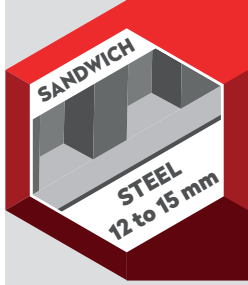
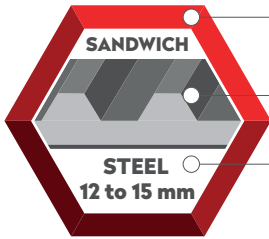




# SANDWICH PANEL SCREW S15



## APPLICATION



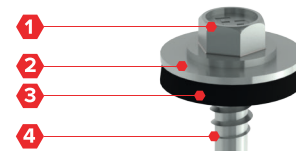
Bi-metal A2 304

Sandwich Panels

Steel 5 to 15 mm

## SPECIFICATION

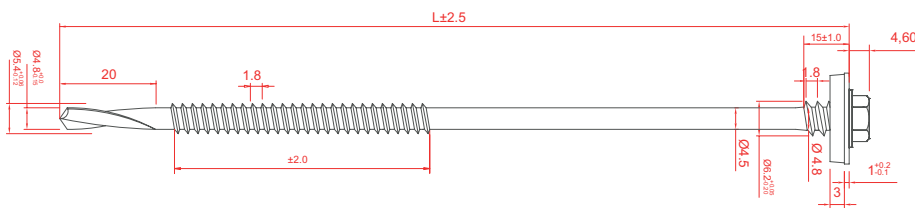
- 1 Head style 5/16" (8 mm)
- 2 Washer diameter standard 19 mm
- 3 SS EPDM bond seal
- 4 Support thread
- 5 Thread for substructure steel 5 to 15 mm
- 6 Drilling point S15



## OPTIONS

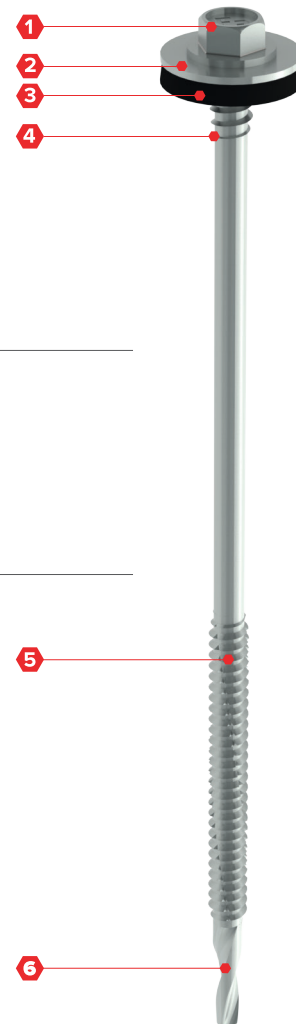
- 1 Powder coated in any desired RAL colour
- 2 Washer diameter 16 or 22 mm

