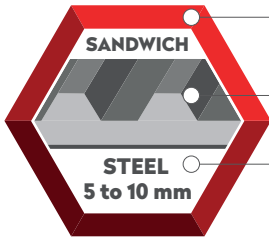




# SANDWICH PANEL SCREW DP5

## APPLICATION



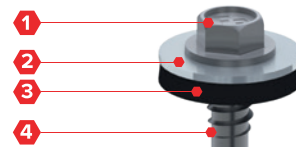
Bi-metal A2 304

Sandwich Panels

Steel 5 to 10 mm

## SPECIFICATION

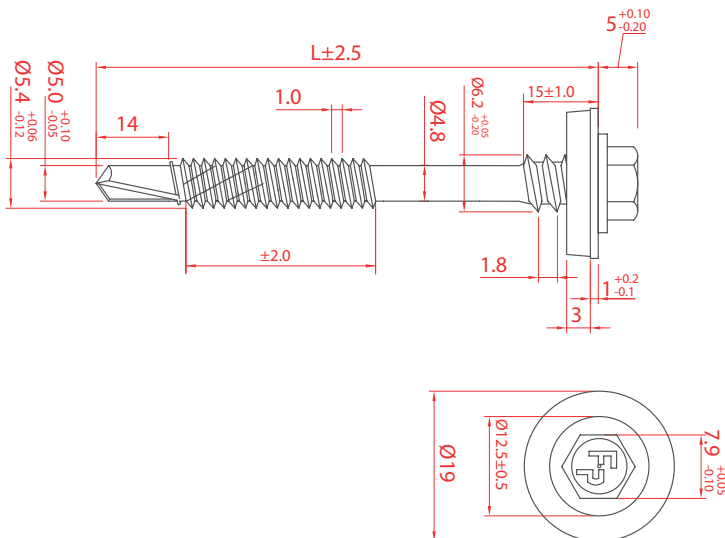
- 1 Head style 5/16" (8 mm)
- 2 Washer diameter standard 19 mm
- 3 SS EPDM bond seal
- 4 Support thread
- 5 Thread for substructure steel 5 to 10 mm
- 6 Drilling point 5 (gehard steel)



