



# GOLIATHTECH

## TECHNICAL SPECIFICATIONS

GOLIATHTECH HELICAL PILES, TIEBACKS & ANCHORS		ULTIMATE CAPACITY BASED UPON TORQUE ( KIPS - KN ) (1) (2) (3)	HELIX BEARING PLATE GRADE & THICKNESS ( IN - MM )	SECTION COUPLING METHOD
<b>GTPI178</b>	O.D. = 1.875 in - 47.6 mm Wall = 0.154 in - 3.9 mm ASTM A500 Grade C	Comp = 19 kips - 85 KN Ten = 19 kips - 85 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std	0.50 in - 12.7 mm Galvanized Grade 5 Bolts
<b>GTPI238</b>	O.D. = 2.375 in - 60.3 mm Wall = 0.154 in - 3.9 mm ASTM A500 Grade C	Comp = 32 kips - 144 KN Ten = 32 kips - 144 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std	0.50 in - 12.7 mm Galvanized Grade 5 Bolts
<b>GTPI278</b>	O.D. = 2.875 in - 73.0 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 64 kips - 288 KN Ten = 64 kips - 288 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.50 in - 12.7 mm Galvanized Grade 5 Bolts
<b>GTPI312</b>	O.D. = 3.500 in - 88.9 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 77 kips - 348 KN Ten = 77 kips - 348 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.50 in - 12.7 mm Galvanized Grade 5 Bolts
<b>GTPI412</b>	O.D. = 4.500 in - 114.3 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 115 kips - 517 KN Ten = 115 kips - 517 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.50 in - 12.7 mm Galvanized Grade 5 Bolts
<b>GTPI5916</b>	O.D. = 5.563 in - 141.3 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 212 kips - 953 KN Ten = 212 kips - 953 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm Galvanized Grade 5 Bolts
<b>GTPI658</b>	O.D. = 6.625 in - 168.3 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 176 kips - 789 KN Ten = 176 kips - 789 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm Galvanized Grade 5 Bolts
<b>GTPI658X</b>	O.D. = 6.625 in - 168.3 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 249 kips - 1118 KN Ten = 249 kips - 1118 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm Galvanized Grade 5 Bolts
<b>GTPI858</b>	O.D. = 8.625 in - 219.1 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 229 kips - 1030 KN Ten = 229 kips - 1030 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm Galvanized Grade 5 Bolts
<b>GTPI858X</b>	O.D. = 8.625 in - 219.1 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 329 kips - 1479 KN Ten = 329 kips - 1479 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	0.75 in - 19.0 mm Galvanized Grade 5 Bolts
<b>GTPI1034</b>	O.D. = 10.750 in - 273.0 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 242 kips - 1085 KN Ten = 242 kips - 1085 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm Galvanized Grade 5 Bolts
<b>GTPI1034X</b>	O.D. = 10.750 in - 273.0 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 350 kips - 1572 KN Ten = 350 kips - 1572 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm Galvanized Grade 5 Bolts
<b>GTPI1234</b>	O.D. = 12.750 in - 323.8 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade C	Comp = 344 kips - 1544 KN Ten = 344 kips - 1544 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm Galvanized Grade 5 Bolts
<b>GTPI1234X</b>	O.D. = 12.750 in - 323.8 mm Wall = 0.375 in - 9.5 mm ASTM A500 Grade C	Comp = 501 kips - 2248 KN Ten = 501 kips - 2248 KN	CSA G40.20-13/G40.21-13 0.38 in - 9.5 mm std 0.50 in - 12.7 mm opt	1.00 in - 25.4 mm Galvanized Grade 5 Bolts

(1) The values shown only address torque correlated soil capacity. Other mechanical limit states of the pile/anchor, its couplers, and its connections to the structure (brackets) may also govern the design capacity. "Refer to the manufacturer's technical manual for further information."

(2) Large diameter helical piles develop capacity by a combination of both end-bearing and skin friction. The ultimate pile capacity is calculated based on the site-specific soil profile on a case-by-case basis. Load tests are often recommended for larger shaft sizes to identify a site-specific torque correlation factor (Kt), to determine the pile displacement versus load, and to verify the helical pile configuration.

(3) Safety factors must be added to the above numbers according to local laws and regulations where the product is being installed.