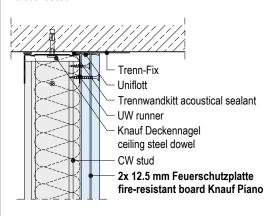
W629.de-P6 Horizontal board layers

e.g. 2x 25 mm Massivbauplatte Solid Board



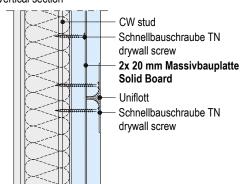
W629.de-VO2 Connection to ceiling

Vertical section



W629.de-VM5 Board joint

Vertical section



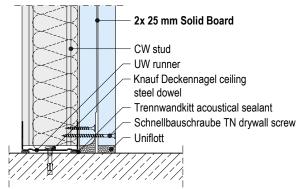
plus Ex

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended

W629.de-VU6 Connection to floor

Vertical section



Note

Scale 1:5

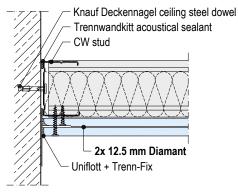


W629.de Installation Shaft Wall with double stud profiles

Details

W629.de-A2 Connection to solid wall

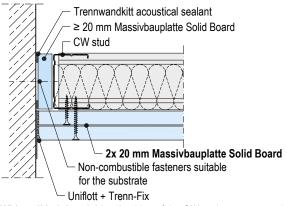
Horizontal section



With wall height \leq 3.00 m no backing of the CW perimeter connection profile on the web side required.

W629.de-A51 Connection to solid wall

Horizontal section



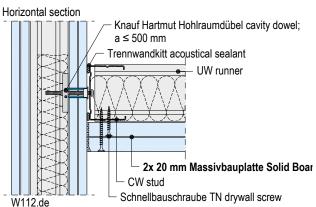
With wall height > 3.00 m backing of the CW perimeter connection profile on the web side required.



Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended

W629.de-SO5 Connection to solid wall



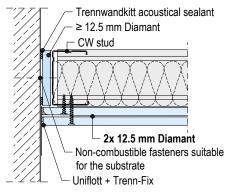
With wall height ≤ 3.00 m no backing of the CW perimeter connection profile on the web side required.



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

W629.de-A21 Connection to solid wall

Horizontal section



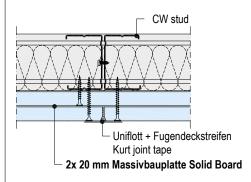
With wall height > 3.00 m backing of the CW perimeter connection profile on the web side required.



Extension of the fire resistance Certificate of UsabilityPrior consultation in acc. to page 5 recommended

W629.de-B5 Board joint

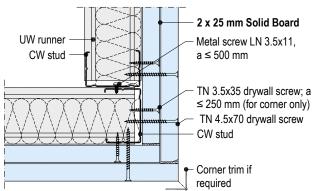
Horizontal section



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

W629.de-D6 Corner

Horizontal section



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

Note



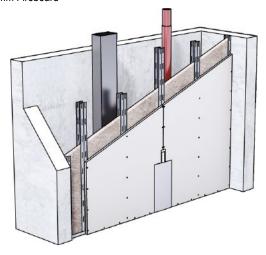
K251.de Fireboard Installation Shaft Wall with double stud profiles



Scale 1:5

Details K251.de-P6 Vertical board layers

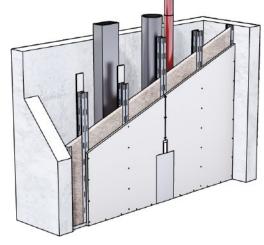
30 mm Fireboard



With wall height \leq 3.00 m

K251.de-P5 Vertical board layers + stud covering

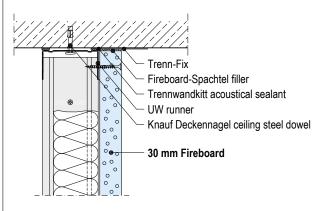
30 mm Fireboard + 12.5 mm Fireboard covering strip



