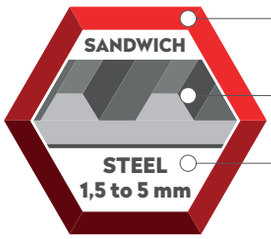
SANDWICH PANEL SCREW DP3

APPLICATION



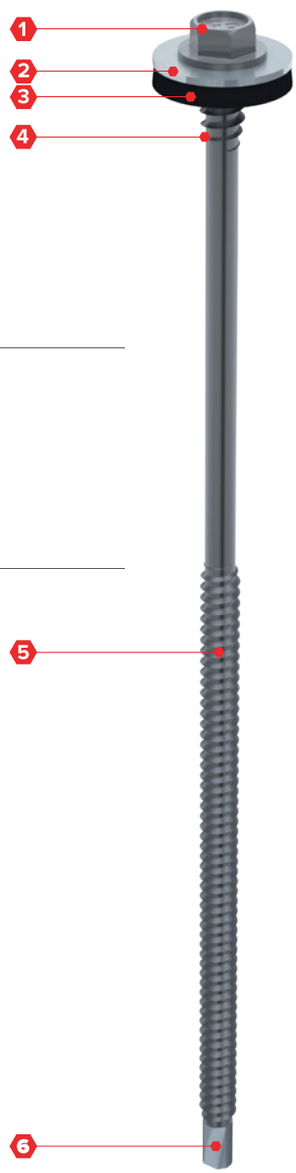
Bi-metal A2 304

Sandwich Panels

Steel 1,5 to 5 mm

SPECIFICATION

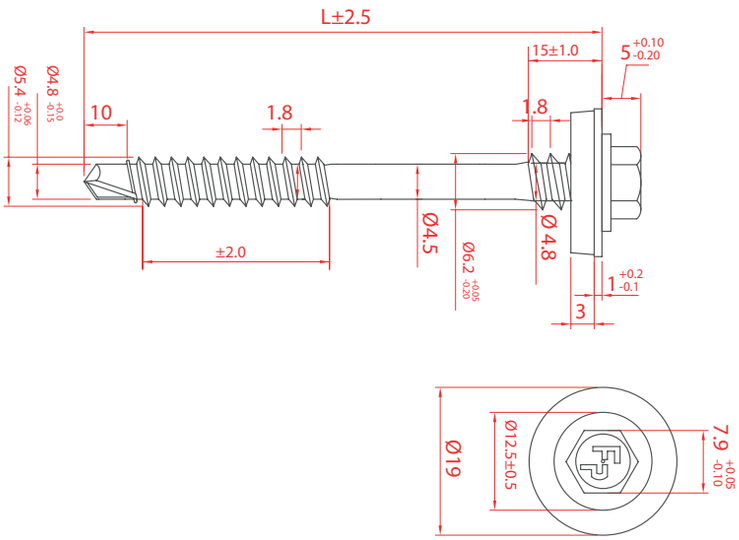
1. Head style 5/16" (8 mm)
2. Washer diameter standard 19 mm
3. SS EPDM bond seal
4. Support thread
5. Thread for substructure steel 1,5 to 5 mm
6. Drilling point 3

