IMM QUALITY BOAT LIFTS - ELEVATOR SPECIFICATIONS

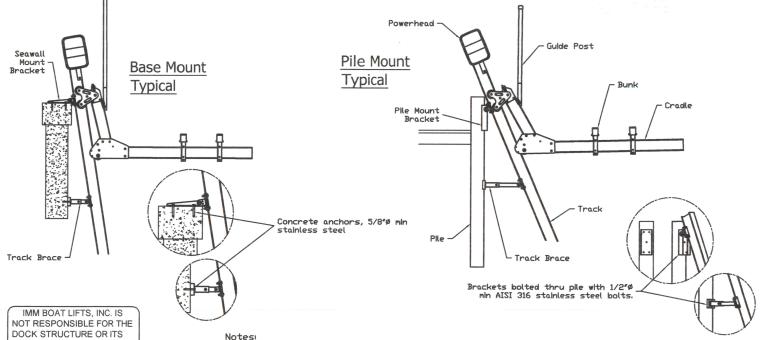
4,500# - 20,000# Vator

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, 61h EDITION, 2017, CHAPTERS 16 AND 20, ALUMINUM DESIGN MANUAL (ADM 2015), AND ASCE/SEI 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" TO WITHSTAND THE WIND LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE TO, RISK CATEGORY I. J.L. SANDERS, P.E. HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC DESIGN FEATURES WERE ENGINEERED IN ACCOPTOD THE MEXISTENCE 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 BASEDON STRUCTURAL CALCULATIONS, TITLED STRUCTURAL CALCULATIONS, OR THESE OF STRUCTURAL CALCULATIONS FOR ELEVATOR, WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE SOAT LIFTS DEPICTED BY THESE DESIGNS, AND PELSTED COLLCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND SHALL MEET THE DESIGN REQUIREMENTS AND INSTALLATION. IMITATIONS LISTED IN THE STRUCTURAL CALCULATIONS - IN PARTICULAR THE TRACK BEAMS SHALL BE ADEQUATELY BRACED AT NO MORE THAN 5 FT. O.C.

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SIGNATURE NOT VALID WITHOUT RAISED SEAL



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.

1. Structure designed for loads associated with an ultimate wind speed of 180 MPH, exposure 'D', risk category 1, calculated for Florida Building Code 2017, ASCE/SEI 7-10 and ADM-2015.

2. Boats shall not be stored on lifts during high wind events.

3. All primary structural members to be 6061-T6 aluminum.

Tracks are to be driven to firm bearing material.

Wood piles shall comply with ASTM D25 and be southern pine, 2.5 cca marine grade pressure treated.

6. Lateral support for piles and attachment to piles shall be engineered by others for site specific conditions.

LIFT	CRADLE I-BEAM	TRACK I-BEAM	TRACK ANGLE OPTIONS	CABLE STD TRAVEL	CABLE EXT TRAVEL	TRACK SPREAD	GUIDE POST HEIGHT	BUNK BOARD LENGTH	DRIVE SHAFT	WINDER DIA	ODDOOMET	Standard Speed			High Speed				
CAPACITY											Vator/Select	DRIVE RATIO	MOTOR HP/VOLTAGE	SPEED in/min	DRIVE RATIO	MOTOR HP/VOLTAGE		TRAVEL	TRAVEL
4,500#	6 H x .21 4 W x .35	6 H x .21 4 W x .35 x 25'	0, 10, 23	5/16 SSAC 7x19 304 2-PART 34' 3/8 SSAC 6x36 304 2-PART 34'	5/16 SSAC 7x19 304 2-PART 49'	108" 80		12' Aluminum	2.875* O.D. 8 Gauge	3" SCH 80 Pipe	#50 Chain 60/11 t	327:1	(2) 3/4 HP 115V/230V 22/11 A	30	164:1 Vator	(2) 1-1/2 HP 230V 22 A	60	12'	20 ¹
8,000#	8 H x .23 5 W x .35	8 H x .23 5 W x .35 25'	0, 10, 23		3/8 SSAC 6x36 304 2-PART 42'		80"												
10,000#	8 H x .25 5 W x .41	8 H x .25 5 W x .41 25'	0, 10, 23							·	#50 Chain	400.1	24	200:1		48		15'	
13,500#	10 H x.41 6 W x .25	10 H x.41 6 W x .25 25'	0, 23	7x19 304 7x19 4-PART 58' 4-PAR 3/8 SSAC 3/8 SS 6x36 304 6x36	5/16 SSAC 7x19 304 4-PART 98'					4" SCH 80 Pipe	60/9 t	400:1	(2) 1 HP 230V 13A	16	Vator	(2) 2 HP 230V 25A	32	11'	20 ⁴
16,000#	10 H x.50 6 W x .29	10 H x.50 6 W x .29 25'	0, 23								#60 Chain 60/10 t			17	150:1				
20,000#	12 H x.62 7 W x .31	12 H x.62 7 W x .31 25'	0, 23		3/8 SSAC 6x36 304 4-PART 82'	132"	120"				50/10 t high speed	360:1	(2) 1-1/2 HP 230V 18A		Vator	(2) 2 HP 230V 38A	41		16'

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