

## TAPER THREADED GRIP-TWIST® SYSTEM TEST DATA CONVERSION - 25M, 30M, 35M, 45M AND 55M (GRADE 500)

Lab Report & Reference No.		Bar Grade	ASTM Bar Size Designation	ASTM Bar area in <sup>2</sup>	Max Load lb	Max Stress psi	Developed Stress %fy ASTM Gr 75 (metric Gr 520)	Equivalent CSA Designation	CSA Bar Area mm <sup>2</sup>	Max Load kN	Equivalent Max Stress CSA Gr 500 N/mm <sup>2</sup>	Equivalent Developed Stress %fy CSA Gr 500
8T2577	8A	80	<b>No. 8</b>	0.79	94,430	119,532	<b>159%</b>	<b>25M</b>	500	420.0	840	<b>168%</b>
	8B		<b>No. 8</b>	0.79	95,230	120,544	<b>161%</b>	<b>25M</b>	500	423.6	847	<b>169%</b>
	8C		<b>No. 8</b>	0.79	94,800	120,000	<b>160%</b>	<b>25M</b>	500	421.7	843	<b>169%</b>
9T1767	9A	80	<b>No. 9</b>	1.00	118,640	118,640	<b>158%</b>	<b>30M</b>	700	527.7	754	<b>151%</b>
	9B		<b>No. 9</b>	1.00	118,490	118,490	<b>158%</b>	<b>30M</b>	700	527.0	753	<b>151%</b>
	9C		<b>No. 9</b>	1.00	118,400	118,400	<b>158%</b>	<b>30M</b>	700	526.6	752	<b>150%</b>
11T3256	11A	80	<b>No. 11</b>	1.56	177,200	113,590	<b>151%</b>	<b>35M</b>	1000	788.2	788	<b>158%</b>
	11B		<b>No. 11</b>	1.56	179,230	114,891	<b>153%</b>	<b>35M</b>	1000	797.2	797	<b>159%</b>
	11C		<b>No. 11</b>	1.56	177,289	113,647	<b>152%</b>	<b>35M</b>	1000	788.6	789	<b>158%</b>
11T4205	11A	*80	<b>No. 11</b>	1.56	162,630	104,250	<b>139%</b>	<b>35M</b>	1000	723.4	723	<b>145%</b>
14T836	14A	75	<b>No. 14</b>	2.25	257,400	114,400	<b>153%</b>	<b>45M</b>	1500	1144.9	763	<b>153%</b>
	14B		<b>No. 14</b>	2.25	257,380	114,391	<b>153%</b>	<b>45M</b>	1500	1144.8	763	<b>153%</b>
18T630	18A	75	<b>No. 18</b>	4.00	407,900	101,975	<b>136%</b>	<b>55M</b>	2500	1814.3	726	<b>145%</b>
18T632	18A	75	<b>No. 18</b>	4.00	444,180	111,045	<b>148%</b>	<b>55M</b>	2500	1975.7	790	<b>158%</b>
18T778	18A	75	<b>No. 18</b>	4.00	482,644	120,661	<b>161%</b>	<b>55M</b>	2500	2146.8	859	<b>172%</b>
	18B		<b>No. 18</b>	4.00	470,388	117,597	<b>157%</b>	<b>55M</b>	2500	2092.3	837	<b>167%</b>

### NOTES

Test results are from routine testing of each heat lot of arriving coupler material, per Barsplice Products, Inc. ISO Quality System. Reinforcing Bars, per ASTM A615 Grade 75/80 (or \*A706 Grade 80), have a minimum specified yield, fy = 75,000 psi (520 N/mm<sup>2</sup>). See Lab reports for stress versus displacement curves (stress versus cross-head position). Load rates per ASTM A 370.  
ASTM = American Society for Testing and Materials  
CSA = Canadian Standards Association