



FITT (5Ab) SYSTEM TEST DATA CONVERSION - 15M & 20M (GRADE 400)

Lab Report & Reference No.		Head Type	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
5T11957	5A	(5Ab)	No. 5	0.31	34,736	112,051	187%	15M	200	154.5	773	193%
5T12683	5A	(5Ab)	No. 5	0.31	34,324	110,721	185%	15M	200	152.7	763	191%
	5B		No. 5	0.31	34,174	110,238	184%	15M	200	152.0	760	190%
5T12684	5A	(5Ab)	No. 5	0.31	34,702	111,942	187%	15M	200	154.4	772	193%
5T12685	5A	(5Ab)	No. 5	0.31	33,439	107,867	180%	15M	200	148.7	744	186%
5T12688*	5A	(5Ab)	No. 5	0.31	26,583	85,750	143%	15M	200	118.2	591	148%
5T12689*	5A	(5Ab)	No. 5	0.31	26,533	85,589	143%	15M	200	118.0	590	148%
5T12813*	5A	(5Ab)	No. 5	0.31	28,966	93,439	156%	15M	200	128.8	644	161%
6T7787	6A	(5Ab)	No. 6	0.44	48,291	109,752	183%	20M	300	214.8	716	179%
6T7843*	6A	(5Ab)	No. 6	0.44	40,007	90,924	152%	20M	300	177.9	593	148%
	6B		No. 6	0.44	40,066	91,058	152%	20M	300	178.2	594	149%
6T8249	6A	(5Ab)	No. 6	0.44	48,897	111,130	185%	20M	300	217.5	725	181%
	6B		No. 6	0.44	48,446	110,105	184%	20M	300	215.5	718	180%
6T8250	6A	(5Ab)	No. 6	0.44	47,985	109,057	182%	20M	300	213.4	711	178%
6T8251	6A	(5Ab)	No. 6	0.44	49,001	111,367	186%	20M	300	218.0	727	182%
6T8332	6A	(5Ab)	No. 6	0.44	48,407	110,016	183%	20M	300	215.3	718	179%

NOTES

All headed devices meet ACI 318 Section 20, and ASTM A970 Class A & HA requirements (100% *f_u*) Grade 60 bar.
 FITT (10Ab) meets CSA A23.3 Clause 7.1.4 requirement of gross bearing area to be 10 times the bar area, 10Ab.
 Results shown are from routine testing of various heat lots of completed headed devices, per Barsplice Products, Inc. ISO 9001 Quality System.
 Conducted on reinforcing bars per ASTM A615 (or *A706) 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



FITT (5Ab) SYSTEM TEST DATA CONVERSION - 25M & 30M (GRADE 400)

Lab Report & Reference No.			Head Type	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
8T4758	8A	(5Ab)		No. 8	0.79	92,845	117,525	196%	25M	500	413.0	826	206%
8T5081*	8A	(5Ab)		No. 8	0.79	73,410	92,924	155%	25M	500	326.5	653	163%
8T5082	8A	(5Ab)		No. 8	0.79	86,445	109,424	182%	25M	500	384.5	769	192%
8T5082	8A	(5Ab)		No. 8	0.79	83,313	105,459	176%	25M	500	370.6	741	185%
8T5083	8A	(5Ab)		No. 8	0.79	86,924	110,030	183%	25M	500	386.6	773	193%
8T5084	8A	(5Ab)		No. 8	0.79	89,724	113,575	189%	25M	500	399.1	798	200%
8T5085	8A	(5Ab)		No. 8	0.79	80,046	101,324	169%	25M	500	356.0	712	178%
8T5091*	8A	(5Ab)		No. 8	0.79	75,594	95,689	159%	25M	500	336.2	672	168%
9T3116	9A	(5Ab)		No. 9	1.00	109,568	109,568	183%	30M	700	487.4	696	174%
9T3117	9A	(5Ab)		No. 9	1.00	113,194	113,194	189%	30M	700	503.5	719	180%
9T3130*	9A	(5Ab)		No. 9	1.00	87,090	87,090	145%	30M	700	387.4	553	138%
	9B			No. 9	1.00	87,655	87,655	146%	30M	700	389.9	557	139%
9T3298	9A	(5Ab)		No. 9	1.00	110,531	110,531	184%	30M	700	491.6	702	176%
	9B			No. 9	1.00	110,447	110,447	184%	30M	700	491.3	702	175%
	9C			No. 9	1.00	108,980	108,980	182%	30M	700	484.7	692	173%
	9D			No. 9	1.00	113,688	113,688	189%	30M	700	505.7	722	181%

NOTES

All headed devices meet ACI 318 Section 20, and ASTM A970 Class A & HA requirements (100% *f_u*) Grade 60 bar.
 FITT (10Ab) meets CSA A23.3 Clause 7.1.4 requirement of gross bearing area to be 10 times the bar area, 10Ab.
 Results shown are from routine testing of various heat lots of completed headed devices, per Barsplice Products, Inc. ISO 9001 Quality System.
 Conducted on reinforcing bars per ASTM A615 (or *A706) 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).
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FITT (5Ab) SYSTEM TEST DATA CONVERSION - 35M (GRADE 400)

Lab Report & Reference No.		Head Type	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
11T5099	11A	(5Ab)	No. 11	1.56	183,409	117,570	196%	35M	1000	815.8	816	204%
11T5126	11A	(5Ab)	No. 11	1.56	182,068	116,710	195%	35M	1000	809.8	810	202%
11T5144*	11A	(5Ab)	No. 11	1.56	147,894	94,804	158%	35M	1000	657.8	658	164%
	11B		No. 11	1.56	148,982	95,501	159%	35M	1000	662.7	663	166%
11T5306	11A	(5Ab)	No. 11	1.56	165,755	106,253	177%	35M	1000	737.3	737	184%
11T5307	11A	(5Ab)	No. 11	1.56	175,734	112,650	188%	35M	1000	781.7	782	195%
11T5334	11A	(5Ab)	No. 11	1.56	171,687	110,056	183%	35M	1000	763.7	764	191%
11T5335	11A	(5Ab)	No. 11	1.56	165,006	105,773	176%	35M	1000	733.9	734	183%

NOTES

All headed devices meet ACI 318 Section 20, and ASTM A970 Class A & HA requirements (100% *f_u*) Grade 60 bar.
 FITT (10Ab) meets CSA A23.3 Clause 7.1.4 requirement of gross bearing area to be 10 times the bar area, 10Ab.
 Results shown are from routine testing of various heat lots of completed headed devices, per Barsplice Products, Inc. ISO 9001 Quality System.
 Conducted on reinforcing bars per ASTM A615 (or *A706) 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).
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