

Racking Strength of Swisspearl Products

(EN 594, EN 1380 and EN 1995-1-1)

Product	Fastener	Fixing distances At edges/center (mm)	Tested values (EN 594) Racking Strength per 1200x2400mm board			Calculated values with safety margins based on EN 1995-1-1 and RIL 205-1-2017	
			Average kN	Lowest observed kN	Std. dev.	Racking strength kN per board	Coefficient of rigidity N/mm
Cembrit Windstopper Basic 9 mm	Verpa Senco B.V. HJ17ASAVR	200/300 Not fixed from short edges	3.74	3.3	0.39	2.66	253
	Kyocera Unimerco Fastening TJEP ZE25/50 No. 835450	200/300 Not fixed from short edges				2.65	85
Cembrit Windstopper Extreme 4.5 mm	Verpa Senco B.V. HJ17ASAVR	200/300 Not fixed from short edges	3.32	3.18	0.18	2.02	299
Cembrit Windstopper Extreme 9 mm	Kyocera Unimerco Fastening TJEP ZE25/50 No. 835450	100/150 Not fixed from short edges	6.33	6.11	0.26	5.26	238
	Verpa Senco B.V. HJ17ASAVR	100/150 Not fixed from short edges				5.07	238
	Kyocera Unimerco Fastening TJEP ZE25/50 No. 835450	200/300 Not fixed from short edges				2.86	127
	Verpa Senco B.V. HJ17ASAVR	200/300 Not fixed from short edges				2.76	127

Racking Strength of Swisspearl Products

(EN 594, EN 1380 and EN 1995-1-1)

Product	Fastener	Fixing distances At edges/center (mm)	Tested values (EN 594) Racking Strength per 1200x2400mm board			Calculated values with safety margins based on EN 1995-1-1 and RIL 205-1-2017	
			Average kN	Lowest observed kN	Std. dev.	Racking strength kN per board	Coefficient of rigidity N/mm
Swisspearl Multi Force 9 mm	Ferrometal / Fix Master 951842 35 007 1000	200/300	7.67	7.39	0.28	6.55	469
	RED HORSE CSH-R 3.9-4.8X38#1 PHD	200/300					
Swisspearl Multi Force 12 mm	Ferrometal / Fix Master 951842 35 007 1000	200/300	8.28	7.9	0.47	6.75	379
	RED HORSE CSH-R 3.9-4.8X38#1 PHD	200/300				6.72	379

Racking Strength of Swisspearl Products

(EN 594, EN 1380 and EN 1995-1-1)

Übersicht über die Racking Strengths der Swisspearl-Produkte (EN 594, EN 1380 und EN 1995-1-1)

Produkttyp	G1	G2	G3	G4	G5	G6	H1	H2
Spannweite	1,0m	1,2m	1,5m	2,0m	2,5m	3,0m	3,5m	4,0m