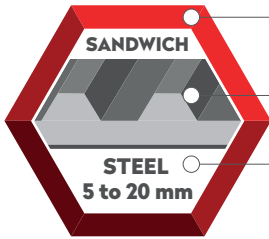




SANDWICH PANEL SCREW S20

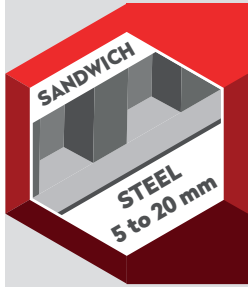
APPLICATION



Bi-metal A2 304

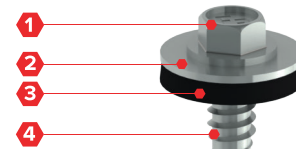
Sandwich Panels

Steel 5 to 20 mm



SPECIFICATION

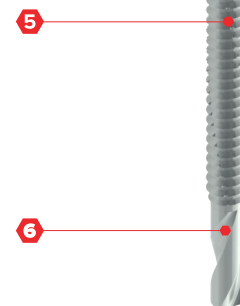
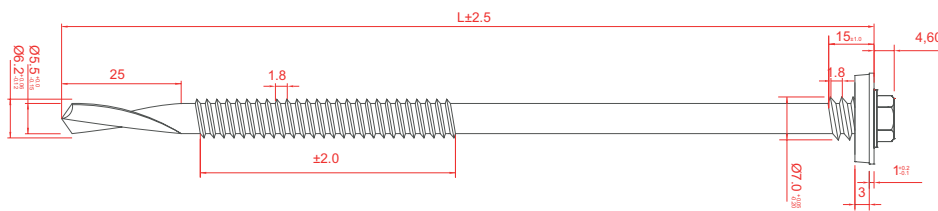
- 1 Head style 5/16" (8 mm)
- 2 Washer diameter standard 19 mm
- 3 SS EPDM bond seal
- 4 Support thread
- 5 Thread for substructure steel 5 to 20 mm
- 6 Drilling point S20



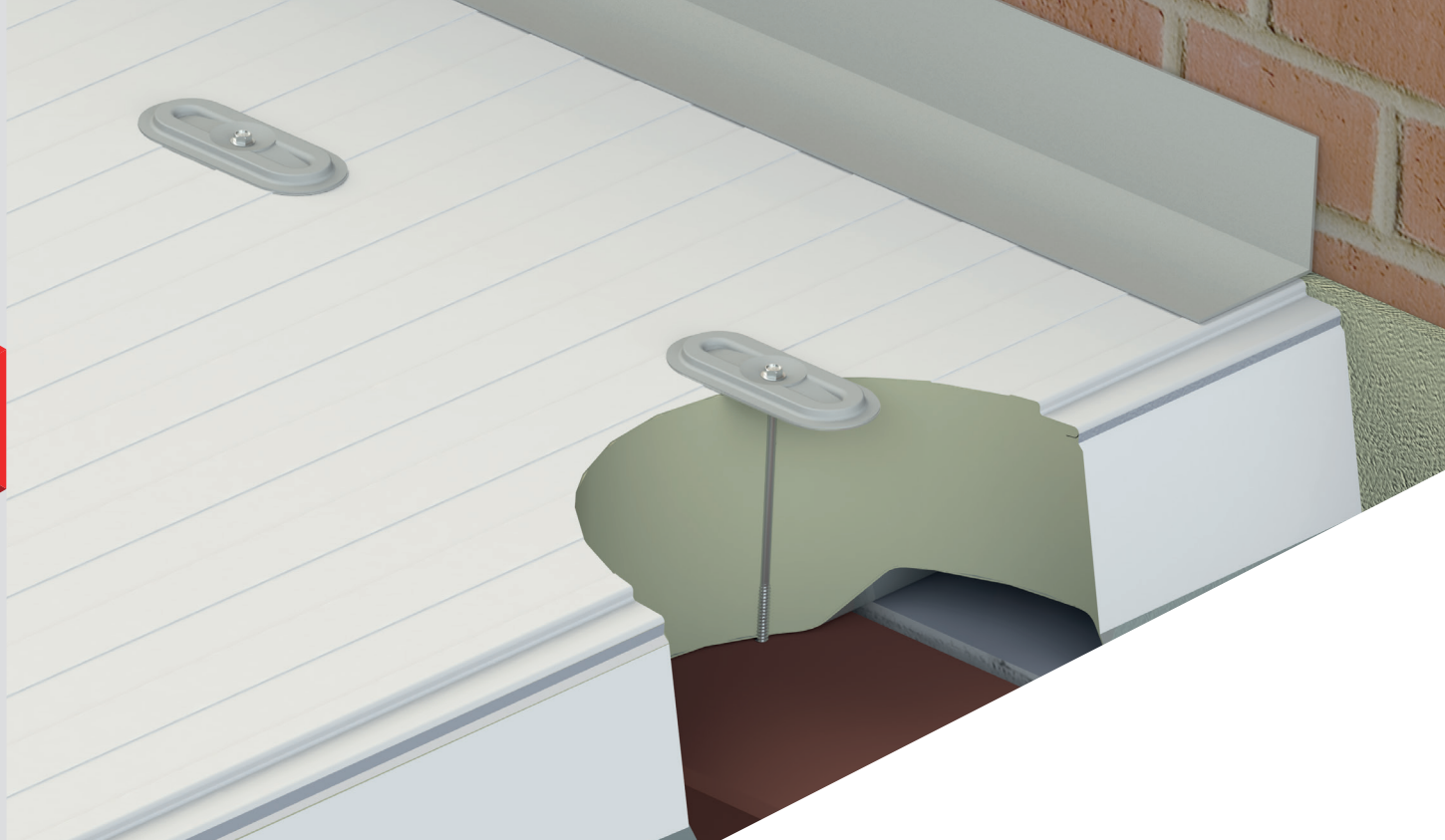
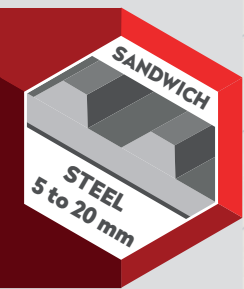
OPTIONS

