


DYWIDAG THREADBARS - TECHNICAL DATA [IMPERIAL UNITS]

August 15, 2014, DSI Surrey, BC

STEEL GRADE <i>f_y/f_u</i> ksi	Nominal Bar Diameter in	Steel Area A _s in ²	Yield Load P _y = f _y A _s kips	Ultimate Load P _u = f _u A _s kips	Lineal Weight lbs/ft	Max. Bar Ø Across Ribs in	Mill Length ft	Direction of Thread L or R
130/160 ksi Hot-Rolled Threadbar Form-Ties, Post-Tensioning, Ground Anchors	⁵ / ₈ ⁵ / ₈ "	0.27	35.8	43.8	0.97	0.69	19.3	R
	⁷ / ₈ ⁷ / ₈ "	0.49	64.1	78.4	1.75	0.91	39	R
120/150 ksi ASTM A722 Hot-Rolled Threadbar PT Ground Anchors Post-Tensioning *Cold-Rolled Threadbar Steel Grade for 1 ³ / ₄ ": 127/155 ksi	1 1"	0.85	102.8	127.5	3.01	1.20	60	R
	1 ¹ / ₄ 1 ¹ / ₄ "	1.25	151.2	187.5	4.39	1.44	60	R
	1 ³ / ₈ 1 ³ / ₈ "	1.58	191.2	237.0	5.56	1.63	60	R
	*1 ³ / ₄ 1 ³ / ₄ "	2.58	328.0	400.0	9.22	2.01	45	R
	*2 ¹ / ₂ 2 ¹ / ₂ "	5.16	619.2	774.0	18.20	2.79	45	R
	*3 3"	6.85	822.0	1027.0	24.09	3.15	45	R
75/100 ksi CSA G30.18 ASTM A615 Hot-Rolled Threadbar Tie Rods Hanging Rods Micropiles (GEWI-Piles) Anchor Bolts Concrete Reinforcing Ground Anchors Seismic Anchors Rock Bolts Soil Nailing Precast Connections ** 80/105 ksi * Cold-Rolled Threadbar	³ / ₄ #6	0.44	33.0	44.0	1.50	0.86	48	L
	⁷ / ₈ #7	0.60	45.0	60.0	2.04	0.99	60	L
	1 #8	0.79	59.3	79.0	2.67	1.12	60	L
	1 ¹ / ₈ #9	1.00	75.0	100.0	3.40	1.26	60	L
	1 ¹ / ₄ #10	1.27	95.3	127.0	4.30	1.43	60	L
	1 ³ / ₈ #11	1.56	117.0	156.0	5.31	1.61	60	L
	** 1 ³ / ₄ #14	2.25	180.0	236.2	7.65	1.86	60	R
	** 2 ¹ / ₄ #18	4.00	320.0	420.0	13.60	2.50	60	R
	** 2 ¹ / ₂ #20	4.91	393.0	515.6	16.70	2.72	60	L
		*3 #24	7.06	529.5	706.0	24.09	3.18	45
	*3 ¹ / ₂ #28	9.62	721.5	962.0	32.79	3.68	45	L
73/80 ksi Tempcore Threadbar Equivalent to ASTM A706 Hot-Rolled Threadbar Charpy V Notch Toughness: Min. Average 20 ft-lbs @ -20°F Seismic Anchors & Anchor Bolts Seismic Reinforcing & Restrainers Cold Temperature Applications	20T 20Ø	0.49	35.3	38.9	1.66	0.906	49	L
	25T 25Ø	0.76	55.3	60.7	2.58	1.098	49	L
	28T 28Ø	0.95	69.2	76.2	3.24	1.228	49	L
	32T 32Ø	1.25	90.4	99.3	4.23	1.406	49	L
	40T 40Ø	1.95	141.2	155.3	6.62	1.760	49	L
	50T 50Ø	3.00	220.8	242.8	10.34	2.189	49	L
DYWI-DRILL Hollow Bar CSA G30.18 73 ksi min. Yield Stress ASTM A615 Soil Nails Micropiles Ground Anchors Bars & hardware available in Hot Dip Galvanized or Metalized Temporary Drill Casing not required  R = Rope Threads T = Trapezoidal Threads	R25N 15mm core	0.41	34	45	1.41	1.00	9.8	L
	R32N 24mm core	0.56	52	63	1.88	1.25	9.8	L
	T30N 15mm core	0.64	58	72	2.15	1.18	9.8	L
	R32S 19mm core	0.72	63	81	2.49	1.25	9.8	L
	R38N 24mm core	1.00	90	112	3.43	1.50	9.8	L
	T40L 24mm core	1.08	96	121	3.70	1.57	9.8	L
	R51L 39mm core	1.17	101	124	3.96	2.00	9.8	L
	T40N 18mm core	1.32	118	148	4.50	1.58	9.8	L
	R51N 33mm core	1.61	142	180	5.44	2.00	9.8	L
	T52N 29mm core	1.86	164	209	6.32	2.05	9.8	L
	T76N 53mm core	3.32	270	360	11.29	3.00	9.8	L
	T76S 45mm core	3.88	337	427	13.24	3.00	9.8	L

Approximate Modulus of Elasticity: E=29,700 ksi

Double Corrosion Protection (DCP) recommended for post-tensioned permanent ground anchors

