



BODOVA LTD.

**GWB
TECHNICAL
INFORMATION**

Catalogue 2023-2024

TECHNICAL INFORMATION

Construction Overview Single Support Wall Sheet Thickness = 0,8 (mm)

							Allowable height in meter						
							Stud Distance* (mm) Mounting area A *			Stud Distance** (mm) Mounting area B **			Acoustic
Wall type stud/wall thickness	Stud width (mm)	GK	Planking(mm) both sides	Isol. (mm)	Wall thickness (mm) +/-1	Fire- proof	625	417	312	625	417	312	db
STD048/72	47	GKB	2x12,5	45	72		2.75	3.25	3.75	/	2.75	3.25	45
STD048/72	47	GKF	2x12,5	45	72	F30	2.75	3.25	3.75	/	2.75	3.25	45
STD048/77	47	GKB	2x15.00	45	77		3.00	3.25	3.75	/	2.75	3.25	47
STD048/77	47	GKF	2x15.00	45	77	F30	3.00	3.25	3.75	/	2.75	3.25	47
STD075/99	74	GKB	2X12,5	50	99		3.75	4.5	5.25	3.25	4.00	4.75	47
STD075/99	74	GKF	2x12,5	50	99	F30	3.75	4.5	5.25	3.25	4.00	4.75	47
STD075/104	74	GKB	2x15.00	50	104		4.00	4.5	5.25	3.5	4.00	4.75	48
STD075/104	74	GKF	2x15.00	50	104	F30	4.00	4.5	5.25	3.5	4.00	4.75	48
STD100/124	99	GKB	2x12,5	50	124			5.5	6.5	4.00	5.00	6.00	50
STD100/124	99	GKF	2x12,5	50	124	F30		5.5	6.5	4.00	5.00	6.00	50
STD100/129	99	GKB	2x15.00	50	129		4.5	5.5	6.5	4.00	5.00	6.00	51
STD100/129	99	GKF	2x15.00	50	129	F30	4.5	5.5	6.5	4.00	5.00	6.00	51
STD048/97	47	GKB	4x12,5	50	97		3.25	3.75	4.25	2.75	3.25	3.75	51
STD048/97	47	GKF	4x12,5	50	97	F90	2.25	3.75	4.25	2.75	3.25	3.75	51
STD075/124	74	GKB	4x12,5	50	124		4.25	5.00	5.75	3.75	4.5	5.25	53
STD075/124	74	GKF	4x12,5	50	124	F90	4.25	5.00	5.75	3.75	4.5	5.25	53
STD100/149	99	GKB	4x12,5	50	149		5.00	6.00	7.00	4.5	5.5	6.5	55
STD100/149	99	GKF	4x12,5	50	149	F90	5.00	6.00	7.00	4.5	5.5	6.5	55
STD048/122	47	GKB	6x12,5	45	122		4.00	4.5	5.00	3.5	4.00	4.5	57
STD100/122	47	GKF	6x12,5	45	122	F90	4.00	4.5	5.00	3.5	4.00	4.5	57
STD075/149	74	GKB	6x12,5	50	149		5.00	5.75	6.5	4.5	5.25	6.00	58
STD075/149	74	GKF	6x12,5	50	149	F180*	5.00	5.75	6.5	4.5	5.25	6.00	58
STD100/174	99	GKB	6x12,5	60	174		6.00	7.00	8.00	5.5	6.5	7.5	61
STD100/174	99	GKF	6x12,5	60	174	F180*	6.00	7.00	8.00	5.5	6.5	7.5	61

F180* =Rock wool 100kg/m³

Area A*:
Area of a large number of people

Area B:**
Area of a low number of people
GKB= Plasterboard
GKF= Plaster board Fire proof (fire rated)

TECHNICAL INFORMATION

Sheet Thickness & Tolerance
according to EN 10143

Thickness Code	Thickness (mm)	Tolerance (mm)
04	0.4	0.34 - 0.46
05	0.5	0.44 - 0.56
06	0.6	0.53 - 0.67
07	0.7	0.63 - 0.77
10	1.0	0.91 - 1.09
12	1.2	1.11 - 1.29
16	1.6	1.48 - 1.72
20	2.0	1.86 - 2.14
25	2.5	2.34 - 2.66

Sheet Thickness & Tolerance
according to DIN 18182 part 1

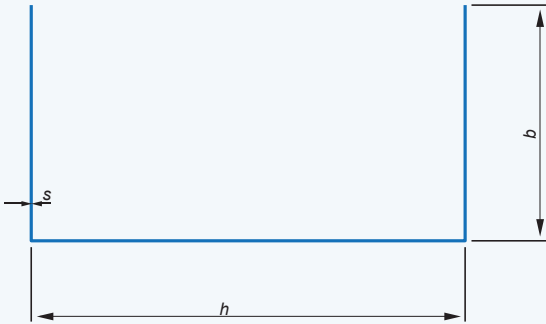
Thickness Code	Thickness (mm)	Tolerance (mm)
04	0.4	0,40 - 0,46
05	0.5	0,46 - 0,55
06	0.6	0,56 - 0,64
07	0.7	0,66 - 0,74
10	1.0	0,91 - 1,09
20	2.0	1,86 - 2,14

Soundproofing in dB

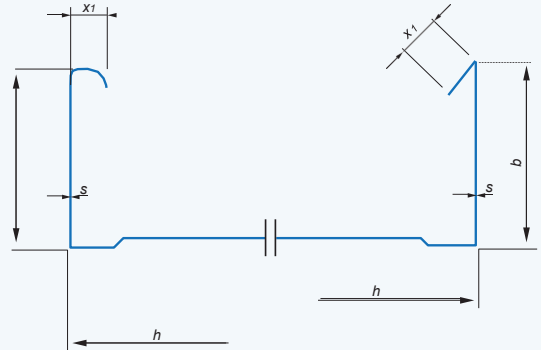
Description of wall system				Sound-proofing	
Planking with plasterboard	Planking in each side (mm)	Insulation (mm)	Wall Thickness (mm)	According to DIN 18180 (dB)	Planking plasterboard (dB)
Stud STD 048 / 72	1 x 12.5	45	72	40-43	41-46
Stud STD 075 / 99	1 x 12.5	50	99	40-44	44-49
Stud STD 075 / 99	1 x 12.5	60	99	41-44	47-52
Stud STD 100 / 124	1 x 12.5	45	124	42-45	46-49
Stud STD 100 / 124	1 x 12.5	80	124	42-48	49-53
Stud STD 048 / 97	2 x 12,5	45	97	47-52	51-54
Stud STD 075 / 124	2 x 12,5	45	124	48-52	51-57
Stud STD 075 / 124	2 x 12,5	60	124	49-53	56-57
Stud STD 100 / 124	2 x 12,5	45	124	48-55	52-57
Stud STD 100 / 124	2 x 12,5	80	124	50-56	56-58
Double stud STD 048 + 048 / 150	2 x 12,5	2 x 45	150	59-60	62-64
Double stud STD 075 + 075 / 203	2 x 12,5	60	203	57-58	64
Double stud STD 075 + 075 / 203	2 x 12,5	2 x 60	203	58-60	64-66
Double stud STD 100 + 100 / 253	2 x 12,5	80	253	58-60	65
Double stud STD 100 + 100 / 253	2 x 12,5	2 x 80	253	60-63	67

TECHNICAL INFORMATION

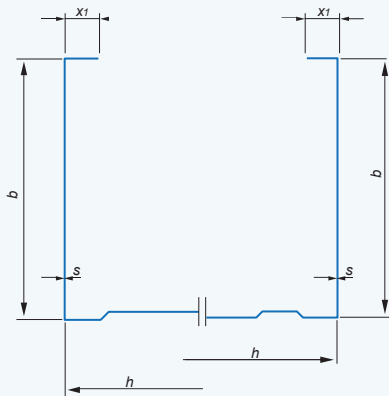
X1 = 6mm, X2 = 3mm



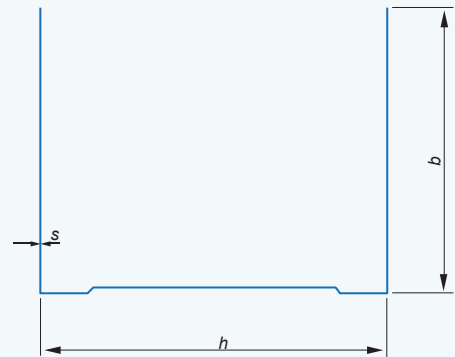
U-Stiffener profile (UA)



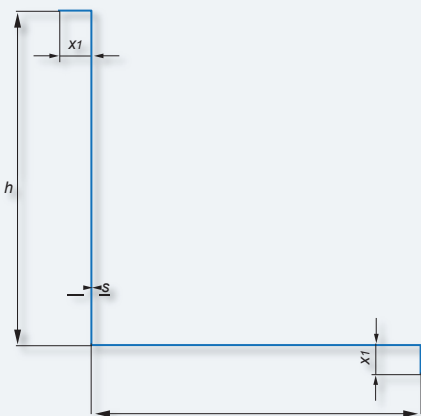
C- Ceiling profile



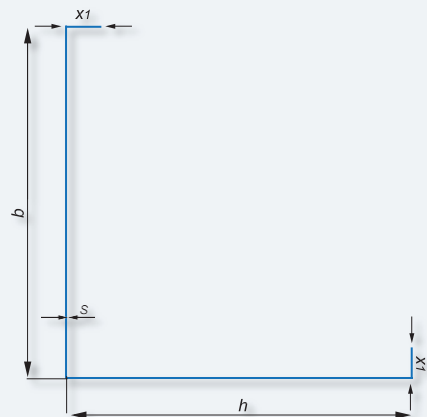
Stud profile (STD)



Runner profile (RNR) | Ceiling profile (MMC)



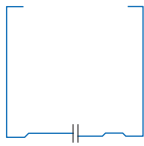
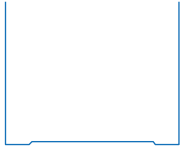
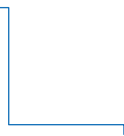
L-Wall inside corner profile



L-Wall outside corner profile

TECHNICAL INFORMATION

DIN 18182

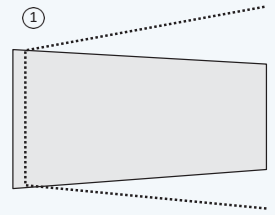
Profile		Web	Flange		Thickness						Return Flange	
Type	Code	Width			Code						Single	Double
		h±0.2	b	limiting	04	05	06	07	10	20	X1	X2
C-Ceiling profile 	CC 48	48	27	± 0.2	x	x	x	x	/	/	6	2
	CC 60	60			x	x	x	x	/	/		
Ceiling profile 	MCC 28	28	27	± 0.2	/	/	x	/	/	/	-	-
STUD profile 	Std 40	38.8	32	± 0.3	x	x	x	/	/	/	6	3
	Std 45	43.8			x	x	x	/	/	/		
	Std 50	48.8			x	x	x	x	x	x		
	Std 100	98.8	50		/	/	x	x	x	x	6	-
	Std 125	123.8			/	/	x	x	x	x		
RUNNER profile 	RNR 30	30	25	± 0.2	/	x	x	/	/	/		
	RNR 40	40	32	± 0.2	/	x	x	/	/	/		
	RNR 45	45			/	x	x	/	/	/		
	RNR 50	50			/	x	x	/	/	/		
	RNR 60	60			/	x	x	/	/	/		
	RNR 75	75			/	x	x	/	/	/		
	RNR 85	85			/	x	x	/	/	/		
	RNR 100	100			/	x	x	/	/	/		
	RNR 125	125			/	x	x	/	/	/		
L-Wall inside corner profile 	Lwi 50	50	50	± 0.2	/	/	x	/	/	/	6	-
	Lwi 60	60	60		/	/	x	/	/	/		
L-Wall outside- corner profile 	Lwa 50	50	50	± 0.2	/	/	x	/	/	/	6	-
	Lwa 60	60	60		/	/	x	/	/	/		
U- Stiffener profile to use in Ceiling and as door frame 	UA 30	28.8	27	± 0.1	/	/	/	/	/	x		
	UA 40	38.8			/	/	/	/	/	x		
	UA 45	43.8			/	/	/	/	/	x		
	UA 50	48.8			/	/	/	/	/	x		
	UA 60	58.8			/	/	/	/	/	x		
	UA 75	73.8			/	/	/	/	/	x		
	UA 85	83.8			/	/	/	/	/	x		
	UA 100	98.8			/	/	/	/	/	x		
	UA 120	123.8	40		/	/	/	/	/	x		

TECHNICAL INFORMATION

Installation of Partition

1 Chalk line

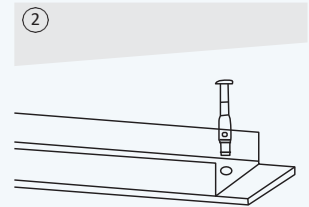
Mark the dry wall line on the floor. Mark the door opening. Mark the dry wall line on the ceiling.



