

### BPI® BARSPLICER XP SYSTEM TEST DATA CONVERSION - 15M & 20M (GRADE 400)

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 % <i>f<sub>y</sub></i> ASTM Gr 60 (metric Gr 420)	Equivalent CSA Designation	CSA Bar Area (mm <sup>2</sup> )	Max Load (kN)	Equivalent Max Stress CSA Gr 400 (N/mm <sup>2</sup> )	Equivalent Developed Stress % <i>f<sub>y</sub></i> CSA Gr 400
5T2687	5A	BLACK	<b>No. 5</b>	0.31	32,390	104,484	<b>174%</b>	<b>15M</b>	200	144.1	720	<b>180%</b>
	5B		<b>No. 5</b>	0.31	31,470	101,516	<b>169%</b>	<b>15M</b>	200	140.0	700	<b>175%</b>
5T3601	5A	BLACK	<b>No. 5</b>	0.31	33,410	107,774	<b>180%</b>	<b>15M</b>	200	148.6	743	<b>186%</b>
	5B		<b>No. 5</b>	0.31	33,560	108,258	<b>180%</b>	<b>15M</b>	200	149.3	746	<b>187%</b>
5T7801 <i>*A706</i>	5A	BLACK	<b>No. 5</b>	0.31	30,900	99,677	<b>166%</b>	<b>15M</b>	200	137.4	687	<b>172%</b>
	5B		<b>No. 5</b>	0.31	30,470	98,290	<b>164%</b>	<b>15M</b>	200	135.5	678	<b>169%</b>
5T7519	5A	EPOXY	<b>No. 5</b>	0.31	32,070	103,452	<b>172%</b>	<b>15M</b>	200	142.6	713	<b>178%</b>
	5B		<b>No. 5</b>	0.31	31,380	101,226	<b>169%</b>	<b>15M</b>	200	139.6	698	<b>174%</b>
6T2251	6A	BLACK	<b>No. 6</b>	0.44	44,850	101,932	<b>170%</b>	<b>20M</b>	300	199.5	665	<b>166%</b>
	6B		<b>No. 6</b>	0.44	44,540	101,227	<b>169%</b>	<b>20M</b>	300	198.1	660	<b>165%</b>
6T2285	6A	BLACK	<b>No. 6</b>	0.44	46,210	105,023	<b>175%</b>	<b>20M</b>	300	205.5	685	<b>171%</b>
	6B		<b>No. 6</b>	0.44	44,400	100,909	<b>168%</b>	<b>20M</b>	300	197.5	658	<b>165%</b>
6T2547	6A	BLACK	<b>No. 6</b>	0.44	48,020	109,136	<b>182%</b>	<b>20M</b>	300	213.6	712	<b>178%</b>
	6B		<b>No. 6</b>	0.44	48,810	110,932	<b>185%</b>	<b>20M</b>	300	217.1	724	<b>181%</b>
6T2239	6A	EPOXY	<b>No. 6</b>	0.44	44,380	100,864	<b>168%</b>	<b>20M</b>	300	197.4	658	<b>165%</b>
	6B		<b>No. 6</b>	0.44	46,160	104,909	<b>175%</b>	<b>20M</b>	300	205.3	684	<b>171%</b>

**NOTES**

All splices meet Type 2 requirement of ACI 318 Section 18 (100% *f<sub>u</sub>*) Grade 60 bar, and CSA A23.3 Clause 12.14.3.4 requirement (120% *f<sub>y</sub>*) Grade 400 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 (or \*A706) Grade 60, with a specified yield, *f<sub>y</sub>* = 60,000 psi (420 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