## SECTION

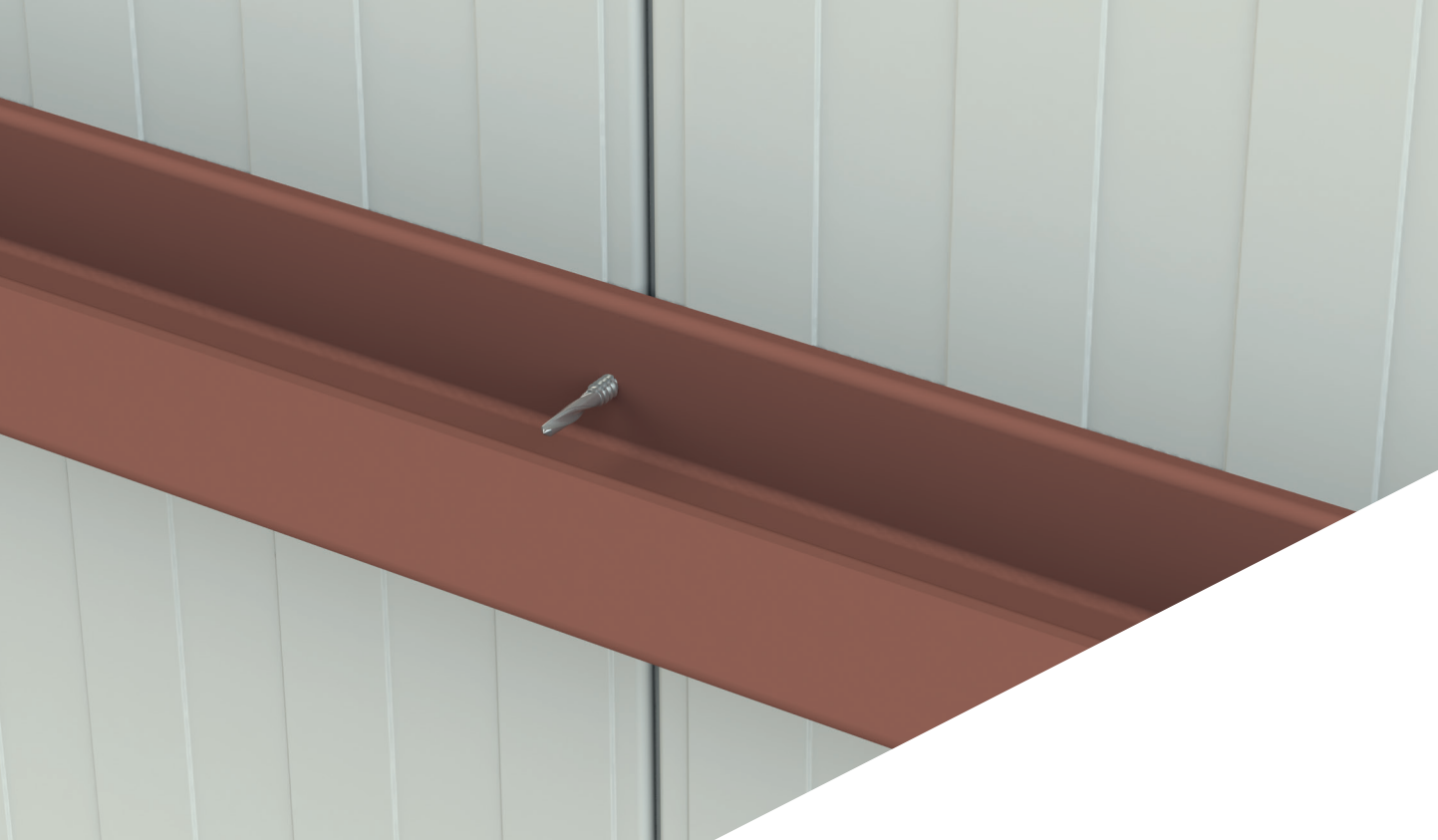
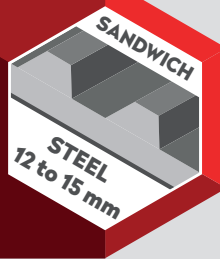


5

6



SANDWICH PANELS - STEEL 5 TO 15 MM - BI-METAL A2 304



SANDWICH PANELS - STEEL 5 TO 15 MM - BI-METAL A2 304

**APPLICATION**

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

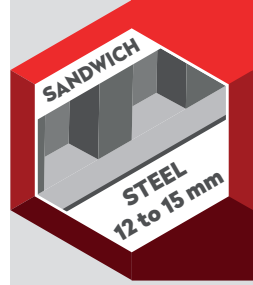
Size	Insulation thickness (mm)													Article code	
	20	40	60	80	100	120	140	160	180	200	220	240	260		280
5,5/6,3 x 95 mm	0 - 50 mm														1001Q55509519
5,5/6,3 x 115 mm		40 - 70 mm													1001Q55511519
5,5/6,3 x 135 mm			60 - 90 mm												1001Q55513519
5,5/6,3 x 155 mm				80 - 110 mm											1001Q55515519
5,5/6,3 x 175 mm					100 - 130 mm										1001Q55517519
5,5/6,3 x 195 mm						120 - 150 mm									1001Q55519519
5,5/6,3 x 210 mm							135 - 165 mm								1001Q55521019
5,5/6,3 x 230 mm								150 - 180 mm							1001Q55523019
5,5/6,3 x 250 mm									165 - 195 mm						1001Q55525019



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



# SANDWICH PANEL SCREW S15



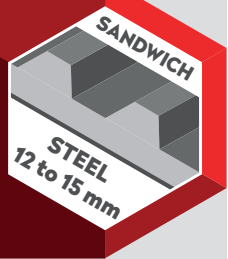
## ORDER INFORMATION

Product	Size (L)	Packaging	Article code
Sandwich Panel Screw 5,5-6,3 x 95 – S15	95 mm	100 pcs/box	1001Q55509519
Sandwich Panel Screw 5,5-6,3 x 115 – S15	115 mm	100 pcs/box	1001Q55511519
Sandwich Panel Screw 5,5-6,3 x 135 – S15	135 mm	100 pcs/box	1001Q55513519
Sandwich Panel Screw 5,5-6,3 x 155 – S15	155 mm	100 pcs/box	1001Q55515519
Sandwich Panel Screw 5,5-6,3 x 175 – S15	175 mm	100 pcs/box	1001Q55517519
Sandwich Panel Screw 5,5-6,3 x 195 – S15	195 mm	100 pcs/box	1001Q55519519
Sandwich Panel Screw 5,5-6,3 x 210 – S15	210 mm	100 pcs/box	1001Q55521019
Sandwich Panel Screw 5,5-6,3 x 230 – S15	230 mm	100 pcs/box	1001Q55523019
Sandwich Panel Screw 5,5-6,3 x 250 – S15	250 mm	100 pcs/box	1001Q55525019

