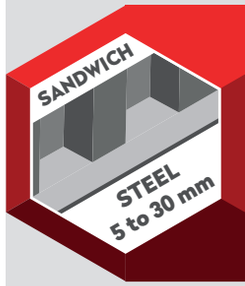
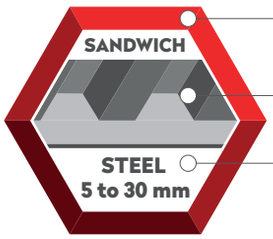
SANDWICH PANEL SCREW S30



APPLICATION



- Bi-metal A2 304
- Sandwich Panels
- Steel 5 to 30 mm

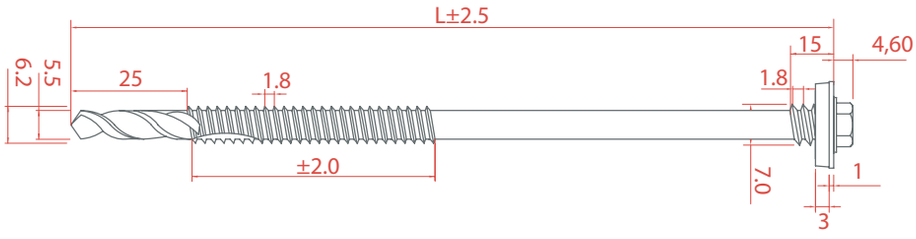
SPECIFICATION

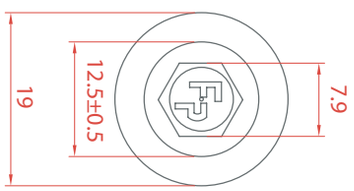
1. Head style 5/16" (8 mm)
2. Washer diameter standard 19 mm
3. SS EPDM bond seal
4. Support thread
5. Thread for substructure steel 5 to 30 mm
6. Drilling point S30

OPTIONS

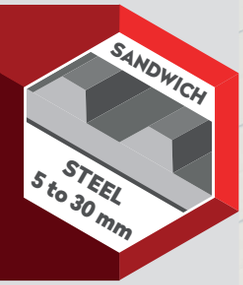
1. Powder coated in any desired RAL colour
2. Washer diameter 16 or 22 mm

