BPI® STAINLESS BARSPLICER SYSTEM (TYPE 303 & DUPLEX 2205) TEST DATA CONVERSION - 15M & 20M (GRADE 500)

Lab Report & Reference No.		CPLR Type	ASTM Bar Size Designation	ASTM Bar Area (in^2)	Max Load (lb)	Max Stress (psi)	Developed Stress % fy ASTM Gr 75 (metric Gr 520)	Equivalent CSA Designation	CSA Bar Area (mm^2)	Max Load (kN)	Equivalent Max Stress CSA Gr 500 (N/mm^2)	Equivalent Developed Stress % fy CSA Gr 500
5T7022	5A	Type 303	**No. 5**	0.31	37,510	121,000	**161%**	**15M**	200	166.8	834	**167%**
	5B		**No. 5**	0.31	37,010	119,387	**159%**	**15M**	200	164.6	823	**165%**
5T9852	5A	Type 303	**No. 5**	0.31	34,790	112,226	**150%**	**15M**	200	154.7	774	**155%**
	5B		**No. 5**	0.31	34,550	111,452	**149%**	**15M**	200	153.7	768	**154%**
5T13444	5A	Type 303	**No. 5**	0.31	35,496	114,502	**153%**	**15M**	200	157.9	789	**158%**
	5B		**No. 5**	0.31	36,008	116,155	**155%**	**15M**	200	160.2	801	**160%**
5T9860	5A	Duplex 2205	**No. 5**	0.31	34,660	111,806	**149%**	**15M**	200	154.2	771	**154%**
	5B		**No. 5**	0.31	34,400	110,968	**148%**	**15M**	200	153.0	765	**153%**
5T11210	5B	2205	**No. 5**	0.31	37,348	120,479	**161%**	**15M**	200	166.1	831	**166%**
5T12867	5A	2205	**No. 5**	0.31	37,974	122,498	**163%**	**15M**	200	168.9	845	**169%**
5T13717	5A	2205	**No. 5**	0.31	36,938	119,154	**159%**	**15M**	200	164.3	821	**164%**
6T8287	6A	Type 303	**No. 6**	0.44	52,870	120,159	**160%**	**20M**	300	235.2	784	**157%**
	6B		**No. 6**	0.44	52,800	120,000	**160%**	**20M**	300	234.9	783	**157%**
6T9172	6A	Type 303	**No. 6**	0.44	51,107	116,153	**155%**	**20M**	300	227.3	758	**152%**
	6B		**No. 6**	0.44	50,673	115,167	**154%**	**20M**	300	225.4	751	**150%**
6T6384	6A	Type 303	**No. 6**	0.44	52,069	118,338	**158%**	**20M**	300	231.6	772	**154%**
	6B		**No. 6**	0.44	50,494	114,759	**153%**	**20M**	300	224.6	749	**150%**
6T6571	6A	Duplex 2205	**No. 6**	0.44	49,779	113,135	**151%**	**20M**	300	221.4	738	**148%**
	6B		**No. 6**	0.44	53,420	121,410	**162%**	**20M**	300	237.6	792	**158%**
6T7364	6A	2205	**No. 6**	0.44	48,180	109,500	**146%**	**20M**	300	214.3	714	**143%**
6T8870	6A	2205	**No. 6**	0.44	48,870	111,068	**148%**	**20M**	300	217.4	725	**145%**

NOTES

All splices meet Type 2 requirement of ACI 318 Section 18 (100% fu) Grade 75 bar, and CSA A23.3:24 Clause 12.14.3.4 requirement (125% fy) 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 A955 Grade 75, with a specified yield, fy = 75,000 psi (520 N/mm^2).
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

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BPI® STAINLESS BARSPLICER SYSTEM (TYPE 303 & DUPLEX 2205) TEST DATA CONVERSION - 25M & 30M (GRADE 500)

Lab Report & Reference No.		CPLR Type	ASTM Bar Size Designation	ASTM Bar Area (in^2)	Max Load (lb)	Max Stress (psi)	Developed Stress % fy ASTM Gr 75 (metric Gr 520)	Equivalent CSA Designation	CSA Bar Area (mm^2)	Max Load (kN)	Equivalent Max Stress CSA Gr 500 (N/mm^2)	Equivalent Developed Stress % fy CSA Gr 500
8T5505	8A	Type 303	**No. 8**	0.79	86,494	109,486	**146%**	**25M**	510	384.7	754	**151%**
	8B		**No. 8**	0.79	87,089	110,239	**147%**	**25M**	510	387.4	760	**152%**
8T4615	8A	Type 303	**No. 8**	0.79	84,701	107,216	**143%**	**25M**	510	376.7	739	**148%**
	8B		**No. 8**	0.79	85,045	107,652	**144%**	**25M**	510	378.3	742	**148%**
8T4633	8A	Type 303	**No. 8**	0.79	86,505	109,500	**146%**	**25M**	510	384.8	754	**151%**
	8B		**No. 8**	0.79	86,288	109,225	**146%**	**25M**	510	383.8	753	**151%**
8T4519	8B	2205	**No. 8**	0.79	86,191	109,103	**145%**	**25M**	510	383.4	752	**150%**
8T4524	8C	2205	**No. 8**	0.79	86,474	109,461	**146%**	**25M**	510	384.6	754	**151%**
8T5142	8A	2205	**No. 8**	0.79	94,704	119,878	**160%**	**25M**	510	421.2	826	**165%**
9T3013	9A	303	**No. 9**	1	108,388	108,388	**145%**	**30M**	700	482.1	689	**138%**
9T2695	9A	303	**No. 9**	1	113,634	113,634	**152%**	**30M**	700	505.4	722	**144%**

NOTES

All splices meet Type 2 requirement of ACI 318 Section 18 (100% fu) Grade 75 bar, and CSA A23.3:24 Clause 12.14.3.4 requirement (125% fy) 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 A955 Grade 75, with a specified yield, fy = 75,000 psi (520 N/mm^2).
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).
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