### BPI® BARSPLICER XP SYSTEM TEST DATA CONVERSION - 25M & 30M (GRADE 400)

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 % <i>f<sub>y</sub></i> ASTM Gr 60 (metric Gr 420)	Equivalent CSA Designation	CSA Bar Area (mm <sup>2</sup> )	Max Load (kN)	Equivalent Max Stress CSA Gr 400 (N/mm <sup>2</sup> )	Equivalent Developed Stress % <i>f<sub>y</sub></i> CSA Gr 400
8T1402	8A	BLACK	<b>No. 8</b>	0.79	84,870	107,430	<b>179%</b>	<b>25M</b>	500	377.5	755	<b>189%</b>
	8B		<b>No. 8</b>	0.79	84,920	107,494	<b>179%</b>	<b>25M</b>	500	377.7	755	<b>189%</b>
8T3080	8A	BLACK	<b>No. 8</b>	0.79	79,308	100,390	<b>167%</b>	<b>25M</b>	500	352.8	706	<b>176%</b>
	8B		<b>No. 8</b>	0.79	80,820	102,304	<b>171%</b>	<b>25M</b>	500	359.5	719	<b>180%</b>
8T3528	8A	BLACK	<b>No. 8</b>	0.79	81,643	103,345	<b>172%</b>	<b>25M</b>	500	363.1	726	<b>182%</b>
	8B		<b>No. 8</b>	0.79	81,021	102,558	<b>171%</b>	<b>25M</b>	500	360.4	721	<b>180%</b>
8T3215 <i>*A706</i>	8A	EPOXY	<b>No. 8</b>	0.79	80,199	101,518	<b>169%</b>	<b>25M</b>	500	356.7	713	<b>178%</b>
	8B		<b>No. 8</b>	0.79	80,152	101,458	<b>169%</b>	<b>25M</b>	500	356.5	713	<b>178%</b>
9T1694	9A	BLACK	<b>No. 9</b>	1	105,260	105,260	<b>175%</b>	<b>30M</b>	700	468.2	669	<b>167%</b>
	9B		<b>No. 9</b>	1	110,960	110,960	<b>185%</b>	<b>30M</b>	700	493.6	705	<b>176%</b>
9T1827	9A	BLACK	<b>No. 9</b>	1	104,890	104,890	<b>175%</b>	<b>30M</b>	700	466.6	667	<b>167%</b>
	9B		<b>No. 9</b>	1	106,710	106,710	<b>178%</b>	<b>30M</b>	700	474.6	678	<b>170%</b>
9T2081 <i>*A706</i>	9A	BLACK	<b>No. 9</b>	1	116,778	116,778	<b>195%</b>	<b>30M</b>	700	519.4	742	<b>186%</b>
	9B		<b>No. 9</b>	1	117,708	117,708	<b>196%</b>	<b>30M</b>	700	523.6	748	<b>187%</b>
9T1138	9A	EPOXY	<b>No. 9</b>	1	108,710	108,710	<b>181%</b>	<b>30M</b>	700	483.5	691	<b>173%</b>
	9B		<b>No. 9</b>	1	109,360	109,360	<b>182%</b>	<b>30M</b>	700	486.4	695	<b>174%</b>

**NOTES**

All splices meet Type 2 requirement of ACI 318 Section 18 (100% *f<sub>u</sub>*) Grade 60 bar, and CSA A23.3 Clause 12.14.3.4 requirement (120% *f<sub>y</sub>*) Grade 400 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 (or *\*A706*) Grade 60, with a specified yield, *f<sub>y</sub>* = 60,000 psi (420 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

### BPI® BARSPLICER XP SYSTEM TEST DATA CONVERSION - 35M (GRADE 400)

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 % <i>f<sub>y</sub></i> ASTM Gr 60 (metric Gr 420)	Equivalent CSA Designation	CSA Bar Area (mm <sup>2</sup> )	Max Load (kN)	Equivalent Max Stress CSA Gr 400 (N/mm <sup>2</sup> )	Equivalent Developed Stress % <i>f<sub>y</sub></i> CSA Gr 400
11T2293	11A	BLACK	No. 11	1.56	175,620	112,577	<b>188%</b>	<b>35M</b>	1000	781.2	781	<b>195%</b>
	11B		No. 11	1.56	176,580	113,192	<b>189%</b>	<b>35M</b>	1000	785.4	785	<b>196%</b>
11T3369	11A	BLACK	No. 11	1.56	159,460	102,218	<b>170%</b>	<b>35M</b>	1000	709.3	709	<b>177%</b>
	11B		No. 11	1.56	158,100	101,346	<b>169%</b>	<b>35M</b>	1000	703.2	703	<b>176%</b>
11T3957	11A	BLACK	No. 11	1.56	161,563	103,566	<b>173%</b>	<b>35M</b>	1000	718.6	719	<b>180%</b>
	11B		No. 11	1.56	162,736	104,318	<b>174%</b>	<b>35M</b>	1000	723.9	724	<b>181%</b>
11T2298	11A	EPOXY	No. 11	1.56	163,621	104,885	<b>175%</b>	<b>35M</b>	1000	727.8	728	<b>182%</b>
	11B		No. 11	1.56	164,199	105,256	<b>175%</b>	<b>35M</b>	1000	730.4	730	<b>183%</b>
11T3157	11A	EPOXY	No. 11	1.56	152,379	97,679	<b>163%</b>	<b>35M</b>	1000	677.8	678	<b>169%</b>
	11B		No. 11	1.56	153,619	98,474	<b>164%</b>	<b>35M</b>	1000	683.3	683	<b>171%</b>
11T3419	11A	EPOXY	No. 11	1.56	154,900	99,295	<b>165%</b>	<b>35M</b>	1000	689.0	689	<b>172%</b>
	11B		No. 11	1.56	156,449	100,288	<b>167%</b>	<b>35M</b>	1000	695.9	696	<b>174%</b>

**NOTES**

All splices meet Type 2 requirement of ACI 318 Section 18 (100% *f<sub>u</sub>*) Grade 60 bar, and CSA A23.3 Clause 12.14.3.4 requirement (120% *f<sub>y</sub>*) Grade 400 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 (or \*A706) Grade 60, with a specified yield, *f<sub>y</sub>* = 60,000 psi (420 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