


DYWIDAG THREADBAR® - TECHNICAL DATA [IMPERIAL UNITS]

May 16, 2011

Steel Grade f_y / f_u ksi	Nominal Bar Diameter		Steel Area A_s in ²	Yield Load $P_y = f_y A_s$ kips	Ult. Load $P_u = f_u A_s$ kips	Nominal Wt. lbs/ft	Max. Bar Ø Across Ribs in	Mill length ft	Direction of Thread L or R
	in	in							
130/160 ksi Hot-Rolled THREADBAR® Form-Ties, Post-Tensioning, Ground Anchors	⁵ / ₈	⁵ / ₈ "	0.27	35.7	43.6	0.99	0.693	19.3	R
	³ / ₄	³ / ₄ "	0.49	63.4	77.5	1.74	0.900	39	R
120/150 ksi ASTM A722 except 3" Ø Hot-Rolled THREADBAR® PT Ground Anchors Post-Tensioning *Cold-Rolled THREADBAR®	1	1"	0.85	102.0	127.5	3.01	1.201	60	R
	1 ¹ / ₄	1 ¹ / ₄ "	1.25	150.0	187.5	4.39	1.457	60	R
	1 ³ / ₈	1 ³ / ₈ "	1.58	189.6	237.0	5.56	1.630	60	R
	*1 ³ / ₄	1 ³ / ₄ "	2.58	320.0	400.0	9.22	2.009	45	R
	*2 ¹ / ₂	2 ¹ / ₂ "	5.16	619.2	774.0	18.20	2.790	45	R
	*3	3"	6.85	822.0	1027.0	24.10	3.150	45	R
75/100 ksi CSA G30.18 ASTM A615 except #20, #24, #28 Hot-Rolled THREADBAR® Tie Rods Hanging Rods Micropiles (<i>GEW</i> ® Piles) Anchor Bolts Concrete Reinforcing Seismic Anchors Rock Bolts Ground Anchors Soil Nailing Precast Connections	³ / ₄	#6	0.44	33.0	44.0	1.50	0.862	48	L
	⁷ / ₈	#7	0.60	45.0	60.0	2.04	0.996	60	L
	1	#8	0.79	59.3	79.0	2.67	1.122	60	L
	1 ¹ / ₈	#9	1.00	75.0	100.0	3.40	1.268	60	L
	1 ¹ / ₄	#10	1.27	95.3	127.0	4.30	1.433	60	L
	1 ³ / ₈	#11	1.56	117.0	156.0	5.31	1.614	60	L
	1 ³ / ₄	#14	2.25	168.8	225.0	7.65	1.862	60	R
	** 2 ¹ / ₂	#20	4.91	393.0	520.0	16.70	2.717	60	L
	*3	#24	7.06	529.5	706.0	24.09	3.181	45	L
	*Cold-Rolled THREADBAR®	*3 ¹ / ₂	#28	9.62	721.5	962.0	32.79	3.681	45
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	13mm Ave core	0.45	34	45	1.56	1.00	9.8	L
	R32N	18mm Ave core	0.67	52	63	2.28	1.25	9.8	L
	T30/11	11mm Ave core	0.73	58	72	2.48	1.18	9.8	L
	R32S	11mm Ave core	0.81	63	81	2.76	1.25	9.8	L
	R38N	17mm Ave core	1.19	90	112	4.1	1.50	9.8	L
	R51L	35mm Ave core	1.38	101	124	4.70	2.00	9.8	L
	T40/16	16mm Ave core	1.41	118	148	4.77	1.58	9.8	L
	R51N	28mm Ave core	1.66	142	180	5.64	2.00	9.8	L
	T76N	45mm Ave core	3.29	270	360	11.20	3.00	9.8	L
	T76S	35mm Ave core	4.26	337	427	14.80	3.00	9.8	L

Approximate Modulus of Elasticity: E=29,700 ksi

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