2 Runner Profile

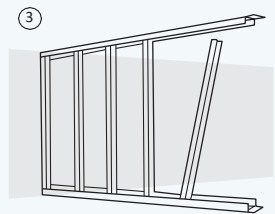
Stick the seal to the runner and attach it to the floor and ceiling with anchor each 1000 mm.

Mark stud locations top and bottom.



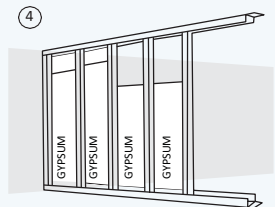
3 Stud Profile

Set the stud minimum 15 mm in the ceiling runner. Space the stud either 300 mm, 400mm or 600mm. On center, note allowable wall height table. Ensure that all studs are facing the same way. So that, the screw begins on the stable side of the stud.



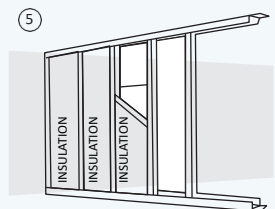
4 Gypsum Board first Wall Side

Gypsum Board should be attached advancing toward the open end of the stud.



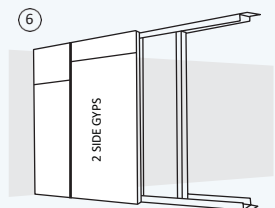
5 Sound Proof Insulation

Set insulation to improve the soundproofing and fireproofing.



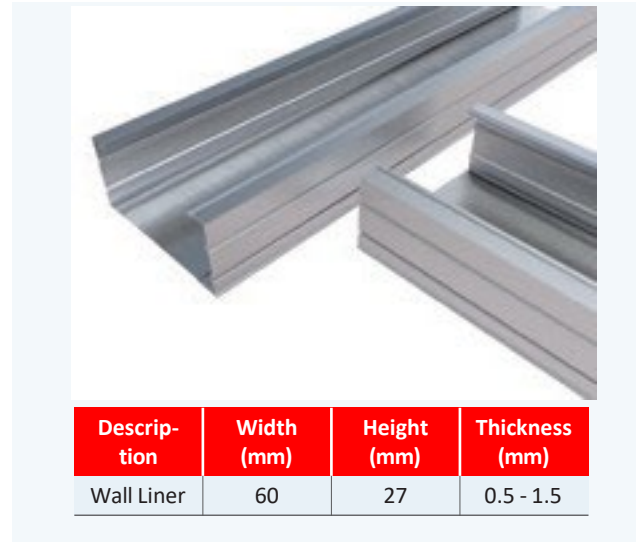
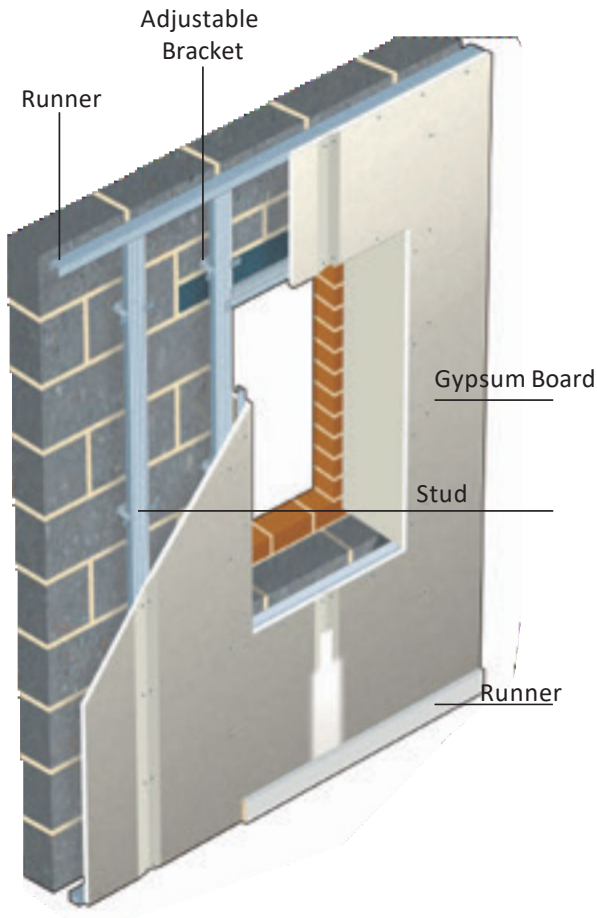
6 Gypsum Board second Wall Side

The dry wall receive a further stability through the planking of the second side. The final leveling of the joints and screw heads provide the permanent stability.

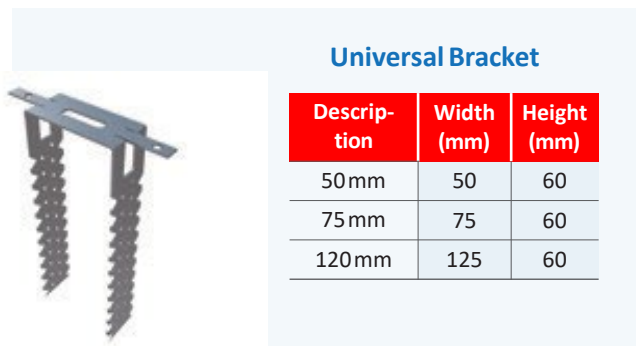


TECHNICAL INFORMATION

Wall Lining System



Description	Width (mm)	Height (mm)	Thickness (mm)
Wall Liner	60	27	0.5 - 1.5



Universal Bracket

Description	Width (mm)	Height (mm)
50mm	50	60
75mm	75	60
120mm	125	60

Wall Liner are made from Pre-Galvanized Steel complying with ASTM A 653 Z 120 / Z 180 / Z 275

Advantages

- Quick and easy to install.
- Cost effective.
- Suitable for internal use in all types of application.
- Adjustable and can make cavity up to 120 mm.
- Can be used on masonry or concrete, black granite with uneven wall surfaces.
- Mineral wool for thermal acoustic insulation can be incorporated.

Installation

- Wall need to be treated from any damp before installation.
- Ceramic tiles or paint can be applied directly with crack resistant surface due to low thermal capacity.
- Established the depth of the cavity and fix all liner track at 600 mm centres to the floor and ceiling with the shallow towards the wall.
- At max 800 mm centre, fix brackets to the wall. Only one bracket is required for heights up to 2.4 m, though brackets not exceed 1200 mm centres on walls more than 2.4 meters high.
- Cut Wall Liner section to length and slot it into the top and bottom track. Adjust brackets to suit board tolerances before final tightening.
- Bend the overhang, if a bracket protrudes beyond the face.
- Fix 1200 mm wide plasterboard at suitable centres using 25 mm drywall screws.

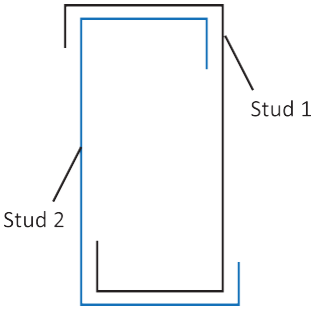
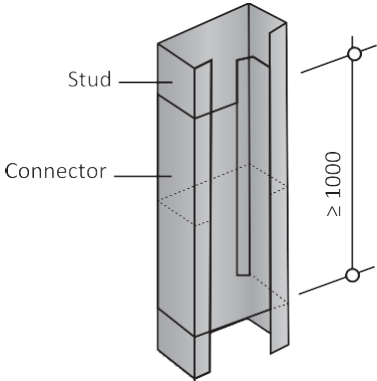
TECHNICAL INFORMATION

Material requirement per m²

Profile	Profile			Plaster board (m²)		Fast screw	Strip	Joint	Felt	Headline	Socket	Mineral
	Stud		Runner	12.5	15		joint	filler	strip	dowels		fiber
	Stud spacing				18							
	600(cm)	400(cm)	(m)	(m²)	20	pieces	(m)	Kg	(m)	pieces	(m)	(m²)
Single stud, single board	m	m	m	m²	m²	pieces	(m)	Kg	(m)	pieces	(m)	(m²)
STD 048	1,8	2,4	0,8	2,0	/	26	3,3	0,5	1,3	1,6	0,8	1,0
STD 075	1,8	2,4	0,8	2,0	/	26	3,3	0,5	1,3	1,6	0,8	1,0
STD 100	1,8	2,4	0,8	2,0	/	26	3,3	0,5	1,3	1,6	0,8	1,0
Single stud, double board												
STD 048	1,8	2,4	0,8	4,0	(4,0)	9 + 26	3,3	0,65	1,3	1,6	0,8	1,0
STD 075	1,8	2,4	0,8	4,0	(4,0)	9 + 26	3,3	0,65	1,3	1,6	0,8	1,0
STD 100	1,8	2,4	0,8	4,0	(4,0)	9 + 26	3,3	0,65	1,3	1,6	0,8	1,0
Single stud, three board												
STD 100	1,8	2,4	0,8	6,0	/	9 + 9 + 26	3,3	0,8	1,3	1,6	0,8	1,0
Double stud, double board												
STD 048+048	3,6	4,8	1,6	4,0	(4,0)	9 + 26	3,3	0,65	5,4	3,2	0,8	1,0
STD 075+075	3,6	4,8	1,6	4,0	(4,0)	9 + 26	3,3	0,65	5,4	3,2	0,8	1,0
STD 100+100	3,6	4,8	1,6	4,0	(4,0)	9 + 26	3,3	0,65	5,4	3,2	0,8	1,0

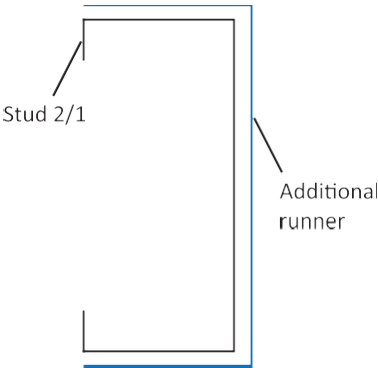
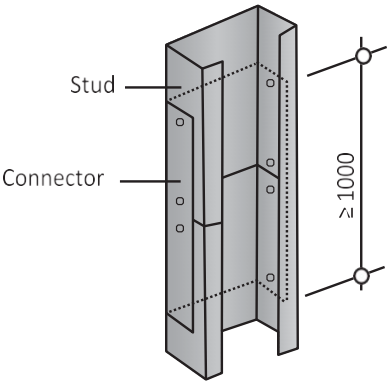
Stud Splicing for wall height > 5m

Stud connection
for wall height > 5m



Stud Splicing for wall height < 5m

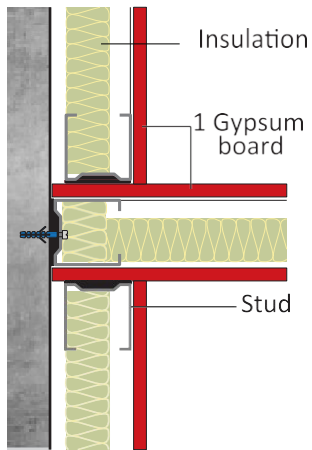
Stud connection
for wall height < 5m



TECHNICAL INFORMATION

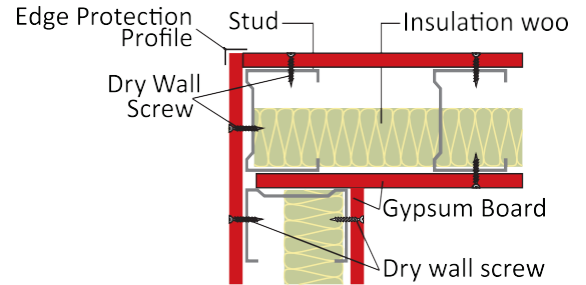
Corner

Conjunction
for wall height > 5m

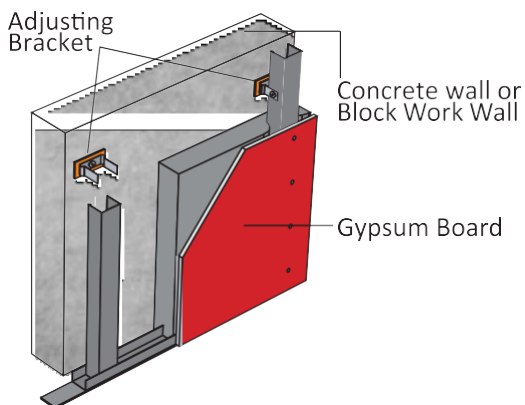


Corner

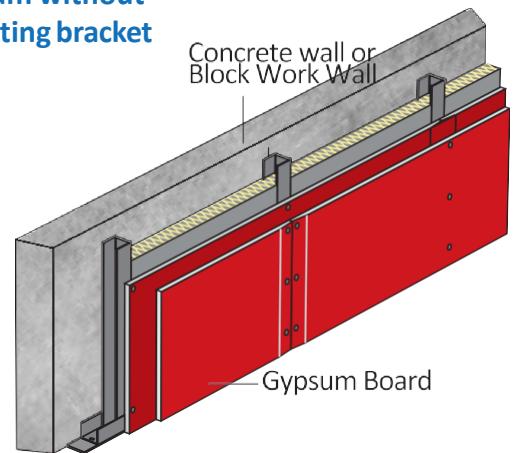
Corner for wall
height > 5m



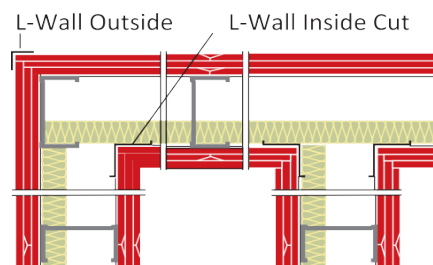
Chase wall gypsum with adjusting bracket



