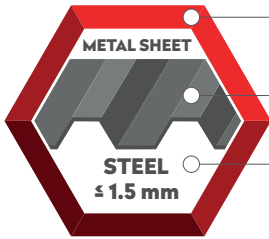




SELF-DRILL METAL TILE SHEET SCREW DP1

APPLICATION



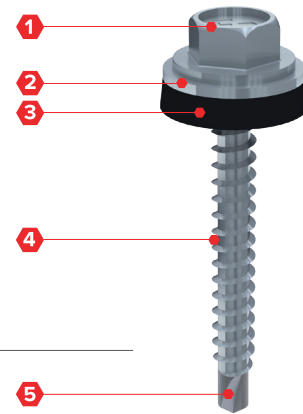
Bi-metal A2 304

Metal sheet Screw

Steel ≤ 1,5 mm

SPECIFICATION

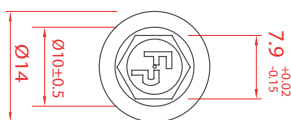
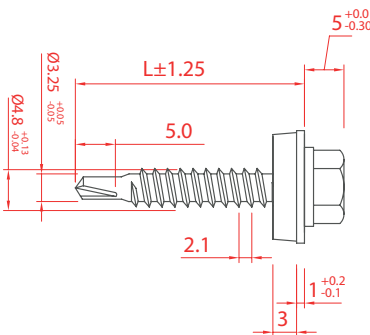
- 1 Head style 5/16" (8 mm)
- 2 Washer diameter standard 14 mm
- 3 SS EPDM bond seal
- 4 Thread for substructure steel ≤ 1,5 mm
- 5 Drilling point 1



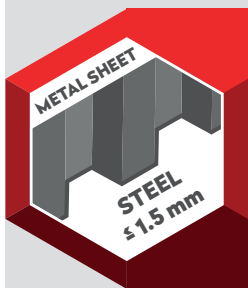
OPTIONS

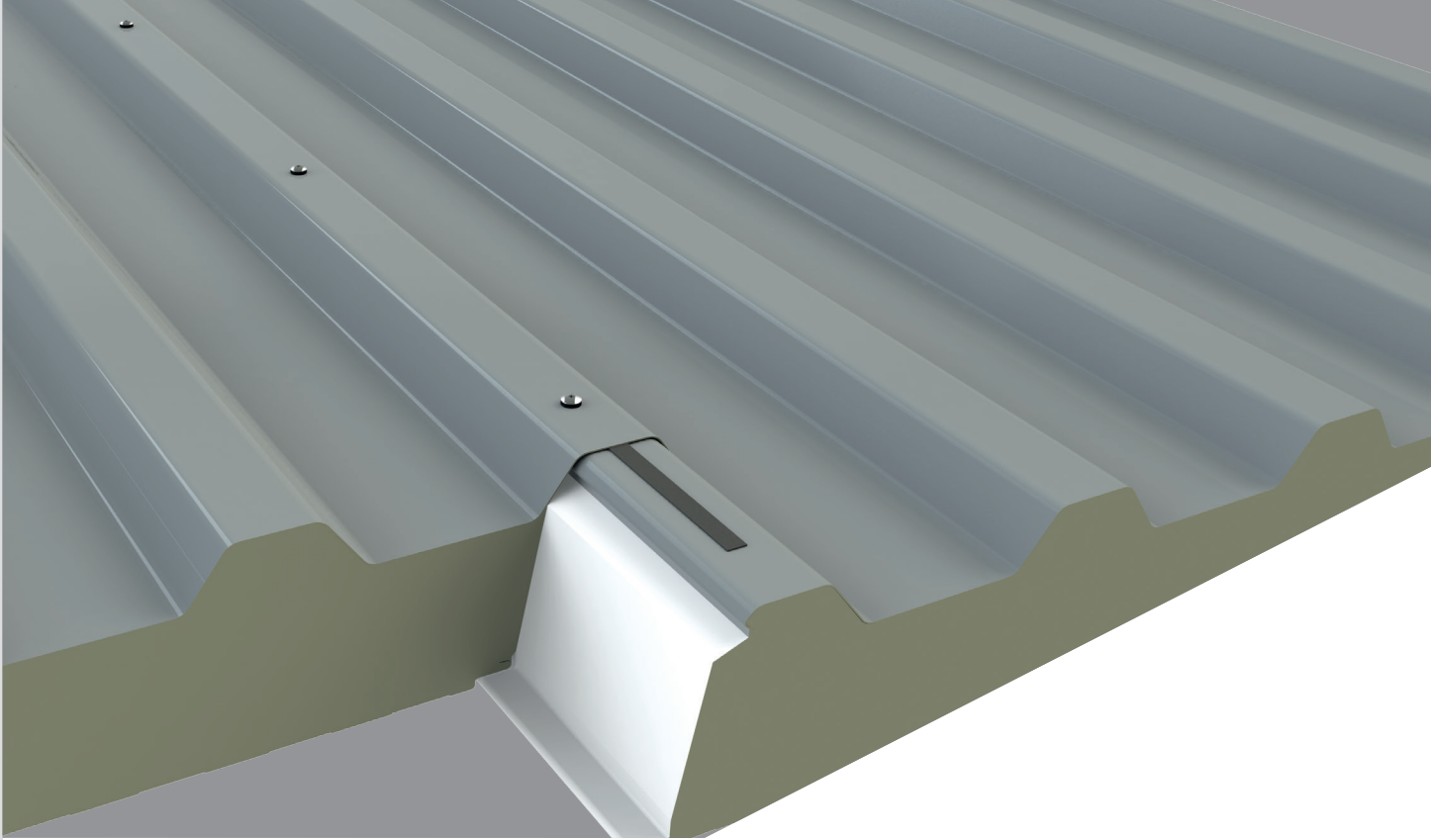
- 1 Powder coated in any desired RAL colour
- 2 Washer diameter 16 or 19 mm