## OPTIONS

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

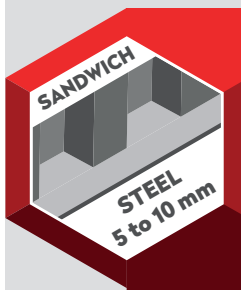
## SECTION

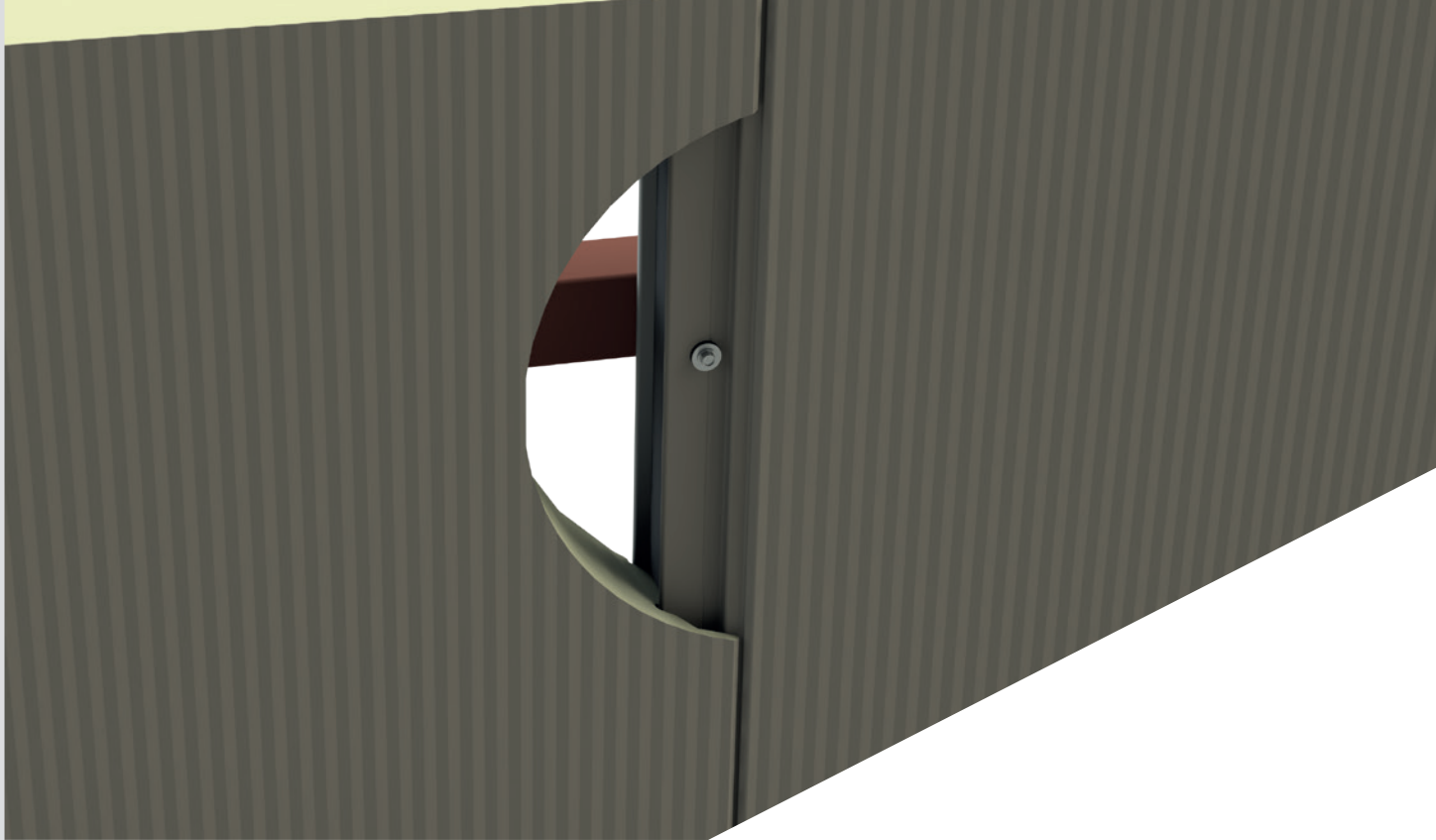


5

6

SANDWICH PANELS - STEEL 5 TO 10 MM - BI-METAL A2 304





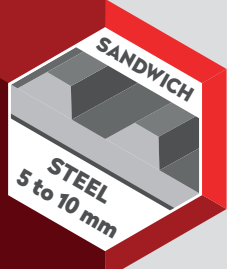
## APPLICATION

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
5,5/6,3 x 75 mm	■	0 - 28 mm											1001055507519	
5,5/6,3 x 100 mm		■	28 - 53 mm										1001055510019	
5,5/6,3 x 115 mm			■	53 - 68 mm									1001055511519	
5,5/6,3 x 135 mm				■	68 - 88 mm								1001055513519	
5,5/6,3 x 155 mm					■	88 - 108 mm							1001055515519	
5,5/6,3 x 170 mm						■	108 - 123 mm						1001055517019	
5,5/6,3 x 190 mm							■	123 - 143 mm					1001055519019	
5,5/6,3 x 210 mm								■	143 - 163 mm				1001055521019	
5,5/6,3 x 230 mm									■	163 - 183 mm			1001055523019	
5,5/6,3 x 250 mm										■	183 - 203 mm		1001055525019	
5,5/6,3 x 275 mm											■	203 - 228 mm	1001055527519	
5,5/6,3 x 300 mm												■	228 - 253 mm	1001055530019



