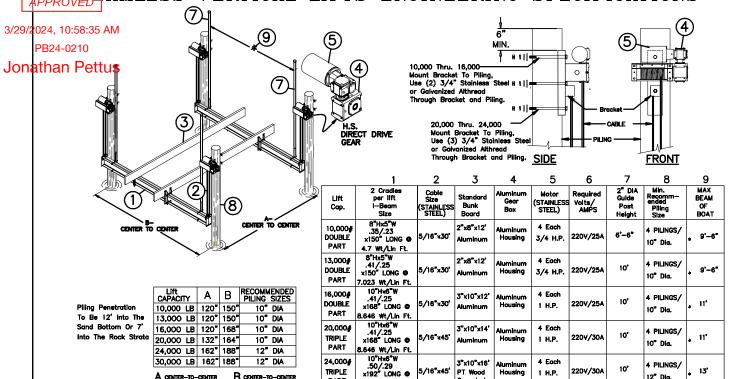


License No. SCC131150786 5734 Swift Rd. Sarasota, FL 34231 (941) 875-8610

REVIEWED FOR ODE COMPLIANCE HURRICANE BOAT LIFTS PPROVER AMLESS VERTICAL LIFTS ENGINEERING SPECIFICATIONS



14.292 Wt/Lin Ft CUSTOM WIDTH'S AVAILABLE

0.286 Wt/Lin Ft.

.62/.31 x192" LONG @

12"Hx7"W

5/16"x45'

5/16"x45"

Corpeted

3"x10"x16

PT Wood Carpeted

Aluminum

Housing

THE WORK SPECIFIED HEREIN HAS BEEN DESIGNED & ALL WORK SHALL BE IN ACCORDANCE WITH STRUCTURAL PROVISIONS OF THE 7th EDITION 2020 FLORIDA BUILDING CODE.

THIS LIFTING STRUCTURE HAS BEEN DESIGNED TO WITHSTAND WIND LOADS ASSOCIATED WITH WIND SPEEDS OF Vox = 180 MPH, VARUE = 139 MPH (3 SEC. GUST) EXPOSURE 'D' WITHOUT A BOAT ON THE LIFT PER ASCE 7-10 USING ABOVE GROUND SIGN/WALL METHOD, THE LIFTING STRUCTURE INCLUDING BOAT HAS BEEN DESIGNED TO WITHSTAND WIND SPEEDS OF VUIT=90 MPH IN EXPOSURE 'C' OR 80 MPH IN EXPOSURE 'D'.

TRIPLE

PART

30.000#

TRIPLE

OWNER RESPONSIBLE TO REMOVE BOAT FROM LIFT DURING WINDSTORM EVENT IN EXCESS Vosd AS CALATED BELOW, PER FBC 3105.5.3 STRUCTURES DESIGNED TO BE READILY REMOVED OR REPOSITIONED DURNING PERIODS OF HIGH WIND VELOCITY SHALL BE POSTED WITH A LEGIBLE AND READILY VISIBLE DECAL OR PAINTED INSTRUCTIONS TO BE THE OWNER OR TENANT TO REMOVE OR REPOSITION THE STRUCTURE OR PART THEREOF DURNING SUCH PERIODS OF TIME AS ARE DESIGNATED BY THE U.S. WATHER BUREAU AS BEING A HURRICANE WARNING OR ALERT. THE LIFT OWNER SHALL BE NOTHED OF THESE CONDITIONS BY THE PERMIT HOLDER. NO WARRANTY, EXPRESSED OR IMPLIED, IN CONTAINED HEREIN. Vosd MAY BE CALCULATED BY THE FOLLOWING FORMULA: Vosd = v 0.6 * Vuit. DESIGN OF BOAT WIND LOADING HAS BEEN PERFORMED WITH THE FOLLOWING RATIOS AS CONFIRMED BY OTHERS: B/s=3, s/h = 0.75, FOR A Cf of 1.6 MAXIMUM WHERE H IS THE HEIGHT TO TOP OF BOAT, B IS HORIZONTAL DIMENSION, AND S IS VERTICAL DIMENSION.

CERTIFICATION OF BOAT LIFT TO EXISTING STRUCTURE AND ALL ELECTRICAL OR MECHANICAL CERTIFICATIONS ARE BY OTHERS; ENGINEER SEAL CERTIFIES ASSEMBLY OF LIFT ONLY.

ONLI.
THIS DETAIL IS PREPARED AS A GENERAL NON-SITE SPECIFIC MASTER PLAN SHEET DETAIL. TYPICAL FIELD CONDITIONS ARE ASSUMED IN THE DESIGN. WOOD PILES SHALL BE SEASONED WOOD WITH G=0.55 OR BETTER, SHOULD ANY SPECIFIC LOCATION DIFFER FROM THAT SPECIFIED HEREIN, OR STANDARD FIELD CONDITIONS, ADDITIONAL SPECIFIC ENGINEERING MAY BE REQUIRED AS DETERMINED BY THE BUILDING INSPECTOR DADD PERMITTING CONTRACTOR. CARE SHALL BE TAKEN BY CONTRACTOR IN ALL APPLICATIONS OF THIS DETAIL AS THIS IS NOT A SITE SPECIFIC DRAWING, IT IS THE RESPONSIBILITY OF OTHERS TO ENSURE THE INTEGRITY OF INSTALLATION TO THE HOST STRUCTURE.

MATTERIAL: 6061 T6 ALUMINUM
ALL WELDS ARE MIN. 1/4" FULL FILLET WELD USING 5556 FILLER ALLOY, ALL WELDING MUST CONFORM TO AISC STEEL CONSTRUCTION MANUAL 13TH ED AS INSPECTED AND VERHIED BY OTHERS.1/4" FALL CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.