Chase wall gypsum without adjusting bracket



Edge Protection Profile

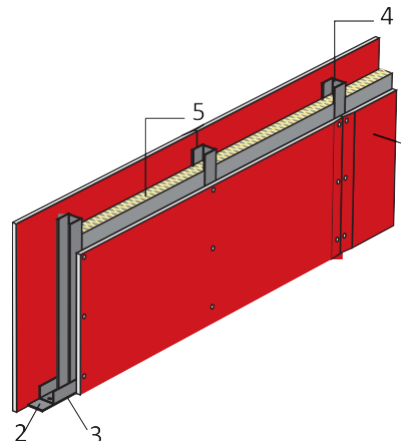
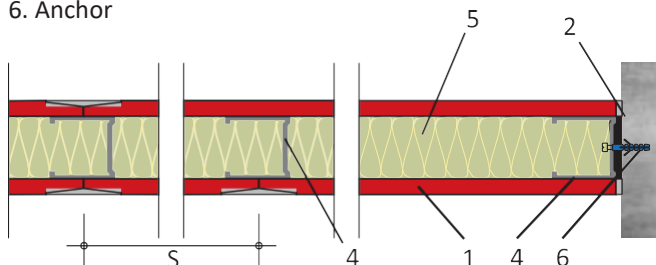


TECHNICAL INFORMATION

Wall Detail:

Single Support One Layer Gypsum Board

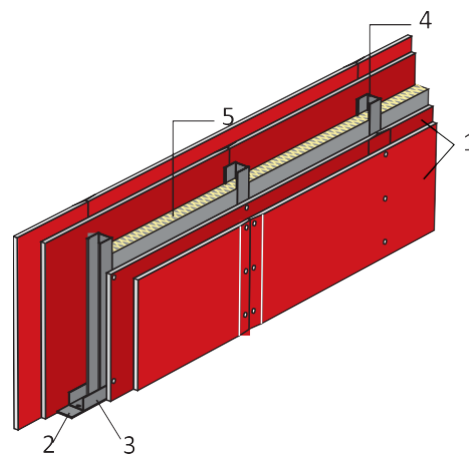
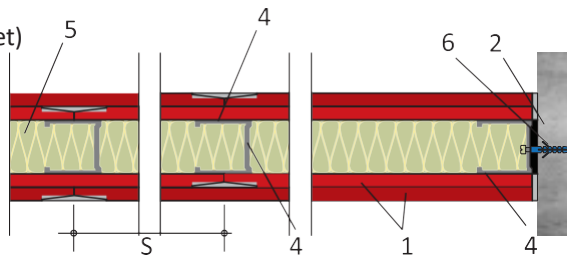
1. One layer planking gypsum board
2. Seal
3. Runner (RNR)
4. Stud (STD)
5. Insulation soundproofing
6. Anchor



Wall Detail:

Single Support Two Layers Gypsum Board

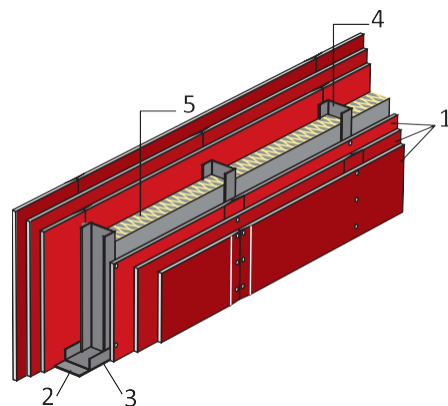
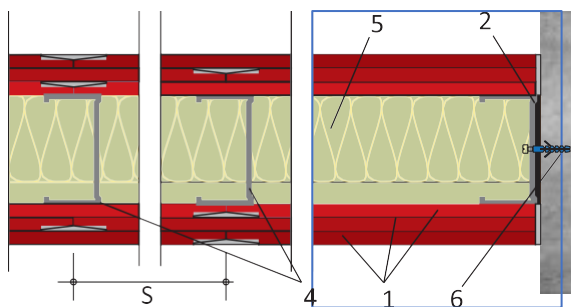
1. Two layer planking gypsum board double
2. Seal
3. Runner
4. Stud
5. Insulation
6. Anchor
7. Base profile (Socket)



Wall Detail:

Single Support Three Layers Gypsum Board

1. Three layer planking gypsum board
2. Seal fire resistance
3. Runner
4. Stud
5. Insulation soundproofing
6. Anchor
7. Base profile (Socket)

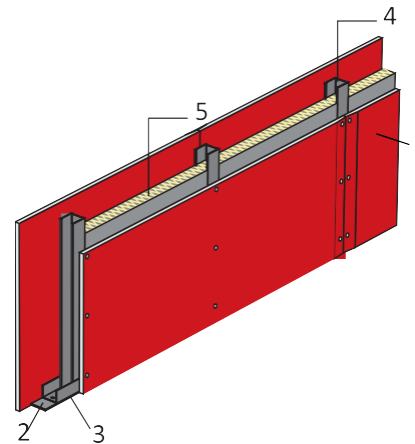
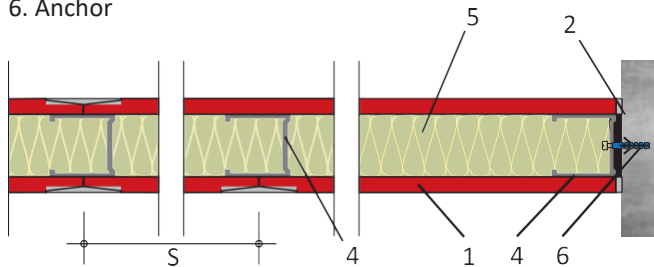


TECHNICAL INFORMATION

Wall Detail:

Single Support One Layer Gypsum Board

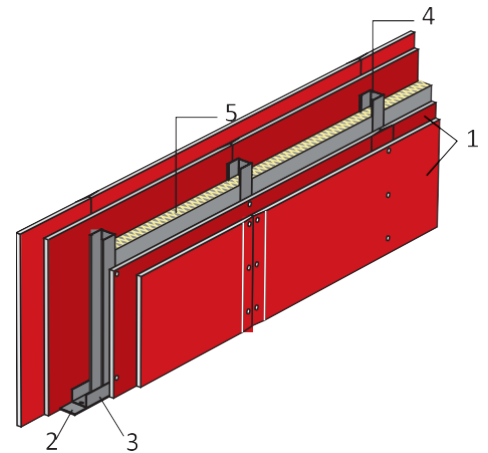
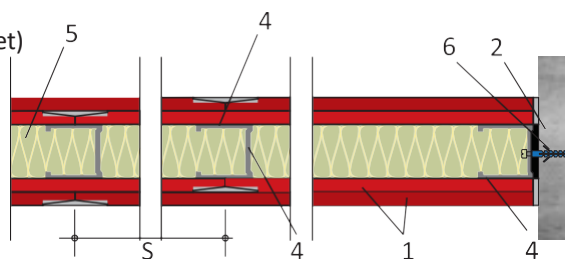
1. One layer planking gypsum board
2. Seal
3. Runner (RNR)
4. Stud (STD)
5. Insulation soundproofing
6. Anchor



Wall Detail:

Single Support Two Layers Gypsum Board

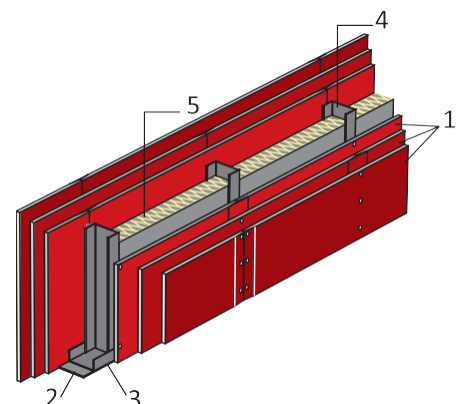
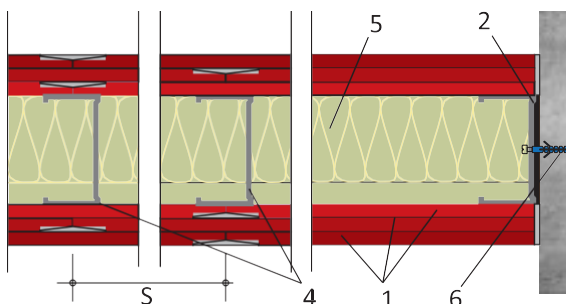
1. Two layer planking gypsum board double
2. Seal
3. Runner
4. Stud
5. Insulation
6. Anchor
7. Base profile (Socket)



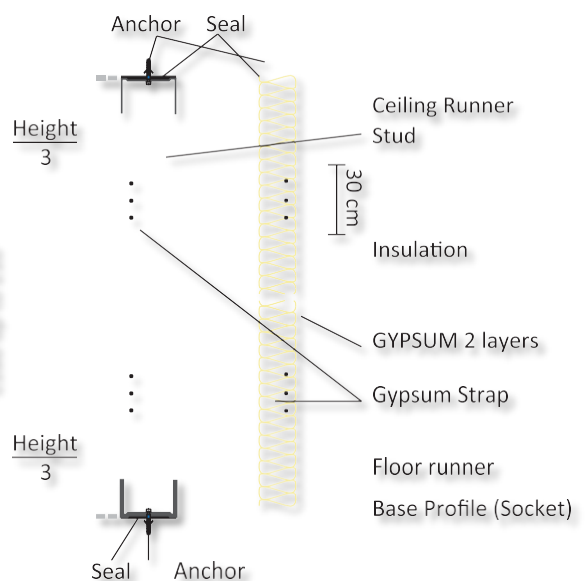
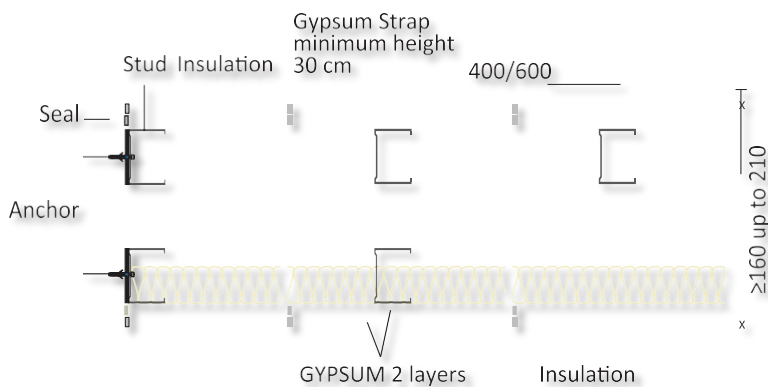
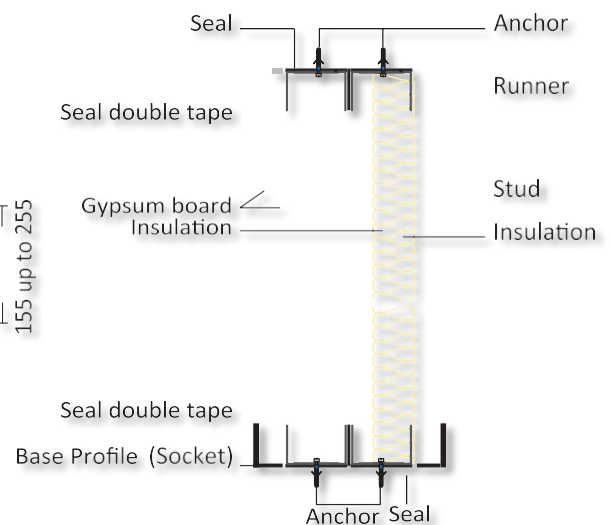
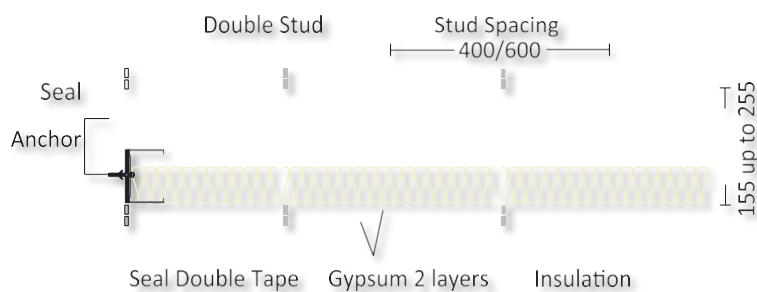
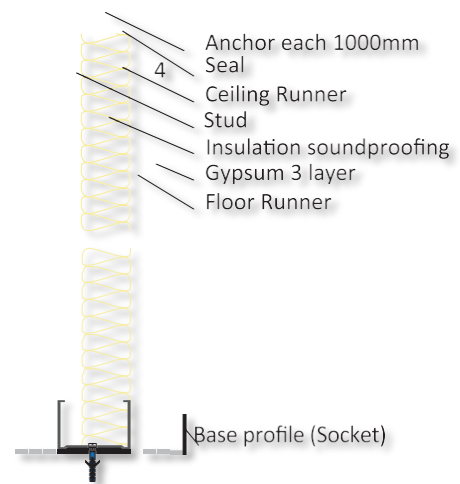
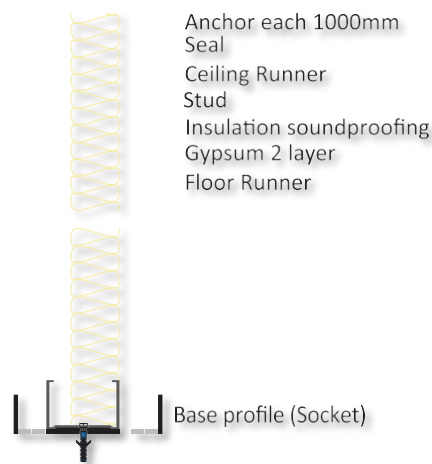
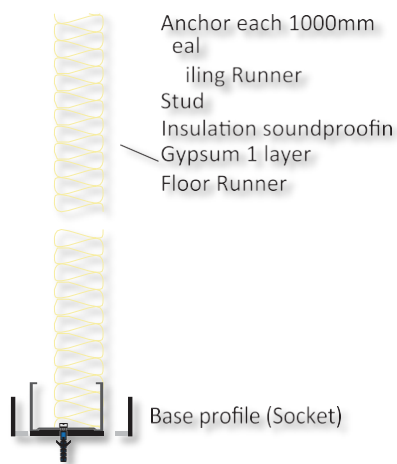
Wall Detail:

