

Heavy Duty Anchor

Non-Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam mm	Characteristic Resistance kN		Design Resistance (γ_{Ms} frpm ETA) kN		Approved Resistance ($\gamma_F=1.4$) kN		Design Spacing mm	Design Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
6	16.0	18.0	10.6	14.3	7.5	10.2	120	105	150
8	20.0	30.0	13.3	23.9	9.5	17.0	130	120	235
10	30.0	48.0	19.9	38.3	14.2	27.3	210	170	345
12	35.0	72.5	23.3	48.1	16.6	34.3	225	205	400

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

Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam mm	Characteristic Resistance kN		Design Resistance (γ_{Ms} frpm ETA) kN		Approved Resistance ($\gamma_F=1.4$) kN		Design Spacing mm	Design Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Tensile
6	5.0	18.0	3.3	14.3	2.3	10.2	50 ($C_{min} \geq 80$)	50 ($S_{min} \geq 100$)	220
8	12.0	33.4	7.9	22.3	5.6	15.9	75 ($C_{min} \geq 100$)	60 ($S_{min} \geq 120$)	315
10	16.0	43.0	10.6	28.7	7.5	20.5	105 ($C_{min} \geq 110$)	70 ($S_{min} \geq 215$)	365
12	25.0	51.5	16.6	34.3	11.8	24.5	225 ($C_{min} \geq 120$)	115 ($S_{min} \geq 245$)	405

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

(C_{min} = Minimum Edge Distance for Spacing, S_{min} = Minimum Spacing for Edge Distance)