With wall height > 3.00 m

K251.de-VO6 Connection to ceiling

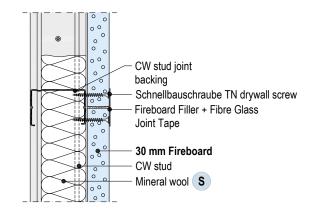
Vertical section



With wall height ≤ 3.00 m

K251.de-VM6 Board joint

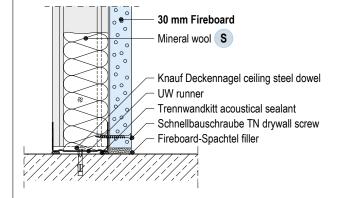
Vertical section



With wall height ≤ 3.00 m

K251.de-VU6 Connection to floor

Vertical section



With wall height \leq 3.00 m

Note

Scale 1:5

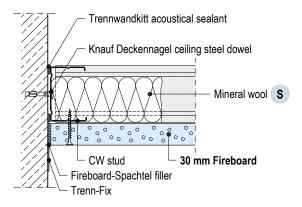


Details

K251.de Fireboard Installation Shaft Wall with double stud profiles

K251.de-A6 Connection to solid wall

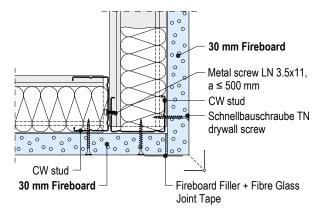
Horizontal section



With wall height ≤ 3.00 m

K251.de-D6 Corner

Horizontal section



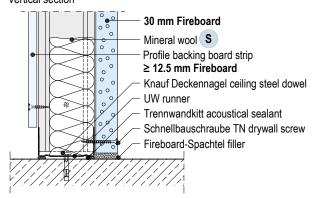
With wall height ≤ 3.00 m



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

K251.de-VU5 Connection to floor

Vertical section



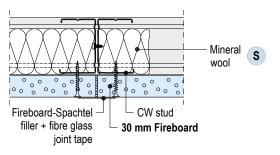
With wall height > 3.00 m



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

K251.de-B6 Board joint

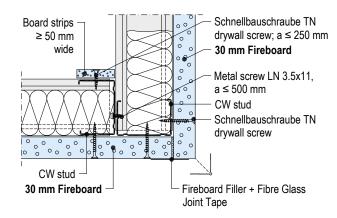
Horizontal section



With wall height ≤ 3.00 m

K251.de-D5 Corner

Horizontal section



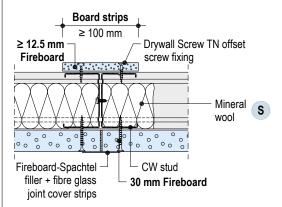
With wall height > 3.00 m



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

K251.de-B5 Board joint

Horizontal section



With wall height > 3.00 m



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

Note



W635.de Installation Shaft Wall with double stud profiles

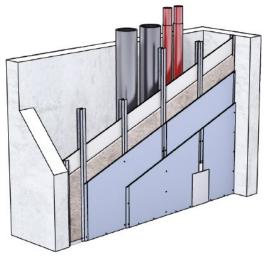


Scale 1:5

Details

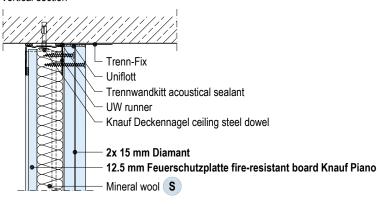
W635.de-P1 Vertical board layers

2x 15 mm Diamant + intermediate Knauf Piano fire resistant board



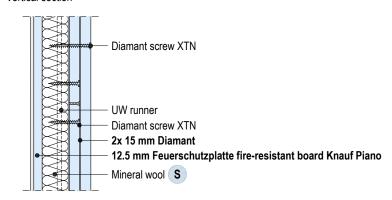
W635.de-VO1 Connection to ceiling

Vertical section



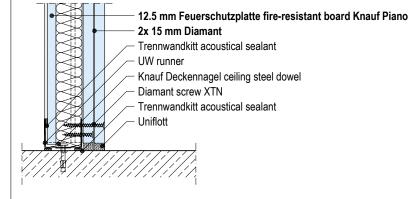
W635.de-VM1 Board joint

Vertical section



W635.de-VU1 Connection to floor

Vertical section



Note

Scale 1:5

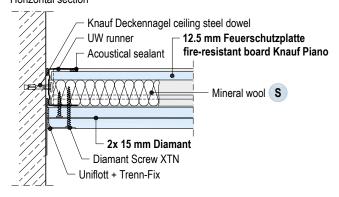


W635.de Installation Shaft Wall with double stud profiles

Details

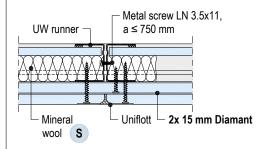
W635.de-A1 Connection to solid wall

Horizontal section



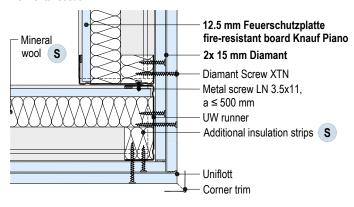
W635.de-B1 Board joint

Horizontal section



W635.de-D1 Corner

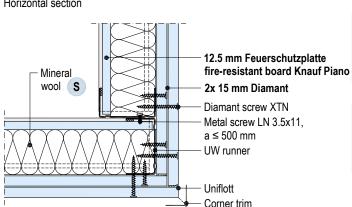
Horizontal section



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

W635.de-D2 Corner

Horizontal section



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

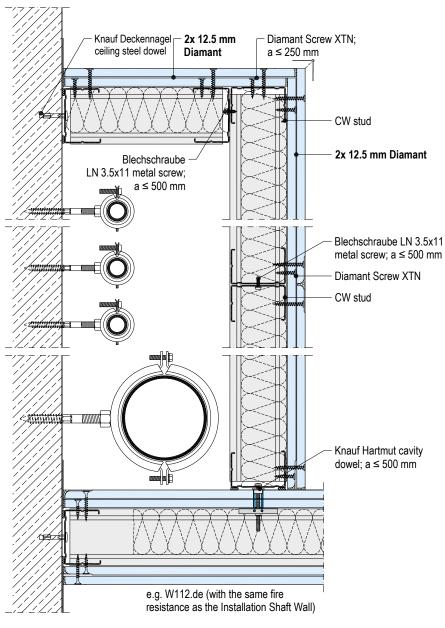
Special details



Detail Scale 1:5

W629.de-SO2 Installation shaft

Horizontal section



plus

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended

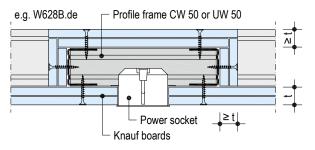
W628B.de





W628B.de-SO1 Power sockets with runner frame

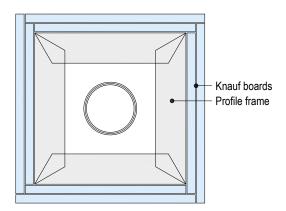
Horizontal section