## CERTIFICATES

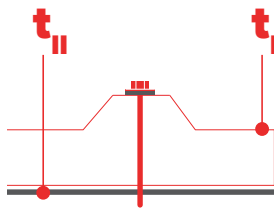


QUALITY  
CONFIRMED



**SANDWICH PANEL SCREW 5,5/6,3 X L – S15, WASHER DIAMETER Ø 16,0 MM**

Materials		
<b>Screw</b>	SS 1.4301 (A2) - conform EN3506	
<b>Washer</b>	SS 1.4301 (A2) - conform EN3506	
<b>Material A (<math>t_1</math>)</b>	S280GD, S320GD and S350GD conform EN 10346	
<b>Material B (<math>t_{II}</math>)</b>	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346	
<b>Drilling capacity</b>	Steel $\leq$ 15 mm	

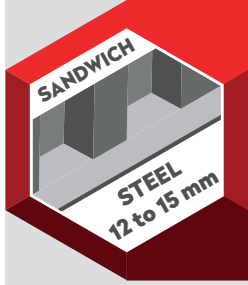


**SANDWICH PANELS - STEEL 5 TO 15 MM - BI-METAL A2 304**


		$t_{II}$ [mm]	$t_1$ [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	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16
		0,50	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64
		0,55	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95
		0,63	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44
		0,75	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		0,88	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,00	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,13	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,25	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
	$N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,53	1,53	1,53	1,53	1,53
		0,50	0,59	0,79	0,97	1,17	1,35	1,73	1,78	1,78	1,78	1,78
		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	1,86	1,86	1,86	1,86
		0,75	0,59	0,79	0,97	1,17	1,35	1,73	1,94	1,94	1,94	1,94
		0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,11	2,11	2,11	2,11
		1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,11	2,11	2,11	2,11
		1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,11	2,11	2,11	2,11
		1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,11	2,11	2,11	2,11
	$u$ [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
		$\geq 160$	40,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	12,00	12,00

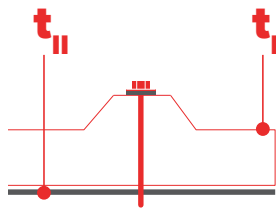
**Note**

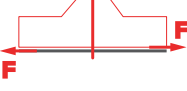
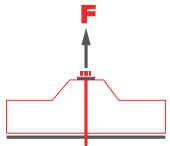
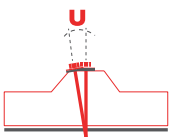
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7



**SANDWICH PANEL SCREW 5,5/6,3 X L - S15, WASHER DIAMETER Ø 19,0 MM**

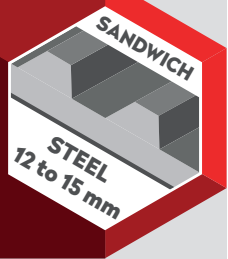
Materials		 QUALITY CONFIRMED
Screw	SS 1.4301 (A2) - conform EN3506	
Washer	SS 1.4301 (A2) - conform EN3506	
Material A ( $t_I$ )	S280GD, S320GD and S350GD conform EN 10346	
Material B ( $t_{II}$ )	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346	
Drilling capacity	Steel $\leq$ 15 mm	



		$t_{II}$ [mm]	$t_I$ [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	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16
		0,50	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64
		0,55	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95
		0,63	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44
		0,75	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		0,88	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,00	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,13	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,25	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
	$N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,72	1,72	1,72	1,72	
		0,50	0,59	0,79	0,97	1,17	1,35	1,73	2,14	2,14	2,14	
		0,55	0,59	0,79	0,97	1,17	1,35	1,73	2,27	2,27	2,27	
		0,63	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,48	2,48	
		0,75	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,80	2,80	
		0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,21	3,21	
		1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,21	3,21	
		1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,21	3,21	
		1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,21	3,21	
	$u$ [mm]	40	10,00	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
		$\geq 160$	40,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	12,00	12,00

**Note**

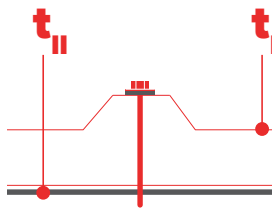
1. Above mentioned values are characteristic values
2. To determine the design value we advise to apply a material factor of  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7