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



**ORDER INFORMATION**

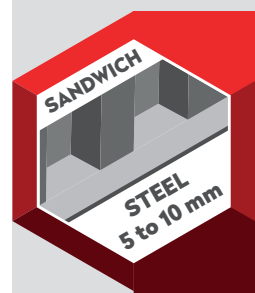
Product	Size (L)	Packaging	Article code
Sandwich Panel Screw 5,5/6,3 x 75 – DP5	75 mm	100 pcs/box	1001055507519
Sandwich Panel Screw 5,5/6,3 x 100 – DP5	100 mm	100 pcs/box	1001055510019
Sandwich Panel Screw 5,5/6,3 x 115 – DP5	115 mm	100 pcs/box	1001055511519
Sandwich Panel Screw 5,5/6,3 x 135 – DP5	135 mm	100 pcs/box	1001055513519
Sandwich Panel Screw 5,5/6,3 x 155 – DP5	155 mm	100 pcs/box	1001055515519
Sandwich Panel Screw 5,5/6,3 x 170 – DP5	170 mm	100 pcs/box	1001055517019
Sandwich Panel Screw 5,5/6,3 x 190 – DP5	190 mm	100 pcs/box	1001055519019
Sandwich Panel Screw 5,5/6,3 x 210 – DP5	210 mm	100 pcs/box	1001055521019
Sandwich Panel Screw 5,5/6,3 x 230 – DP5	230 mm	100 pcs/box	1001055523019
Sandwich Panel Screw 5,5/6,3 x 250 – DP5	250 mm	100 pcs/box	1001055525019
Sandwich Panel Screw 5,5/6,3 x 275 – DP5	275 mm	100 pcs/box	1001055527519
Sandwich Panel Screw 5,5/6,3 x 300 – DP5	300 mm	100 pcs/box	1001055530019

**CERTIFICATES**



European  
Technical Approval  
ETA 17/0293

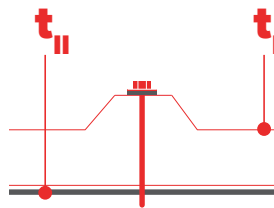


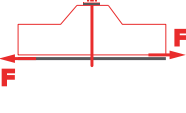
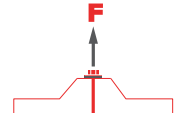
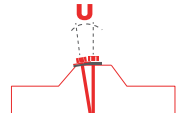
QUALITY  
CONFIRMED



**SANDWICH PANEL SCREW 5,5/6,3 X L – DP5, WASHER DIAMETER Ø 16,0 MM**

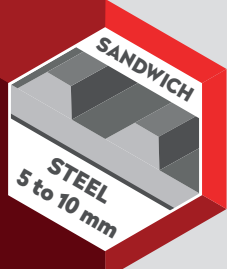
Materials		
<b>Screw</b>	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0293
<b>Washer</b>	Stainless steel 1.4301 (A2) – conform and ISO 3506	
<b>Material A (t<sub>I</sub>)</b>	Steel Quality S280GD, S320GD and S350GD - conform EN 10346	 QUALITY CONFIRMED
<b>Material B (t<sub>II</sub>)</b>	Steel Quality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346	
<b>Drilling capacity</b>	Steel ≤ 10 mm	