Single Support Three Layers Gypsum Board

1. Three layer planking gypsum board
2. Seal fire resistance
3. Runner
4. Stud
5. Insulation soundproofing
6. Anchor
7. Base profile (Socket)



TECHNICAL INFORMATION

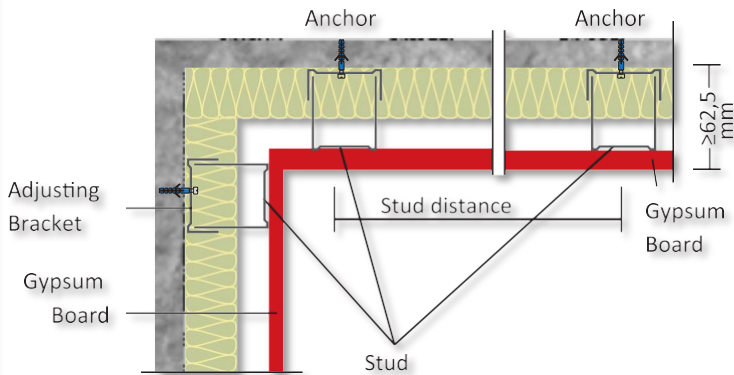


TECHNICAL INFORMATION

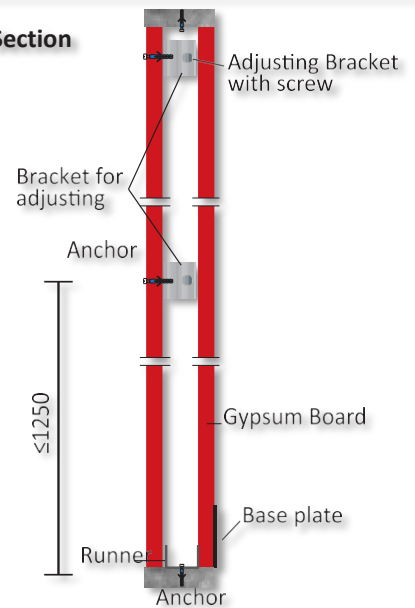
Chase Wall one layer

Plan Section

Gypsum sections with adjusting bracket

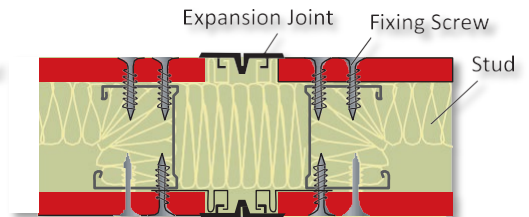
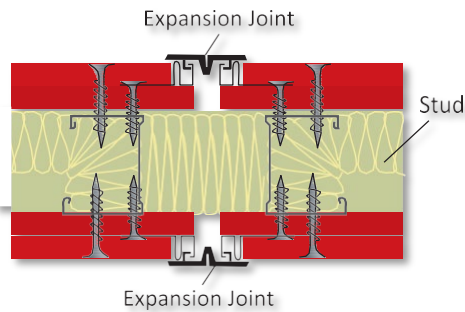
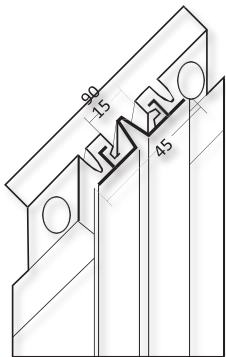


Cross Section

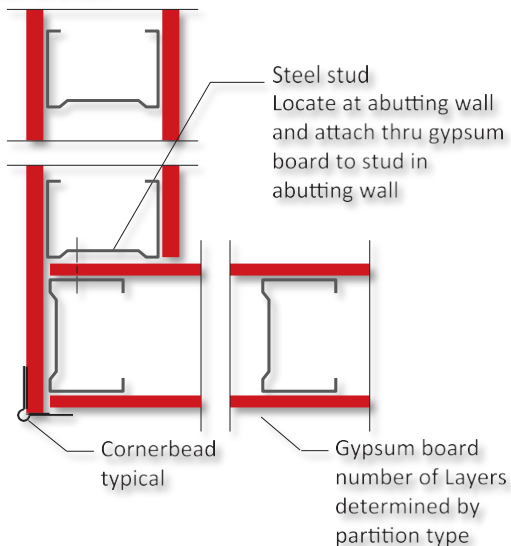


Expansion Joint

Expansion Joint not fire rated



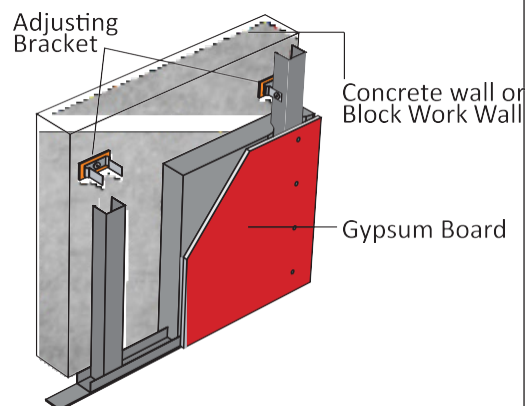
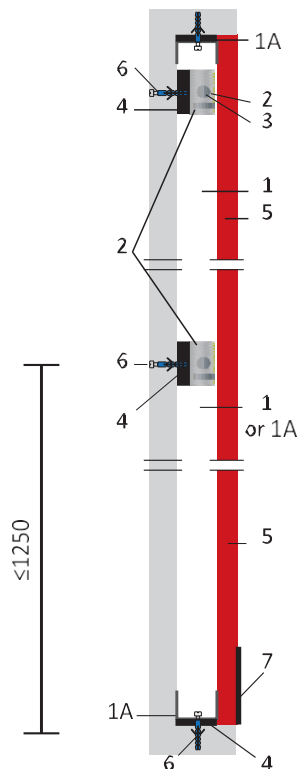
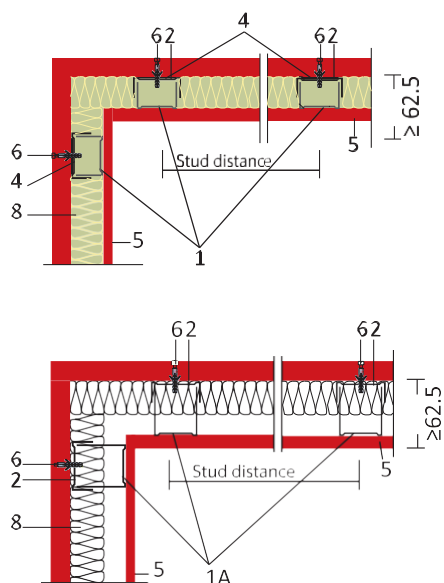
Corner Detail



TECHNICAL INFORMATION

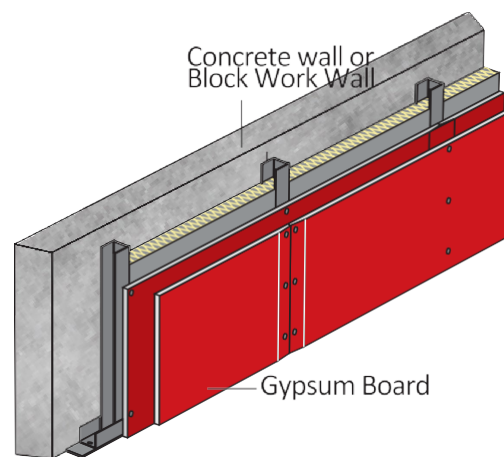
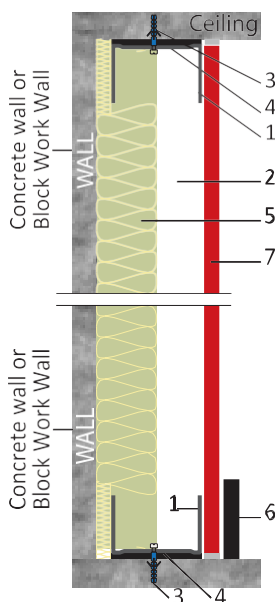
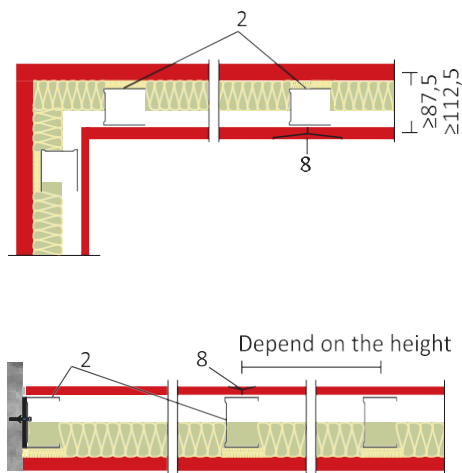
Chase Wall with Adjusting Bracket

- | | |
|----------------------|-----------------|
| 1. Ceiling channel | 5. Gypsum board |
| 1 A. Runner | 6. Anchor |
| 2. Adjusting bracket | 7. Base profile |
| 3. Dry wall screw | 8. Insulation |
| 4. Seal | |



Chase Wall without Adjusting Bracket

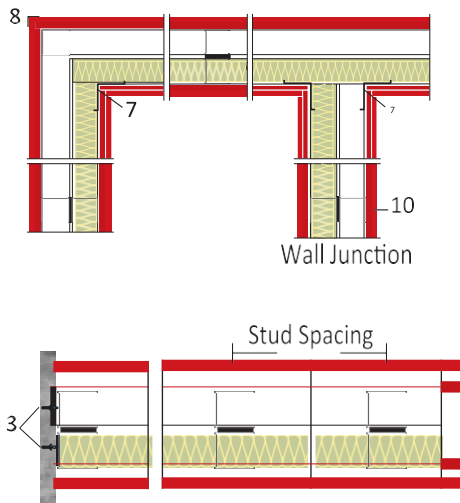
- | | |
|-----------|--------------------------|
| 1. Runner | 5. Insulation |
| 2. Stud | 6. Base profile (socket) |
| 3. Anchor | 7. Gypsum board |
| 4. Seal | 8. Joint filler |



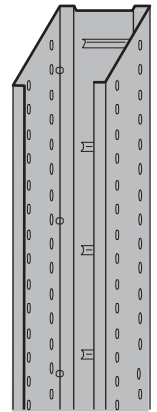
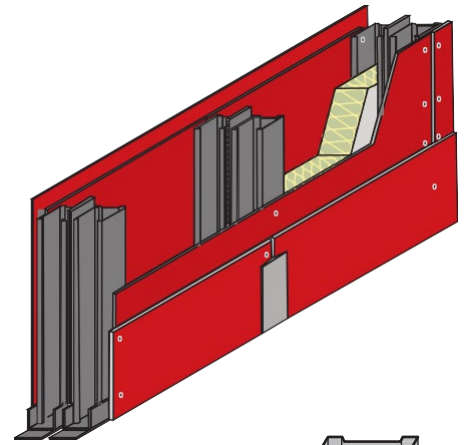
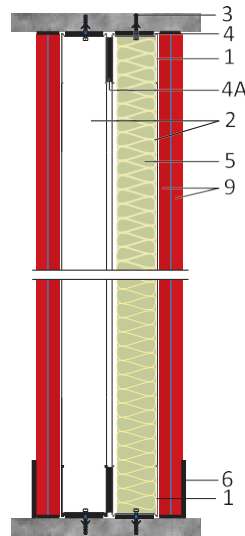
TECHNICAL INFORMATION

