


## DYWIDAG THREADBAR® - TECHNICAL DATA [METRIC UNITS]

May 16, 2011

Steel Grade $f_y / f_u$ MPa	Nominal Bar Diameter mm	Steel Area $A_s$ mm <sup>2</sup>	Yield Load $P_y = f_y A_s$ kN	Ult. Load $P_u = f_u A_s$ kN	Nominal Wt. kg/m	Max. Bar Ø Across Ribs mm	Mill length m	Direction of Thread L or R
<b>900/1100 MPa</b> <b>Hot-Rolled THREADBAR®</b> Form-Ties, Post-Tensioning, Ground Anchors	15    5/8"	177	159	<b>194</b>	1.50	17.6	5.9	R
	20    3/4"	314	282	<b>345</b>	2.60	22.9	11.9	R
<b>830/1035 MPa</b> <b>ASTM A722</b> except 3" Ø  <b>Hot-Rolled THREADBAR®</b>  PT Ground Anchors Post-Tensioning  <b>*Cold-Rolled THREADBAR®</b>	26    1"	548	456	<b>567</b>	4.48	30.5	18.3	R
	32    1 1/4"	806	669	<b>834</b>	6.53	36.7	18.3	R
	36    1 3/8"	1,019	845	<b>1,054</b>	8.27	41.4	18.3	R
	*46    1 3/4"	1,664	1,423	<b>1,779</b>	13.72	51.0	13.7	R
	*66    2 1/2"	3,331	2,754	<b>3,470</b>	26.36	70.9	13.7	R
	*75    3"	4,419	3,650	<b>4,568</b>	35.85	80.0	13.7	R
<b>517/690 MPa</b> <b>CSA G30.18</b> <b>ASTM A615</b> except #20, #24, #28  <b>Hot-Rolled THREADBAR®</b>  Tie Rods Hanging Rods Micropiles ( <i>GEW</i> ® Piles) Anchor Bolts Concrete Reinforcing Seismic Anchors Rock Bolts Ground Anchors Soil Nailing Precast Connections	19    #6	284	<b>147</b>	196	2.23	21.9	14.7	L
	22    #7	387	<b>200</b>	267	3.04	25.3	18.3	L
	25    #8	510	<b>264</b>	351	3.97	28.5	18.3	L
	28    #9	645	<b>334</b>	445	5.06	32.2	18.3	L
	32    #10	819	<b>424</b>	565	6.40	36.4	18.3	L
	35    #11	1,006	<b>520</b>	694	7.91	41.0	18.3	L
	43    #14	1,452	<b>751</b>	1,001	11.38	47.3	18.3	R
	57    #18	2,581	<b>1,335</b>	1,779	20.24	63.6	18.3	R
	** 63    #20	3,168	<b>1,748</b>	2,312	24.85	69.0	18.3	L
	*75    #24	4,555	<b>2,355</b>	3,141	35.85	80.8	13.7	L
	*90    #28	6,207	<b>3,209</b>	4,279	48.79	93.5	13.7	L
	<b>DYWI® Drill Hollow Bar</b> <b>CSA G30.18</b> <b>500MPa min. Yield Stress</b> <b>ASTM A615</b>  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	<b>R25N</b> 13mm Ave core	290	<b>150</b>	200	2.3	25.0	3.0
<b>R32N</b> 18mm Ave core		430	<b>230</b>	280	3.4	32.0	3.0	L
<b>T30/11</b> 11mm Ave core		470	<b>260</b>	320	3.7	30.0	3.0	L
<b>R32S</b> 11mm Ave core		520	<b>280</b>	360	4.1	32.0	3.0	L
<b>R38N</b> 17mm Ave core		770	<b>400</b>	500	6.1	38.0	3.0	L
<b>R51L</b> 35mm Ave core		890	<b>450</b>	550	7.0	51.0	3.0	L
<b>T40/16</b> 16mm Ave core		910	<b>525</b>	660	7.1	40.0	3.0	L
<b>R51N</b> 28mm Ave core		1,070	<b>630</b>	800	8.4	51.0	3.0	L
<b>T76N</b> 45mm Ave core		2,120	<b>1,200</b>	1,600	16.7	76.0	3.0	L
<b>T76S</b> 35mm Ave core		2,750	<b>1,500</b>	1,900	22.0	76.0	3.0	L

Approximate Modulus of Elasticity: E=205,000 MPa    Double Corrosion Protection (DCP) recommended for post-tensioned permanent ground anchors