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

W628B.de-SO2 Power sockets with runner frame

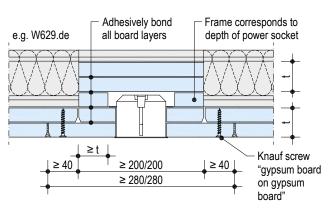
Vertical section



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

W629.de-SO6 Power sockets with board backing

Horizontal section

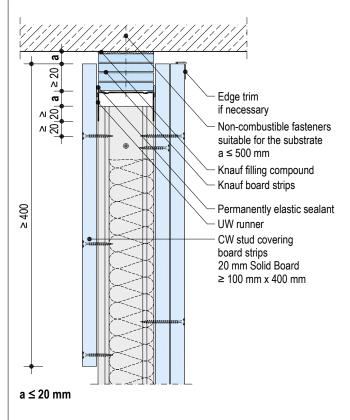


Prior consultation in acc. to page 5 recommended

Dimensions in mm I Scale 1:5

W629.de-VO3 Connection to ceiling - deflection head

Vertical section



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

Note

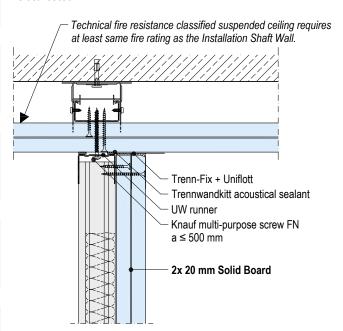
The power sockets must be encased in at least cladding thickness **t** by Knauf GKF/Fireboard boards.

Special details

Details

W628B.de-SO6 Connection to ceiling on board ceiling

Vertical section

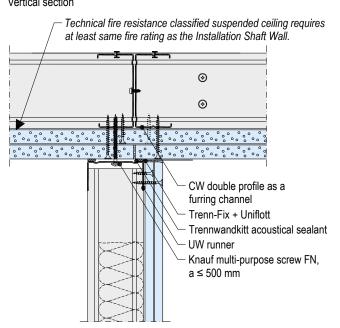


plus

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended.

W628B.de-SO7 Connection to ceiling to free-spanning ceiling



plus

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended.

Scale 1:5
W629.de-S10 Connection to ceiling on board ceiling

Vertical section

Trenn-Fix + Uniflott
Trennwandkitt acoustical sealant
UW runner
Knauf multi-purpose screw FN,
a ≤ 500 mm

Trenn-Fix + Uniflott
Trensessant board
Knauf Piano

plus

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended.

W629.de-SO11 Connection to ceiling to free-spanning ceiling

Vertical section

Technical fire resistance classified suspended ceiling requires at least same fire rating as the Installation Shaft Wall.

CW double stud profile as a furring channel

Trenn-Fix + Uniflott

Trennwandkitt acoustical sealant

UW runner

Knauf multi-purpose screw FN, a ≤ 625 mm

plus

Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended.

Note

Refer to the System Data Sheets for suspended ceiling application

- Knauf Board Ceiling D11.de.
- Knauf Free-Spanning Ceilings D13.de

Scale 1:5

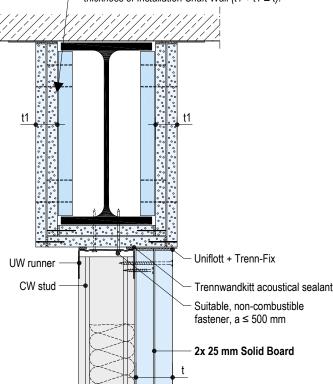


Details W629.de-SO7 Connection to steel beam encasement

Vertical section

Technical fire resistance classified beam encasement, at least same fire rating as the Installation Shaft Wall.

Minimum thickness of the cladding per side half cladding thickness of Installation Shaft Wall (t1 + t1 ≥ t).



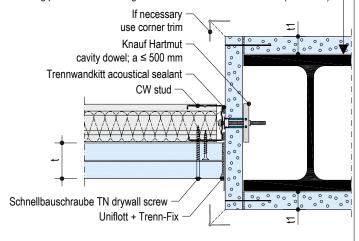
plus

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

W628B.de-SO5 Connection to steel column encasement

Horizontal section

Technical fire resistance classified column encasement, requires at least same fire rating as the Installation Shaft Wall. Minimum thickness of the cladding per side half cladding thickness of Installation Shaft Wall ($t1 + t1 \ge t$).



plus

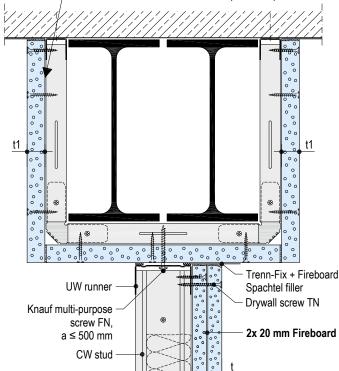
Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended

