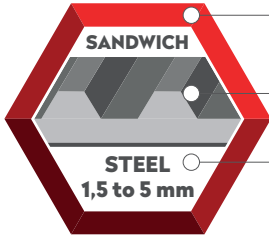




SANDWICH PANEL SCREW DP3

APPLICATION



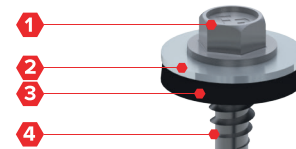
Bi-metal A2 304

Sandwich Panels

Steel 1,5 to 5 mm

SPECIFICATION

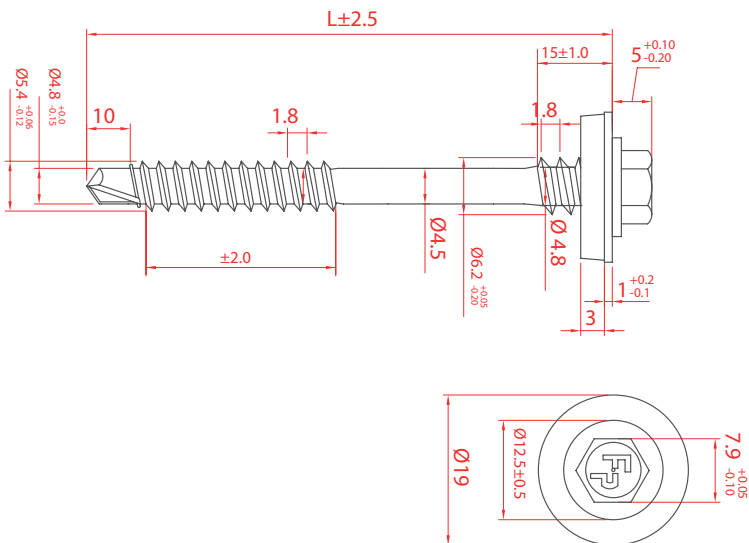
- 1 Head style 5/16" (8 mm)
- 2 Washer diameter standard 19 mm
- 3 SS EPDM bond seal
- 4 Support thread
- 5 Thread for substructure steel 1,5 to 5 mm
- 6 Drilling point 3



OPTIONS

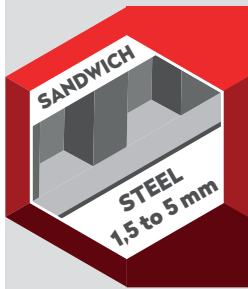
- 1 Powder coated in any desired RAL colour
- 2 Washer diameter 16 or 22 mm