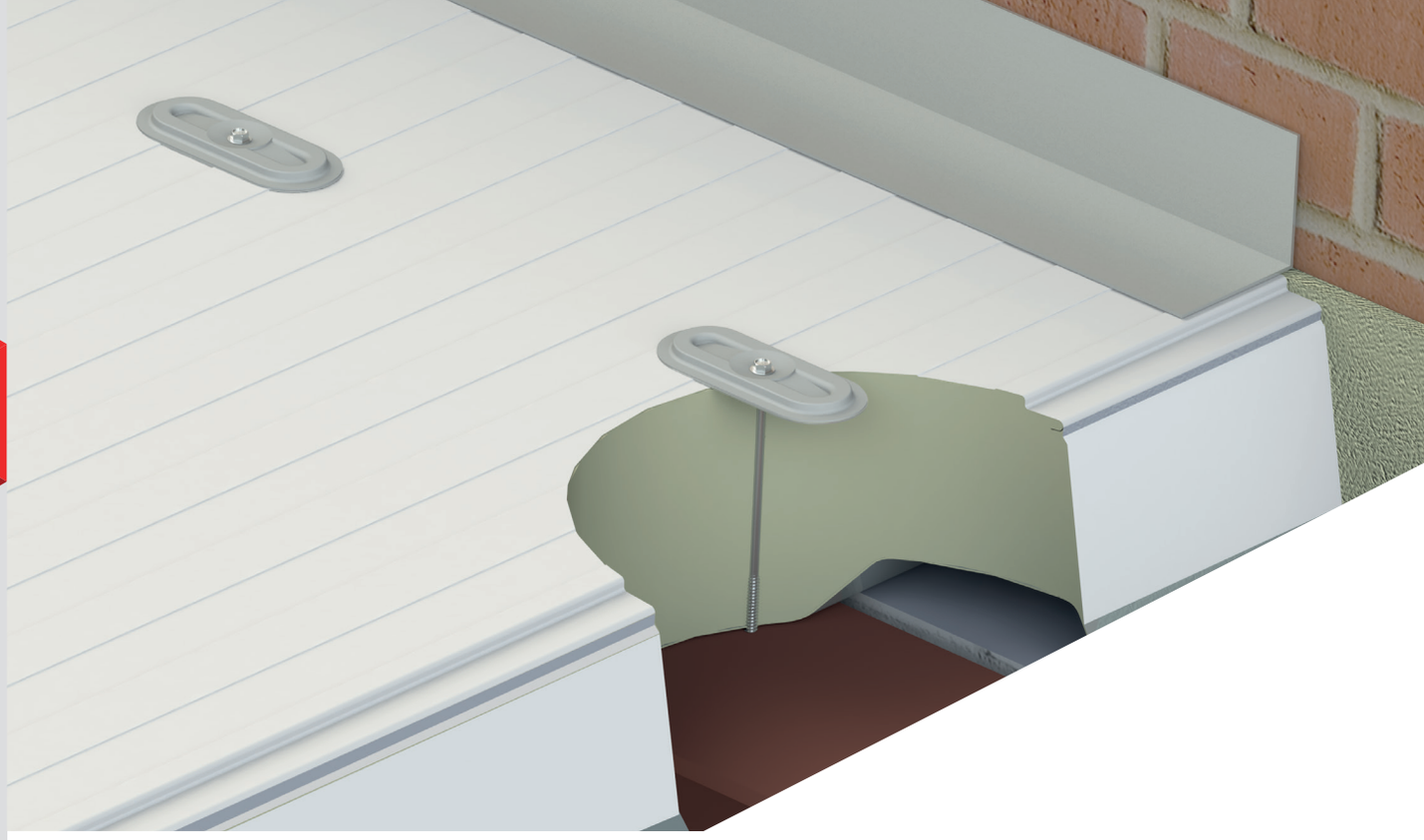
SECTION





SANDWICH PANELS - STEEL 5 TO 30 MM - BI-METAL A2 304





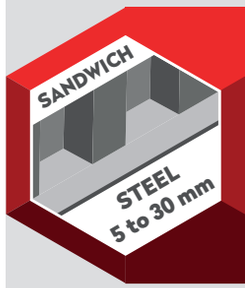
APPLICATION

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 210 mm							130 - 160 mm								1001Q963210
6,3/7,0 x 230 mm								150 - 180 mm							1001Q963230
6,3/7,0 x 250 mm									170 - 200 mm						1001Q963250
6,3/7,0 x 270 mm										190 - 220 mm					1001Q963270

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

SANDWICH PANEL SCREW S30

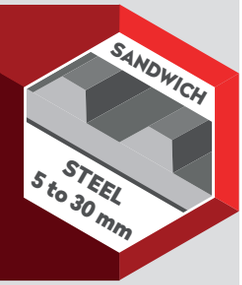


ORDER INFORMATION

Product	Washer	Size *(L)*	Packaging	Article code
Sandwich Panel 6,3-7,0 x 210 – S30	no	210 mm	100 pcs/box	1001Q963210
Sandwich Panel 6,3-7,0 x 210 – S30	yes	210 mm	100 pcs/box	1001Q96321019
Sandwich Panel 6,3-7,0 x 230 – S30	no	230 mm	100 pcs/box	1001Q963230
Sandwich Panel 6,3-7,0 x 230 – S30	yes	230 mm	100 pcs/box	1001Q96323019
Sandwich Panel 6,3-7,0 x 250 – S30	no	250 mm	100 pcs/box	1001Q963250
Sandwich Panel 6,3-7,0 x 250 – S30	yes	250 mm	100 pcs/box	1001Q96325019
Sandwich Panel 6,3-7,0 x 270 – S30	no	270 mm	100 pcs/box	1001Q963270
Sandwich Panel 6,3-7,0 x 270 – S30	yes	270 mm	100 pcs/box	1001Q96327019