W629.de-SO8 Connection to steel beam encasement

Vertical section

Technical fire resistance classified beam encasement, at least same fire rating as the Installation Shaft Wall. Minimum thickness of the cladding per side half cladding thickness of Installation Shaft Wall (t1 + t1 ≥ t).



plus

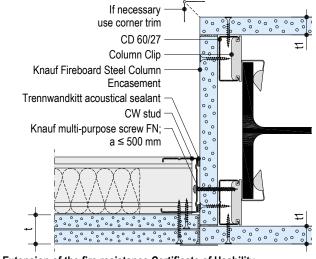
Extension of the fire resistance Certificate of Usability

Prior consultation in acc. to page 5 recommended

W629.de-SO9 Connection to steel column encasement

Horizontal section

Technical fire resistance classified column encasement, requires at least same fire rating as the Installation Shaft Wall. Minimum thickness of the cladding per side half cladding thickness of Installation Shaft Wall ($t1 + t1 \ge t$).



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

Note

For steel beam encasement application see System Data Sheet Knauf Fireboard Column and Beam Encasements K25.de.



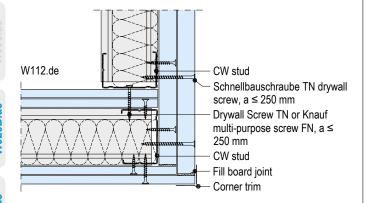
Special details



Details

W628B.de-SO8 Corner – Connection to metal stud partition

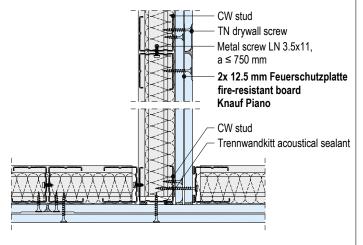
Horizontal section



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

W629.de-SO12 T connection Installation Shaft Wall

Horizontal section

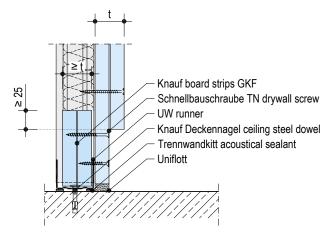


Extension of the fire resistance Certificate of Usability
Prior consultation in acc. to page 5 recommended

Dimensions in mm I Scale 1:5

W629.de-SO13 Connection to floor – undercut plinth

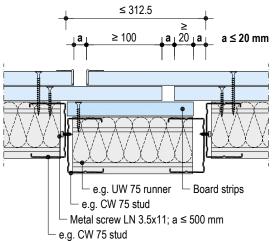
Vertical section



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

W628B.de-SO9 Movement joint

Horizontal section



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



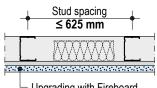
Upgrading of installation shaft walls with Fireboard



To be observed when upgrading:

- Existing Installation Shaft Wall
 - In accordance with the requirements of the DIN 4103-1
 - Fastening of the UW perimeter runner with non-combustible fasteners suitable for the substrate; a ≤ 625 mm
 - Maximum spacings of stud profiles / crossbar; a ≤ 625 mm

Horizontal section I Example



Upgrading with Fireboard

Fastening of the additional cladding made of Fireboard by screw fixing to the profile (alternative fastening on request)

Upgrade (required cladding, minimum thickness) **Existing construction**

=2og	- opg. a.a. (. oqu ou o.a.ag,	
Existing Installation Shaft Wall	To F30 Fireboard	To F90 Fireboard
Cladding mm	mm	mm
≥ 12.5 GKB	1x 20	2x 20
≥ 2x 12.5 GKB	1x 12.5	1x 12.5 + 1x 20 or 1x 30
≥ 12.5 GKF	1x 12.5	1x 12.5 + 1x 20 or 1x 30
≥ 2x 12.5 GKF	1x 12.5	1x 12.5 + 1x 20 or 1x 30



Extension of the fire resistance Certificate of Usability

■ For fire protection reasons on the basis of the expert survey GS 3.2/16-266-1

Prior consultation in acc. to page 5 is recommended.



Cable lead-throughs



Lead-through for individual electrical cables

Basics

In accordance with paragraph 40 of the MBO (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 39.

For applying the cable lead-through's as shown on page 38 and 39, 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).

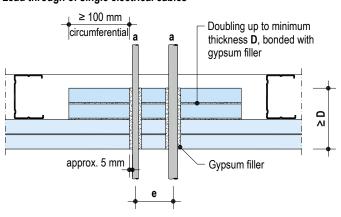
Minimum thickness D

■ Fire resistant walls (fh)	D ≥ 60 mm
Highly fire resistant walls (hfh)	D ≥ 70 mm
■ Fire proof walls (fb)	D ≥ 80 mm

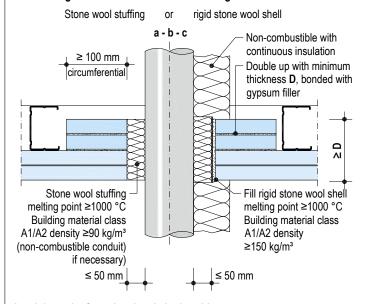
Cable type acc. to Model Conduit Systems Directive (German designation MLAR)

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

Horizontal sections Lead through of single electrical cables

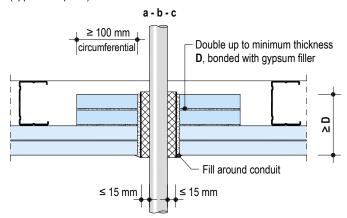


Lead through of non-insulated / insulated single cables



Lead through of non-insulated single cables

Non-combustible conduit with foam-forming material in case of fire (approval required)



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).





plus Lead-through for several electrical cables

Bulkhead systems - partial upgrading of the shaft side

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 \mathbf{H} = bulkhead height + 2x100 mm ($H \ge 500$ 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.

