## **Engineering Information**

## Safe Loads on Atuds and Bolts

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SAFE LOADS ON STUDS AND BOLTS G. General Engineering: Dia of safe Load that one stud or bolt stud or will carry (mild steel)						
Bolt Inch:	G	1. Man	H	to March	ware T	Lb
1/2 5/8 3/4	250 500 900	60 day wa 810,820136 :	450 900 1790	e motiod	retidal	Miloc
7/8 1 1.1/8	1500 2150 3000		2880 4240 5740			
1.1/4 1.3/8	4250 5500		7650 9370			
1.1/2	7000	1 8605	11600	0850	7	118
Safe Load on Fo	undations	027	125 (5)	04	Per Sq. I	Foot:
Made Ground Soft Clay Hard Clay or Lo Dry Compact Sa		2.0483 2.2148	106 101	1.0670	2 to	2 ton 1 ton 4 ton 4 ton

Safe Load on Foundations	U. F. I. While	pan	DUDE	Per Sq. Foot:
Made Ground Soft Clay	83 2,3651	894   2.0	1.0670	1/2 ton 1 ton
				2 to 4 ton 2 to 4 ton
Dry Coaree Gravel				3 to 7 ton
Ordinary Rock Continuation				3 ton
Hard Rock Loose beds with piling				9 ton
Loose beds with Concrete				1.82 ton 2.75 ton

Bolt Inch:	1.9687	G	3546	H 2,925	1.9298	land i	Lb.
1.3/4	2.1875	11,000 16,000	3.894	15,600 20,800	21798	À	21/2
2.1/2		26,100		10 17			
3.1/2		38,100 53,000		P09.P-			
4 4.1/2		70,100 90,000		M - 546		8500	
5 5.1/2		113,000 138,000		6406 1-1			
Safe Load Granite Limestone Sandstone		ry: 2379.3 63/8804.3		77.577 1-675.d fil	3,3231	8 1	Foot: 0 ton 5 ton

Safe Load on Masonary	y: 2016.8.			Per Sq. Foot:
Granite	de la			30 ton
			3,3231	The second of
Sandstone				20 ton
Cement Concrete 5-1		1500.01		15 ton
Cement Concrete 10-1				7.5 ton
Lime Concrete Brick in Motor	1.8819			2 to 4 ton
Brick in Cemment				3.5 ton
Rubble				8 to 12 ton 3.5 ton

## **Engineering Information**

Element	Melting Point, OC	Specific Gravity	Specific Heat (Water —1)	Linear Coefficient of Expansion at 40°C x 10 <sup>4</sup> per °C	
Aluminium	658.7	2.56	0.2089	0.2313	
Antimony	630.0	6.70	0.0495	0.1152	
Bismuth	271	9.76	0.0301	0.1346	
Cadmium	320.9	8.7	0.0548	0.3069	
Calcium	810	1.82	0.1453	-64 2	
Chormium	1553	7.0	0.10394	_	
Cobalt	1480	8.74	0.1030	0.1236	
Copper	1083	8.65	0.939	0.1678	
Gold	1063	19.3	0.316	0.1443	
Iron	1530	7.86	0.1338	0.1182	
Lead	327.4	11.4	0.3150	0.2924	
Megnesium	651	1.75	0.2456	0.2694	
Manganese	1230	8.0	0.1072	0.228	
Mercury	-38.9	13.6	0.0334	1.8200	
Molybednum	2500	8.62	0.0659	0.0501	
Nickel	1452	8.5	0.1034	0.1279	
Palladium	1550	11.4	0.0592	0.1176	
Phosphorous	44	1.83	0.189	-2.95	
Platinum	1755	22.15	0.0323	0.0899	
Potassium	62.3	0.88	0.1876	0.8300	
Rhodium	1950	12.1	0.05803	0.0850	
Silicon	1420	2.3	0.2140	0.0763	
Silver	960.5	10.55	0.0556	0.1921	
Sodium	97.5	0.97	0.29305	0.7200	
Sulphur	114	2.04	0.1844	-	
Tantalum	2900	10.8	0.0301	0.0800	
Tellerium	452	6.25	0.0525	.1680	
Tin	231.9	7.3	0.0559	0.2234	
Tungsten	2400	18.8	0.0336	0.0444	
Vanadium	1720	5.5	0.1153	respectively (mu)	
Zinc	419.4	7.0	0.0935	0.2918	
Zirconium	1530	6.4	0.0660		

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