SECTION

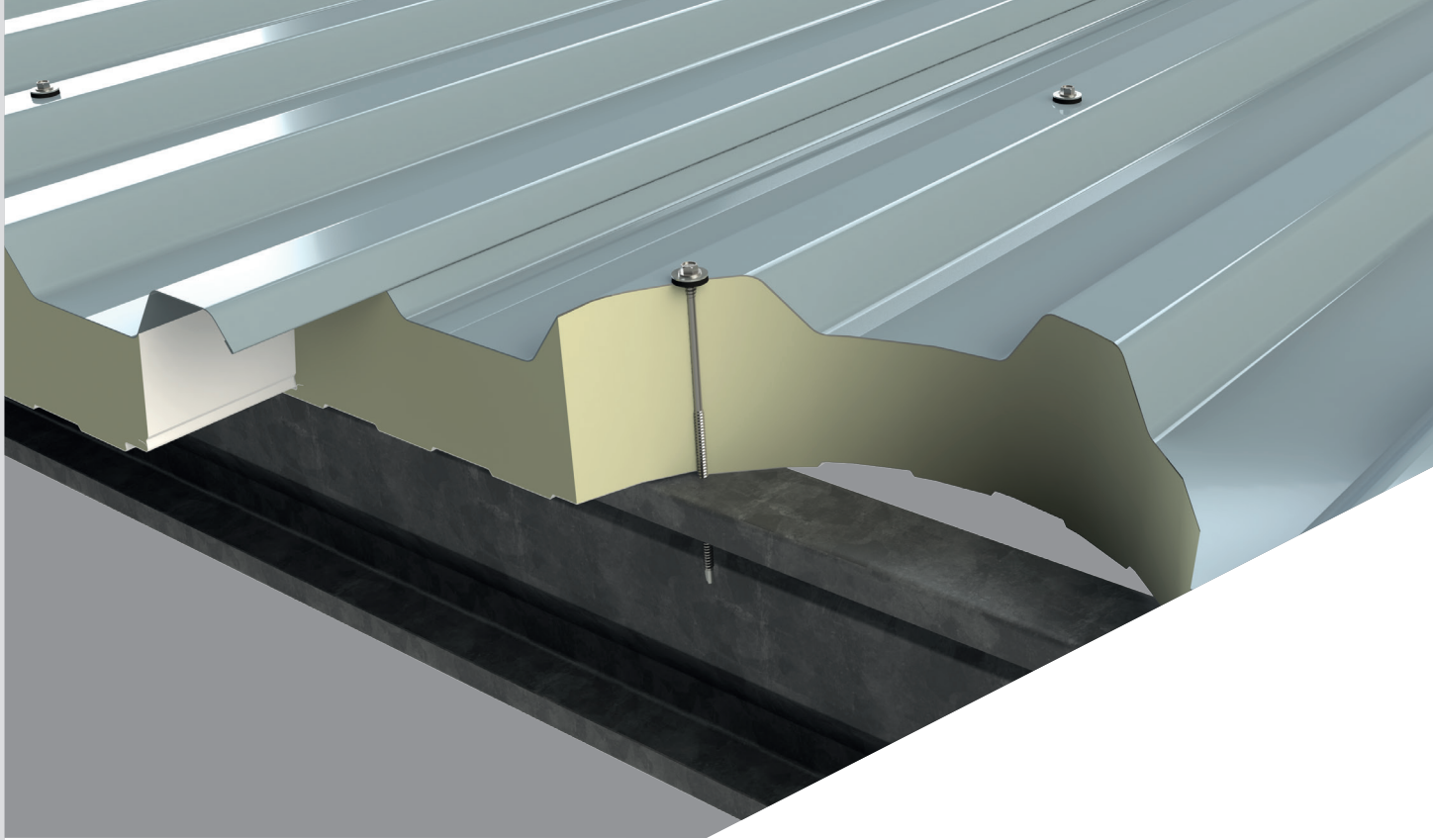


5

6



SANDWICH PANELS - STEEL 1,5 TO 5 MM - BI-METAL A2 304



APPLICATION

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

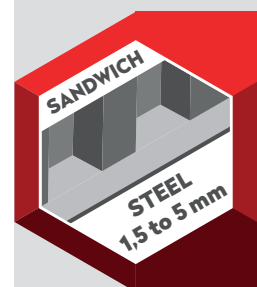
Size	Dikte (mm)													Article code	
	20	40	60	80	100	120	140	160	180	200	220	240	260		280
5,5/6,3 x 55 mm	0 - 22 mm														1001035505519
5,5/6,3 x 72 mm	22 - 39 mm														1001035507219
5,5/6,3 x 89 mm	39 - 56 mm														1001035508919
5,5/6,3 x 105 mm	56 - 72 mm														1001035510519
5,5/6,3 x 122 mm	72 - 89 mm														1001035512219
5,5/6,3 x 142 mm	89 - 109 mm														1001035514219
5,5/6,3 x 157 mm	109 - 124 mm														1001035515719
5,5/6,3 x 175 mm	124 - 142 mm														1001035517519
5,5/6,3 x 190 mm	142 - 157 mm														1001035519019
5,5/6,3 x 210 mm	157 - 177 mm														1001035521019
5,5/6,3 x 230 mm	177 - 197 mm														1001035523019
5,5/6,3 x 250 mm	197 - 217 mm														1001035525019
5,5/6,3 x 275 mm	217 - 242 mm														1001035527519
5,5/6,3 x 300 mm	242 - 267 mm														1001035530019



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

ORDER INFORMATION

Product	Size (L)	Packaging	Article code
Sandwich Panel Screw 5,5/6,3 x 55 – DP3	55 mm	100 pcs/box	1001035505519
Sandwich Panel Screw 5,5/6,3 x 72 – DP3	72 mm	100 pcs/box	1001035507219
Sandwich Panel Screw 5,5/6,3 x 89 – DP3	89 mm	100 pcs/box	1001035508919
Sandwich Panel Screw 5,5/6,3 x 105 – DP3	105 mm	100 pcs/box	1001035510519
Sandwich Panel Screw 5,5/6,3 x 122 – DP3	122 mm	100 pcs/box	1001035512219
Sandwich Panel Screw 5,5/6,3 x 142 – DP3	142 mm	100 pcs/box	1001035514219
Sandwich Panel Screw 5,5/6,3 x 157 – DP3	157 mm	100 pcs/box	1001035515719
Sandwich Panel Screw 5,5/6,3 x 175 – DP3	175 mm	100 pcs/box	1001035517519
Sandwich Panel Screw 5,5/6,3 x 190 – DP3	190 mm	100 pcs/box	1001035519019
Sandwich Panel Screw 5,5/6,3 x 210 – DP3	210 mm	100 pcs/box	1001035521019
Sandwich Panel Screw 5,5/6,3 x 230 – DP3	230 mm	100 pcs/box	1001035523019
Sandwich Panel Screw 5,5/6,3 x 250 – DP3	250 mm	100 pcs/box	1001035525019
Sandwich Panel Screw 5,5/6,3 x 275 – DP3	275 mm	100 pcs/box	1001035527519
Sandwich Panel Screw 5,5/6,3 x 300 – DP3	300 mm	100 pcs/box	1001035530019