**FP SANDWICH PANEL SCREW S15**

**SANDWICH PANEL SCREW 5,5/6,3 X L – S15, WASHER DIAMETER Ø 22,0 MM**

Materials	
<b>Screw</b>	SS 1.4301 (A2) - conform EN3506
<b>Washer</b>	SS 1.4301 (A2) - conform EN3506
<b>Material A (t<sub>I</sub>)</b>	S280GD, S320GD and S350GD conform EN 10346
<b>Material B (t<sub>II</sub>)</b>	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346
<b>Drilling capacity</b>	Steel ≤ 15 mm

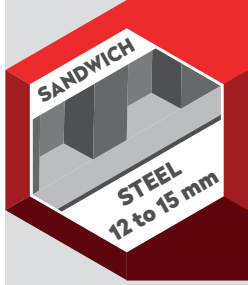


**SANDWICH PANELS - STEEL 5 TO 15 MM - BI-METAL A2 304**

		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	6,00	10,00	
	<b>V<sub>R,k</sub> [kN]</b>	<b>0,40</b>	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	
		<b>0,50</b>	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	
		<b>0,55</b>	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	
		<b>0,63</b>	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	
		<b>0,75</b>	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	
		<b>0,88</b>	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	
		<b>1,00</b>	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	
		<b>1,13</b>	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	
		<b>1,25</b>	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	
	<b>N<sub>R,k</sub> [kN]</b>	<b>0,40</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,23	2,23	2,23	2,23	
		<b>0,50</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,39	2,39	2,39	2,39	
		<b>0,55</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,52	2,52	2,52	
		<b>0,63</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,73	2,73	2,73	
		<b>0,75</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,04	3,04	3,04	
		<b>0,88</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,33	3,33	3,33	
		<b>1,00</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,33	3,33	3,33	
		<b>1,13</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,33	3,33	3,33	
		<b>1,25</b>	0,59	0,79	0,97	1,17	1,35	1,73	2,48	3,33	3,33	3,33	
	<b>u [mm]</b>	<b>40</b>	10,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,00	3,00	
		<b>50</b>	12,50	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	3,50	3,50
		<b>60</b>	15,00	7,50	7,50	7,50	7,50	7,50	7,50	7,50	7,50	4,50	4,50
		<b>80</b>	20,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	6,00	6,00
		<b>100</b>	25,00	12,50	12,50	12,50	12,50	12,50	12,50	12,50	12,50	7,50	7,50
		<b>120</b>	30,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	9,00	9,00
		<b>≥160</b>	40,00	20,00	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  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7

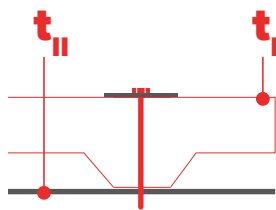


**SANDWICH PANEL SCREW 5,5/6,3 X L - S15, SPREADER PLATE**

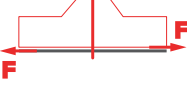
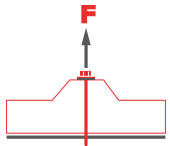
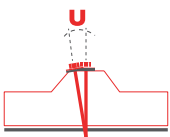
Materials	
Screw	SS 1.4301 (A2) - conform EN3506
Washer	SS 1.4301 (A2) - conform EN3506
Material A ( $t_I$ )	S280GD, S320GD and S350GD conform EN 10346
Material B ( $t_{II}$ )	S235 conform EN 10025-2, S280GD, S320GD and S350GD conform EN 10346
Drilling capacity	Steel $\leq$ 15 mm



QUALITY CONFIRMED



**SPREADER PLATE**

		$t_{II}$ [mm]	$t_I$ [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	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16
		0,50	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64	1,64
		0,55	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95	1,95
		0,63	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44	2,44
		0,75	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		0,88	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,00	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,13	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
		1,25	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18	3,18
	$N_{R,k}$ [kN]	0,40	0,59	0,79	0,97	1,17	1,35	1,70	1,70	1,70	1,70	1,70
		0,50	0,59	0,79	0,97	1,17	1,35	1,73	2,23	2,23	2,23	2,23
		0,55	0,59	0,79	0,97	1,17	1,35	1,73	2,31	2,31	2,31	2,31
		0,63	0,59	0,79	0,97	1,17	1,35	1,73	2,43	2,43	2,43	2,43
		0,75	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,61	2,61	2,61
		0,88	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,97	2,97	2,97
		1,00	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,97	2,97	2,97
		1,13	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,97	2,97	2,97
		1,25	0,59	0,79	0,97	1,17	1,35	1,73	2,48	2,97	2,97	2,97
	$u$ [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
		$\geq 160$	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  $\gamma_m = 1,33$ .
3. You can find further information and calculation examples on page 10.1.7