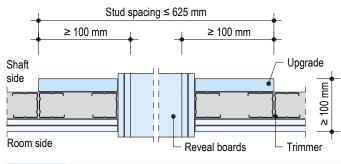
Required brace in upgraded installation shaft walls

- 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.

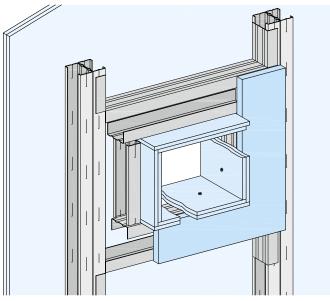
Horizontal section



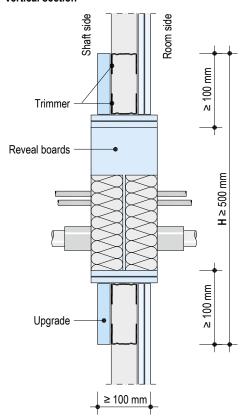
Note

Consultation with the bulkhead manufacturer required.

Shaft side view



Vertical section



Extension of the fire resistance Certificate of Usability

■ Due to partial upgrading of installation shaft walls Prior consultation in acc. to page 5 is recommended. 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.

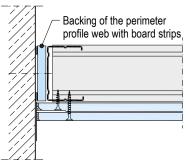
Use suitable fasteners:

- Knauf Deckennagel ceiling steel dowel (reinforced concrete without board strip backing)
- Fasteners for the building materials that are specially suitable and non-combustible

Partition height	Max. fastening spacing Wall perimeter runner	Ceiling and floor connection profiles		
m	mm	mm		
W628A.de				
Up to 15.00	500	_		
W630.de				
≤ 3.00	625	625 ²⁾		
> 3.00 to 15.00	500	625 ²⁾		
W628B.de				
Up to 7.00	5001)	500		
W629.de				
Up to 7.00	5001)	500		
K251.de				
Up to 5.00	1000 ²⁾	1000		
W635.de				
Up to 5.00	1000 ²⁾	1000		

 With wall height > 3.00 m backing of the CW perimeter connection profile on the web side required.

Contact surfaces of the board strips with flanking component provided with acoustical sealant (2 beads).

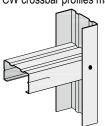


2) Structural connection, at least 3 anchoring point per connection

W630.de Installation Shaft Wall stud crossbars with CW profiles

CW studs, as metal crossbars with spacings of 312.5 mm / double CW studs as crossbars with spacings of 625 mm (625 mm with 2x 12.5 mm cladding not permissible installation shaft width and wall height see page 11); rivet, crimp or apply with screws to UW wall connection profiles.

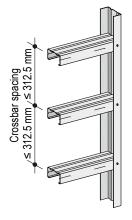
CW crossbar profiles may not be joined or extended.

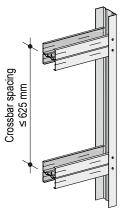




■ CW profile as crossbar

■ CW double profile as crossbar





CW double profile preferred variant with installation of insulation layer

W628B.de Installation Shaft Wall – Stud construction with CW profiles

Apply and align CW Studs as stud frame profiles in the perimeter connection profiles at appropriate spacings.

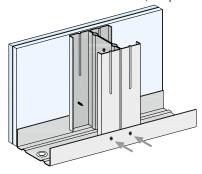
With wall heights > 5.00 m fix CW studs to UW runners on ceiling and floor at the shaft side with rivets, crimps or screws.

W629.de Installation Shaft Wall – Stud construction with CW double profiles

Screw two CW profiles to one another on the web side at centres \leq 500 mm using Metal Screws LN 3.5x11.

Apply and align stud frame profiles in the perimeter connection profiles at appropriate spacings.

With wall heights > 5.00 m fix double CW studs to UW runners on ceiling and floor at the shaft side with rivets, crimps or screws.



Note

The permissible wall heights vary depending on the system variant. Please observe the table in section "Data for planning" on pages 8 to 19.

Alternative fastening possible using nails. Construction on request.

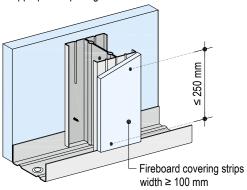


Stud frame I Insulation layer

Installation and application

K251.de – Fireboard Installation Shaft Wall – Stud construction with CW double profiles

Screw two CW profiles to one another on the web side at centres \leq 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 \geq 100 mm and on the wall perimeter runner of width \geq 50 mm at a spacing of \leq 250 mm. Apply and align stud frame profiles in the perimeter connection profiles at appropriate spacings.



