

# Spin In Quartz Capsules



## LOAD DATA - NON-CRACKED CONCRETE

### HIGH TENSILE ZINC PLATED STEEL GRADE 8.8

Grade 8.8 Zinc Plated Studs Performance Data (C20/25 non-cracked concrete)

Thread Diam (d) mm	Minimum Hole Depth (h <sub>0</sub> ) mm	Minimum Concrete Thickness (h <sub>min</sub> ) mm	Characteristic Resistance kN		Design Resistance kN		Approved Resistance kN		Design Spacing (S) mm		Design Edge Distance (C) mm	
			Tensile (N <sub>Rk</sub> )	Shear (V <sub>Rk</sub> )	Tensile (N <sub>Rd</sub> )	Shear (V <sub>Rd</sub> )	Tensile (N <sub>Rs</sub> )	Shear (V <sub>Rs</sub> )	Tensile	Shear	Tensile	Shear
8	80	110	24.0	15.0	16.0	12.0	11.4	8.5	200	40	110	120
10	90	120	33.9	23.0	22.6	18.4	16.1	13.1	260	50	130	170
12	110	140	49.6	34.0	33.1	27.2	23.6	19.4	310	60	160	230
16	125	165	70.5	63.0	47.0	50.4	33.5	36.0	380	70	190	390
20	170	215	111.9	98.0	74.6	78.4	53.2	56.0	510	100	260	530
24	210	270	153.6	141.0	102.4	112.8	73.1	80.5	630	140	320	670
30	280	350	236.5	224.0	131.4	179.2	93.8	128.0	840	420	420	920

### STAINLESS STEEL GRADE A4/316

Grade A4-70 Stainless Steel Studs Performance Data (C20/25 non-cracked concrete)

Thread Diam (d) mm	Minimum Hole Depth (h <sub>0</sub> ) mm	Minimum Concrete Thickness (h <sub>min</sub> ) mm	Characteristic Resistance kN		Design Resistance kN		Approved Resistance kN		Design Spacing (S) mm		Design Edge Distance (C) mm	
			Tensile (N <sub>Rk</sub> )	Shear (V <sub>Rk</sub> )	Tensile (N <sub>Rd</sub> )	Shear (V <sub>Rd</sub> )	Tensile (N <sub>Rs</sub> )	Shear (V <sub>Rs</sub> )	Tensile	Shear	Tensile	Shear
8	80	110	25.9	13.0	13.9	8.3	9.9	5.9	140	40	90	80
10	90	120	39.8	20.0	21.3	12.8	15.2	9.1	220	50	120	120
12	110	140	58.9	30.0	31.5	19.2	22.5	13.7	280	60	150	160
16	125	165	70.5	55.0	47.0	35.2	33.5	25.1	380	70	190	260
20	170	215	111.9	86.0	74.6	55.1	53.2	39.3	510	90	260	350
24	210	270	153.6	124.0	102.4	79.4	73.1	56.7	630	110	320	450
30	280	350	236.5	196.0	131.4	125.6	93.8	89.7	840	140	420	600

### ZINC PLATED STEEL GRADE 5.8

Grade 5.8 Zinc Plated Studs Performance Data (C20/25 non-cracked concrete)

Thread Diam (d) mm	Minimum Hole Depth (h <sub>0</sub> ) mm	Minimum Concrete Thickness (h <sub>min</sub> ) mm	Characteristic Resistance kN		Design Resistance kN		Approved Resistance kN		Design Spacing (S) mm		Design Edge Distance (C) mm	
			Tensile (N <sub>Rk</sub> )	Shear (V <sub>Rk</sub> )	Tensile (N <sub>Rd</sub> )	Shear (V <sub>Rd</sub> )	Tensile (N <sub>Rs</sub> )	Shear (V <sub>Rs</sub> )	Tensile	Shear	Tensile	Shear
8	80	110	22.4	9.0	12.0	7.2	8.5	5.1	80	40	70	70
10	90	120	36.0	14.0	19.3	11.2	13.7	8.0	170	50	110	110
12	110	140	52.3	21.0	28.0	16.8	20.0	12.0	210	60	130	130
16	125	165	70.5	39.0	47.0	31.2	33.5	22.2	380	70	190	230
20	170	215	111.9	61.0	74.6	48.8	53.2	34.8	510	90	260	310
24	210	270	153.6	88.0	102.4	70.4	73.1	50.2	630	110	320	390
30	280	350	236.5	140.0	131.4	112.0	93.8	80.0	840	140	420	520