

## BPI® BARGRIP XL SYSTEM STATIC TEST DATA CONVERSION - 15M AND 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 %fy 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 %fy CSA Gr 400
5T4339	5A	Black	<b>No. 5</b>	0.31	33,430	107,839	<b>180%</b>	<b>15M</b>	200	148.7	743	<b>186%</b>
	5B		<b>No. 5</b>	0.31	33,630	108,484	<b>181%</b>	<b>15M</b>	200	149.6	748	<b>187%</b>
5T4511	5A	Black	<b>No. 5</b>	0.31	36,570	117,968	<b>197%</b>	<b>15M</b>	200	162.7	813	<b>203%</b>
	5B		<b>No. 5</b>	0.31	37,190	119,968	<b>200%</b>	<b>15M</b>	200	165.4	827	<b>207%</b>
5T5460	5A	Black	<b>No. 5</b>	0.31	34,320	110,710	<b>185%</b>	<b>15M</b>	200	152.7	763	<b>191%</b>
	5B		<b>No. 5</b>	0.31	34,480	111,226	<b>185%</b>	<b>15M</b>	200	153.4	767	<b>192%</b>
5T7886	5A	Black	<b>No. 5</b>	0.31	33,180	107,032	<b>178%</b>	<b>15M</b>	200	147.6	738	<b>184%</b>
	5B		<b>No. 5</b>	0.31	33,100	106,774	<b>178%</b>	<b>15M</b>	200	147.2	736	<b>184%</b>
6T830	6A	Black	<b>No. 6</b>	0.44	49,651	112,844	<b>188%</b>	<b>20M</b>	300	220.8	736	<b>184%</b>
	6B		<b>No. 6</b>	0.44	49,946	113,513	<b>189%</b>	<b>20M</b>	300	222.2	741	<b>185%</b>
6T2003	6A	Black	<b>No. 6</b>	0.44	50,850	115,568	<b>193%</b>	<b>20M</b>	300	226.2	754	<b>188%</b>
	6B		<b>No. 6</b>	0.44	49,350	112,159	<b>187%</b>	<b>20M</b>	300	219.5	732	<b>183%</b>
6T3546	6A	Black	<b>No. 6</b>	0.44	52,080	118,364	<b>197%</b>	<b>20M</b>	300	231.7	772	<b>193%</b>
	6B		<b>No. 6</b>	0.44	51,820	117,773	<b>196%</b>	<b>20M</b>	300	230.5	768	<b>192%</b>
6T4288	6A	Black	<b>No. 6</b>	0.44	48,310	109,795	<b>183%</b>	<b>20M</b>	300	214.9	716	<b>179%</b>
	6B		<b>No. 6</b>	0.44	49,080	111,545	<b>186%</b>	<b>20M</b>	300	218.3	728	<b>182%</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 (or \*A706) Grade 60, have a specified yield, fy = 60,000 psi (420 N/mm<sup>2</sup>). See Lab reports for stress versus displacement curves (stress versus cross-head position). Load rates per ASTM A 370.  
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CSA = Canadian Standards Association