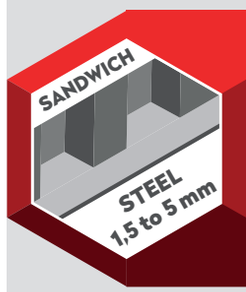


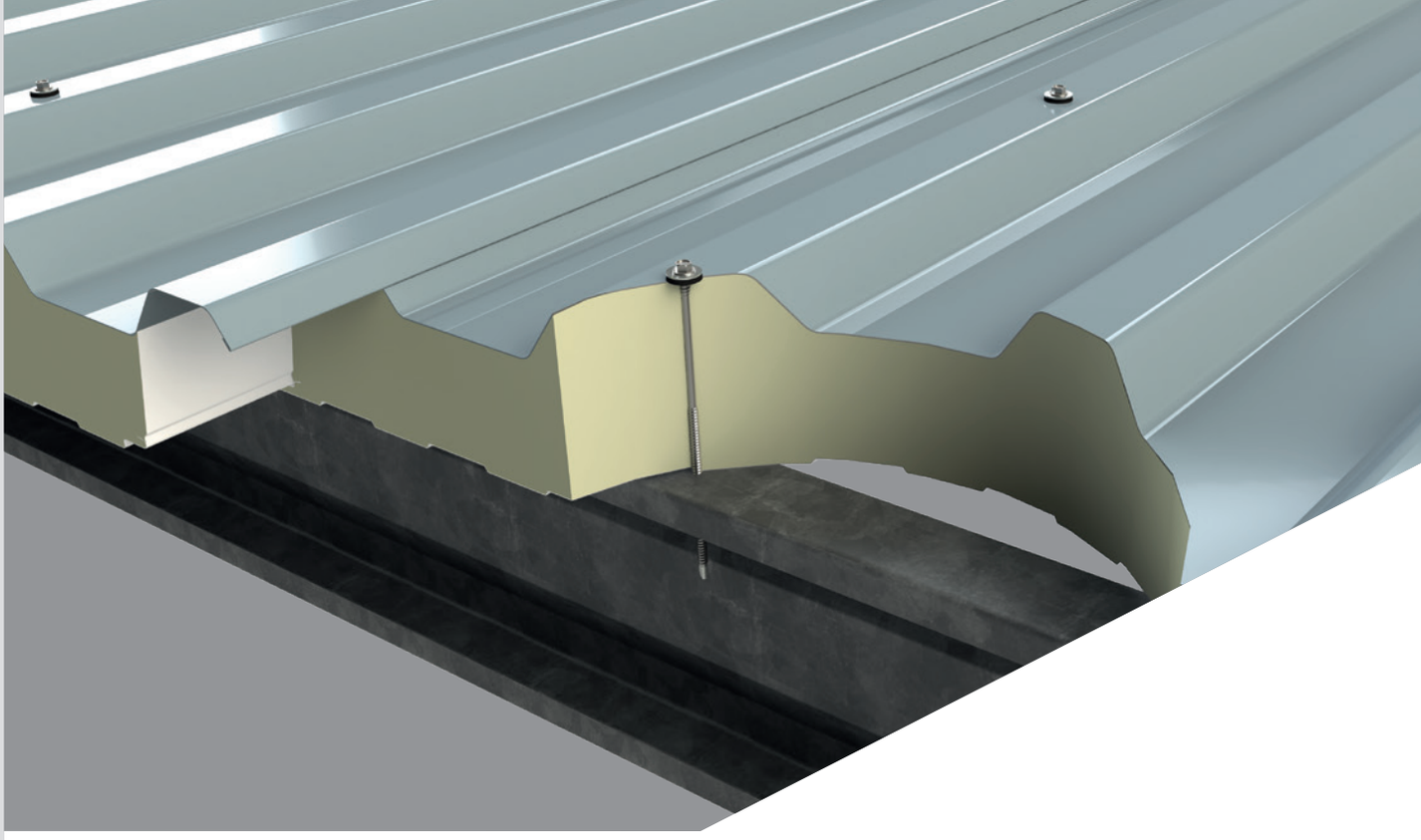
OPTIONS

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

SECTION



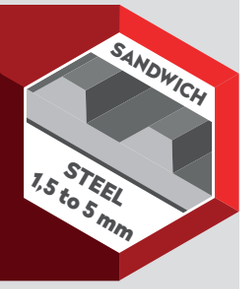




APPLICATION

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

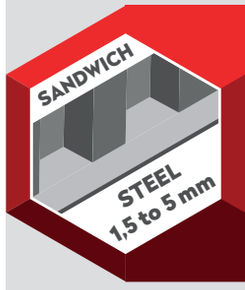
Size	Dikte (mm)														Article code
	20	40	60	80	100	120	140	160	180	200	220	240	260	280	
5,5/6,3 x 55 mm	0 - 22 mm														1001035505519
5,5/6,3 x 72 mm		22 - 39 mm													1001035507219
5,5/6,3 x 89 mm			39 - 56 mm												1001035508919
5,5/6,3 x 105 mm				56 - 72 mm											1001035510519
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 DIBt