SECTION



METAL SHEETS - STEEL ≤ 1,5 MM - BI-METAL A2 304





ORDER INFORMATION

Product	Size (L)	Packaging	Article code
Self-Drilling Metal Tile Sheet Screw 4,8 x 28 - DP1	28 mm	250 pcs/box	2001014802814
Self-Drilling Metal Tile Sheet Screw 4,8 x 35 - DP1	35 mm	250 pcs/box	2001014803514



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

CERTIFICATES

Deutsches
Institut
für
Bautechnik





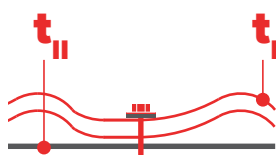
European
Technical Approval
ETA 17/0321

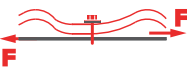
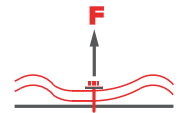


QUALITY
CONFIRMED

SELF-DRILLING METAL TILE SHEET SCREW 4,8 X L - DP1, WASHER DIAMETER Ø 14,0 MM

Materials		
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0321  QUALITY CONFIRMED
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506	
Material A (t_I)	Steel quality S280GD, S320GD and S350GD – conform EN 10346	
Material B (t_{II})	Steel quality S235 – conform EN 10025-2 and S280GD, S320GD and S350GD – conform EN 10346	
Drilling capacity	Steel $\leq 1,5$ mm	

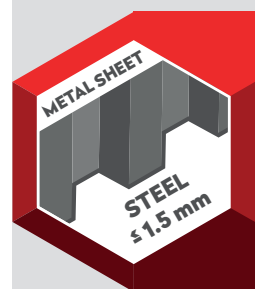


		t_{N1} [mm]	t_{II} [mm]									
			0,40	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	1,50
	$V_{R,k}$ [kN]	0,40	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64
		0,50	0,64	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91
		0,55	0,64	0,91	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16
		0,63	0,64	0,91	1,16	1,57	1,57	1,57	1,57	1,57	1,57	1,57
		0,75	0,64	0,91	1,16	1,57	2,17	2,17	2,17	2,17	2,17	2,17
		0,88	0,64	0,91	1,16	1,57	2,17	2,37	2,37	2,37	2,37	2,37
		1,00	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,56	2,56	2,56
		1,13	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,98	2,98	2,98
		1,25	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,98	3,38	3,38
	$N_{R,k}$ [kN]	0,40	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,52	1,52	1,52
		0,50	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,67	1,67	1,67
		0,55	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,00	2,00
		0,63	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,53
		0,75	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		0,88	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,00	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,13	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,25	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80



Note

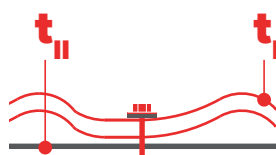
- Above mentioned values are characteristic values.
- To determine the design value we advise to apply a material factor of $\gamma_m = 1,33$.
- You can find further information and calculation examples on page 10.1.7.