Double Stud for Increased Acoustic (Soundproofing)

- | | |
|----------------------|----------------------------|
| 1. Runner | 5. Insulation |
| 2. Stud | 6. Base profile (socket) |
| 3. Anchor | 7. L angle inside corner |
| 4. Seal | 8. Edge protection profile |
| 4a. Seal double tape | 9. Gypsum board |

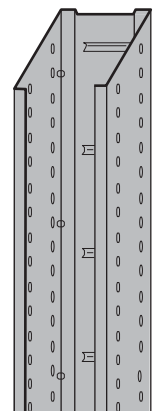
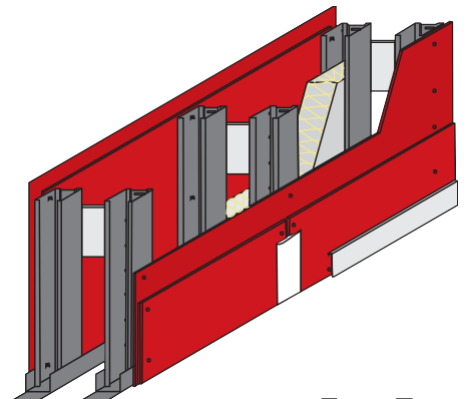
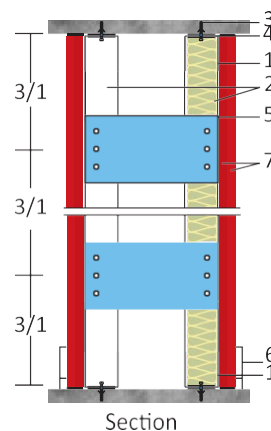
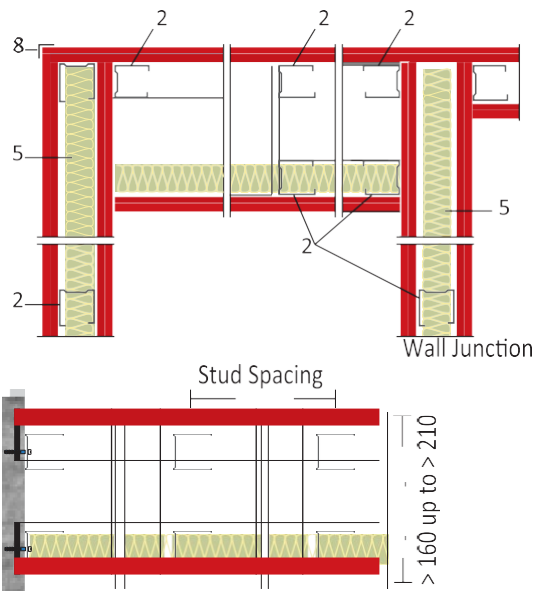


10. Joint filler



Installation Wall

- | | |
|---------------|----------------------------|
| 1. Runner | 6. Base profile (socket) |
| 2. Stud | 7. Gypsum board |
| 3. Anchor | 8. Edge protection profile |
| 4. Seal | |
| 5. Insulation | |

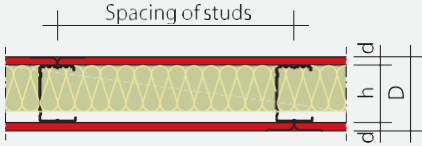


TECHNICAL INFORMATION

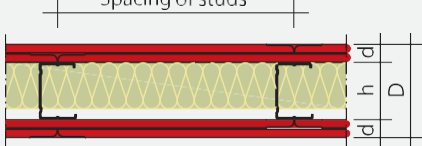
Technical Data / Sound Protection / Thermal Insulation

	Technical Data					Sound Protection proof R _{w,R}	Insulation nominal thickness	Thermal Insulation U Value
	Dimension				Weight			
	Wall	Stud	Board					
	thickness	cavity	thickness	Type				
	D	h	d		approx.			
	(mm)	(mm)	(mm)		kg/m² 1	dB 2)	mm 3)	W/(m²K)

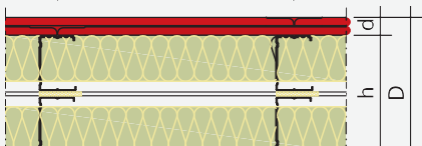
Metal Stud Partiton Single metal stud frame - single layer cladding

	75	50	12.5	GKB GKF	25	41	40	0.66
	100	75				42	40	0.65
						43	60	0.50
						42	40	0.65
	125	100				43	60	0.49
						44	80	0.40

Metal Stud Partiton Single metal stud frame - double layer cladding

	100	50	2 x 12.5	GKB GKF	45	50	40	0.61
	125	75				51	40	0.60
						52	60	0.47
						51	40	0.60
	150	100				52	60	0.46
						53	80	0.38

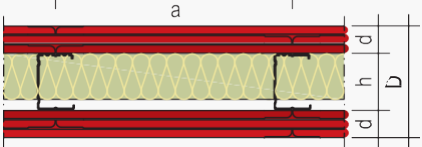
Metal Stud Partiton Double metal stud frame - double layer cladding

	155	105	2 x 12.5	GKB GKF	48	59	2X40	0.37
	205	155				58	60	0.47
						61	2X60	0.27
						60	80	0.37
	255	205				63	2X80	0.21

Technical Data / Sound Protection / Thermal Insulation

	Technical Data					Sound Protection proof R _{w,R}	Insulation nominal thickness	Thermal Insulation U value
	Dimension				Weight			
	Wall	Stud	Board					
	thicness	Cavity	Thickness	Type				
	D	h	d		Approx.			
	(mm)	(mm)	(mm)		kg/m² 1	dB 2)	mm 3)	W/(m²K)

Metal Stud Partiton Single metal stud frame - tripple layer gypsum board

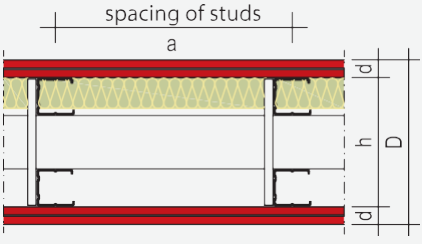
	125	50	3 x 12.5	GKB GKF	66	51	40	0.57
	150	75				53	60	0.44
	172	100				55	80	0.36

GKB: Gypsum Board.

GKF: Gypsum Board Fire Proof (Fire Resistance).

TECHNICAL INFORMATION

Installation Wall Double metal stud frame - double layer gypsum board

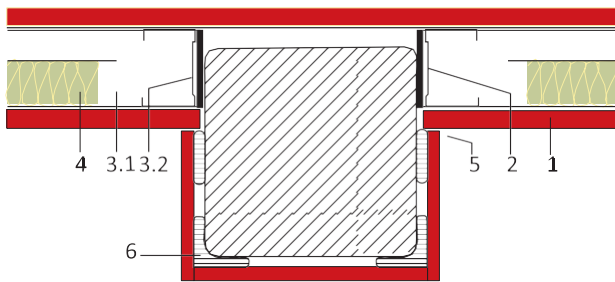
	$\geq 220 \geq 170$	2 x 12.5	GKB GKF	49	52	40	0.60
--	---------------------	-----------------	--------------------	-----------	-----------	-----------	-------------

GKB: Gypsum Board.

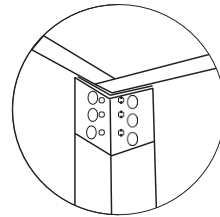
GKF: Gypsum Board Fire Proof (Fire Resistance).

Dry Wall Metal Stud Combined With Columns

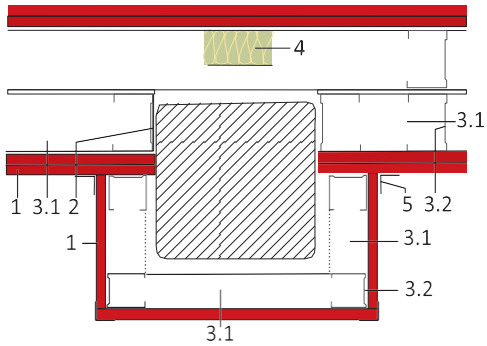
Single Stud One Layer Gypsum Board



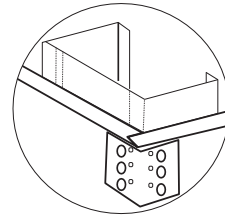
Corner bead leveling on corner



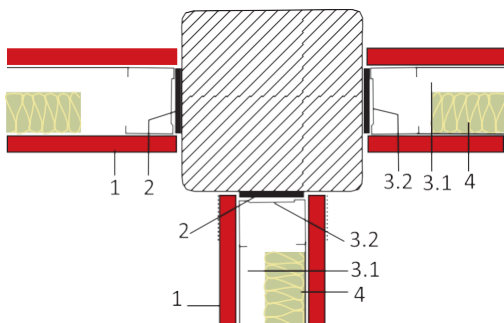
Double Stud Two Layers Gypsum Board



Corner bead leveling on corner



Dry Wall Metal Stud Combined with Columns

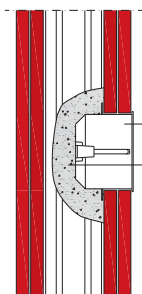


- 1 . Gypsum Board / single stud one or two layer
- 2 . Seal
- 3 . Main profile
 - 3 . 1 Runner
 - 3 . 2 Stud
- 4 . Insulation | Mineral Wool | Sound Proofing
- 5 . Corner mesh (if necessary) | Leveling on corner
- 6 . Binder

TECHNICAL INFORMATION

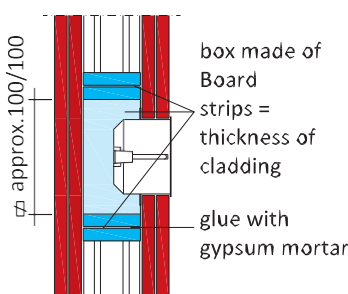
Installation of Power Sockets

Partitions with insulation min. B2 resp. without insulation



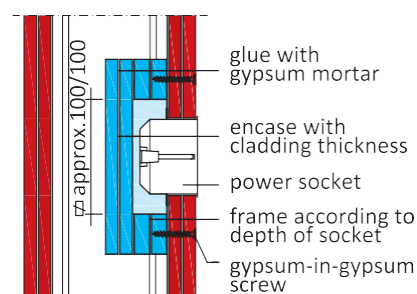
power socket
gypsum mortar with
the same thickness
as the cladding

power sockets covering with
gypsum mortar



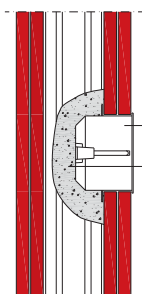
box made of
Board
strips =
thickness of
cladding
glue with
gypsum mortar

Power sockets covering with
gypsum boards



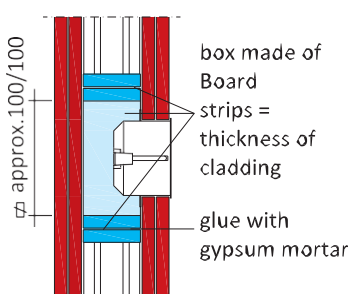
glue with
gypsum mortar
encase with
cladding thickness
power socket
frame according to
depth of socket
gypsum-in-gypsum
screw

Only for single metal stud partitions



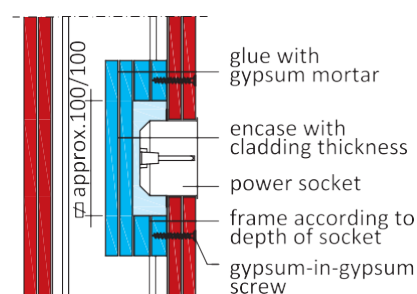
power socket
gypsum mortar with
the same thickness
as the cladding

power sockets covering with
gypsum mortar



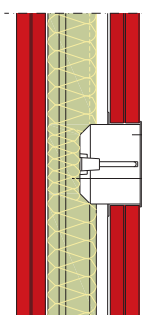
box made of
Board
strips =
thickness of
cladding
glue with
gypsum mortar

Power sockets covering with
gypsum boards



glue with
gypsum mortar
encase with
cladding thickness
power socket
frame according to
depth of socket
gypsum-in-gypsum
screw

Partitions according to DIN 4102-4 with mineral wool insulation melting point ≥ 10000 c



power socket
mineral wool
compressed
(≥ 30 mm)

Insulation layers that are necessary for fire protection should be preserved but are allowed to be compressed down to ≥ 30 mm.

