

A COMPLETE SYSTEM SOLUTION FOR WALLS AND CEILINGS

Interior wall systems			Wall thickness (mm)	Profile CW	Layer planking	Mineral wool (mm) / (kg/m³)	Maximum wall height (cm)*		Sound insulation R _w * (dB)	Fire protection Rating ^(a)
No.	Description	Detail					without fire protection requirement	with fire protection requirement		
W 381	Metal single stud frame wall, singlelayer planking		75	50 / 0.6	12.5 mm AQUAPANEL®	none	325 ^(e)	325	-	EI 30 ^(b) EI 30 ^(c) EI 30 ^(c)
			100	75 / 0.6			400	400 / 500 ^(c)		
			125	100 / 0.6			510	400 / 500 ^(c)		
W 381	Metal single stud frame wall, singlelayer planking		75	50 / 0.6	12.5 mm AQUAPANEL®	(50) / (14) (60) / (14) (80) / (14)	325 ^(e)	325	43 46 ± 3 ** 48 ± 3 **	- EI 30 ^(c) EI 30 ^(c)
			100	75 / 0.6			400	400 / 500 ^(c)		
			125	100 / 0.6			510	400 / 500 ^(c)		
W 383	Metal single stud frame wall, single-layer mixed planking		75	50 / 0.6	12.5 mm AQUAPANEL® 12.5 mm Knauf Piano GKF	(50) / (14) (60) / (14) (80) / (14)	315 ^(e)	300	44 47 ± 3 ** 48 ± 3 **	EI 30 ^(d) / EI 30 ^(c) EI 45 ^(d) / EI 30 ^(b) EI 30 ^(c)
			100	75 / 0.6			400	300		
			125	100 / 0.6			500	300		
W 382	Metal single stud frame wall, doublelayer planking		100	50 / 0.6	2 x 12.5 mm AQUAPANEL®	none	400	400	-	EI 90 ^(b) EI 90 ^(c) EI 90 ^(c)
			125	75 / 0.6			465	400 / 500 ^(c)		
			150	100 / 0.6			685	400 / 500 ^(c)		
W 382	Metal single stud frame wall, doublelayer planking		100	50 / 0.6	2 x 12.5 mm AQUAPANEL®	(40) / (14) (60) / (14) (80) / (14)	400	400	55 57 60	- EI 90 ^(c) EI 90 ^(c)
			125	75 / 0.6			465	400 / 500 ^(c)		
			150	100 / 0.6			685	400 / 500 ^(c)		
W 384	Metal single stud frame wall, doublelayer mixed planking		100	50 / 0.6	2 x 12.5 mm AQUAPANEL® 2 x 12.5 mm Knauf Diamant 2 x 12.5 mm Knauf GKF	(50) / (14) (60) / (14) (80) / (14)	400	300	54 ⁽¹⁾ 57 ⁽²⁾ 56 ± 3 **	EI 90 ^(d) / EI 90 ^(c) EI 120 ^(d) / EI 90 ^(c) EI 90 ^(c)
			125	75 / 0.6			470	300		
			150	100 / 0.6			685	300		
W 385	Metal double stud frame wall, singlelayer planking		130	2x 50 / 0.6	12.5 mm AQUAPANEL®	none	270 ^(e)	270	-	EI 30 ^(c) EI 30 ^(c) EI 30 ^(c)
			180	2x 75 / 0.6			400	400 / 500 ^(c)		
			230	2x 100 / 0.6			415	400 / 500 ^(c)		
W 385	Metal double stud frame wall, singlelayer planking		130	2x 50 / 0.6	12.5 mm AQUAPANEL®	(2 x 40) / (14) (2 x 60) / (14)	270 ^(e)	270	53 ± 3 ** 55 ± 3 ** -	- EI 30 ^(c) EI 30 ^(c)
			180	2x 75 / 0.6			400	400 / 500 ^(c)		
			230	2x 100 / 0.6			415	400 / 500 ^(c)		
W 385	Metal double stud frame, single-layer mixed planking		130	2x 50 / 0.6	12.5 mm AQUAPANEL® 12.5 mm Knauf Piano GKF	(2 x 40) / (14) (2 x 60) / (14)	270 ^(e)	270	53 ± 3 ** 55 ± 3 ** -	EI 30 ^(c) EI 30 ^(c) EI 30 ^(c)
			180	2x 75 / 0.6			400	300		
			230	2x 100 / 0.6			415	300		
W 385	Metal double stud frame wall, doublelayer planking		155	2x 50 / 0.6	2 x 12.5 mm AQUAPANEL®	none	290 ^(e)	290	-	EI 90 ^(c) EI 90 ^(c) EI 90 ^(c)
			205	2x 75 / 0.6			400	400 / 500 ^(c)		
			255	2x 100 / 0.6			440	400 / 500 ^(c)		
W 385	Metal double stud frame wall, doublelayer planking		155	2x 50 / 0.6	2 x 12.5 mm AQUAPANEL®	(2 x 40) / (14) (2 x 60) / (14)	290 ^(e)	290	64 68 ± 3 ** -	- EI 90 ^(c) EI 90 ^(c)
			205	2x 75 / 0.6			400	400 / 500 ^(c)		
			255	2x 100 / 0.6			440	400 / 500 ^(c)		
W 385	Metal double stud frame, double-layer mixed planking		155	2x 50 / 0.6	2 x 12.5 mm AQUAPANEL® 2 x 12.5 mm Knauf Diamant 2 x 12.5 mm Knauf GKF	(2 x 40) / (14) (2 x 60) / (14)	290 ^(e)	290	66 ⁽²⁾ 67 ± 3 ** -	EI 90 ^(c) EI 90 ^(c) EI 90 ^(c)
			205	2x 75 / 0.6			400	300		
			255	2x 100 / 0.6			440	300		

Note: all performances have been determined considering a stud spacing of 600 mm
Wall heights can be increased when using wider profiles and/or by decreasing the stud spacing.

