

Partitions with mixed panelling

Fire resistance duration: 30 to 90 min. (EI30 – EI120)

$R_{w,R} \leq 54 \text{ dB}$

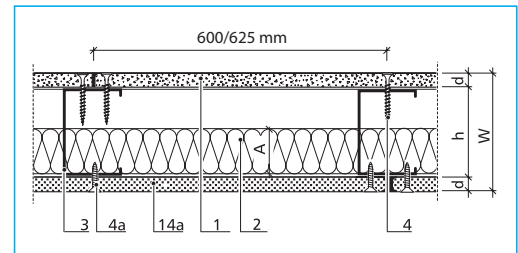
Abbreviations

- W Wall thickness (mm)
- d Total thickness of the panelling
- A Thickness of insulation layer (mm)
- h Profile bridge height (mm)

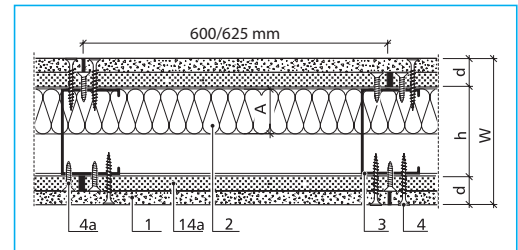
Description of material

- 1 AQUAPANEL® Cement Board Indoor
- 2 Insulation material
- 3 C wall profile
- 4 AQUAPANEL® Maxi Screw
- 4 a Quick-build screw 3.5 x 25 mm
- 6 Insulation strips e.g. sealing tape/partition wall kit
- 7 Glued joint with AQUAPANEL® Joint Adhesive (PU)
- 9 Permanently flexible sealant
- 14 a Knauf fire protection plate GKF, 12.5 mm

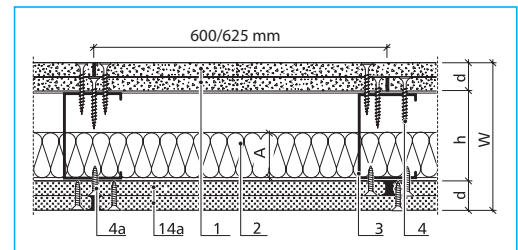
Mixed construction F30
 1 x 12.5 mm AQUAPANEL®
 Cement Board Indoor +
 1 x 12.5 mm GKF*



Mixed construction F90
 1 x 12.5 mm AQUAPANEL®
 Cement Board Indoor +
 1 x 12.5 mm GKF both sides*



Mixed construction F90
 2 x 12.5 mm AQUAPANEL®
 Cement Board Indoor +
 2 x 12.5 mm GKF*



(*) National regulations Germany ABP

Physical properties

AQUAPANEL® Cement Board Indoor	Profile	Wall thickness (mm)	Mineral wool (A1, Melting point >1000°C)		Fire resistance class Test certificate (*)	Sound insulation $R_{w,R}$ dB Test certificate	
			Thickness (mm)	Gross density (kg/m³)			
1 x 12.5 mm AQUAPANEL® Cement Board Indoor + 1 x 12.5 mm GKF	CW 50/06	75	50	22	-	44	420001276-4
	CW 75/06	100	40	40	F30 P-3239-5122	-	-
			60	25	F30 P-3239-5122	-	-
	CW 100/06	125	40	40	F30 P-3239-5122	-	-
60			25	F30 P-3239-5122	-	-	
80			14	-	45	420001590-3	
2 x 12.5 mm AQUAPANEL® Cement Board Indoor + 2 x 12.5 mm GKF	CW 50/06	100	50	22	-	51	420001276-5
	CW 75/06	125	60	25	F90 P-3243-5162	-	-
			80	14	-	50	420001590-4
	CW 100/06	150	60	25	F90 P-3243-5162	-	-
			80	14	-	50	420001590-4
1 x 12.5 mm AQUAPANEL® Cement Board Indoor + 1 x 12.5 mm GKF on both sides	CW 75/06	125	60	25	F90 P-3243-5162	-	-
			80	14	-	50	420001590-4
	CW 100/06	150	60	25	F90 P-3243-5162	-	-
			80	Partition felt	-	51	420001590-5
Noise control profile	150	2 x 40	100	F90 P-3243-5162	54	0065.05-P244	