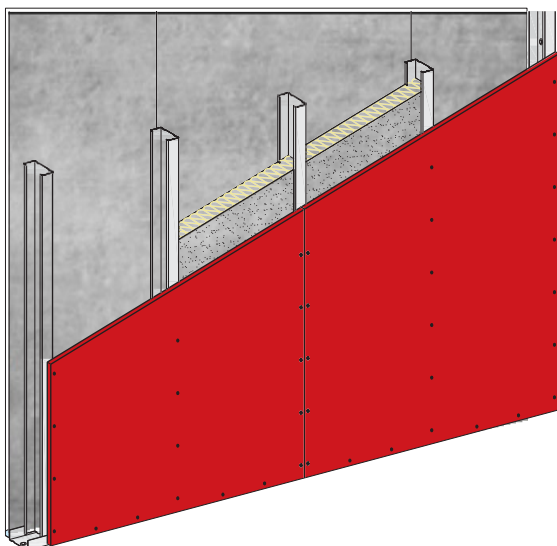
NOTE

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

TECHNICAL INFORMATION

Single Metal Stud Frame, Single Layer

Sheet thickness 0.8 mm



Area A*:

Areas with a low collection of people like homes, hotels, offices,...

Area B**:

Areas with a large collection of people like school rooms, exhibition halls, selling spaces (mall),...

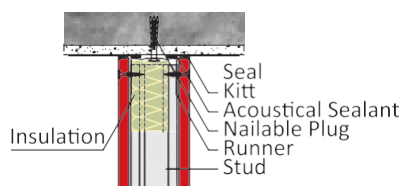
Wall heights

Stud	Spacing of studs (cm)	Maximum wall heights			
		Without fire protection		Incl. fire protect	
		Installation zone		I	II
Metal Thickness 0.6 mm		I (m)	II (m)	I (m)	II (m)
 Stud 50	60	3	2.75	3	2.75
	40	4	3.75	-	-
	30	5	4.75	4	-
 Stud 75	60	4.5	3.75	4.5	3.75
	40	6	5.25	-	-
	30	7	6.25	5	-
 Stud 100	60	5	4.25	5	4.25
	40	6.5	5.75	-	-
	30	8	7.25	5	-

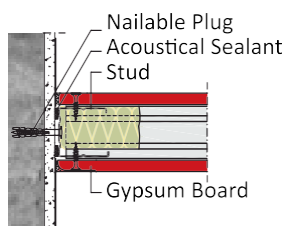
Bold printed values are maximum allowable heights of metal stud partitions according to DIN 18183

Details

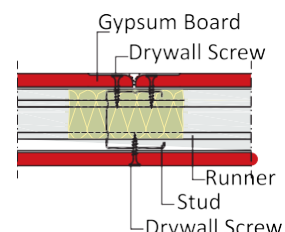
Connection to ceiling



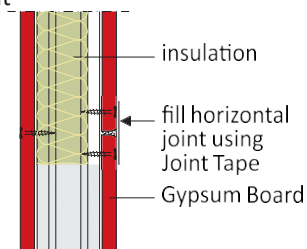
Connection to solid wall



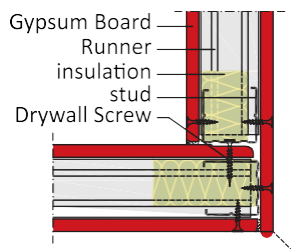
Joint



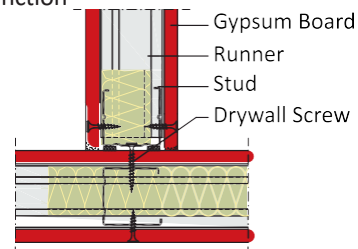
Joint



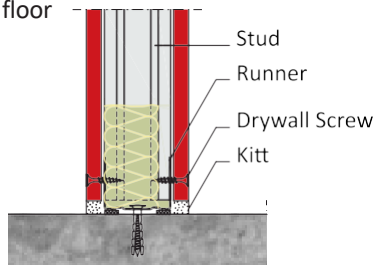
Corner



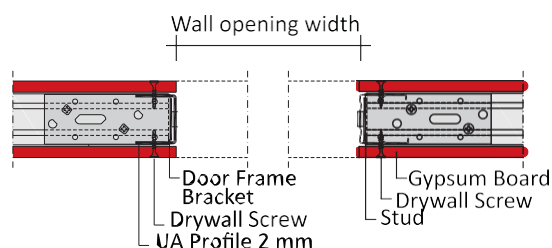
T-junction



Connection to floor



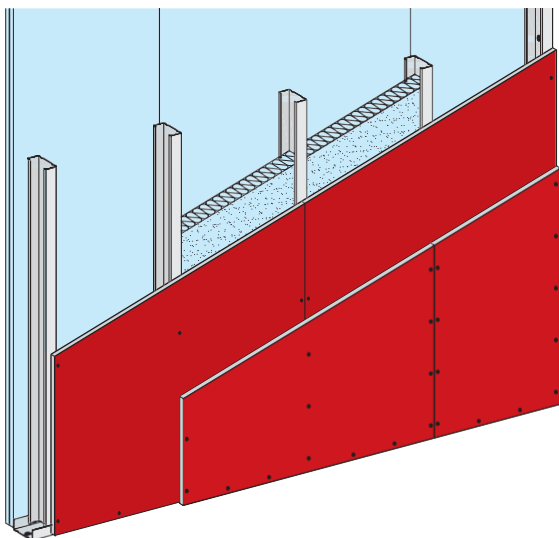
Door opening with UA profile



TECHNICAL INFORMATION

Single Metal Stud Frame, Double Layer

Sheet thickness 0.8 mm



Area A*:

Areas with a low collection of people like homes, hotels, offices,...

Area B**:

Areas with a large collection of people like school rooms, exhibition halls, selling spaces (mall),...

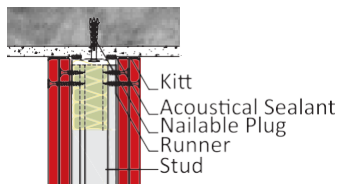
Wall heights

Stud	Spacing of studs (cm)	Maximum wall heights			
		Without fire protection		Incl. fire protect	
		Installation zone		I	II
Metal		I	II	I	II
Thickness 0.6 mm		(m)	(m)	(m)	(m)
 Stud 50	60	3	2.75	3	2.75
	40	4	3.75	-	-
	30	5	4.75	4	-
 Stud 75	60	4.5	3.75	4.5	3.75
	40	6	5.25	-	-
	30	7	6.25	5	-
 Stud 100	60	5	4.25	5	4.25
	40	6.5	5.75	-	-
	30	8	7.25	5.5	-

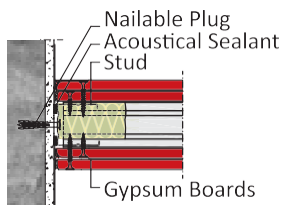
Bold printed values are maximum allowable heights of metal stud partitions according to DIN 18183

Details

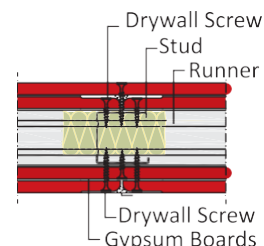
Connection to ceiling



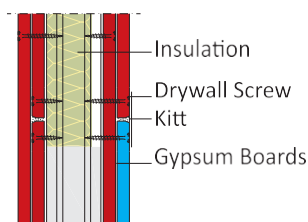
Connection to solid wall



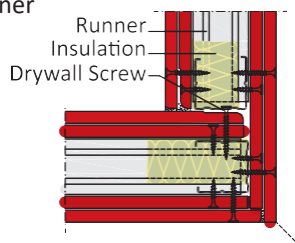
Joint



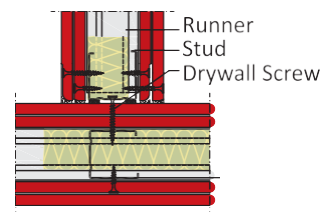
Joint



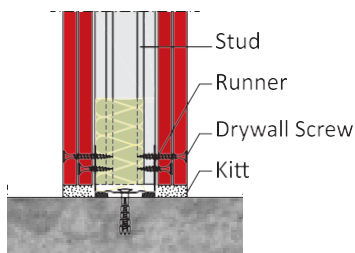
Corner



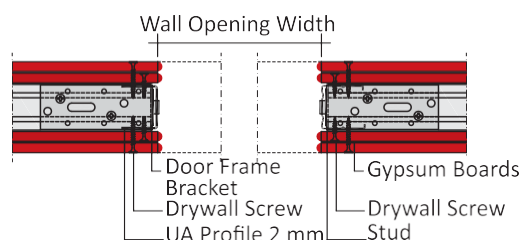
T-junction



Connection to floor



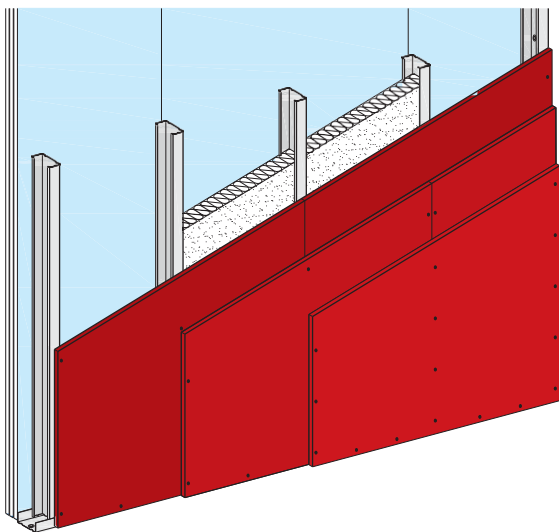
Door opening with UA profile



TECHNICAL INFORMATION

Single Metal Stud Frame, Triple Layer

Sheet thickness 0.8 mm



Area A*:

Areas with a low collection of people like homes, hotels, offices,...

Area B**:

Areas with a large collection of people like school rooms, exhibition halls, selling spaces (mall),...

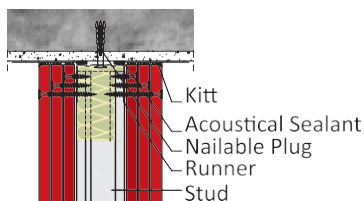
Wall heights

Stud	Spacing of studs (cm)	Maximum wall heights			
		Without fire protection		Incl. fire protect	
		Installation zone		I	II
Metal		I	II	I	II
Thickness 0.6 mm	(cm)	(m)	(m)	(m)	(m)
 Stud 50	62.5	4.5	4	4	3.5
	41.7	5.5	5	5	4.5
	31.25	6.5	6	6	5.5
 Stud 75	62.5	6	5	5.5	5
	41.7	7	6.5	6.5	6
	31.25	8	7.5	7.5	7
 Stud 100	62.5	7	6.5	6.5	5.75
	41.7	8	7.5	7.5	7
	31.25	9.5	9	9	8.5

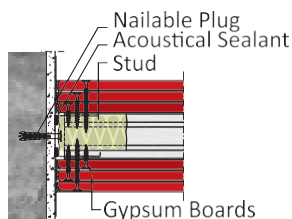
Bold printed values are maximum allowable heights of metal stud partitions according to DIN 18183

Details

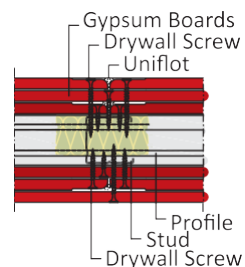
Connection to ceiling



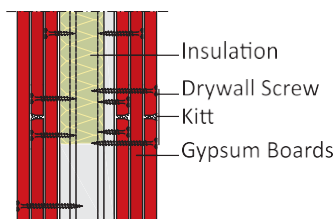
Connection to solid wall



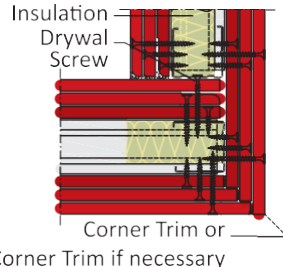
Joint



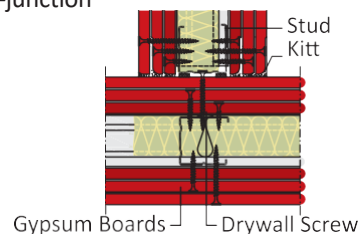
Joint



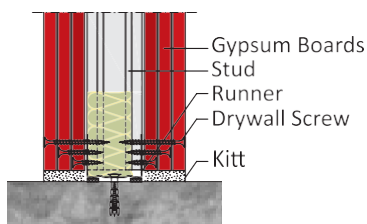
Corner



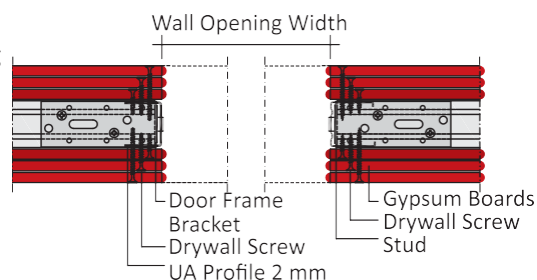
T-junction



Connection to floor



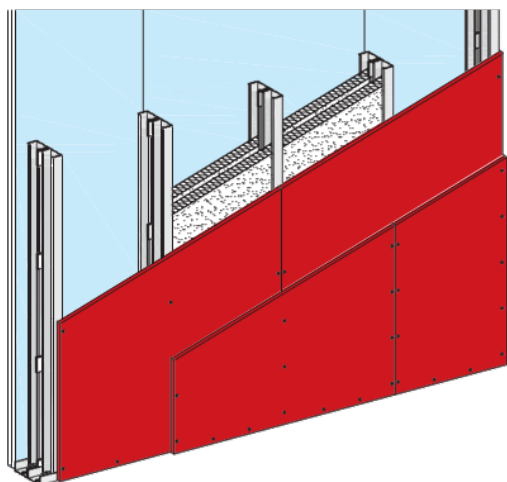
Door opening with UA profile



TECHNICAL INFORMATION

Double Metal Stud Frame, Double Layer (version 1)

Sheet thickness 0.8 mm



Area A*:

Areas with a low collection of people like homes, hotels, offices,...

