MECHANICAL ASD LOAD CAPACITY

maximum installation torque rating for the specific pile model. Allowable soil capacity is

determined from Pa = Pult /2.0 based on the corresponding maximum installation torque rating

4. Maximum Torque Per Soil Tests is the maximum torque achieved during field axial verification testing that was conducted to verify the pile axial capacity related to pile-soil

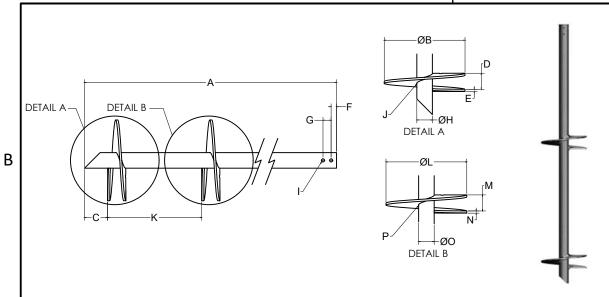
5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the

6. The allowable soil capacity under the IRC must be determined in accordance with Equation

*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost

for the specific pile model. See Section 4.1.5 for additional information.

3. Mechanical torsion rating is the maximum torsional resistance of the steel shaft.



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- 1-MATERIALS:
- HELIX PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, ULTIMATE STRENGTH 70 KSI
- -TUBES PER ASTM A500 GR C, FY=60KSI, FU=70KSI
- 2-ANY CHANGE OF MATERIAL IS SUBJECT TO GOLIATHTECH APPROVAL
- 3-WELD PERFORMED IN ACCORDANCE WITH CSA STANDARD W47.1
 AND GOLIATHTECH WELDING PROCEDURES. WELDERS ARE ALSO
 CERTIFIED TO THE AWS STANDARD.
- 4-HOT-DIP GALVANIZED, PARTS PER ASTM A123.

3		
2		
1	INITIAL RELEASE	2023-09-14
REV	MODIFICATION	DATE

GOLIAŢHITECH

GOLIATHTECH PRESTIGE LINE

TITLE: 14' Double Helix Screw Pile of 2 7/8 (0.250 wall) with a 13"and 15"Helix

AL:	DWG. NO :
	GTPI2781315-14FT
	DRAWN BY:
	ARG
	DESIGN BY:
	GOLIATHTECH
	CHECK BY:
	CPOC
	APP BY:
	СРОС
	OTHER NO:
	-

FORMAT: A REV.: DATE: PAGE: SCALE: NTS 1 2023-09-14 1 DE 1
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GOLIATHTECH INC.

ı			Description	WILCHANICAL ASD LOAD CAPACITY							
l	NO.	Dimension		Shaft 18th	Compression (kips)			Tension	Lateral	Bending	Max Soil Capacity
		(inches)		Undraced Staft, Luften	0 Coupler	1 Coupler	2 Coupler	(kips)	(kips)	Moment (kips.ft)	Comp/Ten * (kips)
l	Α	168		0	65.5	65.5	65.5	25.78	16.70	4.59	34.88
l	В	13		5	28.1	15.0	8.1				
l	C	4 1/4		10	14.1	9.8	6.3				
l	D	3 PITCH		15	7.4	6.0	4.5				
l	Е	3/8		20	4.6	4.0	3.3				
١	F	1		Note: 1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.							·
١	G	1 1/2		2. Maximum ultimate soil capacity is determined from Pult = Kt x T based on the corresponding							

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interaction.

"maximum torque per soil tests".

3 of Section 4.1.5 of this report, when applicable.

8. Max Soil Capacities based on the tube torsional cpacity.

2 7/8

9/16

1/4

3 PITCH

3/8

1/4

2 7/8

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15

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Weld

Weld