



**R-THREAD**

Left Hand, on Bar R32/20

**TITAN THREAD**

Left Hand (shown), Sizes 30/16-52/26

Right Hand, Sizes 52/26 - 103/78-51

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

**Note:**  
 Subject to change without notice.

**Shear Force**  
 Allowable shear force is determined by the formula:

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

A: (Steel) Area

Certified to **ISO 9001**

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

<sup>1</sup> Temporary Anchors; <sup>2</sup> Permanent Anchors.  
 Imperial values converted from metric values; October 2006



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**CTS**

**CTS/TITAN Technical Data**

**NOTES:**

THE TITAN THREAD MEETS AND EXCEEDS ASTM REQUIREMENTS FOR RE-BAR DEFORMATIONS (ASTM-A-615). 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, 30/11, 30/14, 40/20, 40/16, 52/26, 73/53, 103/78, 103/51.