		t <sub>NI</sub> [mm]	t <sub>II</sub> [mm]									
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	4,00	> 6,00
	V <sub>R,k</sub> [kN]	0,40	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94
		0,50	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
		0,55	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24
		0,63	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39
		0,75	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
		0,88	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
		1,00	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
	N <sub>R,k</sub> [kN]	0,40	0,60	0,74	0,86	1,09	1,30	1,48	1,48	1,48	1,48	1,48
		0,50	0,60	0,74	0,86	1,09	1,30	1,51	1,51	1,51	1,51	1,51
		0,55	0,60	0,74	0,86	1,09	1,30	1,74	1,82	1,82	1,82	1,82
		0,63	0,60	0,74	0,86	1,09	1,30	1,74	2,31	2,31	2,31	2,31
		0,75	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,04	3,04	3,04
		0,88	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,04	3,04	3,04
		1,00	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,04	3,04	3,04
	u [mm]	40	10,0	9,5	9,0	9,0	8,5	8,0	7,0	5,0	4,5	3,5
		50	12,5	11,9	11,3	11,3	10,6	10,0	8,8	6,3	5,6	4,4
		60	15,0	14,3	13,5	13,5	12,8	12,0	10,5	7,5	6,8	5,3
		80	20,0	19,0	18,0	18,0	17,0	16,0	14,0	10,0	9,0	7,0
		100	25,0	23,8	22,5	22,5	21,3	20,0	17,5	12,5	11,3	8,8
		120	30,0	28,5	27,0	27,0	25,5	24,0	21,0	15,0	13,5	10,5
		140	35,0	33,3	31,5	31,5	29,8	28,0	24,5	17,5	15,8	12,3
		>160	40,0	38,0	36,0	36,0	34,0	32,0	28,0	20,0	18,0	14,0

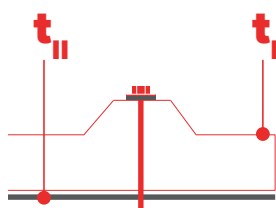
**Note**

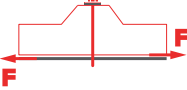
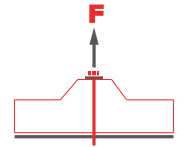
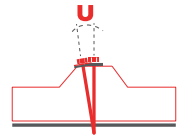
- Above mentioned values are characteristic values
- To determine the design value we advise to apply a material factor of  $\gamma_m = 1,33$ .
- You can find further information and calculation examples on page 10.1.7



**SANDWICH PANEL SCREW 5,5/6,3 X L – DP5, WASHER DIAMETER Ø 19,0 MM**

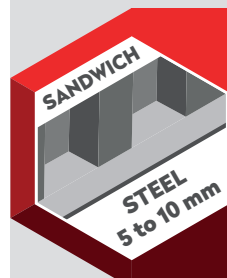
Materials		
<b>Screw</b>	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0293
<b>Washer</b>	Stainless steel 1.4301 (A2) – conform and ISO 3506	
<b>Material A (t<sub>I</sub>)</b>	SteelQuality S280GD, S320GD and S350GD – conform EN 10346	 QUALITY CONFIRMED
<b>Material B (t<sub>II</sub>)</b>	SteelQuality S235 – conform 10025-2 and S280GD, S320GD and S350GD – conform EN 10346	
<b>Drilling capacity</b>	Steel ≤ 10 mm	





		t <sub>II</sub> [mm]	t <sub>I</sub> [mm]									
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	4,00	> 6,00
	V <sub>R,k</sub> [kN]	0,40	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94
		0,50	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
		0,55	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24
		0,63	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39
		0,75	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
		0,88	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
		1,00	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
	N <sub>R,k</sub> [kN]	0,40	0,60	0,74	0,86	1,09	1,30	1,74	1,87	1,87	1,87	1,87
		0,50	0,60	0,74	0,86	1,09	1,30	1,74	1,89	1,89	1,89	1,89
		0,55	0,60	0,74	0,86	1,09	1,30	1,74	2,30	2,3	2,3	2,3
		0,63	0,60	0,74	0,86	1,09	1,30	1,74	2,62	2,96	2,96	2,96
		0,75	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,65	3,95	3,95
		0,88	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,65	3,95	3,95
		1,00	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,65	3,95	3,95
	u [mm]	40	10,0	9,5	9,0	9,0	8,5	8,0	7,0	5,0	4,5	3,5
		50	12,5	11,9	11,3	11,3	10,6	10,0	8,8	6,3	5,6	4,4
		60	15,0	14,3	13,5	13,5	12,8	12,0	10,5	7,5	6,8	5,3
		80	20,0	19,0	18,0	18,0	17,0	16,0	14,0	10,0	9,0	7,0
		100	25,0	23,8	22,5	22,5	21,3	20,0	17,5	12,5	11,3	8,8
		120	30,0	28,5	27,0	27,0	25,5	24,0	21,0	15,0	13,5	10,5
		140	35,0	33,3	31,5	31,5	29,8	28,0	24,5	17,5	15,8	12,3
		>160	40,0	38,0	36,0	36,0	34,0	32,0	28,0	20,0	18,0	14,0

