

GOLDEN GATORVATOR 4 POST, 4 MOTOR LIFT

STRUCTURAL ENGINEERING REVIEW

THIS CONSTRUCTION HAS BEEN DESIGNED AS A MAIN WIND FORCE RESISTING SYSTEM, WITH CALCULATED GRAVITY AND WIND LOADS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 8th EDITION, 2023, CHAPTERS 16 & 20, ADM 2020, AND ASCE/SEI 7-22 "MINIMUM DESIGN LOADS AND OTHER CRITERIA FOR BUILDINGS AND OTHER STRUCTURES" TO WITHSTAND THE WIND LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I. J. L. SANDERS, P.E. HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC SPECIFICATIONS WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES BASED ON DATA PROVIDED BY THE MANUFACTURER. THIS STRUCTURAL REVIEW IS LIMITED TO THE PRIMARY FRAMING AND CONNECTIONS AND IS NOT INTENDED TO COVER MECHANICAL AND ELECTRICAL COMPONENTS. THESE SPECIFICATIONS ARE BASED ON STRUCTURAL CALCULATIONS TITLED "4 POST GATORVATOR LIFT", WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE BOAT LIFTS DEPICTED IN THESE SPECIFICATIONS AND RELATED CALCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND NOT INTENDED TO COVER SITE SPECIFIC CONDITIONS, REQUIREMENTS AND LIMITATIONS LISTED IN THE STRUCTURAL CALCULATIONS.

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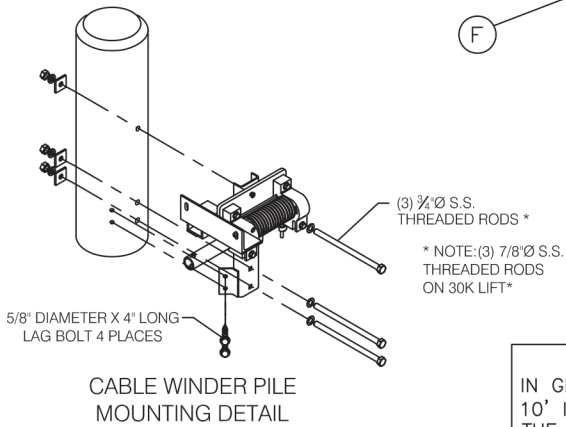
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Date:



NOTE:
BOATS SHALL NOT BE
STORED ON LIFT DURING
HIGH WIND EVENTS.



NOTES:
IN GENERAL, PILING PENETRATION TO BE
10' INTO THE SAND BOTTOM OR 5' INTO
THE ROCK STRATA. SUB-SURFACE
CONDITIONS CAN VARY GREATLY, THE
CONTRACTOR SHALL VERIFY ALL PILE
CAPACITIES. ALL WOOD PILINGS TO BE
2.5 C.C.A. TREATED.

NOTE: THIS STRUCTURE HAS BEEN DESIGNED FOR LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I, CALCULATED PER FLORIDA BUILDING CODE 8th EDITION, 2023, ASCE/SEI 7-22 AND ADM-2020. BOATS SHALL NOT BE STORED ON LIFTS DURING HIGH WIND EVENTS.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)		
LIFT CAPACITY	NO. OF BRGS	CABLE CONFIG.	GROOVED WINDERS IN.	DRIVE SHAFT IN.	DRIVE	NO. OF MOTORS & H.P.	LIFTING CABLE IN.	LIFT PER MIN. /IN.	GUIDE POST HEIGHT IN.	BOAT BUNK IN.	CRADLE BEAM/ "I" BEAM SIZE IN.		Recomm.Min Piling Sizes IN.
LBS.													
7,000	8	30' S.S. 2 PART	3 ϕ X 12"	1.905 O.D. 8 GA. GALV. STEEL PIPE	SEA DRIVE 8,000 IPT	(4)-3/4 HP 120V / 20A 240V / 10A	(4) .3125 ϕ	19"/MIN.	80"	2 x 8 X 144	6 x .21 H 4 x .35 W	144" LGTH	8" ϕ
10,000											8 x .23 H 5 x .35 W	144" LGTH	10" ϕ
14,000											8 x .25 H 5 x .41 W	144" LGTH	
16,000			3.5 ϕ X 12"	3.5 O.D. SOLID ALUMINUM PIPE		(4)-1 HP 120V / 28A 240V / 14A	(4) .375 ϕ		120"	3 x 10 X 168	10 x .25 H 6 x .41 W	168" LGTH	12" ϕ
20,000											10 x .25 H 6 x .41 W	192" LGTH	
24,000			3.5 ϕ X 16"			240V / 14A	(4) .4375 ϕ			3 x 10 192	10 x .29 H 6 x .50 W	192" LGTH	
30,000									6 x 10 BEAM 240		12 x .31 H 7 x .62 W	192" LGTH	

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