Area B**:

Areas with a large collection of people like school rooms, exhibition halls, selling spaces (mall),...

Wall heights

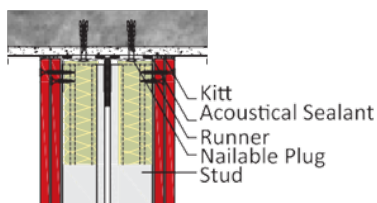
Stud	Spacing of studs (cm)	Maximum wall heights			
		Without fire protection		Incl. fire protect	
		Installation zone		I	II
Metal Thickness 0.6 mm		I (m)	II (m)	I (m)	II (m)
 Stud 50	62.5	3.3 (4.5)	2.8 (4)	3.3 (4.5)	2.8 (4)
 Stud 75	62.5	4.5 (6)	3.3 (5.5)	4.5 (6)	4 (5.5)
 Stud 100	62.5	5.5 (6.5)	5 (6)	5.5 (6.5)	5 (6)

Bold printed values are recommended by SFSP

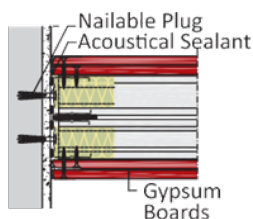
() values are maximum allowable heights of metal stud partitions acc. to DIN 18183

Details

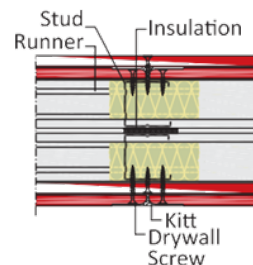
Connection to ceiling



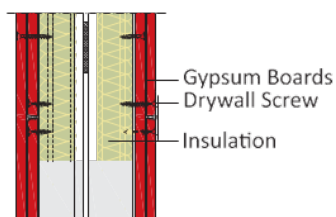
Connection to solid wall



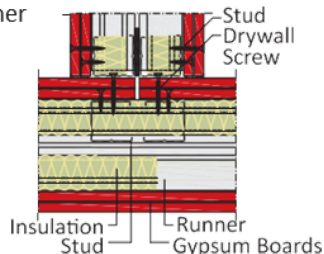
Joint



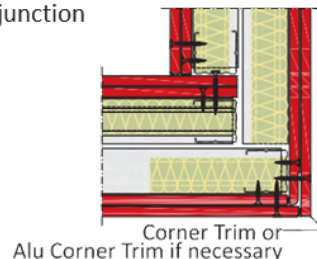
Joint



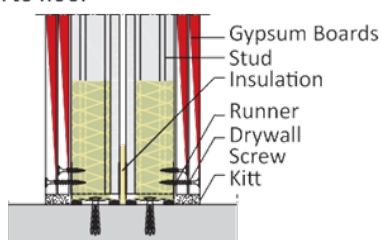
Corner



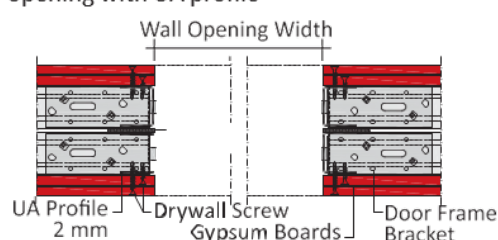
T-junction



Connection to floor



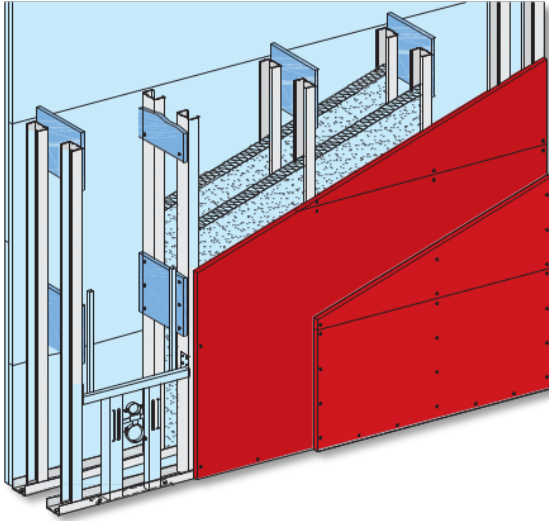
Door opening with UA profile



TECHNICAL INFORMATION

Double Metal Stud Frame, Double Layer (version 2)

Sheet thickness 0.8 mm



Area A**:

Areas with a low collection of people like homes, hotels, offices,...

Area B**:

Areas with a large collection of people like school rooms, exhibition halls, selling spaces (mall),...

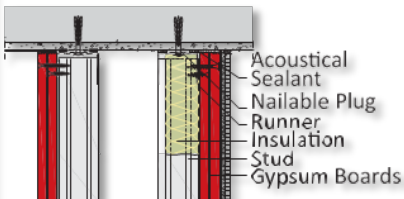
Wall heights

Stud	Spacing of studs (cm)	Maximum wall heights			
		Without fire protect.		Incl. fire protect	
		Installation zone		I	II
Metal Thickness 0.6 mm		I (m)	II (m)	I (m)	II (m)
 Stud 50	62.5	4.5	4	4.5	4
 Stud 75	62.5	6	5.5	6	5.5
 Stud 100	62.5	6.5	6	6.5	6

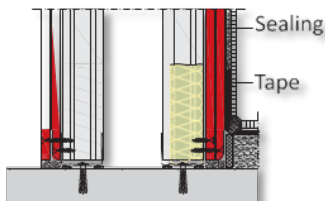
Sheet thickness 0.8 mm

Details

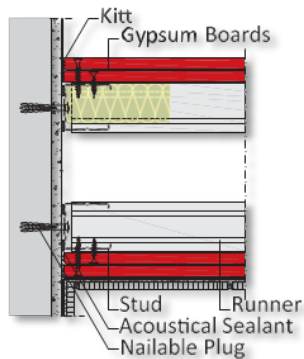
Connection to ceiling



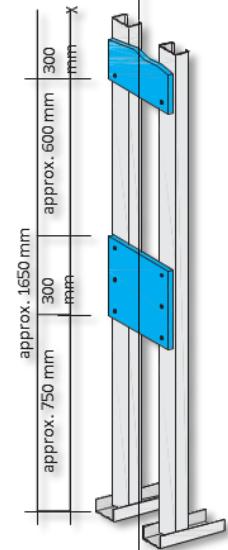
Connection to floor



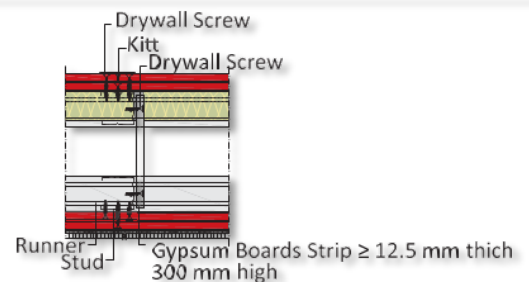
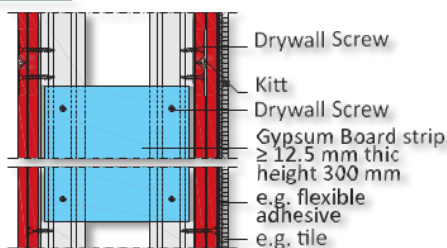
Connection to solid wall



Stud reinforcement

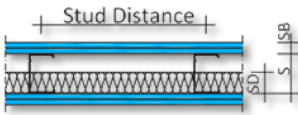
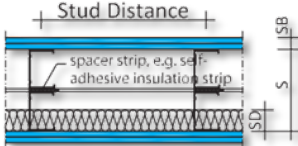


Joint and stud reinforcement



TECHNICAL INFORMATION

Sound Protection: DIN 4109 Supplement 1, Amendment A1: 2003-09, Table 23 | Dimensions in mm

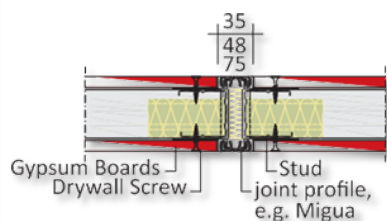
Examples	SB ¹⁾	Stud ²⁾	Minimum clearance between gypsum board	Minimum insulation thickness	R _{w1R}
			S	SD	dB
	12.5	Stud 50 x 0.6	50	40	39
		Stud 75 x 0.6	75	40	39
		Stud 100 x 0.6	100	40	41
				60	42
				80	43
	2x12.5	Stud 50 x 0.6	50	40	46
		Stud 75 x 0.6	75	40	46
		100x0.6	100	60	49
				40	47
				60	49
	2x12.5	Stud 50 x 0.6	105	80	58
		Stud 100 x 0.6	205	80	59

1) Thickness of cladding according to DIN 18180, applied according to DIN 18181, joints filled. The weight per unit area of the boards has to be at least 8,5 kg/m².

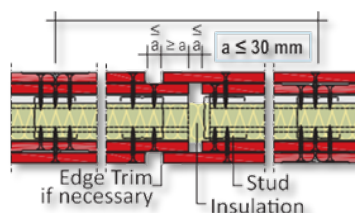
2) Letter symbol for C studs and metal thickness according to DIN 18182-1 dimensions in mm.

Details: Movement Joints / T-Junctions / Corners

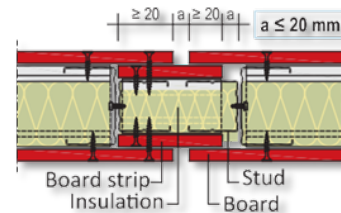
Movement joint with joint profile



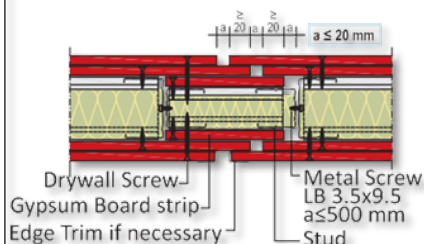
Movement joint



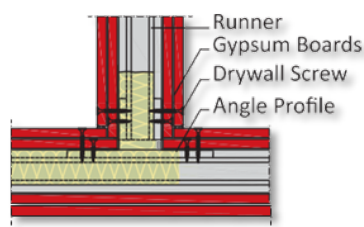
F30 movement joint



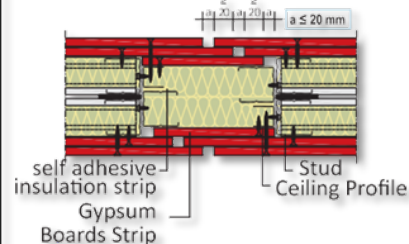
F90 movement joint



T-junction with angle profiles



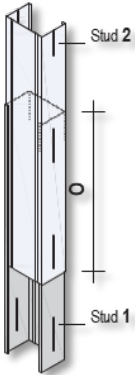
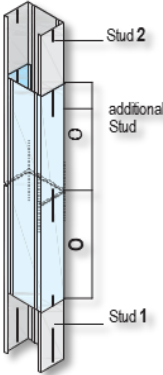
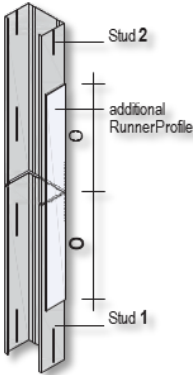
F90 movement joint



TECHNICAL INFORMATION

Stud Joints / Partitions without Connection to Ceiling

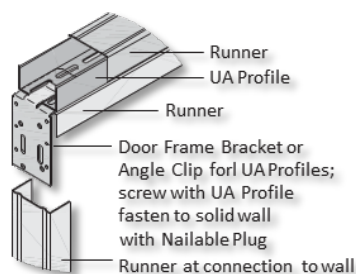
Vertical stud joints

Stud	Overlap O	Variation 1	Variation 2	Variation 3
Stud 50	≥ 50	2 Studs interlaced as box	2 studs butt joint interlaced with additional Stud	2 studs butt joint interlaced with additional Runner
Stud 75	≥ 75			
Stud 100	≥ 100			
Displace stud joints vertically fit-up aid: Crimp, rivet or screw Studs at overlap  Stamp Pliers				

