

Throughbolt B.Z.P.

Non-Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam	Characteristic Resistance		Design Resistance		Recommended Resistance ($\gamma_F=1.4$)		Design Spacing	Design Edge Distance	
mm	kN		kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
6	5.5	5.0	3.0	3.7	2.2	2.4	70	35	70
8	7.4	9.2	4.1	4.9	2.9	3.5	85	45	85
10	11.2	14.5	6.2	7.5	4.4	5.4	110	55	100
12	17.9	21.2	9.8	11.8	7.0	8.4	150	75	115
16	23.8	33.4	13.2	20.0	9.4	14.3	170	95	165
20	30.1	49.0	16.7	29.3	11.8	20.9	215	110	200
24	40.9	70.6	22.7	42.3	16.2	30.1	260	130	230

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

For variations in structure thickness, reduced spacing and edge calculations download the free **Anchor Calculation Program** from www.jcpfixings.co.uk

Influence of concrete strength

Concrete strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
Cylinder	N/mm ²	20	25	30	40	45	50
Cube	N/mm ²	25	30	37	50	55	60
Factor		1.0	1.1	1.22	1.41	1.48	1.55