CE

ETA European Technical Approval ETA 17/0293

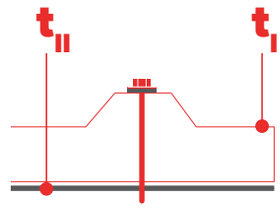
QUALITY CONFIRMED

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

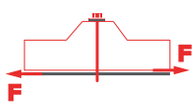
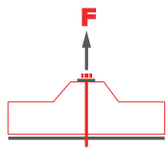
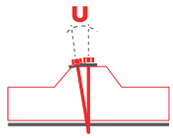
Materials	
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506
Material A (t_I)	SteelQuality S280GD, S320GD and S350GD - conform EN 10346
Material B (t_{II})	SteelQuality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346
Drilling capacity	Steel ≤ 5 mm

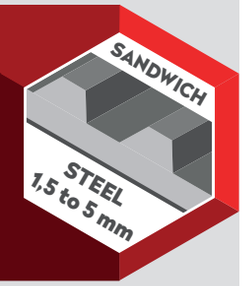
European Technical Approval ETA 17/0293

QUALITY CONFIRMED



WASHER DIAMETER 16 mm

		t_{N1} [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

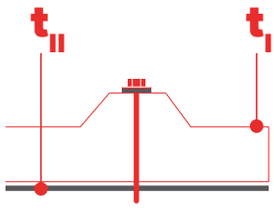
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of γm = 1,33.
3. You can find further information and calculation examples on page 10.1.7

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

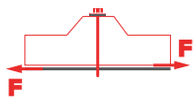
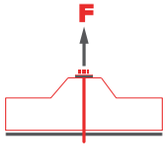
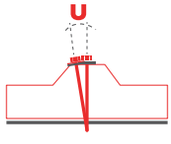
Materials	
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506
Material A (t_I)	SteelQuality S280GD, S320GD and S350GD - conform EN 10346
Material B (t_{II})	SteelQuality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346
Drilling capacity	Steel ≤ 5 mm

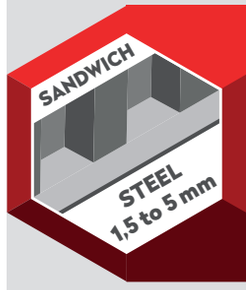
European Technical Approval ETA 17/0293

QUALITY CONFIRMED



WASHER DIAMETER 19 mm

		t_{N1} [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	2,14	2,14	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	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

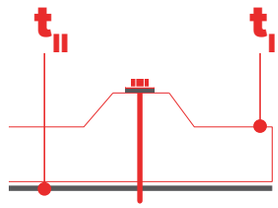
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of ym = 1,33.
3. You can find further information and calculation examples on page 10.1.7

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

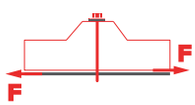
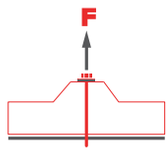
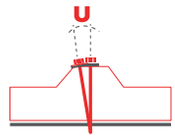
Materials	
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506
Material A (t_I)	SteelQuality S280GD, S320GD and S350GD - conform EN 10346
Material B (t_{II})	SteelQuality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346
Drilling capacity	Steel ≤ 5 mm

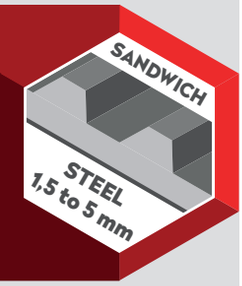
European Technical Approval ETA 17/0293

QUALITY CONFIRMED



WASHER DIAMETER 22 mm

		t_{N1} [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 γm = 1,33.
3. You can find further information and calculation examples on page 10.1.7