

BPI® STAINLESS BARSPLICER SYSTEM (TYPE 303) TEST DATA CONVERSION - 15M & 20M (GRADE 400)

Lab Report & Reference No.		ASTM Bar Size Designation	ASTM Bar Area (in ²)	Max Load (lb)	Max Stress (psi)	Developed Stress % <i>f_y</i> 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 % <i>f_y</i> CSA Gr 400
5T7022	5A	No. 5	0.31	37,510	121,000	202%	15M	200	166.8	834	209%
	5B	No. 5	0.31	37,010	119,387	199%	15M	200	164.6	823	206%
5T7396	5A	No. 5	0.31	34,950	112,742	188%	15M	200	155.5	777	194%
	5B	No. 5	0.31	34,700	111,935	187%	15M	200	154.3	772	193%
5T7480	5A	No. 5	0.31	37,640	121,419	202%	15M	200	167.4	837	209%
	5B	No. 5	0.31	37,170	119,903	200%	15M	200	165.3	827	207%
5T7484	5A	No. 5	0.31	36,160	116,645	194%	15M	200	160.8	804	201%
	5B	No. 5	0.31	36,070	116,355	194%	15M	200	160.4	802	201%
5T9017	5A	No. 5	0.31	35,860	115,677	193%	15M	200	159.5	798	199%
6T3374	6A	No. 6	0.44	48,800	110,909	185%	20M	300	217.1	724	181%
6T4336	6A	No. 6	0.44	45,650	103,750	173%	20M	300	203.1	677	169%
6T4419	6A	No. 6	0.44	50,490	114,750	191%	20M	300	224.6	749	187%
	6B	No. 6	0.44	50,550	114,886	191%	20M	300	224.8	749	187%
	6C	No. 6	0.44	50,650	115,114	192%	20M	300	225.3	751	188%
6T4429	6A	No. 6	0.44	47,990	109,068	182%	20M	300	213.5	712	178%
	6B	No. 6	0.44	45,010	102,295	170%	20M	300	200.2	667	167%
	6C	No. 6	0.44	47,690	108,386	181%	20M	300	212.1	707	177%
6T6397	6A	No. 6	0.44	48,680	110,636	184%	20M	300	216.5	722	180%
	6B	No. 6	0.44	48,960	111,273	185%	20M	300	217.8	726	181%

NOTES

All splices meet Type 2 requirement of ACI 318 Section 18 (100% *f_u*) Grade 60 bar, and CSA A23.3 Clause 12.14.3.4 requirement (120% *f_y*) 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 A955 Grade 60, with a specified yield, *f_y* = 60,000 psi (420 N/mm²). 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® STAINLESS BARSPLICER SYSTEM (TYPE 303) TEST DATA CONVERSION - 25M (GRADE 400)

Lab Report & Reference No.		ASTM Bar Size Designation	ASTM Bar Area (in ²)	Max Load (lb)	Max Stress (psi)	Developed Stress % <i>f_y</i> 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 % <i>f_y</i> CSA Gr 400
8T1799	8A	No. 8	0.79	82,040	103,848	173%	25M	510	364.9	716	179%
	8B	No. 8	0.79	81,870	103,633	173%	25M	510	364.2	714	179%
8T4060	8A	No. 8	0.79	87,233	110,422	184%	25M	510	388.0	761	190%
	8B	No. 8	0.79	83,217	105,338	176%	25M	510	370.1	726	181%

NOTES

All splices meet Type 2 requirement of ACI 318 Section 18 (100% *f_u*) Grade 60 bar, and CSA A23.3 Clause 12.14.3.4 requirement (120% *f_y*) 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 A955 Grade 60, with a specified yield, *f_y* = 60,000 psi (420 N/mm²). 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