- 1 Powder coated in any desired RAL colour
- 2 Washer diameter 16 or 22 mm

SECTION



SANDWICH PANELS - STEEL 5 TO 20 MM - BI-METAL A2 304



SANDWICH PANELS - STEEL 5 TO 20 MM - BI-METAL A2 304

APPLICATION

Using the table below you can easily determine the sufficient screw length.

Size	Insulation thickness (mm)													Article code		
	20	40	60	80	100	120	140	160	180	200	220	240	260		280	
6,3/7,0 x 170 mm					90 - 120 mm											1001Q76317019
6,3/7,0 x 190 mm						110 - 140 mm										1001Q76319019
6,3/7,0 x 230 mm								150 - 180 mm								1001Q76323019
6,3/7,0 x 250 mm									170 - 200 mm							1001Q76325019
6,3/7,0 x 270 mm										190 - 220 mm						1001Q76327019



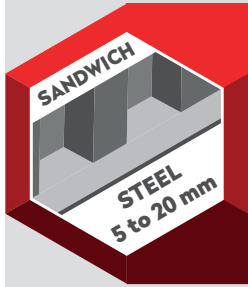
More information on materials, application, specific properties and certification can be found in chapter 10.



SANDWICH PANEL SCREW S20

ORDER INFORMATION

Product	Size (L)	Packaging	Article code
Sandwich Panel Screw 6,3-7,0 x 170 – S20	170 mm	100 pcs/box	1001Q76317019
Sandwich Panel Screw 6,3-7,0 x 190 – S20	190 mm	100 pcs/box	1001Q76319019
Sandwich Panel Screw 6,3-7,0 x 230 – S20	230 mm	100 pcs/box	1001Q76323019
Sandwich Panel Screw 6,3-7,0 x 250 – S20	250 mm	100 pcs/box	1001Q76325019
Sandwich Panel Screw 6,3-7,0 x 270 – S20	270 mm	100 pcs/box	1001Q76327019



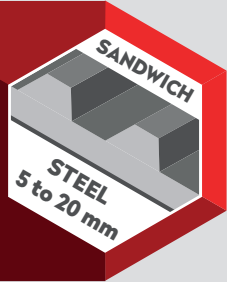
SANDWICH PANELS - STEEL 5 TO 20 MM - BI-METAL A2 304


CERTIFICATES

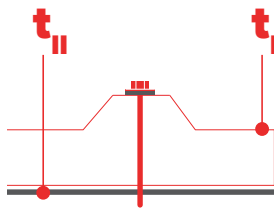


QUALITY
CONFIRMED

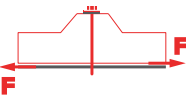
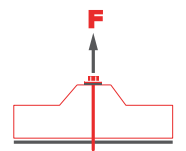
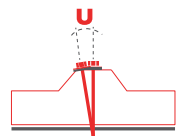
SANDWICH PANEL SCREW 6,3/7,0 X L – S20, WASHER DIAMETER Ø 16,0 MM



Materials		
Screw	SS 1.4301 (A2) - conform EN3506	 QUALITY CONFIRMED
Washer	SS 1.4301 (A2) - conform EN3506	
Material A (t_I)	S280GD, S320GD and S350GD conform EN 10346	
Material B (t_{II})	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346	
Drilling capacity	Steel \leq 20 mm	




