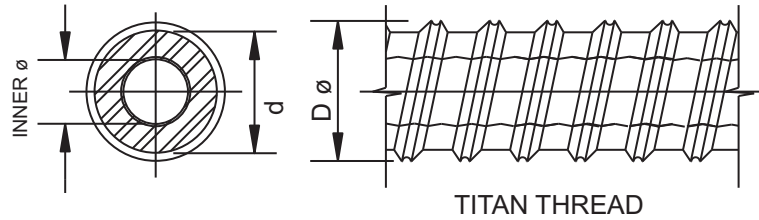


CTS/TITAN IBO® Hollow Bar Anchors



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

Rod Size D Ø / INNER Ø	Area	Load Capacity			Outside Diameter		Weight
		Ultimate G.U.T.S.	Yield	Max. Test	Effective d Ø	Nominal D Ø	
mm	in ²	kips	kips	kips	in	in	lbs./lf.
	mm ²	kN	kN	kN	mm	mm	kg/m
30/16 L.H. THREAD	0.53 340	55.1 245	42.7 190	41.6 185	1.02 26	1.18 30	1.8 2.7
30/14 L.H. THREAD	0.58 375	61.8 275	49.5 220	48.3 215	1.03 26	1.18 30	1.9 2.9
30/11 L.H. THREAD	0.64 415	72.0 320	58.5 260	57 255	1.03 26	1.18 30	2.2 3.3
40/20 L.H. THREAD	1.13 730	121.4 540	95.6 425	94.4 420	1.42 36	1.57 40	3.8 5.6
40/16 L.H. THREAD	1.40 900	148.4 660	118.1 525	116.9 520	1.42 36	1.57 40	4.8 7.2
52/26 L.H. THREAD	1.94 1250	208.0 925	164.2 730	163.0 725	1.92 49	2.05 52	6.7 9.9
73/56 R.H. THREAD	2.11 1360	232.7 1035	186.6 830	185.5 825	2.76 70	2.87 73	7.3 10.8
73/53 R.H. THREAD	2.50 1615	260.9 1160	218.1 970	208.7 928	2.76 70	2.87 73	8.9 13.2
73/45 R.H. THREAD	3.50 2260	356.4 1585	285.6 1270	284.5 1265	2.76 70	2.87 73	12.0 17.8
73/35 R.H. THREAD	4.20 2710	419.4 1865	321.6 1430	320.4 1425	2.76 70	2.87 73	14.2 21.2
103/78 R.H. THREAD	4.87 3140	510.5 2270	404.8 1800	403.6 1795	3.94 100	4.06 103	17.0 25.3
103/51 R.H. THREAD	8.80 5680	823.0 3660	600.4 2670	599.3 2665	3.94 100	4.06 103	30.0 44.6
127/103 R.H. THREAD	5.39 3475	521.7 2320	456.5 2030	417.4 1856	4.84 123	5.00 127	19.2 28.6

Imperial values converted from metric values; July 2010

Note:

Subject to change without notice.

Shear Force

Allowable shear force is determined by the formula:

$$Q_{\text{allow}} = \frac{\text{Yield} * A}{1.75 * 3}$$

A: Area

Certified to
ISO 9001

TITAN 127/111:

Allowable bending moment
= 23.9 kNm (737.5 lbsft)



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Technical Data

NOTES

THE TITAN THREAD MEETS AND EXCEEDS ASTM REQUIREMENTS FOR RE-BAR DEFORMATIONS (ASTM-A-615). GROUT CRACK WIDTH LESS THAN 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.