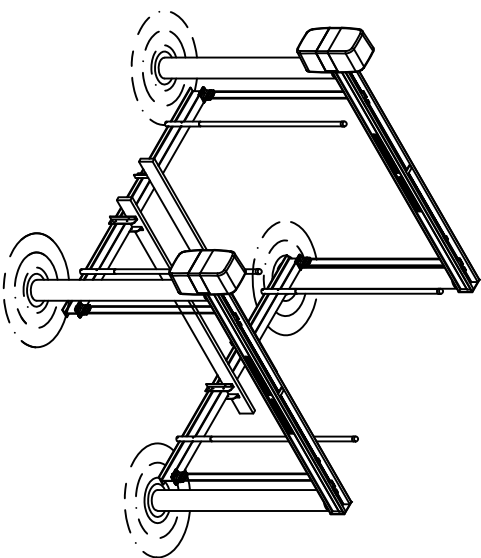


IMM Quality Boat Lifts

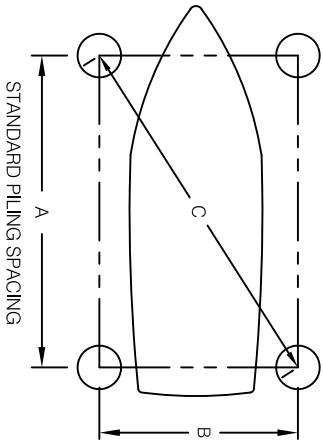
PLATINUM BOAT LIFT SPECIFICATIONS

4 POST BOAT LIFTS WITH 2 CRADLE BEAMS AND 4 CABLES



LIFT CAPACITY	A	B	C	RECOMMENDED MIN. PILE SIZE
4,500 lbs.	132"	120"	178"	8" DIA.
7,000 lbs.	144"	144"	204"	8" DIA.
10,000 lbs.	144"	150"	208"	8" DIA.
13,000 lbs.	144"	150"	208"	8" DIA.
16,000 lbs.	144"	168"	218"	10" DIA.
16,000 XL lbs.	168"	168"	238"	10" DIA.
20,000 lbs.	168"	192"	256"	10" DIA.
27,000 lbs.	192"	192"	272"	10" DIA.

ALL SPACING TO CENTER OF PILING



STANDARD PILING SPACING

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

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, ASCE 7-16, AND ASCE 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 160 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 FRAMED FRAMING AND CONNECTIONS BASED ON THE INFORMATION PROVIDED. IT DOES NOT COVER THE DESIGN OF THE CRADLE BEAMS, CABLES, OR PILING. THE DESIGN OF THE CRADLE BEAMS, CABLES, AND PILING IS BASED ON STRUCTURAL CALCULATIONS TITLED "4 POST BOAT 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.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J.L. SANDERS, P.E. 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.

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Phone: (229) 671-1578

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

Date:

IMM BOAT LIFTS, INC. IS NOT RESPONSIBLE FOR THE DOCK 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.

LIFT CAPACITY lbs.	CABLE BEAM SIZE CUSTOM CHANNEL 6061-16, 6005A-15	CRADLE SIZE L-BEAM 6061-16, 6005A-15	GROUND CABLE WINDER SIZE inches	DRIVE SHAFT SIZE inches	GEAR RATIO	NO. OF MOTORS & H.P.	CABLES	CABLE SPREAD INCHES	LIFT SPEED in/min	GUIDE POST HEIGHT	BOAT BUNKS WOOD OPTION	BOAT BUNKS ALUM. OPTION
4,500	5 x .230 H 2 x .160 W	6 x .190 H 4 x .290 W 120 L	2,375 DIA. 17" Length LFITS 14 FT.	1.9 Ø TUBE 9 ga	375:1	(2) 3/4H-P-115V/22A 220V/11A	5/16 SSAC 7x19 304, 1P 20'	101	36	7	2 x 8 x 144	144
7,000	6 x .230 H 2 x .160 W	6 x .190 H 4 x .290 W 144 L	2,375 DIA. 17" Length LFITS 14 FT.	1.9 Ø TUBE 9 ga	375:1	(2) 3/4H-P-115V/22A 220V/11A	5/16 SSAC 7x19 304, 1P 20'	113	36	7	2 x 8 x 144	144
10,000	7 x .230 H 2 x .160 W	8 x .230 H 5 x .350 W 150 L	2,375 DIA. 20" Length LFITS 12 FT.	1.9 Ø TUBE 9 ga	375:1	(2) 3/4H-P-115V/22A 220V/11A	5/16 SSAC 7x19 304, 2P 38'	110	18	7	2 x 8 x 144	144
13,000	8 x .230 H 2 x .160 W	8 x .230 H 5 x .350 W 150 L	2,375 DIA. 20" Length LFITS 12 FT.	1.9 Ø TUBE 9 ga	375:1	(2) 1H-P 220V/13A	5/16 SSAC 7x19 304, 2P 38'	110	18	7	2 x 8 x 144	144
16,000	11 x .230 H 2 x .160 W	10 x .250 H 6 x .410 W 168 L	2,375 DIA. 20" Length LFITS 12 FT.	1.9 Ø TUBE 8 ga	375:1	(2) 1H-P 220V/13A	5/16 SSAC 7x19 304, 2P 38'	110	18	10	3 x 10 x 168	192
16,000 XL	11 x .230 H 2 x .160 W	10 x .250 H 6 x .410 W 168 L	2,375 DIA. 20" Length LFITS 12 FT.	1.9 Ø TUBE 8 ga	375:1	(2) 1H-P 220V/13A	5/16 SSAC 7x19 304, 2P 38'	134	18	10	3 x 10 x 192	192
20,000	12 x .266 H 2 x .172 W	12 x .290 H 7 x .470 W 192 L	2,375 DIA. 25" Length LFITS 12 FT.	1.9 Ø TUBE 8 ga	375:1	(2) 1H-P 220V/13A	5/16 SSAC 7x19 304, 3P 60'	123	12	10	3 x 10 x 192	192
27,000	14 x .313 H 2 x .313 W	12 x .290 H 7 x .470 W 192 L	3.5 DIA. 21" Length LFITS 12 FT.	2.875 Ø TUBE 8 ga	450:1	(2) 1-1/2 H-P 220V/18A	5/16 SSAC 7x19 304, 4P 74'	147	11	10	3 x 10 x 192	192



PLATINUM WIRING SCHEMATIC

**MINIMUM RECOMMENDED
WIRE SIZE TABLE (AWG)**

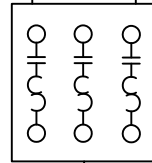
COPPER WIRE ONLY

MAXIMUM DISTANCE FROM SERVICE TO CONTROLLER

LIFT CAPACITY	75 FEET	150 FEET	300 FEET	400 FEET
4500# TO 13000# AT 120 VOLTS	#10	#8	#6	#6
4500# TO 13000# AT 240 VOLTS	#12	#10	#8	#6
16000# TO 27000# AT 240 VOLTS	#10	#8	#6	#4
32000# TO 54000# AT 240 VOLTS	#6	#4	#2	#0

MAIN
PANEL
(BY OTHERS)

120 / 240 GFCI BREAKER

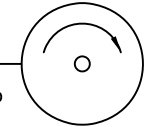


REVERSING
CONTACTOR

14/5 SJTW CORD 3/4 hp
12/5 SJTW CORD 1 hp

120 / 240 V

MOTOR 1



120 / 240 V

MOTOR 2

14/5 SJTW CORD 3/4 hp
12/5 SJTW CORD 1 hp

ELECTRIC MOTOR
(NOT SHOWN)