## BPI® BARGRIP XL SYSTEM STATIC TEST DATA CONVERSION - 25M AND 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 %fy 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 %fy CSA Gr 400
8T2043	8A	Black	<b>No. 8</b>	0.79	89,990	113,911	<b>190%</b>	<b>25M</b>	500	400.3	801	<b>200%</b>
	8B		<b>No. 8</b>	0.79	86,940	110,051	<b>183%</b>	<b>25M</b>	500	386.7	773	<b>193%</b>
8T3398	8A	Black	<b>No. 8</b>	0.79	85,885	108,715	<b>181%</b>	<b>25M</b>	500	382.0	764	<b>191%</b>
	8B		<b>No. 8</b>	0.79	86,151	109,052	<b>182%</b>	<b>25M</b>	500	383.2	766	<b>192%</b>
8T3549	8A	Black	<b>No. 8</b>	0.79	82,090	103,912	<b>173%</b>	<b>25M</b>	500	365.1	730	<b>183%</b>
	8B		<b>No. 8</b>	0.79	83,324	105,473	<b>176%</b>	<b>25M</b>	500	370.6	741	<b>185%</b>
8T3666	8A	Black	<b>No. 8</b>	0.79	88,802	112,407	<b>187%</b>	<b>25M</b>	500	395.0	790	<b>197%</b>
	8B		<b>No. 8</b>	0.79	90,095	114,044	<b>190%</b>	<b>25M</b>	500	400.7	801	<b>200%</b>
9T317	9A	Black	<b>No. 9</b>	1.00	107,986	107,986	<b>180%</b>	<b>30M</b>	700	480.3	686	<b>172%</b>
9T422*	9A	Black	<b>No. 9</b>	1.00	94,064	94,064	<b>157%</b>	<b>30M</b>	700	418.4	598	<b>149%</b>
9T423*	9A	Black	<b>No. 9</b>	1.00	94,227	94,227	<b>157%</b>	<b>30M</b>	700	419.1	599	<b>150%</b>
9T1859	9A	Black	<b>No. 9</b>	1.00	110,780	110,780	<b>185%</b>	<b>30M</b>	700	492.7	704	<b>176%</b>
	9B		<b>No. 9</b>	1.00	111,420	111,420	<b>186%</b>	<b>30M</b>	700	495.6	708	<b>177%</b>
9T2256	9A	Black	<b>No. 9</b>	1.00	108,695	108,695	<b>181%</b>	<b>30M</b>	700	483.5	691	<b>173%</b>
	9B		<b>No. 9</b>	1.00	109,165	109,165	<b>182%</b>	<b>30M</b>	700	485.6	694	<b>173%</b>
9T2389	9A	Black	<b>No. 9</b>	1.00	112,885	112,885	<b>188%</b>	<b>30M</b>	700	502.1	717	<b>179%</b>
	9B		<b>No. 9</b>	1.00	113,516	113,516	<b>189%</b>	<b>30M</b>	700	504.9	721	<b>180%</b>

### NOTES

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**BPI® BARGRIP XL SYSTEM STATIC TEST DATA CONVERSION - 35M AND 45M (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 %fy 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 %fy CSA Gr 400
11T560 <i>*A706</i>	11A	Black	<b>No. 11</b>	1.56	144,821	92,834	<b>155%</b>	<b>35M</b>	1000	644.2	644	<b>161%</b>
	11B		<b>No. 11</b>	1.56	145,411	93,212	<b>155%</b>	<b>35M</b>	1000	646.8	647	<b>162%</b>
11T2730	11A	Black	<b>No. 11</b>	1.56	167,421	107,321	<b>179%</b>	<b>35M</b>	1000	744.7	745	<b>186%</b>
11T3766	11A	Black	<b>No. 11</b>	1.56	165,616	106,164	<b>177%</b>	<b>35M</b>	1000	736.7	737	<b>184%</b>
	11B		<b>No. 11</b>	1.56	165,159	105,871	<b>176%</b>	<b>35M</b>	1000	734.6	735	<b>184%</b>
11T3855	11A	Black	<b>No. 11</b>	1.56	170,756	109,459	<b>182%</b>	<b>35M</b>	1000	759.5	760	<b>190%</b>
	11B		<b>No. 11</b>	1.56	169,814	108,855	<b>181%</b>	<b>35M</b>	1000	755.3	755	<b>189%</b>
11T4034	11A	Black	<b>No. 11</b>	1.56	174,143	111,630	<b>186%</b>	<b>35M</b>	1000	774.6	775	<b>194%</b>
	11B		<b>No. 11</b>	1.56	171,857	110,165	<b>184%</b>	<b>35M</b>	1000	764.4	764	<b>191%</b>
14T256	14A	Black	<b>No. 14</b>	2.25	237,830	105,702	<b>176%</b>	<b>45M</b>	1500	1057.9	705	<b>176%</b>
	14B		<b>No. 14</b>	2.25	236,790	105,240	<b>175%</b>	<b>45M</b>	1500	1053.2	702	<b>176%</b>
14T285 <i>*A706</i>	14A	Black	<b>No. 14</b>	2.25	216,749	96,333	<b>161%</b>	<b>45M</b>	1500	964.1	643	<b>161%</b>
	14B		<b>No. 14</b>	2.25	217,440	96,640	<b>161%</b>	<b>45M</b>	1500	967.2	645	<b>161%</b>
14T455	14A	Black	<b>No. 14</b>	2.25	249,111	110,716	<b>185%</b>	<b>45M</b>	1500	1108.0	739	<b>185%</b>
14T1002	14A	Black	<b>No. 14</b>	2.25	230,589	102,484	<b>171%</b>	<b>45M</b>	1500	1025.7	684	<b>171%</b>
	14B		<b>No. 14</b>	2.25	232,040	103,129	<b>172%</b>	<b>45M</b>	1500	1032.1	688	<b>172%</b>

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