

## ZAP SCREWLOK® TYPE 2 SYSTEM TEST DATA CONVERSION - 25M, 30M, 35M, 45M & 55M (GRADE 500)

Lab Report & Reference No.		Bar Type	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
8T580	8A	BLACK	<b>No. 8</b>	0.79	86,110	109,000	<b>145%</b>	<b>25M</b>	500	383.0	766	<b>153%</b>
8T582	8A	BLACK	<b>No. 8</b>	0.79	85,595	108,348	<b>144%</b>	<b>25M</b>	500	380.7	761	<b>152%</b>
9T1438	9A	BLACK	<b>No. 9</b>	1.00	101,800	101,800	<b>136%</b>	<b>30M</b>	700	452.8	647	<b>129%</b>
	9B	BLACK	<b>No. 9</b>	1.00	108,320	108,320	<b>144%</b>	<b>30M</b>	700	481.8	688	<b>138%</b>
9T1451	9A	BLACK	<b>No. 9</b>	1.00	110,240	110,240	<b>147%</b>	<b>30M</b>	700	490.3	700	<b>140%</b>
	9B	BLACK	<b>No. 9</b>	1.00	110,930	110,930	<b>148%</b>	<b>30M</b>	700	493.4	705	<b>141%</b>
9T1634	9A	BLACK	<b>No. 9</b>	1.00	108,470	108,470	<b>145%</b>	<b>30M</b>	700	482.5	689	<b>138%</b>
11T3463	11B	BLACK	<b>No. 11</b>	1.56	174,831	112,071	<b>149%</b>	<b>35M</b>	1000	777.6	778	<b>156%</b>
11T3796	11A	EPOXY	<b>No. 11</b>	1.56	166,588	106,787	<b>142%</b>	<b>35M</b>	1000	741.0	741	<b>148%</b>
	11B	EPOXY	<b>No. 11</b>	1.56	182,904	117,246	<b>156%</b>	<b>35M</b>	1000	813.6	814	<b>163%</b>
14T707	14A	BLACK	<b>No. 14</b>	2.25	232,970	103,542	<b>138%</b>	<b>45M</b>	1500	1036.2	691	<b>138%</b>
	14B	BLACK	<b>No. 14</b>	2.25	238,790	106,129	<b>142%</b>	<b>45M</b>	1500	1062.1	708	<b>142%</b>
14T1189*	14A	BLACK	<b>No. 14</b>	2.25	243,666	108,296	<b>144%</b>	<b>45M</b>	1500	1083.8	723	<b>145%</b>
18T963	18A	BLACK	<b>No. 18</b>	4.00	431,936	107,984	<b>144%</b>	<b>55M</b>	2500	1921.3	769	<b>154%</b>
18T964	18A	BLACK	<b>No. 18</b>	4.00	442,072	110,518	<b>147%</b>	<b>55M</b>	2500	1966.3	787	<b>157%</b>
18T965	18A	BLACK	<b>No. 18</b>	4.00	451,868	112,967	<b>151%</b>	<b>55M</b>	2500	2009.9	804	<b>161%</b>

### NOTES

All splices meet Type 2 requirement of ACI 318 Section 18 (100%  $f_u$ ) Grade 75 bar, and CSA A23.3 Clause 12.14.3.4 requirement (120%  $f_y$ ) Grade 500 bar. Results shown are from routine testing of various heat lots of completed coupler assemblies, per Barsplice Products, Inc. ISO 9001 Quality System. Conducted on reinforcing bars per ASTM A615 Grade 75/80 (or \*A706 Grade 80). Minimum specified yield of Grade 75,  $f_y = 75,000$  psi (520 N/mm<sup>2</sup>) Tests performed in accordance with ASTM A1034, Section 10.3, Monotonic Tension Tests, using load rates per ASTM A370 See Lab reports for stress versus displacement curves (stress versus cross-head position). ASTM = American Society for Testing and Materials, CSA = Canadian Standards Association