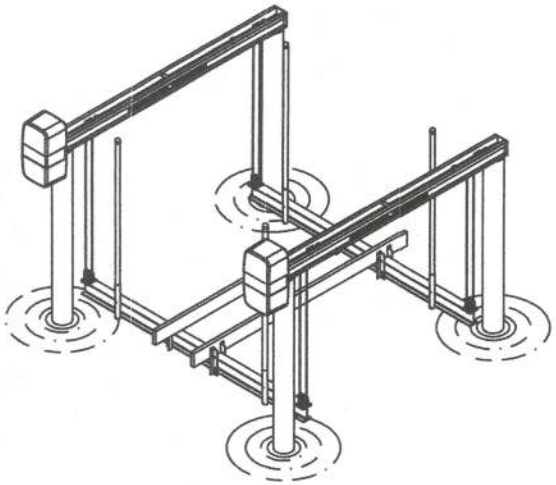
IMM Quality Boat Lifts

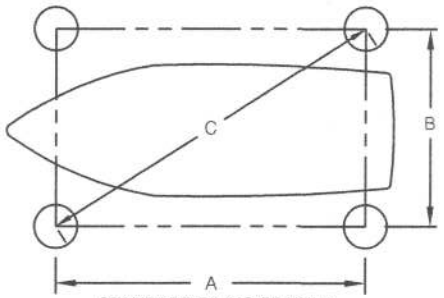
VATOR BOAT LIFT SPECIFICATIONS

4 POST BOAT LIFTS WITH 2 CRADLE BEAMS AND 4 CABLES



ALL SPACING TO CENTER OF PILING

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"	255"	10" DIA.
27,000 lbs.	192"	192"	272"	10" DIA.



STANDARD PILING SPACING

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 2014, CHAPTERS 16 & 20, ADM 2010, ASCE/SEI 7-10, AND "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" TO WITHSTAND THE WIND LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY "I". ARNOLD/SANDERS CONSULTING ENGINEERS HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC PLANS WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES AND DATA PROVIDED BY THE MANUFACTURER.

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J.L SANDERS
Reg. Florida No.66361

4-25-16
Date:

SIGNATURE NOT VALID WITHOUT RAISED SEAL

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-T6, 6005A-T5	CRADLE SIZE I-BEAM 6061-T6,6005A-T5	GROOVED CABLE WINDER SIZE inches	DRIVE SHAFT SIZE inches	DRIVE SHAFT SPROCKET	GEAR DRIVE SPROCKET	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 LIFTS 14 FT.	1.9 Ø TUBE 9 ga	#50A60	#50B11	60:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 1P 20'	101	41	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 LIFTS 14 FT.	1.9 Ø TUBE 9 ga	#50A60	#50B9	60:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 1P 20'	113	33	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 LIFTS 12 FT.	1.9 Ø TUBE 9 ga	#50A60	#50B11	60:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 2P 38'	110	20	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 LIFTS 12 FT.	1.9 Ø TUBE 9 ga	#50A60	#50B9	60:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 2P 38'	110	16	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 LIFTS 12 FT.	1.9 Ø TUBE 8 ga	#60A60 #60A50 HS	#60B10	60:1	(2)1H.P 230V/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 LIFTS 12 FT.	1.9 Ø TUBE 8 ga	#60A60 #60A50 HS	#60B10	60:1	(2)1H.P 230V/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 LIFTS 12 FT.	1.9 Ø TUBE 8 ga	#60A60 #60A50 HS	#60B10	60:1	(2)1H.P 230V/13A	5/16 SSAC 7x19 304, 3P 60'	123	13	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 LIFTS 12 FT.	2.875 Ø TUBE 8 ga	#60A60 #60A50 HS	#60B10	60:1	(2)1-1/2 H.P 230V/18A	5/16 SSAC 7x19 304, 4P 74'	147	13	10	3 x 10 x 192	192

HI-SPEED OPTION

GEAR DRIVE RATIO	NO. OF MOTORS & H.P.	MOTOR BRAKE TORQUE	INCHES OF LIFT PER MINUTE
30:1	(2)1-1/2 H.P 230V/22A	6 FT-LBS	82
30:1	(2)1-1/2 H.P 230V/22A	6 FT-LBS	66
30:1	(2)1-1/2 H.P 230V/22A	6 FT-LBS	40
30:1	(2)1-1/2 H.P 230V/22A	6 FT-LBS	32
30:1	(2)2 H.P 230V/25A	6 FT-LBS	44
30:1	(2)2 H.P 230V/25A	6 FT-LBS	44
30:1	(2)2 H.P 230V/25A	6 FT-LBS	30
30:1	(2)2 H.P 230V/25A	6 FT-LBS	28

IMM QUALITY
— BOAT LIFTS —

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