

The DSI THREADBAR is a steel bar with continuous coarse threads hot rolled on two opposite sides. The continuous threads allow for anchorage and coupler installation anywhere along the bar. The coarse threads provide excellent bond to grout and are insensitive to dirt and damage. In addition, there is no loss of strength due to thread cutting.

Post-Tensioning Threadbar: F, WR & E Grade

Designation	F	WR	WR	WR	WR	E	E	E
Minimum Ultimate Grade (MPa)	1080	1050	1050	1050	1050	1035	1035	1035
Minimum Yield Grade (MPa)	890	950	950	950	950	835	835	835
Nominal Diameter (mm)	15	26.5	32	36	40	57	65	75
Minimum Breaking Load (kN)	191	579	844	1069	1319	2671	3447	4572
Minimum Yield Load (kN)	157	524	764	967	1194	2155	2780	3690
Cross-section Area (mm ²)	177	552	804	1018	1257	2581	3331	4418
Maximum Thread Diameter (mm)	17.2	30.5	36.3	41.4	45.3	64	72	82
Unit Weight (kg/m)	1.44	4.48	6.53	8.27	10.21	20.95	27.10	35.90
Minimum Bar Protrusion: P ₁ (mm)	53	85	100	105	125	120	130	145
Dome Nut p/n: D 2001	L (mm)	-	75	90	100	115	-	-
	A/F ₂ (mm)	-	50	60	65	70	-	-
Hex Nut p/n: WR 2002	L (mm)	50	80	90	110	120	130	145
	A/F ₂ (mm)	30	46	55	60	70	90	100
Coupler p/n: D 3003	C (mm)	105	170	200	210	250	240	290
	D (mm)	30	55	65	72	71	95	105
Typical Plate for Rock Anchors	W (mm)	-	180	200	220	240	330	370
	T (mm)	-	40	45	50	55	70	75
Typical Plate for Concrete	W (mm)	130	160	180	200	220	280	320
	T (mm)	10	40	45	50	55	70	75

Typical applications: Prestressed soil and rock anchors, concrete prestressing, tie-rods, tie-downs and rock bolting.

Specifications: Threads are right hand. Threadbars are proof stressed to 80% of their ultimate strength and stress relieved at the mill.

Notes

- 1) Minimum Threadbar protrusion to accommodate tensioning or coupling; $P = \frac{1}{2}C$ (mm).
- 2) Width measured across flats of nut.
- 3) Other hardware available not shown.
- 4) Corrosion protection available: pre-grouting in sheathing, hot dipped galvanising & epoxy coating.