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

Screw two UW profiles to one another on the web side at centres \leq 750 mm using Metal Screws LN 3.5x11. Apply and align stud frame profiles in the perimeter connection profiles at appropriate spacings.

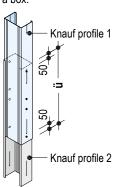
Apply Acoustical Sealant to the inner surface of the shaft sided flange of the double UW runner and apply and push on a 12.5 mm layer of Knauf Piano fire resistant board.

Vertical profile extensions

Dimensions in mm

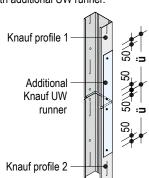
Alternative 1

2 CW profiles connected to form a box.



Alternative 2

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



Profile extensions Knauf profiles	Overlap ü
CW 50	≥500 mm
CW 75	≥ 750 mm
CW 100	≥1000 mm

- 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.

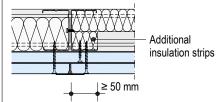
Insulation layer

General

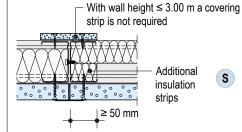
Depending on the requirements for fire protection, sound insulation and thermal insulation, secure the insulation against sliding (compress up to approx. 10 mm) and tightly joint in the grid (or if necessary install insulation strips as to prevent sliding in the stud profiles).

Additional insulation strips for deviation of the insulation material thickness > 20 mm from the stud web width.

W629.de Installation Shaft Wall – Stud construction with CW double profiles

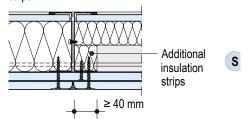


K251.de Fireboard Installation Shaft Wall – Stud construction with CW double profiles



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

Fill the UW 75 / UW 100 runners completely with additional insulation **S** strips.



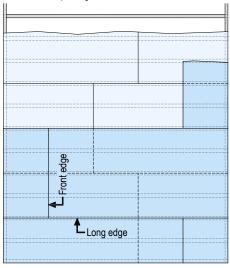




Installation schemes

W630.de Horizontal board layers

- Feuerschutzplatte Knauf Piano fire resistant board / Diamant (board width 1250 mm)
- Crossbar spacing 312.5 mm



Lower/upper layer:

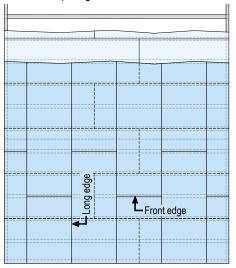
- Offset front edge joint by at least 500 mm.
- Arrange the long edge joints on the crossbar.

Offset between lower and upper layer:

- Stagger long edge joints by 625 mm.
- Stagger the front edge joints between board layers.

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



Lower layer:

- Offset front edge joint by at least 500 mm.
- Arrange the long edge joints on the crossbar.

Upper laver

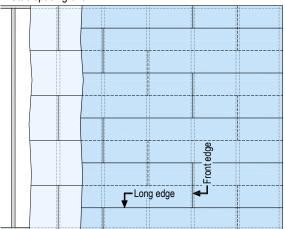
■ Arrange the front edge joints on the crossbar and stagger by 625 mm.

Offset between lower and upper layer:

Stagger the board joints of the upper layer by approx 312.5 mm to the board joints of the lower layer. Scheme drawings I Dimensions in mm

W628B.de/W629.de Horizontal board layers

- Silentboard / Massivbauplatte Solid Board (board width 625 mm)
- Stud spacing 625 mm

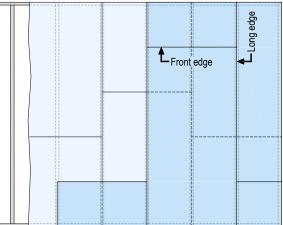


Lower/upper layer:

- 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

- Feuerschutzplatte Knauf Piano Fire Resistant Board / Diamant / Knauf Feuerschutzplatte Fire Resistant Board / Fireboard (board width 1250 mm)
- Stud spacing 625 mm



Lower/upper layer:

- 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 to the stud frame with Knauf drywall screws

Cladding		Metal stud frame (Penetration Metal gauge s ≤ 0.7 mm	Maximum spacings Fastener		
Board type	Minimum thick- ness mm	Drywall screws TN	Diamant screws XTN	1st layer mm	2nd layer mm
W628A.de					
Massivbauplatte Solid Board	2x 25	TN 3.5 x 35 + TN 4.5 x 70	-	300	200
W630.de					
Feuerschutzplatte Knauf Piano Fire Resistant Board	2x 12.5	TN 3.5 x 25 + TN 3.5 x 35	-	750	250
Diamant	2x 12.5	-	XTN 3.9 x 23 + XTN 3.9 x 38	750	250
Massivbauplatte Solid Board	2x 20	TN 3.5 x 35 + TN 3.5 x 55	-	600	200
W628B.de / W629.de					
Feuerschutzplatte Knauf Piano Fire Resistant Board	2x 12.5	TN 3.5 x 25 + TN 3.5 x 35	-	750	250
Diamant	2x 12.5	-	XTN 3.9 x 23 + XTN 3.9 x 38	750	250
Silentboard	2x 12.5	-	XTN 3.9 x 23 + XTN 3.9 x 38	600	200
Knauf Feuerschutzplatte Fire Resistant Board	2x 15	TN 3.5 x 25 + TN 3.5 x 45	-	750	250
Diamant	2x 15	-	XTN 3.9 x 33 + XTN 3.9 x 55	750	250
Massivbauplatte Solid Board (W629.de only)	2x 20	TN 3.5 x 35 + TN 3.5 x 55	-	600	200
Fireboard	2x 20	TN 3.5 x 35 + TN 3.5 x 55	-	750	250
Massivbauplatte Solid Board	2x 25	TN 3.5 x 35 + TN 4.5 x 70	_	300	200
K251.de					
Fireboard covering strips	12.5	TN 3.5 x 25	-	250	-
Fireboard	30	TN 3.5 x 45	-	250	-
W635.de					
Diamant	2x 15	-	XTN 3.9 x 33 + XTN 3.9 x 55	750	250

