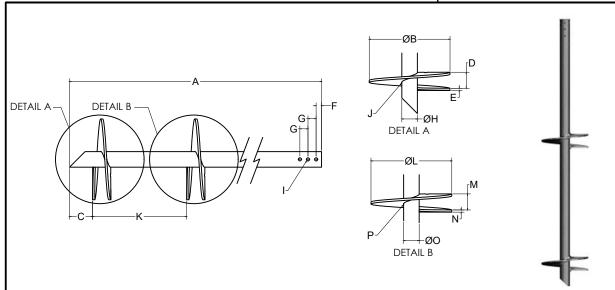
MECHANICAL ASD LOAD CAPACITY

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



NOTES:

- 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.

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1	INITIAL RELEASE	2023-10-02
REV	MODIFICATION	DATE

GOLIAŢHITECH

GOLIATHTECH PRESTIGE LINE

TITLE: Double Helix Screw Pile of 3 1/2 (0.250 wall) with a 19" and 19" Helix

SEAL:	DWG. NO :
	GTPI3121919
	DRAWN BY:
	ARG
	DESIGN BY:
	GOLIATHTECH
	CHECK BY:
	CPOC
	APP BY:
	CPOC
	OTHER NO:
	-

	FORMAT : A		REV.:	DATE:	PAGE:		
	SCALE :	NTS	1	2023-10-02	1 DE		
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GOLIATHTECH INC.

	Dimension	Description	Compression					Bending	Max Soil	
NO.	(inches)		Jindrated Straft, Li Jirol	0	(kips)	2	Tension (kips)	Lateral (kips)	Moment (kips.ft)	Capacity Comp/Ten
			V	Coupler	Coupler	Coupler			(Kips.it)	* (kips)
Α	84		0	70.6	70.6	70.6				
В	19		5	40.2	26.2	16.3				
С	4 1/4		10	22.8	17.5	12.5	28.78	21.30	7.12	43.75
D	3 PITCH		15	13.0	11.1	8.8				
Е	1/2		20	8.2	7.4	6.3				
F	1		Note: 1. Soil capacity	(D4) mus	t ha data	rminad n	or Section 4	1.5 of this r	onort	
G	1 1/2		2. Maximum ult	` '					•	corresponding
Н	3 1/2			maximum installation torque rating for the specific pile model. Allowable soil capacity is						
- 1	9/16		for the specific	determined from Pa = Pult /2.0 based on the corresponding maximum installation torque rating for the specific pile model. See Section 4.1.5 for additional information.						
J	1/4	Weld	Mechanical torsion rating is the maximum torsional resistance of the steel shaft. 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							
К	57									
	10		interaction.							

"maximum torque per soil tests".

3 of Section 4.1.5 of this report, when applicable.

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

Weld

19

M

0

3 PITCH

1/2

1/4

3 1/2

В