**CERTIFICATES**

Deutsches
Institut
für
Bautechnik





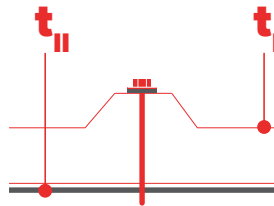
European
Technical Approval
ETA 17/0293

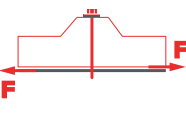
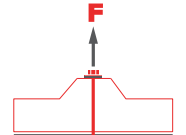
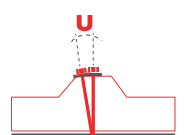


QUALITY
CONFIRMED

SANDWICH PANEL SCREW 5,5/6,3 X L – DP3, WASHER DIAMETER Ø 16,0 MM

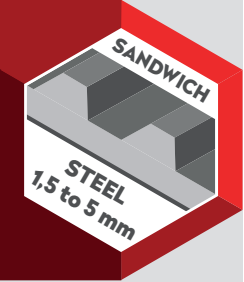
Materials		
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0293
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506	
Material A (t_I)	SteelQuality S280GD, S320GD and S350GD - conform EN 10346	 QUALITY CONFIRMED
Material B (t_{II})	SteelQuality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346	
Drilling capacity	Steel \leq 5 mm	





		t_{NI} [mm]	t_{II} [mm]						
			0,75	1,00	1,50	2,00	3,00	4,00	6,00
	$V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	0,93	0,93	0,93	0,93	0,93	0,93	0,93
		0,55	1,11	1,11	1,11	1,11	1,11	1,11	1,11
		0,63	1,39	1,39	1,39	1,39	1,39	1,39	1,39
		0,75	1,82	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,82	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,82	1,91	1,91	1,91	1,91	1,91	1,91
	$N_{R,k}$ [kN]	0,40	0,60	0,66	1,58	1,58	1,58	1,58	1,58
		0,50	0,60	0,66	1,77	1,80	1,80	1,80	1,80
		0,55	0,60	0,66	1,77	2,11	2,11	2,11	2,11
		0,63	0,60	0,66	1,77	2,61	2,61	2,61	2,61
		0,75	0,60	0,66	1,77	2,87	3,36	3,36	3,36
		0,88	0,60	0,66	1,77	2,87	3,36	3,36	3,36
		1,00	0,60	0,66	1,77	2,87	3,36	3,36	3,36
	u [mm]	40	6,0	5,5	5,0	4,0	3,0	2,5	2,0
		50	7,5	6,5	6,0	5,0	3,5	3,0	2,5
		60	9,0	8,0	7,5	6,0	4,5	3,5	3,0
		80	12,0	11,0	10,0	8,0	6,0	5,0	4,0
		100	15,0	13,5	12,5	10,0	7,5	6,0	5,0
		120	18,0	16,5	15,0	12,0	9,0	7,5	6,0
		140	21,0	19,0	17,5	14,0	10,5	8,5	7,0
		>160	24,0	22,0	20,0	16,0	12,0	10,0	8,0

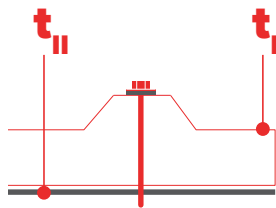
Note

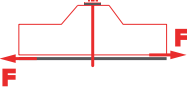
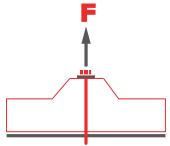
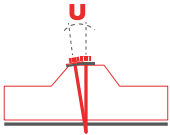
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
3. You can find further information and calculation examples on page 10.1.7



