

ZAP T-LOK MECHANICAL ANCHORAGE 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
5T5760	5A	Black	No. 5	0.31	32,910	106,161	177%	15M	200	146.4	732	183%
	5B		No. 5	0.31	33,160	106,968	178%	15M	200	147.5	737	184%
5T5870	5A	Black	No. 5	0.31	32,920	106,194	177%	15M	200	146.4	732	183%
	5B		No. 5	0.31	33,310	107,452	179%	15M	200	148.2	741	185%
5T5892	5A	Black	No. 5	0.31	35,280	113,806	190%	15M	200	156.9	785	196%
	5B		No. 5	0.31	33,370	107,645	179%	15M	200	148.4	742	186%
5T6123	5A	Black	No. 5	0.31	33,120	106,839	178%	15M	200	147.3	737	184%
5T7930	5A	Epoxy	No. 5	0.31	32,430	104,613	174%	15M	200	144.2	721	180%
	5B		No. 5	0.31	32,900	106,129	177%	15M	200	146.3	732	183%
6T3577	6A	Black	No. 6	0.44	50,100	113,864	190%	20M	300	222.8	743	186%
	6B		No. 6	0.44	50,530	114,841	191%	20M	300	224.8	749	187%
6T4391	6A	Black	No. 6	0.44	46,120	104,818	175%	20M	300	205.1	684	171%
	6B		No. 6	0.44	44,910	102,068	170%	20M	300	199.8	666	166%
6T5263	6A	Black	No. 6	0.44	47,340	107,591	179%	20M	300	210.6	702	175%
	6B		No. 6	0.44	47,690	108,386	181%	20M	300	212.1	707	177%

NOTES

Test results are from routine testing of each heat lot of arriving Zap T-Lok 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
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ZAP T-LOK MECHANICAL ANCHORAGE 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
8T2862	8A	Black	No. 8	0.79	92,430	117,000	195%	25M	500	411.1	822	206%
8T2876	8A	Black	No. 8	0.79	84,710	107,228	179%	25M	500	376.8	754	188%
	8B		No. 8	0.79	86,320	109,266	182%	25M	500	384.0	768	192%
8T2957	8A	Black	No. 8	0.79	88,090	111,506	186%	25M	500	391.8	784	196%
	8B		No. 8	0.79	84,100	106,456	177%	25M	500	374.1	748	187%
8T3085	8A	Black	No. 8	0.79	86,460	109,443	182%	25M	500	384.6	769	192%
	8B		No. 8	0.79	85,810	108,620	181%	25M	500	381.7	763	191%
9T1246	9A	Black	No. 9	1.00	101,720	101,720	170%	30M	700	452.5	646	162%
	9B		No. 9	1.00	96,080	96,080	160%	30M	700	427.4	611	153%
9T1343	9A	Black	No. 9	1.00	109,560	109,560	183%	30M	700	487.3	696	174%
	9B		No. 9	1.00	100,410	100,410	167%	30M	700	446.6	638	160%
9T2351	9A	Epoxy	No. 9	1.00	111,290	111,290	185%	30M	700	495.0	707	177%
	9B		No. 9	1.00	109,600	109,600	183%	30M	700	487.5	696	174%
9T2378	9A	Black	No. 9	1.00	112,860	112,860	188%	30M	700	502.0	717	179%
	9B		No. 9	1.00	114,180	114,180	190%	30M	700	507.9	726	181%

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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ZAP T-LOK MECHANICAL ANCHORAGE 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
11T2082	11A	Black	No. 11	1.56	164,029	105,147	175%	35M	1000	729.6	730	182%
	11B		No. 11	1.56	159,560	102,282	170%	35M	1000	709.7	710	177%
11T2085	11A	Black	No. 11	1.56	163,120	104,564	174%	35M	1000	725.6	726	181%
	11B		No. 11	1.56	166,110	106,481	177%	35M	1000	738.9	739	185%
11T2089	11A	Black	No. 11	1.56	160,980	103,192	172%	35M	1000	716.0	716	179%
	11B		No. 11	1.56	163,589	104,865	175%	35M	1000	727.6	728	182%
11T4116	11A	Epoxy	No. 11	1.56	154,030	98,737	165%	35M	1000	685.1	685	171%
	11B		No. 11	1.56	154,360	98,949	165%	35M	1000	686.6	687	172%
11T4155	11A	Black	No. 11	1.56	172,890	110,827	185%	35M	1000	769.0	769	192%
	11B		No. 11	1.56	170,510	109,301	182%	35M	1000	758.4	758	190%
14T628	14A	Black	No. 14	2.25	218,831	97,258	162%	45M	1500	973.4	649	162%
	14B		No. 14	2.25	226,870	100,831	168%	45M	1500	1009.1	673	168%
14T773	14A	Black	No. 14	2.25	251,960	111,982	187%	45M	1500	1120.7	747	187%
	14B		No. 14	2.25	259,200	115,200	192%	45M	1500	1152.9	769	192%
14T775	14A	Black	No. 14	2.25	252,511	112,227	187%	45M	1500	1123.2	749	187%
14T943	14A	Black	No. 14	2.25	232,180	103,191	172%	45M	1500	1032.7	688	172%
	14B		No. 14	2.25	253,730	112,769	188%	45M	1500	1128.6	752	188%

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