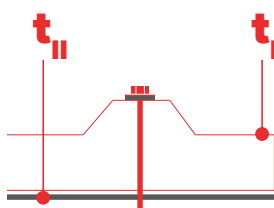
**Note**

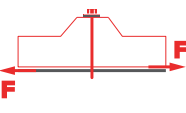

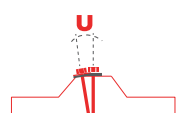
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of γ<sub>m</sub> = 1,33.
3. You can find further information and calculation examples on page 10.1.7



**SANDWICH PANEL SCREW 5,5/6,3 X L – DP5, WASHER DIAMETER Ø 22,0 MM**

Materials		
<b>Screw</b>	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0293
<b>Washer</b>	Stainless steel 1.4301 (A2) – conform and ISO 3506	
<b>Material A (t<sub>I</sub>)</b>	Steel Quality S280GD, S320GD and S350GD - conform EN 10346	 QUALITY CONFIRMED
<b>Material B (t<sub>II</sub>)</b>	Steel Quality S235 – conform 10025-2 and S280GD, S320GD and S350GD - conform EN 10346	
<b>Drilling capacity</b>	Steel ≤ 10 mm	



		t <sub>NI</sub> [mm]	t <sub>II</sub> [mm]									
			0,75	0,88	1,00	1,13	1,25	1,50	2,00	3,00	4,00	> 6,00
	<b>V<sub>R,k</sub> [kN]</b>	<b>0,40</b>	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94
		<b>0,50</b>	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
		<b>0,55</b>	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24	1,24
		<b>0,63</b>	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39	1,39
		<b>0,75</b>	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
		<b>0,88</b>	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
		<b>1,00</b>	1,63	1,84	2,03	2,03	2,03	2,03	2,03	2,03	2,03	2,03
	<b>N<sub>R,k</sub> [kN]</b>	<b>0,40</b>	0,60	0,74	0,86	1,09	1,30	1,74	1,78	1,78	1,78	1,78
		<b>0,50</b>	0,60	0,74	0,86	1,09	1,30	1,74	2,53	2,53	2,53	2,53
		<b>0,55</b>	0,60	0,74	0,86	1,09	1,30	1,74	2,62	2,9	2,9	2,9
		<b>0,63</b>	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,49	3,49	3,49
		<b>0,75</b>	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,65	4,37	4,37
		<b>0,88</b>	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,65	4,37	4,37
		<b>1,00</b>	0,60	0,74	0,86	1,09	1,30	1,74	2,62	3,65	4,37	4,37
	<b>u [mm]</b>	<b>40</b>	10,0	9,5	9,0	9,0	8,5	8,0	7,0	5,0	4,5	3,5
		<b>50</b>	12,5	11,9	11,3	11,3	10,6	10,0	8,8	6,3	5,6	4,4
		<b>60</b>	15,0	14,3	13,5	13,5	12,8	12,0	10,5	7,5	6,8	5,3
		<b>80</b>	20,0	19,0	18,0	18,0	17,0	16,0	14,0	10,0	9,0	7,0
		<b>100</b>	25,0	23,8	22,5	22,5	21,3	20,0	17,5	12,5	11,3	8,8
		<b>120</b>	30,0	28,5	27,0	27,0	25,5	24,0	21,0	15,0	13,5	10,5
		<b>140</b>	35,0	33,3	31,5	31,5	29,8	28,0	24,5	17,5	15,8	12,3
		<b>&gt;160</b>	40,0	38,0	36,0	36,0	34,0	32,0	28,0	20,0	18,0	14,0

**Note**

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

