

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
8	20.0	25.0	13.3	19.9	9.5	14.2	130	105	190
10	30.0	43.4	19.9	28.7	14.2	20.5	210	170	250
12	35.0	72.5	23.3	48.1	16.6	34.3	225	200	400
16	50.0	101.0	33.3	67.2	23.7	48.0	290	250	485

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
8	12.0	25.0	7.9	19.9	5.6	14.2	60 ($C_{min} \geq 100$)	60 ($S_{min} \geq 120$)	315
10	16.0	43.0	10.6	28.7	7.5	20.5	115 ($C_{min} \geq 110$)	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
16	36.0	72.0	23.9	48.0	17.0	34.2	300 ($C_{min} \geq 150$)	150 ($S_{min} \geq 300$)	490

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

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