

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

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

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/mm²). 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

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

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

NOTES

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 See Lab reports for stress versus displacement curves (stress versus cross-head position).
 Load rates per ASTM A 370.
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BPI® BARSPLICER XP SYSTEM TEST DATA CONVERSION - 35M (GRADE 400)

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

NOTES

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 Load rates per ASTM A 370.
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