

Left Hand (shown), Sizes 30/16-52/26
Right Hand, Sizes 73/53 - 103/78-51

Left Hand, on Bar R32/20

Rod Size D Ø / INNER Ø	Area	Load Capacity					Outside Diameter		Weight
		Ultimate G.U.T.S.	Yield	Max. Test	Design ¹ 70% G.U.T.S.	Design ² 60% G.U.T.S.	Effective d Ø	Nominal D Ø	
		in ² mm ²	kips kN	kips kN	kips kN	kips kN	in mm	in mm	
30/16 L.H. THREAD	0.59 382	49.5 220	40.5 180	39.6 176	34.6 154	29.7 132	1.02 26	1.18 30	1.8 2.7
30/14 L.H. THREAD	0.61 395	58.5 260	49.5 220	46.8 208.0	40.9 182	35.1 156	1.03 26	1.18 30	1.9 2.9
32/20 L.H. THREAD	0.60 389	65.4 291	54.9 244	52.3 233	45.8 204	39.3 175	1.10 28	1.26 32	2.2 3.2
30/11 L.H. THREAD	0.69 446	72.0 320	58.5 260	58 256	50.4 224	43.2 192	1.03 26	1.18 30	2.2 3.3
40/20 L.H. THREAD	1.13 726	121.2 539	96.7 430	95.6 425	84.8 377	72.7 323	1.42 36	1.57 40	3.8 5.6
40/16 L.H. THREAD	1.36 879	148.4 660	118.1 525	116.9 520	103.9 462	89.0 396	1.42 36	1.57 40	4.7 7.0
52/26 L.H. THREAD	2.07 1337	208.9 929	164.2 730	160.1 712	146.2 650	125.3 557	1.92 49	2.05 52	6.7 10.0
73/56 R.H. THREAD	2.19 1414	268.5 1194	176.5 785	174.3 775	173.2 770	161.1 716	2.76 70	2.87 73	7.5 11.1
73/53 R.H. THREAD	2.53 1631	260.9 1160	218.1 970	208.7 928	182.6 812	156.5 696	2.76 70	2.87 73	8.3 12.3
73/45 R.H. THREAD	3.50 2260	366.5 1630	265.3 1180	263.1 1170	256.6 1141	219.9 978	2.76 70	2.87 73	12.0 17.8
73/35 R.H. THREAD	4.20 2710	445.2 1980	304.7 1355	302.5 1345	301.3 1340	267.1 1188	2.76 70	2.87 73	14.2 21.2
103/78 R.H. THREAD	4.88 3146	513.2 2282	404.8 1800	400.3 1780	359.2 1597	307.9 1369	3.94 100	4.06 103	16.7 24.9
103/51 R.H. THREAD	8.53 5501	778.1 3460	618.4 2750	616.1 2740	544.6 2422	466.8 2076	3.94 100	4.06 103	29.2 43.4
127/111* R.H. THREAD	4.65 3000	539.7 2400	407.0 1810	404.8 1800	377.8 1680	323.8 1440	3.94 100	4.06 103	15.8 23.5
130/60 R.H. THREAD	14.79 9540	1785.5 7940	1180.6 5250	1173.8 5220	1169.3 5200	1071.3 4764	4.92 125	5.12 130	50.4 75.0

Note:
Subject to change without notice.

Shear Force
Allowable shear force is determined by the formula:

$$Q_{\text{allow}} = \frac{\text{Yield}}{1.75 \cdot \sqrt{3}}$$

Certified to
ISO 9001

TITAN 127/111:
Allowable bending moment =
23.9 kNm
(737.5 lbsft)

CTS

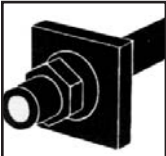
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CTS/TITAN Technical Data



¹ Temporary Anchors; ² Permanent Anchors

Imperial values converted from metric values; June 2005



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NOTES

THE TITAN THREAD MEETS AND EXCEEDS ASTM REQUIREMENTS FOR RE-BAR DEFORMATIONS. GROUT CRACK WIDTH = 0.1mm AT 1.25 OF DESIGN LOAD.

NO ADDITIONAL CORROSION PROTECTION IS REQUIRED

IBO/TITAN BARS ARE ROLLED OUT OF HIGH QUALITY STEEL TUBING FOR SOIL NAILS, ROCK AND SOIL ANCHORS AND MINI / MICRO PILES.

THEIR UNIQUE INSTALLATION METHOD, I.E. DYNAMIC (TREMI)-GROUTING DURING DRILLING ASSURES CONTINUOUS GROUT COVER FOR GOOD CORROSION PROTECTION AND SUPERIOR SKIN FRICTION AND BOND.

FOR ADDITIONAL CORROSION PROTECTION, BARS AND HARDWARE CAN ALSO BE

EPOXY COATED, acc. to ASTM A-934, ASTM A-775 or AASHTO M284

ZINC METALLIZED, acc. to ASTM A-153 or AASHTO M232

HOT DIP GALVANIZED, acc. to ASTM A-153 or AASHTO M232

OR BE SUPPLIED IN (INOX) STAINLESS STEEL.

INSTEAD OF EXTRA CORROSION PROTECTION, THE SACRIFICIAL-STEEL METHOD, CHOOSING THE BAR LARGER THAN REQUIRED, CAN BE USED. THIS METHOD IS VERY COMMON IN EUROPE AND FOR REINFORCED EARTH SYSTEMS.

STOCKED TITAN BARS: 30/16, R32/20, 30/14, 30/11, 40/20, 40/16, 52/26, 73/53, 103/78, 103/51.