SANDWICH PANELS - STEEL 5 TO 20 MM - BI-METAL A2 304

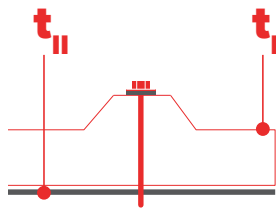
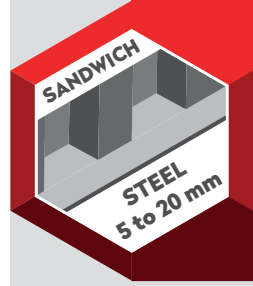
		t_{NI} [mm]	t_{II} [mm]									
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	6,00	10,00
 $V_{R,k}$ [kN]	0,40	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
	0,50	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48
	0,55	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74
	0,63	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16
	0,75	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	0,88	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	1,00	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	1,13	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
 $N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,59	1,59	1,59	1,59	1,59	1,59
	0,50	0,59	0,79	0,97	1,17	1,35	1,68	1,68	1,68	1,68	1,68	1,68
	0,55	0,59	0,79	0,97	1,17	1,35	1,73	1,81	1,81	1,81	1,81	1,81
	0,63	0,59	0,79	0,97	1,17	1,35	1,73	2,02	2,02	2,02	2,02	2,02
	0,75	0,59	0,79	0,97	1,17	1,35	1,73	2,34	2,34	2,34	2,34	2,34
	0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,61	2,61	2,61	2,61
	1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,61	2,61	2,61	2,61
	1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,61	2,61	2,61	2,61
 u [mm]	40	10,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,00	3,00	
	50	12,50	6,00	6,00	6,00	6,00	6,00	6,00	6,00	3,50	3,50	
	60	15,00	7,50	7,50	7,50	7,50	7,50	7,50	7,50	4,50	4,50	
	80	20,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	6,00	6,00	
	100	25,00	12,50	12,50	12,50	12,50	12,50	12,50	12,50	7,50	7,50	
	120	30,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	9,00	9,00	
	≥160	40,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	12,00	12,00	

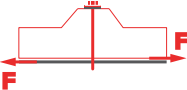
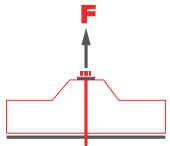
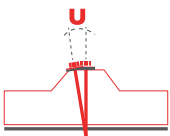
Note

1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
3. You can find further information and calculation examples on page 10.1.7

SANDWICH PANEL SCREW 6,3/7,0 X L – S20, WASHER DIAMETER Ø 19,0 MM

Materials		 QUALITY CONFIRMED
Screw	SS 1.4301 (A2) - conform EN3506	
Washer	SS 1.4301 (A2) - conform EN3506	
Material A (t_I)	S280GD, S320GD and S350GD conform EN 10346	
Material B (t_{II})	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346	
Drilling capacity	Steel ≤ 20 mm	

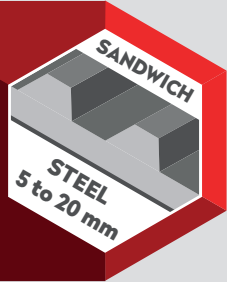



		t_{II} [mm]	t_I [mm]									
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	6,00	10,00
	$V_{R,k}$ [kN]	0,40	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
		0,50	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48
		0,55	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74
		0,63	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16
		0,75	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		0,88	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		1,00	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		1,13	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		1,25	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	$N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,73	1,88	1,88	1,88	1,88
		0,50	0,59	0,79	0,97	1,17	1,35	1,73	2,26	2,26	2,26	2,26
		0,55	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,48	2,48	2,48
		0,63	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,83	2,83	2,83
		0,75	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,35	3,35	3,35
		0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,89	3,89
		1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,89	3,89
		1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,89	3,89
		1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,89	3,89
	u [mm]	40	10,00	5,00	5,00	5,00	5,00	5,00	5,00	3,00	3,00	
		50	12,50	6,00	6,00	6,00	6,00	6,00	6,00	6,00	3,50	3,50
		60	15,00	7,50	7,50	7,50	7,50	7,50	7,50	7,50	4,50	4,50
		80	20,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	6,00	6,00
		100	25,00	12,50	12,50	12,50	12,50	12,50	12,50	12,50	7,50	7,50
		120	30,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	9,00	9,00
		≥160	40,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	12,00	12,00

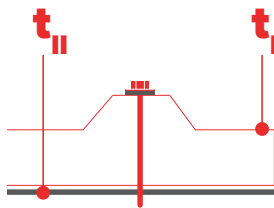
Note

1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
3. You can find further information and calculation examples on page 10.1.7

