

TAPER THREADED GRIP-TWIST ® 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
5T7071	5A	Black	No. 5	0.31	32,870	106,032	177%	15M	200	146.2	731	183%
	5B		No. 5	0.31	32,900	106,129	177%	15M	200	146.3	732	183%
5T7079	5A	Black	No. 5	0.31	33,660	108,581	181%	15M	200	149.7	749	187%
	5B		No. 5	0.31	33,080	106,710	178%	15M	200	147.1	736	184%
5T7126	5A	Black	No. 5	0.31	33,640	108,516	181%	15M	200	149.6	748	187%
	5B		No. 5	0.31	33,160	106,968	178%	15M	200	147.5	737	184%
5T7466	5A	Black	No. 5	0.31	31,660	102,129	170%	15M	200	140.8	704	176%
	5B		No. 5	0.31	31,770	102,484	171%	15M	200	141.3	707	177%
6T5176	6A	Black	No. 6	0.44	48,450	110,114	184%	20M	300	215.5	718	180%
	6B		No. 6	0.44	48,680	110,636	184%	20M	300	216.5	722	180%
6T5190	6A	Black	No. 6	0.44	48,180	109,500	183%	20M	300	214.3	714	179%
	6B		No. 6	0.44	48,450	110,114	184%	20M	300	215.5	718	180%
6T5195	6A	Black	No. 6	0.44	48,590	110,432	184%	20M	300	216.1	720	180%
	6B		No. 6	0.44	48,370	109,932	183%	20M	300	215.2	717	179%
6T5262	6A	Black	No. 6	0.44	45,650	103,750	173%	20M	300	203.1	677	169%
	6B		No. 6	0.44	45,730	103,932	173%	20M	300	203.4	678	170%

NOTES

Test results are from routine testing of each heat lot of arriving Taper Threaded Grip-Twist material, per Barsplice Products, Inc. ISO Quality System.

Reinforcing Bars, per ASTM A 615 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



TAPER THREADED GRIP-TWIST ® 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
8T3173	8A	Black	No. 8	0.79	86,139	109,037	182%	25M	500	383.1	766	192%
	8B		No. 8	0.79	87,423	110,662	184%	25M	500	388.9	778	194%
8T3183	8A	Black	No. 8	0.79	83,618	105,846	176%	25M	500	371.9	744	186%
	8B		No. 8	0.79	86,618	109,643	183%	25M	500	385.3	771	193%
8T3245	8A	Black	No. 8	0.79	85,698	108,479	181%	25M	500	381.2	762	191%
	8B		No. 8	0.79	84,193	106,573	178%	25M	500	374.5	749	187%
8T3283	8A	Black	No. 8	0.79	84,797	107,338	179%	25M	500	377.2	754	189%
	8B		No. 8	0.79	84,825	107,374	179%	25M	500	377.3	755	189%
9T2063	9A	Black	No. 9	1.00	111,276	111,276	185%	30M	700	495.0	707	177%
	9B		No. 9	1.00	111,021	111,021	185%	30M	700	493.8	705	176%
9T2066	9A	Black	No. 9	1.00	110,553	110,553	184%	30M	700	491.7	702	176%
	9B		No. 9	1.00	110,747	110,747	185%	30M	700	492.6	704	176%
9T2091	9A	Black	No. 9	1.00	112,238	112,238	187%	30M	700	499.2	713	178%
	9B		No. 9	1.00	110,332	110,332	184%	30M	700	490.8	701	175%
9T2123	9A	Black	No. 9	1.00	109,608	109,608	183%	30M	700	487.5	696	174%
	9B		No. 9	1.00	109,842	109,842	183%	30M	700	488.6	698	174%

NOTES

Test results are from routine testing of each heat lot of arriving Taper Threaded Grip-Twist material, per Barsplice Products, Inc. ISO Quality System.

Reinforcing Bars, per ASTM A 615 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.

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TAPER THREADED GRIP-TWIST ® SYSTEM TEST DATA CONVERSION - 35M AND 45M (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
11T3717	11A	Black	No. 11	1.56	176,154	112,919	188%	35M	1000	783.5	784	196%
	11B		No. 11	1.56	174,548	111,890	186%	35M	1000	776.4	776	194%
11T3738	11A	Black	No. 11	1.56	175,857	112,729	188%	35M	1000	782.2	782	196%
	11B		No. 11	1.56	176,188	112,941	188%	35M	1000	783.7	784	196%
11T3773	11A	Black	No. 11	1.56	173,012	110,905	185%	35M	1000	769.6	770	192%
	11B		No. 11	1.56	176,806	113,337	189%	35M	1000	786.4	786	197%
11T3786	11A	Black	No. 11	1.56	170,843	109,515	183%	35M	1000	759.9	760	190%
	11B		No. 11	1.56	163,552	104,841	175%	35M	1000	727.5	727	182%
14T1210	14A	Black	No. 14	2.25	221,366	98,385	164%	45M	1500	984.6	656	164%
	14B		No. 14	2.25	226,631	100,725	168%	45M	1500	1008.1	672	168%
14T1230	14A	Black	No. 14	2.25	223,558	99,359	166%	45M	1500	994.4	663	166%
	14B		No. 14	2.25	222,651	98,956	165%	45M	1500	990.4	660	165%
14T1271	14A	Black	No. 14	2.25	229,325	101,922	170%	45M	1500	1020.0	680	170%
	14B		No. 14	2.25	229,361	101,938	170%	45M	1500	1020.2	680	170%
14T1282	14A	Black	No. 14	2.25	228,413	101,517	169%	45M	1500	1016.0	677	169%
	14B		No. 14	2.25	229,619	102,053	170%	45M	1500	1021.3	681	170%

NOTES

Test results are from routine testing of each heat lot of arriving Taper Threaded Grip-Twist material, per Barsplice Products, Inc. ISO Quality System.

Reinforcing Bars, per ASTM A 706 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.

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TAPER THREADED GRIP-TWIST ® SYSTEM TEST DATA CONVERSION - 55M (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
18T798	18A	Black	No. 18	4.00	432,868	108,217	180%	55M	2500	1925.4	770	193%
	18B		No. 18	4.00	433,200	108,300	181%	55M	2500	1926.9	771	193%
18T802	18A	Black	No. 18	4.00	431,732	107,933	180%	55M	2500	1920.3	768	192%
	18B		No. 18	4.00	429,340	107,335	179%	55M	2500	1909.7	764	191%
18T808	18A	Black	No. 18	4.00	431,260	107,815	180%	55M	2500	1918.2	767	192%
	18B		No. 18	4.00	407,088	101,772	170%	55M	2500	1810.7	724	181%
18T814	18A	Black	No. 18	4.00	430,536	107,634	179%	55M	2500	1915.0	766	192%
	18B		No. 18	4.00	403,812	100,953	168%	55M	2500	1796.2	718	180%

NOTES

Test results are from routine testing of each heat lot of arriving Taper Threaded Grip-Twist material, per Barsplice Products, Inc. ISO Quality System. Reinforcing Bars, per ASTM A 615 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