Maximum wall height for wall with mixed panelling in m (including tiles)

AQUAPANEL® Cement Board Indoor + 12.5 mm GKF	without fire protection requirement			
	1 x 12.5	2 x 12.5	1 x 12.5	2 x 12.5
	mm per wall side		mm per wall side	
	Installation range 1		Installation range 2	
1) CW-profile 50/0.6	3.00	4.00	2.75	3.50
2) CW-profile 75/0.6	4.50	5.50	3.75	5.00
3) CW-profile 100/0.6	5.00	6.50	4.25	5.75

Material requirements per square metre of wall

Material requirements for wall with mixed panelling with AQUAPANEL® Cement Board Indoor and GKF, without offcut and loss

Material	Single layer	Double layer
CW-profile	2.0 lfm	2.0 lfm
UW-profile	0.7 lfm	0.7 lfm
Sealing tape/partition wall kit	0.7 lfm	0.7 lfm
Approved fixing method	1.6 pieces	1.6 pieces
AQUAPANEL® Cement Board Indoor	1 m ²	2 m ²
AQUAPANEL® Maxi Screws	15 pieces	30 pieces
AQUAPANEL® Joint Adhesive (PU)	50 ml	100 ml
AQUAPANEL® Interior Primer	approx. 100 g	approx. 50 g or 100 g
Insulation material	1 m ²	1 m ²
Permanently flexible sealant		
Knauf fire protection plate GKF, 12.5 mm	1 m ²	2 m ²
Quick-build screws	15 pieces	30 pieces

Special notes

When building the metal framework, follow the standard guidelines supplied by Knauf.

In rooms with continuous high levels of damp or chemical contamination such as commercial kitchens, swimming pools, saunas or chemical laboratories, use profiles with increased corrosion protection.

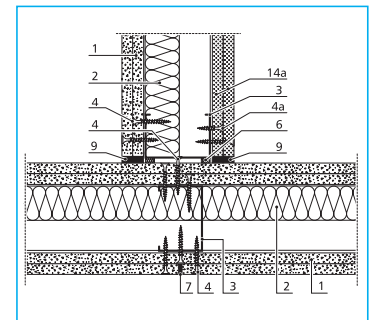
Non-load-bearing partition walls should have expansion joints at least every 7.2/7.5 metres.

Building expansion joints must also be applied.

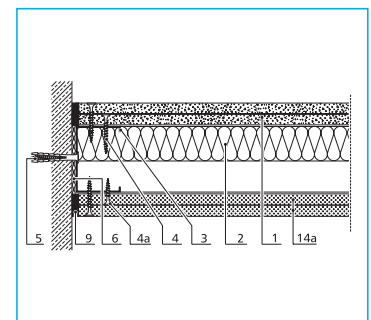
A further improvement in the sound reduction level of 1 to 3 dB can be achieved through using special sound insulation profiles, e.g. Knauf MV profile.

The stated construction physical characteristics, static and construction properties can only be achieved when exclusive use is made of recommended products.

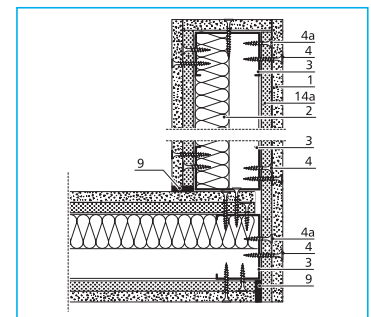
To fasten other console loads such as sanitary items, separate measures are required (see. Page 18).



T connection



Connection to solid walls



Corner formation and wall connection