Note

Installation and application

Jointing



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).

Fill in visible screw heads.

With Fireboard, a skim coating of the entire surface, e.g. with Fireboard Filler is additionally required before application of direct coatings or linings.

Suitable jointing materials

- Uniflott
 - Hand filling without joint tape strips in the long joint edges
- Uniflott imprägniert
- Hand filling of impregnated boards without joint tape in the long joint edges; water-repellent, green colour for easy identification
- Fugenfüller Leicht
 - Hand filling with joint tape, preferably Fugendeckstreifen Kurt joint tape
- Fireboard Filler
- Hand filling of Fireboard with Fibre Glass joint tape

Suitable finish jointing compounds

- Q2, application by hand
 Uniflott, Uniflott imprägniert, Fill & Finish, SuperFinish
- Q3/Q4, application by hand
- Readygips, SuperFinish, Fill & Finish
- Q3/Q4, machine application:
 ProSpray Light (preferably Q3), Readygips
- Fireboard-Spachtel filler for full surface skimming of Fireboard

Filling of the gypsum board joints

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!

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 with Kurt joint tape as well

Jointing of connection joints

Apply Trenn-Fix or Kurt joint tape when filling joints to adjacent drywall constructions, depending on the conditions and requirements for crack safety.

Observe code of practice no. 3 "Gipsplattenkonstruktionen - Fugen und Anschlüsse" ¹⁾ (German only)

Apply Trenn-Fix when filling joints to adjacent solid construction or timber components.

Sanding

Lightly sand visible surfaces after drying of the filler material, if required.

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 jointing 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) (German only), issued by the Bundesverband der Gipsindustrie e.V.

Quality levels	Jointing Long edge HRAK or HRK	Jointing Front edge SFK	Description working steps.
Q1			 Fill the joints with Uniflott or Uniflott imprägniert Fill all visible fastener parts.
Q2			 Preliminary jointing in acc. with quality level Q1 Finish (finish compound) until a smooth transition to the board surface is achieved using e.g. Uniflott, Uniflott imprägniert, Readygips, Fill & Finish or SuperFinish No application marks or ridges may remain visible. Sand off the areas concerned if necessary.
Q3			 Jointing in acc. with quality level Q2 Wide jointing of the joints as well as clean and accurate removal of the remaining board liner filling the pores, e.g. with Readygips, SuperFinish, Fill & Finish or ProSpray Light. If necessary, i.e. physical ridges and grooves are not acceptable and must be sanded.
Q4			 Jointing in acc. with quality level Q2 Complete surface covering of skim coat with a layer thickness of at least 1 mm, e.g. with Readygips, Fill & Finish or SuperFinish



Coatings and linings

Coatings and linings

Coating / lining	Recommended Gypsum boards EN 520 ¹⁾	jointing Fireboard		
Tiles or similar	Q1	Jointing		
Linings with coarse textures (e.g. wood chip wallpaper)	Q2	Full surface skimming		
Finely textured wallpapers	Q3/Q4	Full surface skimming		
Matt, textured coats	Q3/Q4	Full surface skimming		
Glossy, smooth coats	Q4	Full surface skimming		
Plasters (grain size < 1 mm)	Q3/Q4	Full surface skimming		
Plasters (grain size ≥ 1 mm)	Q2	Jointing		

Pretreatment

Before further coating or lining is applied, the filled surface must be free of dust. Always prime gypsum board surfaces in compliance with the Code of Practice no. 6 of "Vorbehandlung von Trockenbauflächen aus Gipsplatten zur weitergehenden Oberflächenbeschichtung bzw. -bekleidung" (German only)¹⁾.

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 Tiefengrund primer is suitable.

Where a wallpaper lining is used, a primer that facilitates easier removal of wallpaper for redecoration is recommended.

With lining in bathrooms and areas that require high moisture resistance, sealing may be required - Observe Code of Practice No. 5 "Bäder, Feuchtund Nassräume im Holz- und Trockenbau" ¹⁾ (German only).

Note

Gypsum board surfaces that have constantly been exposed to light without any protection can cause yellowing. 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, e.g. Knauf Aton Sperrgrund for finishing plasters, Knauf Sperrgrund for coatings.