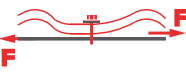
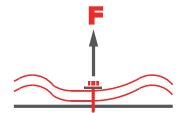
METAL SHEETS - STEEL $\leq 1,5$ MM - BI-METAL A2 304



SELF-DRILLING METAL TILE SHEET SCREW 4,8 X L - DP1, WASHER DIAMETER Ø 16,0 MM

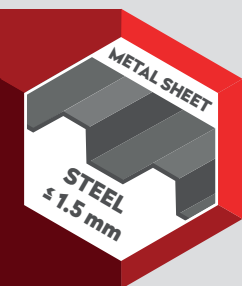
Materials		
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506	 European Technical Approval ETA 17/0321
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506	
Material A (t_I)	Steel quality S280GD, S320GD and S350GD - conform EN 10346	 QUALITY CONFIRMED
Material B (t_{II})	Steel quality S235 – conform EN 10025-2 and S280GD, S320GD and S350GD - conform EN 10346	
Drilling capacity	Steel ≤ 1,5 mm	



		t _{NI} [mm]	t _{II} [mm]									
			0,40	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	1,50
	V _{R,k} [kN]	0,40	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64
		0,50	0,64	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91
		0,55	0,64	0,91	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16
		0,63	0,64	0,91	1,16	1,57	1,57	1,57	1,57	1,57	1,57	1,57
		0,75	0,64	0,91	1,16	1,57	2,17	2,17	2,17	2,17	2,17	2,17
		0,88	0,64	0,91	1,16	1,57	2,17	2,37	2,37	2,37	2,37	2,37
		1,00	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,56	2,56	2,56
		1,13	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,98	2,98	2,98
		1,25	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,98	3,38	3,38
	N _{R,k} [kN]	0,40	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,70	1,70	1,70
		0,50	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	1,76	1,76
		0,55	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,16
		0,63	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,79
		0,75	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		0,88	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,00	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,13	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,25	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80


Note

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




SELF-DRILLING METAL TILE SHEET SCREW 4,8 X L - DP1, WASHER DIAMETER Ø 19,0 MM

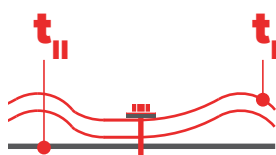
Materials	
Screw	Stainless steel 1.4301 (A2) – conform and ISO 3506
Washer	Stainless steel 1.4301 (A2) – conform and ISO 3506
Material A (t_I)	Steel quality S280GD, S320GD and S350GD – conform EN 10346
Material B (t_{II})	Steel quality S235 – conform EN 10025-2 and S280GD, S320GD and S350GD – conform EN 10346
Drilling capacity	Steel $\leq 1,5$ mm

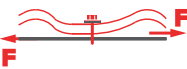
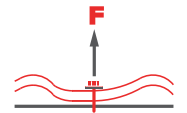


European
Technical Approval
ETA 17/0321



QUALITY
CONFIRMED



		t_{N1} [mm]	t_{II} [mm]									
			0,40	0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	1,50
	$V_{R,k}$ [kN]	0,40	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64	0,64
		0,50	0,64	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91
		0,55	0,64	0,91	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16
		0,63	0,64	0,91	1,16	1,57	1,57	1,57	1,57	1,57	1,57	1,57
		0,75	0,64	0,91	1,16	1,57	2,17	2,17	2,17	2,17	2,17	2,17
		0,88	0,64	0,91	1,16	1,57	2,17	2,37	2,37	2,37	2,37	2,37
		1,00	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,56	2,56	2,56
		1,13	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,98	2,98	2,98
		1,25	0,64	0,91	1,16	1,57	2,17	2,37	2,56	2,98	3,38	3,38
	$N_{R,k}$ [kN]	0,40	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,70	1,70	1,70
		0,50	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	1,76	1,76
		0,55	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,16
		0,63	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,79
		0,75	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		0,88	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,00	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,13	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80
		1,25	0,36	0,46	0,55	0,70	0,93	1,17	1,40	1,76	2,10	2,80

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.

METAL SHEETS - STEEL $\leq 1,5$ MM - BI-METAL A2 304