ALL ANCHORS TO BE HILTI BRAND OR MFR EQUIVALENT. ALL BOLTS SHALL BE HOT DIPPED GALVANIZED, OR STAINLESS STEEL & MEET THE REQUIREMENTS OF ASTM A304 WITH HARDENED WASHERS AND HEX NUTS. WASHERS SHALL BE USED BETWEEN WOOD & BOLT HEAD & BETWEEN WOOD & NUT. WHERE GENERIC FASTENERS ARE LABELED IN DETAILS, CAPACITIES SHALL BE EQUAL TO OR GREATER THAN HILTI KWIK BOLT II OR RED HEAD THRU BOLTS. EMBEDMENT DEPTHS SPECIFIED HEREIN ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF STUCCO OR OTHER FINISHES.

ALUMINUM MEMBERS IN CONTACT WITH CONCRETE AND WOOD SHALL BE PROTECTED BY "KOPPERS BITUMINOUS PAINT" OR POLYETHYLENE TAPE UHMW (ULTRA HIGH MOLECULAR WEIGHT) 11.7 mils (0.30 mm) MIN. TOTAL THICKNESS IN ACCORDANCE WITH CURRENT FLORIDA BUILDING CODE. ALL WELDS PER FLORIDA BUILDING CODE.

SPECIALTY ENGINEERING SERVICES & SOLUTIONS INC. HAS NOT VISITED THIS JOBSITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR SUPPLIED DATA AND MEASUREMENTS. SPECIALTY ENGINEERING SERVICES & SOLUTIONS INC. SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. WORK SHALL BE VERIFIED PRIOR TO CONSTRUCTION.

SPECIALTY ENGINEER SERVICES & SOLUTIONS. SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.

ENGINEERING SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. gl. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FORM DEVIATIONS OF THIS PLAN, EXCEPT AS EXPRESSLY PROVIDED IN HEREIN, NO CERTIFICATION OR AFFIRMATIONS ARE INTENDED.

THIS SPECIFICATION SHEET GOOD ONLY AT THIS NAME AND ADDRESS **VOID WITHOUT HURRICANE SEAL OVER NAME**

A CENTER-TO-CENTER

B CENTER-TO-CENTER

PILING SPACING

NAME:		
ADDRESS:		
CITY:	STATE:	ZIP:

Oscar M. Bermudez, PE. DATE: Rea. Florida No. 55141

10'

10'

12" Dia.

4 PILINGS

12" Dia.

13

13'

220V/30A

1 H.P.

4 Each

1 1/2 H.P. 220V/30A

B&B Engineers, 2237 Woods Edge Circle Orlando, FL 32817 HURRICANE BOAT LIFTS 3301 S.E. Slater Street Stuart, Florida 34997 (772)-781-2556

Fax (772)-781-4854 8/8/19 SPECIFICATIONS SUBJECT TO CHANGE AT ANY TIME

6x16 Floating Dock Section

Typical Corner

Connection

OC-E

P.O. Box 3450 Supply Apollo Beach, FL 33572 www.dockbuilders.com - 800.677.4710

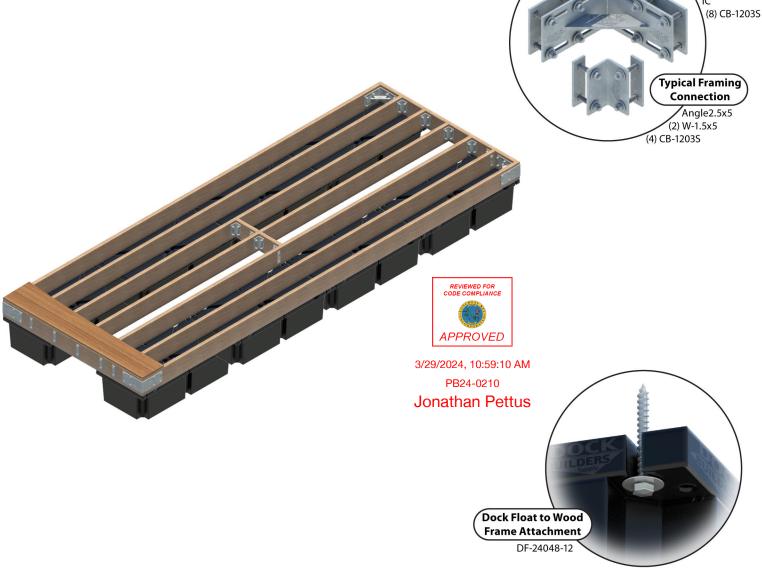
Design Assumptions:

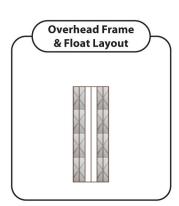
Decking - 5/4" x 6" P.T., ThruFlow, or Composite**

Framing - 2" x 8" P.T. Lumber

Maximum Stringer Spacing (inches): 12"0.C.

Estimated Dock Weight* (lbs): 1200





Note: Dock Builders Supply assumes no responsibility or liability for the design, structural integrity, accuracy or completeness of this sketch/drawing. Sketch is provided as a guide-line only. Dimensions are approximate. Internal stringer blocking over the perimeter of dock floats is not shown, but should be incorporated throughout the frame to provide additional dock float mount points. Dock floats should be on-hand during construction to use as templates to accurately align internal stringers over the perimeter of floats. Lumber is not included with dock kits and must be acquired locally.

^{*}Estimated dock weight includes the weight of standard P.T. framing, P.T. decking, hardware, and floats.

^{**}For composite decking, always consult the manufacturer's documentation regarding recommended joist spacing.