(e) only installation range 1: area less frequented by people as are assumed in e.g. flats, hotel rooms, offices or wards and similarly used rooms including corridors.

⁽¹⁾ Knauf Piano GKF
⁽²⁾ Knauf Diamant
^(*) lower value is decisive
^(**) calculated value

^(a) Fire from both sides
^(b) acc. to test report
^(c) acc. to expert opinion
^(d) Fire from the AQUAPANEL® side

Interior wall systems			Wall thickness	Profile	Layer planking	Mineral wool	Maximum wall height (cm)*		Sound insulation	Fire protection
No.	Description	Detail	(mm)	CW		(mm) / (kg/m ³)	without fire protection requirement	with fire protection requirement	R _w * (dB)	Rating ^(a)
W386	Plumbing wall, fishplated double stud frame, single-layer planking		230	2 x 50 / 0.6	12.5 mm AQUAPANEL®	none	325 ^(e)	325	-	EI 30 ^(c)
			275	2 x 75 / 0.6			400	400 / 500 ^(c)		
			330	2 x 100 / 0.6			510	400 / 500 ^(c)		
W386	Plumbing wall, fishplated double stud frame, single-layer planking		230	2 x 50 / 0.6	12.5 mm AQUAPANEL®	(2 x 50) / (14) (2 x 60) / (14) -	325 ^(e)	325	50	-
			275	2 x 75 / 0.6			400	400 / 500 ^(c)	57 ± 3 **	EI 30 ^(c)
			330	2 x 100 / 0.6			510	400 / 500 ^(c)	-	EI 30 ^(c)
W386	Plumbing wall, fishplated double stud frame, single-layer mixed planking		230	2 x 50 / 0.6	12.5 mm AQUAPANEL® 12.5 mm GKF	(2 x 50) / (14) (2 x 60) / (14) -	325 ^(e)	300	50	EI 30 ^(c)
			275	2 x 75 / 0.6			400	300	57 ± 3 **	EI 30 ^(c)
			330	2 x 100 / 0.6			500	300	-	EI 30 ^(c)
W386	Plumbing wall, fishplated double stud frame, double-layer planking		255	2 x 50 / 0.6	2 x 12.5 mm AQUAPANEL®	none	400	400	-	EI 90 ^(c)
			300	2 x 75 / 0.6			465	400 / 500 ^(c)		EI 90 ^(c)
			355	2 x 100 / 0.6			685	400 / 500 ^(c)		EI 90 ^(c)
W386	Plumbing wall, fishplated double stud frame, double-layer planking		255	2 x 50 / 0.6	2 x 12.5 mm AQUAPANEL®	(2 x 50) / (14) (2 x 60) / (14) -	400	400	57	-
			300	2 x 75 / 0.6			465	400 / 500 ^(c)	69 ± 3 **	EI 90 ^(c)
			355	2 x 100 / 0.6			685	400 / 500 ^(c)	-	EI 90 ^(c)
W386	Plumbing wall, fishplated double stud frame, double-layer mixed planking		255	2 x 50 / 0.6	2 x 12.5 mm AQUAPANEL® 2 x 12.5 mm Knauf GKF	(2 x 50) / (14) (2 x 60) / (14) -	400	300	61	EI 90 ^(c)
			300	2 x 75 / 0.6			470	300	69 ± 3 **	EI 90 ^(c)
			355	2 x 100 / 0.6			685	300	-	EI 90 ^(c)
W685	Independent wall lining, single-layer planking		62.5	50 / 0.6	12.5 mm AQUAPANEL®	none	270 ^(e)	-	-	-
			87.5	75 / 0.6			380			
			112.5	100 / 0.6			400			
W685	Independent wall lining, doubled profile (back to back), double-layer planking		75	50 / 0.6	2 x 12.5 mm AQUAPANEL®	(40) / (30)	290 ^(e)	290	-	EI 30 ^(b)
			100	75 / 0.6			435	300		EI 30 ^(c)
			125	100 / 0.6			600	300		EI 30 ^(c)

Note: all performances have been determined considering a stud spacing of 600 mm
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(e) only installation range 1: area less frequented by people as are assumed in e.g. flats, hotel rooms, offices or wards and similarly used rooms including corridors.

⁽¹⁾ Knauf Piano GKF
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^(a) Fire from both sides
^(b) acc. to test report
^(c) acc. to expert opinion
^(d) Fire from the AQUAPANEL® side

Interior ceiling systems			Profile	Maximum load	Layer planking	Mineral wool	Ceiling weight	Distance profiles and hangers	Fire protection
No.	Description	Detail				(mm) / (kg/m ³)	(kg/m ³)	(mm)	Rating
D282	Suspended ceiling, single-layer planking		CD 60/27 UD 28/27	0.40 kN	12.5 mm AQUAPANEL®	-	approx. 16	Base profile: 1000 mm Supporting profile: 300 mm Hangers: 750 mm	-
D282	Suspended ceiling, double-layer planking		CD 60/27 UD 28/27	0.40 kN	2 x 12.5 mm AQUAPANEL®	(40) / (14)	approx. 31	Base profile: 750 mm Supporting profile: 300 mm Hangers: 750 mm	EI 30 / EI 45 ^(*)

^(*) depending on local regulations and requirements