SANDWICH PANEL SCREW 5,5/6,3 X L – DP3, WASHER DIAMETER Ø 19,0 MM

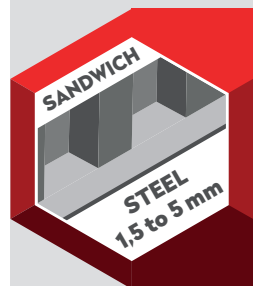
Materials		
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0293
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506	
Material A (t_I)	SteelQuality S280GD, S320GD and S350GD - conform EN 10346	 QUALITY CONFIRMED
Material B (t_{II})	SteelQuality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346	
Drilling capacity	Steel \leq 5 mm	





		t_{II} [mm]	t_I [mm]						
			0,75	1,00	1,50	2,00	3,00	4,00	6,00
	$V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	0,93	0,93	0,93	0,93	0,93	0,93	0,93
		0,55	1,11	1,11	1,11	1,11	1,11	1,11	1,11
		0,63	1,39	1,39	1,39	1,39	1,39	1,39	1,39
		0,75	1,82	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,82	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,82	1,91	1,91	1,91	1,91	1,91	1,91
			$N_{R,k}$ [kN]	0,40	0,60	0,66	1,77	2,14	2,14
0,50	0,60			0,66	1,77	2,30	2,30	2,30	2,30
0,55	0,60			0,66	1,77	2,62	2,62	2,62	2,62
0,63	0,60			0,66	1,77	2,87	3,14	3,14	3,14
0,75	0,60			0,66	1,77	2,87	3,55	3,91	3,91
0,88	0,60			0,66	1,77	2,87	3,55	3,91	3,91
1,00	0,60			0,66	1,77	2,87	3,55	3,91	3,91
	u [mm]			40	6,0	5,5	5,0	4,0	3,0
		50	7,5	6,5	6,0	5,0	3,5	3,0	2,5
		60	9,0	8,0	7,5	6,0	4,5	3,5	3,0
		80	12,0	11,0	10,0	8,0	6,0	5,0	4,0
		100	15,0	13,5	12,5	10,0	7,5	6,0	5,0
		120	18,0	16,5	15,0	12,0	9,0	7,5	6,0
		140	21,0	19,0	17,5	14,0	10,5	8,5	7,0
		>160	24,0	22,0	20,0	16,0	12,0	10,0	8,0

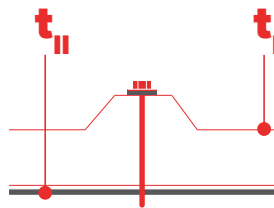
Note

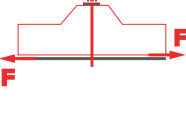
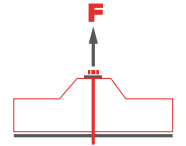
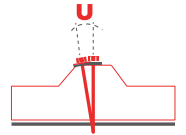
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
3. You can find further information and calculation examples on page 10.1.7



SANDWICH PANEL SCREW 5,5/6,3 X L – DP3, WASHER DIAMETER Ø 22,0 MM

Materials		
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0293
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506	
Material A (t_I)	Steel Quality S280GD, S320GD and S350GD - conform EN 10346	 QUALITY CONFIRMED
Material B (t_{II})	Steel Quality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346	
Drilling capacity	Steel ≤ 5 mm	



		t _{NI} [mm]	t _{II} [mm]						
			0,75	1,00	1,50	2,00	3,00	4,00	6,00
	V _{R,k} [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	0,93	0,93	0,93	0,93	0,93	0,93	0,93
		0,55	1,11	1,11	1,11	1,11	1,11	1,11	1,11
		0,63	1,39	1,39	1,39	1,39	1,39	1,39	1,39
		0,75	1,82	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,82	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,82	1,91	1,91	1,91	1,91	1,91	1,91
	N _{R,k} [kN]	0,40	0,60	0,66	1,77	2,21	2,21	2,21	2,21
		0,50	0,60	0,66	1,77	2,42	2,42	2,42	2,42
		0,55	0,60	0,66	1,77	2,80	2,80	2,80	2,80
		0,63	0,60	0,66	1,77	2,87	3,42	3,42	3,42
		0,75	0,60	0,66	1,77	2,87	3,55	4,22	4,34
		0,88	0,60	0,66	1,77	2,87	3,55	4,22	4,34
		1,00	0,60	0,66	1,77	2,87	3,55	4,22	4,34
	u [mm]	40	6,0	5,5	5,0	4,0	3,0	2,5	2,0
		50	7,5	6,5	6,0	5,0	3,5	3,0	2,5
		60	9,0	8,0	7,5	6,0	4,5	3,5	3,0
		80	12,0	11,0	10,0	8,0	6,0	5,0	4,0
		100	15,0	13,5	12,5	10,0	7,5	6,0	5,0
		120	18,0	16,5	15,0	12,0	9,0	7,5	6,0
		140	21,0	19,0	17,5	14,0	10,5	8,5	7,0
		>160	24,0	22,0	20,0	16,0	12,0	10,0	8,0

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

