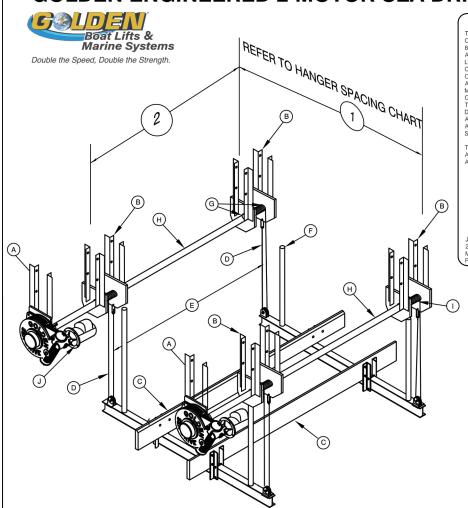
GOLDEN ENGINEERED 2 MOTOR SEA DRIVE BOAT HOUSE LIFTS



STRUCTURAL ENGINEERING REVIEW

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 GRITCHERS" TO WITH STAND THE WIND LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D', RISK CATEGORY I. JL. SANDERS, PE. 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 REVIEW IS LIMITED TO THE PRIMARY FRAMING AND CONNECTIONS AND ENGINEER BASED ON STRUCTURAL RELUCTURAL CALCULATIONS TITLED 2 MOTIOR SEA DRIVE BOAT HOUSE LIFT, WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE KAYLALBLE UPON REQUEST. THE BOAT LIFTS DEPICTED IN THESE SPECIFICATIONS AND RELUCITED PRODUCT FOR NON-SITE SPECIFIC ARE AND NOT INTENDED TO COVER SITE SPECIFIC CONDITIONS. SPECIFIC USE AND NOT INTENDED TO COVER SITE SPECIFIC CONDITIONS.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J.L. SANDERS, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



Digitally signed by J.L. Sanders Date: 2024.03.07 16:10:22 -05'00'

2515 Gratis Road NW Monroe, GA 30656 Phone: 239-671-1578

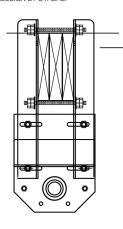
J.L. SANDERS, P.E. Reg. Florida No. 66361

Date

6061-T6 ALUMINUM HANGER MOUNT BRACKETS-RECOMMENDED ATTACHMENT BASED ON BRACKET CONFIGURATION. VERIFY ADEQUACY BASED ON ACTUAL SITE CONDITIONS:

4-1/2" STAINLESS STEEL THRU BOLTS USED TO CONNECT THE BRACKETS TO THE SUPPORT BEAM AND 4-1/2" STAINLESS STEEL THRU BOLTS USED TO CONNECT THE BRACKETS TO THE DRIVE PLATES. SUPPORT BEAM DESIGN BY OTHERS.

(F) (G) (H) (I) (J)



HANGER SPACING CHART The Boat Center of Gravity is to be Centered between Cradle Beams

Lift Capacity	"1" Dimension	"2" Dimension	Recommended Bolt Diameters			
Lb.	ln.	ln.	ln.			
7,500	144					
10,000	150	110.75	1/2			
14,000	150	116.75				
16,000	168					

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

IN GENERAL, THE HANGERS SHALL BE ATTACHED TO A SITE SPECIFIC SUPPORT BEAM STRUCTURE (DESIGN BY OTHERS). THE CONTRACTOR SHALL VERIFY ALL BEAM CAPACITIES. ALL BEAMS TO BE #2 SYP PRESSURE TREATED WOOD AS A MINIMUM . ALL STRUCTURAL MEMBERS TO BE 6061-T6 ALUMINUM UNO.

SUMMARY OF DESIGN FEATURES

(D)

(E)

		<u> </u>				$\overline{}$	$\overline{}$	\circ		$\overline{}$		
LIFT CAPACITY	TOP BEAM HANGER ASSY. 4 EACH	CRADLE I-BEAM 2 EACH	BUNK INCHES	CABLE SIZE	CABLE SPREAD	GUIDE POST HEIGHT	BRGS	DRIVE	WINDER DIA	MOTOR HP VOLTAGE	INCHES OF LIFT	RECOM HANGER BOLT SIZE
Lbs	INCHES	INCHES	INCHES	INCHES	IN	HEIGHT		OHAH	J (VOLTAGE	PER MIN	BOLT SIZE
7,500#	SUPPORT ARMS 23.5 H x 3 X 3 X 1/4" DRIVE PLATES 14.5 H x 12 X 3/4"	6 H x .19 4 W x .29 144" LGTH	2 x 8 X 144	(4) - 5/16" x 40' 40' STAINLESS STEEL 2 PART	116.75	80"	8-UT-210-31-B0	1.9" O.D. 8 GAUGE	3.5" DIAMETER ALUMINUM PIPE WITH CABLE GROOVES	(2) - 1 HP 120V/28A 240V/14A	21" to 54"	(4)1/2" DIA PER LIFT LOCATION
10,000#		8 H x .23 5 W x .35 150" LGTH								(2) - 3/4 HP 120V/28A 240V/14A		
14,000#		8 H x .25 5 W x .41 150" LGTH								(2) - 1 HP 120V/28A 240V/14A		
16,000#		10 H x .25 6 W x .41 168" LGTH	3 x 10 X 192							240V/14A		