

DOUBLE BARREL ZAP SCREWLOK TEST DATA CONVERSION - 10M, 15M, 20M AND 25M

Lab Report 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	
4T1144	Black	No. 4	0.2	21,070	105,350	176%	10M	100	93.7	937	234%	
		No. 4	0.2	20,300	101,500	169%	10M	100	90.3	903	226%	
4T1227		No. 4	0.2	20,200	101,000	168%	10M	100	89.8	898	225%	
		No. 4	0.2	20,880	104,400	174%	10M	100	92.9	929	232%	
4T1228		No. 4	0.2	19,540	97,700	163%	10M	100	86.9	869	217%	
		No. 4	0.2	19,720	98,600	164%	10M	100	87.7	877	219%	
4T1236		No. 4	0.2	23,800	119,000	198%	10M	100	105.9	1059	265%	
		No. 4	0.2	22,910	114,550	191%	10M	100	101.9	1019	255%	
4T523		Epoxy	No. 4	0.2	21,280	106,400	177%	10M	100	94.7	947	237%
			No. 4	0.2	20,680	103,400	172%	10M	100	92.0	920	230%
4T544			No. 4	0.2	20,070	100,350	167%	10M	100	89.3	893	223%
			No. 4	0.2	20,320	101,600	169%	10M	100	90.4	904	226%
4T952	No. 4		0.2	20,200	101,000	168%	10M	100	89.8	898	225%	
	No. 4		0.2	20,670	103,350	172%	10M	100	91.9	919	230%	
4T1197	No. 4		0.2	20,160	100,800	168%	10M	100	89.7	897	224%	
	No. 4		0.2	19,790	98,950	165%	10M	100	88.0	880	220%	
5T3378	Black		No. 5	0.31	31,580	101,871	170%	15M	200	140.5	702	176%
			No. 5	0.31	31,360	101,161	169%	15M	200	139.5	697	174%
5T3571			No. 5	0.31	31,370	101,194	169%	15M	200	139.5	698	174%
			No. 5	0.31	31,190	100,613	168%	15M	200	138.7	694	173%
5T3578		No. 5	0.31	32,180	103,806	173%	15M	200	143.1	716	179%	
		No. 5	0.31	32,490	104,806	175%	15M	200	144.5	723	181%	
5T3598		No. 5	0.31	31,950	103,065	172%	15M	200	142.1	711	178%	
		No. 5	0.31	31,810	102,613	171%	15M	200	141.5	707	177%	
5T1697		Epoxy	No. 5	0.31	33,070	106,677	178%	15M	200	147.1	735	184%
			No. 5	0.31	32,340	104,323	174%	15M	200	143.8	719	180%
5T3089			No. 5	0.31	31,570	101,839	170%	15M	200	140.4	702	176%
			No. 5	0.31	32,290	104,161	174%	15M	200	143.6	718	180%
5T3097	No. 5		0.31	30,750	99,194	165%	15M	200	136.8	684	171%	
	No. 5		0.31	30,810	99,387	166%	15M	200	137.0	685	171%	
5T3490	No. 5		0.31	29,570	95,387	159%	15M	200	131.5	658	164%	
	No. 5		0.31	28,650	92,419	154%	15M	200	127.4	637	159%	
6T2440	Black		No. 6	0.44	46,300	105,227	175%	20M	300	205.9	686	172%
			No. 6	0.44	47,840	108,727	181%	20M	300	212.8	709	177%
6T2441			No. 6	0.44	46,840	106,455	177%	20M	300	208.3	694	174%
			No. 6	0.44	44,920	102,091	170%	20M	300	199.8	666	167%
6T2745		No. 6	0.44	44,350	100,795	168%	20M	300	197.3	658	164%	
		No. 6	0.44	46,520	105,727	176%	20M	300	206.9	690	172%	
6T2778		No. 6	0.44	44,630	101,432	169%	20M	300	198.5	662	165%	
		No. 6	0.44	45,200	102,727	171%	20M	300	201.0	670	168%	
6T1919		Epoxy	No. 6	0.44	45,340	103,045	172%	20M	300	201.7	672	168%
			No. 6	0.44	46,540	105,773	176%	20M	300	207.0	690	173%
6T1986			No. 6	0.44	47,180	107,227	179%	20M	300	209.9	700	175%
			No. 6	0.44	47,210	107,295	179%	20M	300	210.0	700	175%
6T2480	No. 6		0.44	45,040	102,364	171%	20M	300	200.3	668	167%	
	No. 6		0.44	46,590	105,886	176%	20M	300	207.2	691	173%	
6T2519	No. 6		0.44	43,130	98,023	163%	20M	300	191.8	639	160%	
	No. 6		0.44	42,950	97,614	163%	20M	300	191.0	637	159%	
8T1844	Black		No. 8	0.79	84,970	107,557	179%	25M	500	377.9	756	189%
			No. 8	0.79	80,186	101,501	169%	25M	500	356.7	713	178%
8T1845			No. 8	0.79	76,530	96,873	161%	25M	500	340.4	681	170%
			No. 8	0.79	83,370	105,532	176%	25M	500	370.8	742	185%
8T1995		No. 8	0.79	81,060	102,608	171%	25M	500	360.6	721	180%	
		No. 8	0.79	83,410	105,582	176%	25M	500	371.0	742	186%	
8T2023		No. 8	0.79	88,450	111,962	187%	25M	500	393.4	787	197%	
		No. 8	0.79	84,770	107,304	179%	25M	500	377.1	754	189%	
8T1771		Epoxy	No. 8	0.79	76,710	97,101	162%	25M	500	341.2	682	171%
			No. 8	0.79	74,960	94,886	158%	25M	500	333.4	667	167%
8T2014			No. 8	0.79	75,220	95,215	159%	25M	500	334.6	669	167%
			No. 8	0.79	73,450	92,975	155%	25M	500	326.7	653	163%

NOTES

Test results are from routine testing of each heat lot of arriving coupler 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

