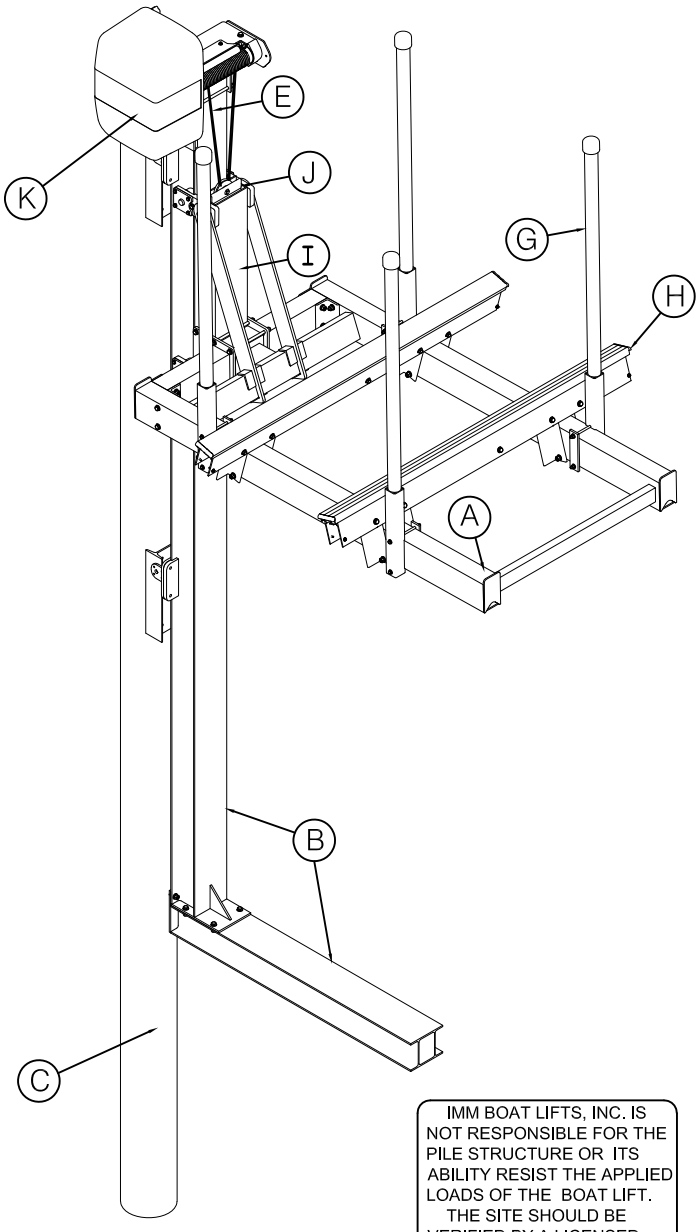
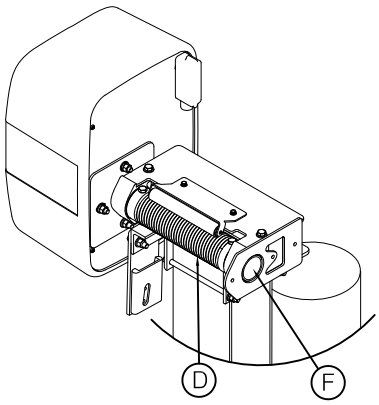
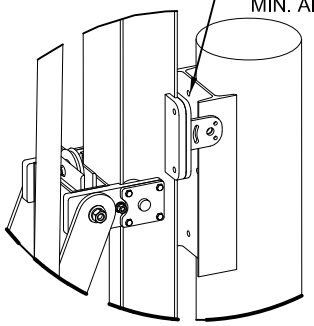
IMM Quality Boat Lifts

DOUBLE WIDE TRACK (DWT) 3000 SPECIFICATIONS





MOTOR / WINDER DETAIL



PILE ATTACHMENT DETAIL

IMM BOAT LIFTS, INC. IS NOT RESPONSIBLE FOR THE PILE STRUCTURE OR ITS ABILITY RESIST THE APPLIED LOADS OF THE BOAT LIFT. THE SITE SHOULD BE VERIFIED BY A LICENSED MARINE CONTRACTOR. APPLIED LOADS WILL BE PROVIDED UPON REQUEST.

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, ADM 2020 AND ASCE/SEI 7-22 "MINIMUM DESIGN LOADS AND ASSOCIATED 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, PE HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC DESIGN FEATURES 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 DESIGN FEATURES ARE BASED ON STRUCTURAL CALCULATIONS, TITLED "STRUCTURAL CALCULATIONS FOR SINGLE TRACK LIFT", WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE BOAT LIFTS DEPICTED BY THESE DESIGNS AND RELATED CALCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND SHALL MEET THE DESIGN REQUIREMENTS AND INSTALLATION LIMITATIONS LISTED IN THE STRUCTURAL CALCULATIONS.

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

J.L. SANDERS No. 66361 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by J.L. Sanders
Date: 2024.04.22 15:37:01 -04'00'

J.L.SANDERS,PE
2515 GRATIS ROAD NW
MONROE, GA 30656
PHONE 239-671-1578

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

(A) LIFT CAPACITY lbs.	(A) CRADLE TUBE 6061-T6 QTY. 2	(B) STD. TRACK AA I-BEAM 6061-T6	(C) PILE SIZE minimum	(D) GROOVED CABLE WINDER SIZE	(D) STD. TRAVEL	(E) CABLES	(F) DRIVE SHAFT SIZE inches	(G) GUIDE POST HEIGHT	(H) BOAT BUNKS WOOD OPTION	(H) BOAT BUNKS ALUM. OPTION	(I) LIFT TROLLEY 6061-T6 ALUM	(J) LIFTING LUG PULLEY CLEVIS	(K) POWERHEAD / MOTOR GEAR RATIO	(K) MOTOR	(K) LIFT SPEED in/min
3,000	6"x4"x.25" 72" Long	8 x .19 H 6 x .29 W Double Web 15' w/ Foot	10"Ø	3" Sch 80 Pipe	12'	5/16 SSAC 7x19 304 2P 34'	Tube 2.875 O.D. 8 Gauge	7' PVC	2' x 8' x 72" Rough Sawn Carpeted	72" Aluminum	8"x4"x.25" 36" Long	7.375" x 4.100" x.25" EXTRUSION w/ 0.75" PIN	375:1	3/4H.P-115V/11A 230V/5.5A	26

Notes:

1. Structure designed for loads associated with an ultimate wind speed of 180 MPH, exposure "D", risk category 1, calculated for Florida Building Code 2023, ASCE 7-22 and ADM-2020.
2. Boats shall not be stored on lifts during high wind events.
3. All primary structural members to be 6061-T6 aluminum.
4. Tracks are to be driven to firm bearing material.
5. Wood piles shall comply with ASTM D25, southern pine, 2.5 cca marine grade PT.
6. Lateral support for piles and attachment to piles shall be engineered by others for site specific conditions.

IMM QUALITY BOAT LIFTS

DWG: 600056 Pub. 4-22-24

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