CERTIFICATES

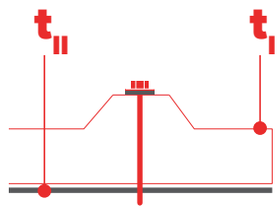
QUALITY
CONFIRMED



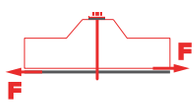
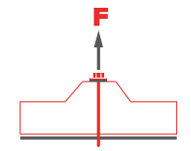
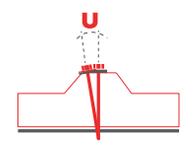
SANDWICH PANEL SCREW 6,3/7,0 X L – S30, WASHER DIAMETER Ø 16,0 MM

Materials	
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 ≤ 30 mm

QUALITY CONFIRMED



WASHER DIAMETER 16 mm

		t_{N1} [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
		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	1,59	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
		0,55	0,59	0,79	0,97	1,17	1,35	1,73	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
		0,75	0,59	0,79	0,97	1,17	1,35	1,73	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
		1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	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
		1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,61	2,61	2,61
	u [mm]	**40**	10,00	5,00	5,00	5,00	5,00	5,00	5,00	5,0	3,0	3,0
		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

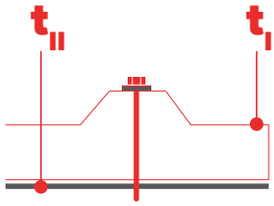
Note

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

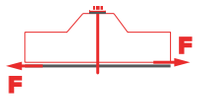
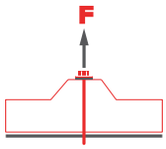
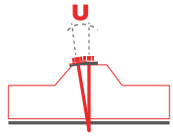
SANDWICH PANEL SCREW 6,3/7,0 X L – S30, WASHER DIAMETER Ø 19,0 MM

Materials	
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 ≤ 30 mm

QUALITY CONFIRMED



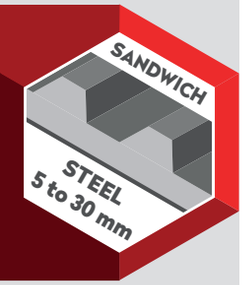
WASHER DIAMETER 19 mm

		t_{N1} [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
		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	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

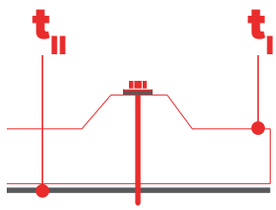
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of ym = 1,33.
3. You can find further information and calculation examples on page 10.1.7

SANDWICH PANEL SCREW 6,3/7,0 X L – S30, WASHER DIAMETER Ø 22,0 MM

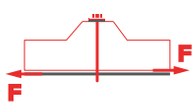
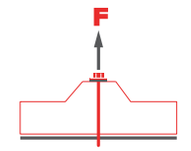
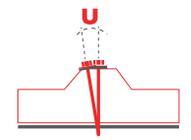


Materials	
Screw	SS 1.4301 (A2) - conform EN3506
Washer	SS 1.4301 (A2) - conform EN3506
Material A (t_I)	S280GD, S320GD and S350GD conform EN 10346
Material B (t_{II})	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346
Drilling capacity	Steel ≤ 30 mm

QUALITY CONFIRMED



WASHER DIAMETER 22 mm

		t_{N1} [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
		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

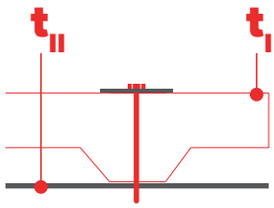
Note

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

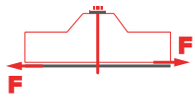
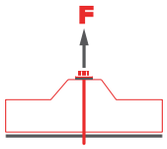
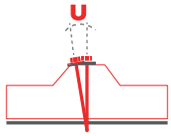
SANDWICH PANEL SCREW 6,3/7,0 X L – S30, SPREADER PLATE

Materials	
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 ≤ 30 mm

QUALITY CONFIRMED



SPREADER PLATE

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