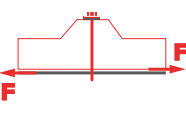
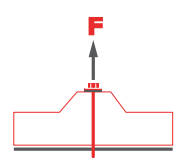
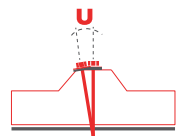
SANDWICH PANEL SCREW 6,3/7,0 X L – S20, WASHER DIAMETER Ø 22,0 MM



Materials		 QUALITY CONFIRMED
Screw	SS 1.4301 (A2) - conform EN3506	
Washer	SS 1.4301 (A2) - conform EN3506	
Material A (t_1)	S280GD, S320GD and S350GD conform EN 10346	
Material B (t_{II})	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346	
Drilling capacity	Steel \leq 20 mm	




SANDWICH PANELS - STEEL 5 TO 20 MM - BI-METAL A2 304

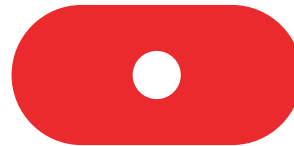
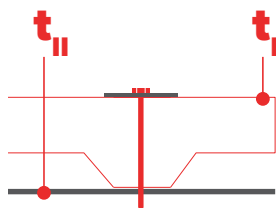
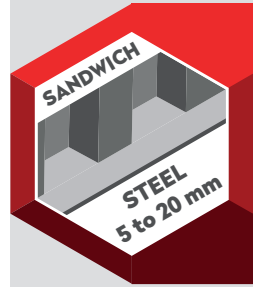
		t_{NI} [mm]	t_{II} [mm]								
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	6,00
 $V_{R,k}$ [kN]	0,40	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
	0,50	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48
	0,55	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74
	0,63	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16
	0,75	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	0,88	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	1,00	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	1,13	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
1,25	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	
 $N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,73	1,96	1,96	1,96	1,96
	0,50	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,61	2,61	2,61
	0,55	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,75	2,75	2,75
	0,63	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,98	2,98	2,98
	0,75	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,33	3,33	3,33
	0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,86	3,86
	1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,86	3,86
	1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,86	3,86
1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,78	3,86	3,86	
 u [mm]	40	10,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,00	3,00
	50	12,50	6,00	6,00	6,00	6,00	6,00	6,00	6,00	3,50	3,50
	60	15,00	7,50	7,50	7,50	7,50	7,50	7,50	7,50	4,50	4,50
	80	20,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	6,00	6,00
	100	25,00	12,50	12,50	12,50	12,50	12,50	12,50	12,50	7,50	7,50
	120	30,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	9,00	9,00
	≥ 160	40,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	12,00	12,00

Note

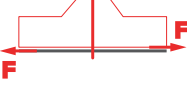
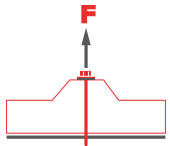
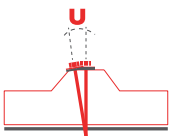
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
3. You can find further information and calculation examples on page 10.1.7

SANDWICH PANEL SCREW 6,3/7,0 X L – S20, SPREADER PLATE

Materials		 QUALITY CONFIRMED
Screw	SS 1.4301 (A2) - conform EN3506	
Washer	SS 1.4301 (A2) - conform EN3506	
Material A (t_I)	S280GD, S320GD and S350GD conform EN 10346	
Material B (t_{II})	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346	
Drilling capacity	Steel \leq 20 mm	



SPREADER PLATE

		t_{II} [mm]	t_I [mm]									
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	6,00	10,00
	$V_{R,k}$ [kN]	0,40	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
		0,50	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48	1,48
		0,55	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74	1,74
		0,63	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16	2,16
		0,75	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		0,88	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		1,00	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		1,13	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
		1,25	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79	2,79
	$N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,73	1,83	1,83	1,83	1,83
		0,50	0,59	0,79	0,97	1,17	1,35	1,73	2,21	2,21	2,21	2,21
		0,55	0,59	0,79	0,97	1,17	1,35	1,73	2,36	2,36	2,36	2,36
		0,63	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,59	2,59	2,59
		0,75	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,94	2,94	2,94
		0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,37	3,37	3,37
		1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,37	3,37	3,37
		1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,37	3,37	3,37
		1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,37	3,37	3,37
	u [mm]	40	10,00	5,00	5,00	5,00	5,00	5,00	5,00	3,00	3,00	
		50	12,50	6,00	6,00	6,00	6,00	6,00	6,00	6,00	3,50	3,50
		60	15,00	7,50	7,50	7,50	7,50	7,50	7,50	7,50	4,50	4,50
		80	20,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	6,00	6,00
		100	25,00	12,50	12,50	12,50	12,50	12,50	12,50	12,50	7,50	7,50
		120	30,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	9,00	9,00
		≥ 160	40,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	12,00	12,00

Note

1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
3. You can find further information and calculation examples on page 10.1.7

SANDWICH PANELS - STEEL 5 TO 20 MM - BI-METAL A2 304