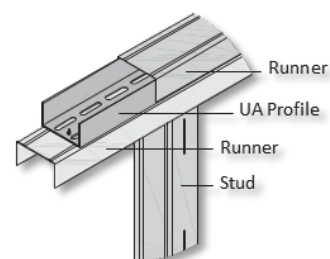
Partitions without connection to ceiling

Max. partition length (span of UA profile)		
UA profile	Maximum allowable partition width Cladding	
	12.5 mm	2 x 12.5 mm
Metal thickness 2 mm	(m)	(m)
UA 50	3	4
UA 75	4.5	5.5
UA 100	5	6.5

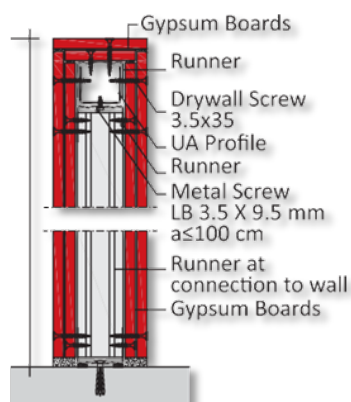
Detail "A"



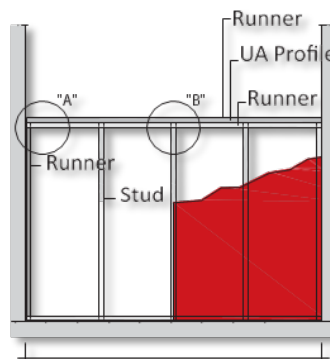
Detail "B"



Vertical section



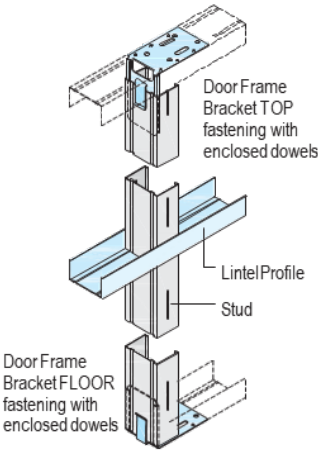
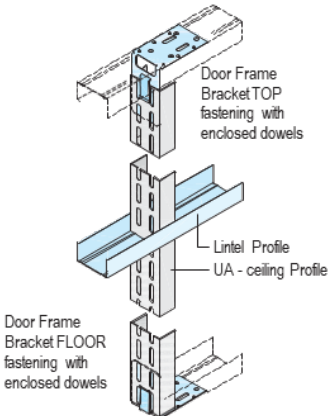
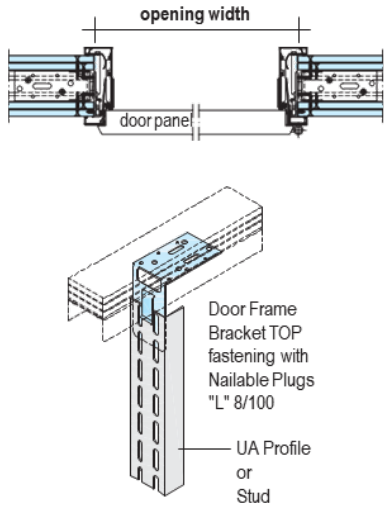
View



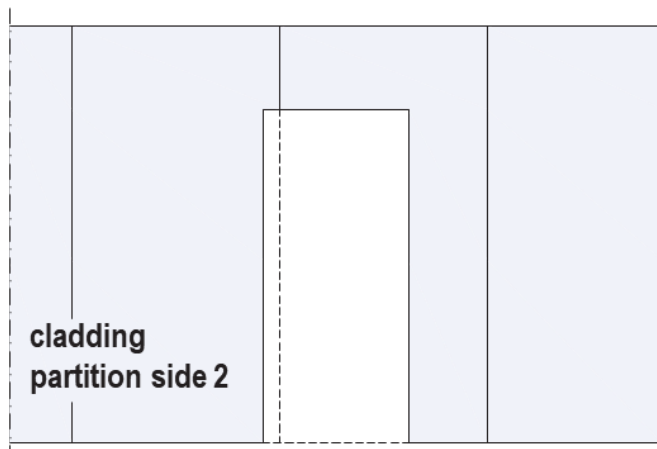
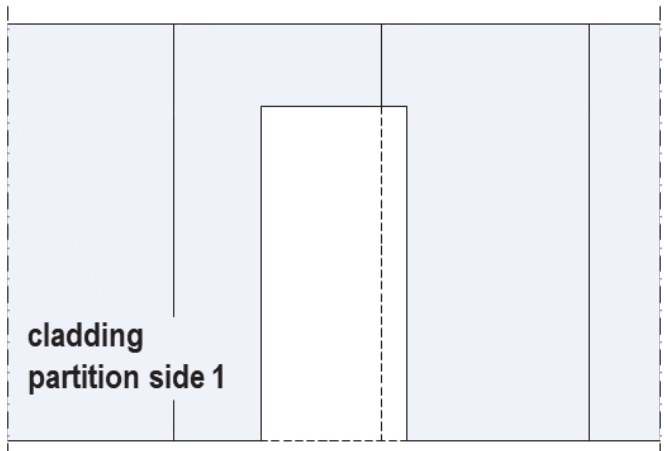
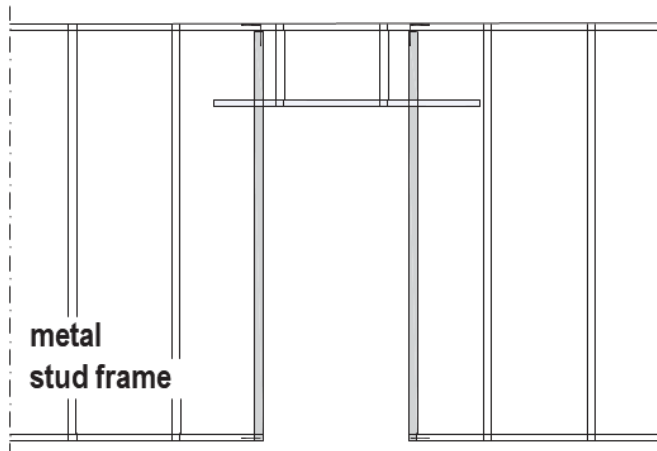
TECHNICAL INFORMATION

Door Openings: Stud Construction Cladding / Door Panel Weight

Stud construction

Variation stud	Variation UA	Deflection head
- Acc. to DIN 18340 Wall heights ≤ 2.60 m Door width ≤ 0.885 m Door panel weight ≤ 25 kg 	Remove plastic strip from Door Frame Bracket - Acc. to DIN 18340 Wall heights ≤ 2.60 m Door width ≤ 0.885 m Door panel weight ≤ 25 kg 	Possible with Stud or 4A ceiling profile 

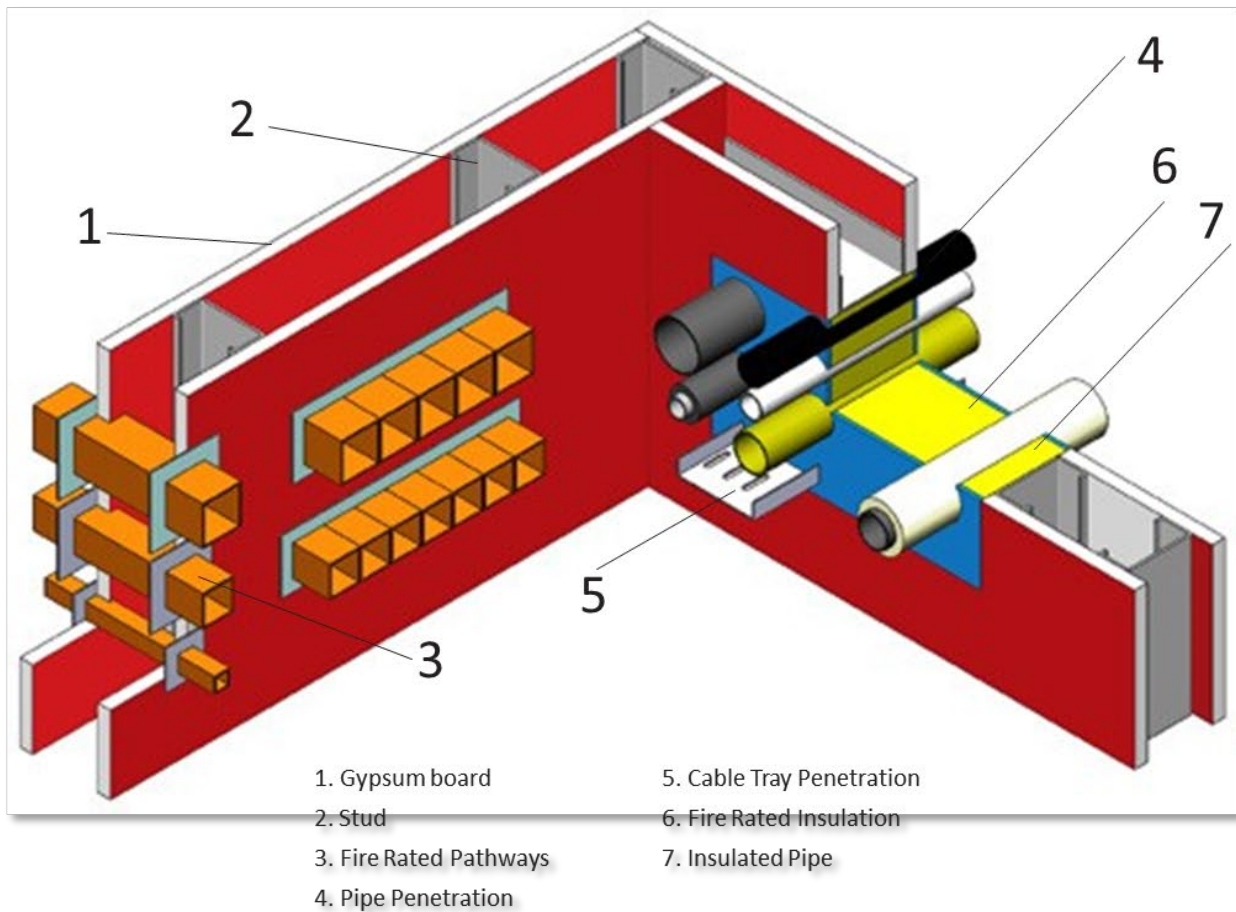
Scheme Drawings



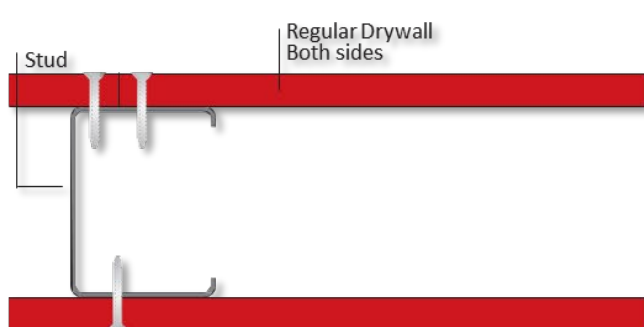
TECHNICAL INFORMATION

Drywall system with fire stop solutions

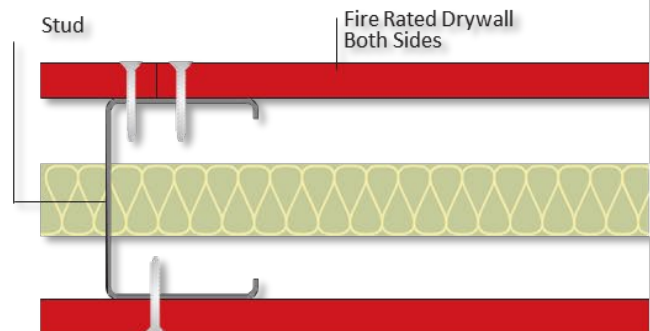
For cabling and wiring installation and the penetration of piping and ducts



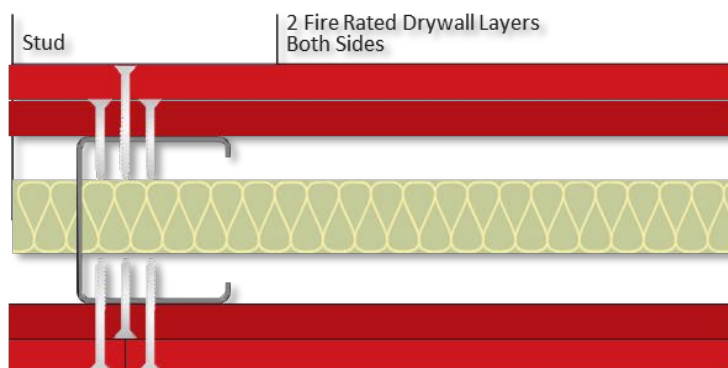
Drywall Design for Fire Safety Partition



Fire Performance



Maximum Fire Performance





sales@bodovaltd.com
<https://www.bodovaltd.com/>