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 Spannarbeiten innen" ²).
- Plaster and filler materials
 - Finishing plasters (e.g. Noblo, Raumklima Spritzputz, Rotkalk Filz)
 - Full surface plaster (e.g. Readygips, ProSpray Light).
 Application of plaster layers only in conjunction with Fugendeckstreifen Kurt joint tape.
- Decorative coats

- Dispersion paints (e.g. Intol E.L.F., Malerweiss E.L.F.)
- Silicate-based emulsion paints with suitable primer.
- Others on request
- Ceramic tiles
 - System W628A.de only up to 1.00 m installation shaft width
 - Minimum cladding thickness 18 mm (Diamant: 15 mm), e.g. 2x 12.5 mm with stud pacing 625 mm
 - With narrower cladding thickness, reduce the stud spacing to max.
 417 mm.

Unsuitable coatings and linings

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

		ing must be ensured through adequate airing.
N	lotes	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.

After wallpapering or after application of plasters, quick dry-

- 1) (German only), issued by the Bundesverband der Gipsindustrie e.V.
- 2) (German only), issued by the Bundesausschuss Farbe und Sachwertschutz

Material requirement per m² of installation shaft wall without allowance for loss and waste.

Description		Quantity as W628A.de	werage value W630.de	W628B.de F90	W629.de F90	K251.de F90	W635.de F90
Stud frame							
Knauf angle profile 50/35/0.7	m	1	-	-	-	_	-
Knauf UW runner; e.g. UW 50	m	-	0.5	0.7	0.7	0.7	4.3
Knauf CW stud; e.g. CW 50	m	-	3.7	2.0	3.5	3.5	-
Knauf CW stud/UW runner as a joint backing	m	-	-	-	-	0.3	-
Knauf Metal Screw LN 3.5 x 11 (Connection to double stud)	pcs	-	-	-	3.8	3.8	2.8
Metal blind rivet alternative: Metal screw LN 3.5 x 11 or crimped (Connect CW stud to UW runner)	pcs	-	2.9	-	-	-	-
Knauf Trennwandkitt acoustical sealant	pcs	0.2	0.3	0.3	0.3	0.3	0.3
Alternative Knauf Dichtungsband sealing tape; e.g. 50/3.2 mm	m	1.0	1.2	1.2	1.2	1.2	1.2
Knauf Acoustical Sealant for installing intermediate board	pcs	-	-	-	-	-	0.4
With fasteners suitable for the substrate that are compliant with the fire protection requirements Knauf Ceiling Steel Dowel with reinforced concrete	pcs	2.2	0.7	0.9	0.9	0.9	0.9
Alternative Fasteners specially for the building materials that are suitably non-combustible	pcs	-	0.9	0.7	0.7	0.7	0.7
Insulation layer, e.g. Knauf Insulation	m ²	as req.	as req.	as req.	as req.	1.0	1.0
Knauf boards							
Feuerschutzplatte Knauf Piano fire resistant board; 12.5 mm	m^2	-	-	-	-	-	1
Diamant 12.5 mm	m^2	-	2	-	_	-	-
Diamant 15 mm	m^2	-	-	_	-	_	2
Massivbauplatte Solid Board 20 mm	m ²	-	-	-	2	_	-
Massivbauplatte Solid Board 25 mm	m ²	2	-	-	-	_	-
Fireboard 12.5 mm (board strips)	m^2	-	-	-	-	as req.	-
Fireboard 20 mm	m^2	-	-	2	-	_	-
Fireboard 30 mm	m^2	-	-	-	-	1	-
Fastening (fastening of the boards, Knauf fasteners see page	43)						
1st layer	pcs	5.5	11	8	10	18	8
2nd layer	pcs	7	22	16	18	-	16
Board strips	pcs	-	-	-	-	as req.	_
Jointing (e.g. quality level Q2) – see also page 44							
Knauf filling compound, e.g. Uniflott	kg	0.8	0.4	-	0.85	-	0.5
Fireboard Filler	kg	-	-	0.6	-	0.55	_
Fugendeckstreifen Kurt joint tape (for front edges)	m	-	as req.	-	as req.	_	as req.
Knauf fibre glass joint tape (long and front edges)	m	-	-	1.1	-	1.1	_
Trenn-Fix, 65 mm wide, self-adhesive	m	as req.	0.9	0.9	0.9	0.9	0.9
Knauf edge/corner trims; e.g. Kantenschutzprofil edge trim 23/13	m	as req.	as req.	as req.	as req.	as req.	as req.
					1		

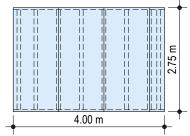
Legend:

as req. = as required

Material not provided by Knauf = printed in italics

The quantity relates to a partition area of:

- W628A.de:
 - H = 2.75 m; L = 2.00 m; $A = 5.50 \text{ m}^2$
- W630.de / W628B.de / W629.de / K251.de / W635.de:
 H = 2.75 m; L = 4.00 m; A = 11.00 m²





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Availability:

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

 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 sustainability of Knauf Installation Shaft Walls

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 following certification systems have a particular relevance in Germany

■ DGNB System

Deutsches Gütesiegel Nachhaltiges Bauen der DGNB (German Association for Sustainable Building)

BNB

(Bewertungssystem Nachhaltiges Bauen)

■ LEED

(Leadership in Energy and Environmental Design).

Knauf products and Knauf Installation Shaft Walls 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 Walls

Criterion: Suitability for conversion
 Flexible Knauf Drywalling

Technical quality

■ Criterion: Sound insulation

Exceeding the demands of the standard with Knauf sound protection

 Criteria: 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

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