



May 14, 2018

Jennifer Jones  
Legacy Lifting, LLC  
6556 State Highway 198  
Mabank, TX 75156

Re: Florida Wind Certification

Jennifer:

This letter is in response to your request of a wind load evaluation for the 1,000lb capacity, Legacy Cargo Lift (refer to Figures 1 & 2 for specifications). An analysis was performed per the requirements of the 2017 Florida Building Code (FBC) for the following parameters:

*Wind Load Criteria:*

- Design Wind Speed – 140mph
- Exposure Category – B
- Importance Factor 1 (non-occupied lift)

*Material Properties:*

- Aluminum frame with 6061-T6 grade aluminum
- Mast rails constructed with WF5x3x.25 aluminum members

*Geometric Layout:*

- Mast rails are continuous for 3 spans with a 13'-0" span length
- Mast rails are braced to each other and back to supporting structure at each 13'-0" intervals.
- Mast rails are anchored to 3'-0" square x 2'-0" deep concrete footings constructed of 3,000psi (28 day compressive strength) concrete.

The cargo lift meets the requirements of the FBC for the above noted parameters. Please contact us for further evaluation should conditions deviate from those listed above.

LEGACY LIFT DIMENSIONS	
A	HAND RAIL HEIGHT 45"
B	OUTSIDE SIDE-TO-SIDE 54.25"
C	BACK OF BEAMS TO CAGE FRONT (OUTSIDE) 61.5"
D	BACK OF CAGE TO FRONT OF CAGE (OUTSIDE) 54.25"
E	BACK TO FRONT (INSIDE) 48.25"
F	BEAM WIDTH (OUTSIDE) 32" (CENTER TO CENTER) 29"
G	BACK OF POWER HEAD TO CAGE FRONT (OUTSIDE) 63.5"
H	FLOOR THICKNESS 4"

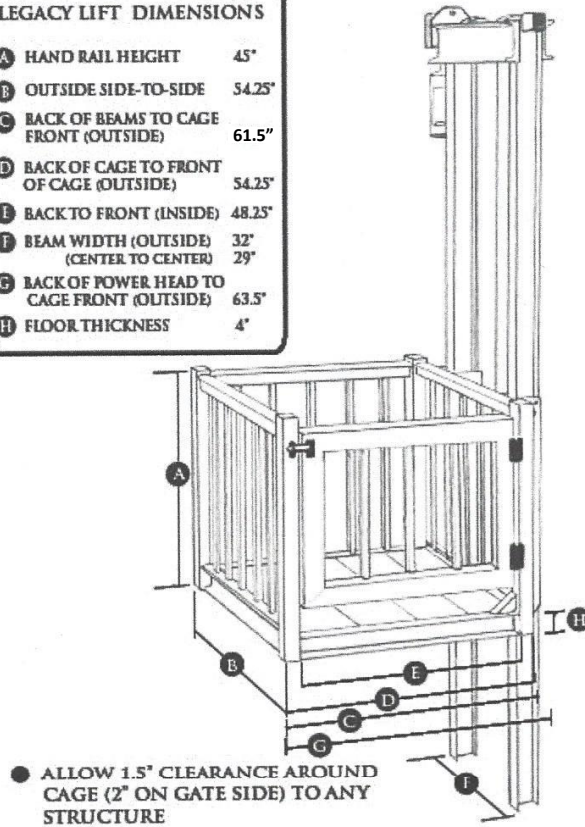
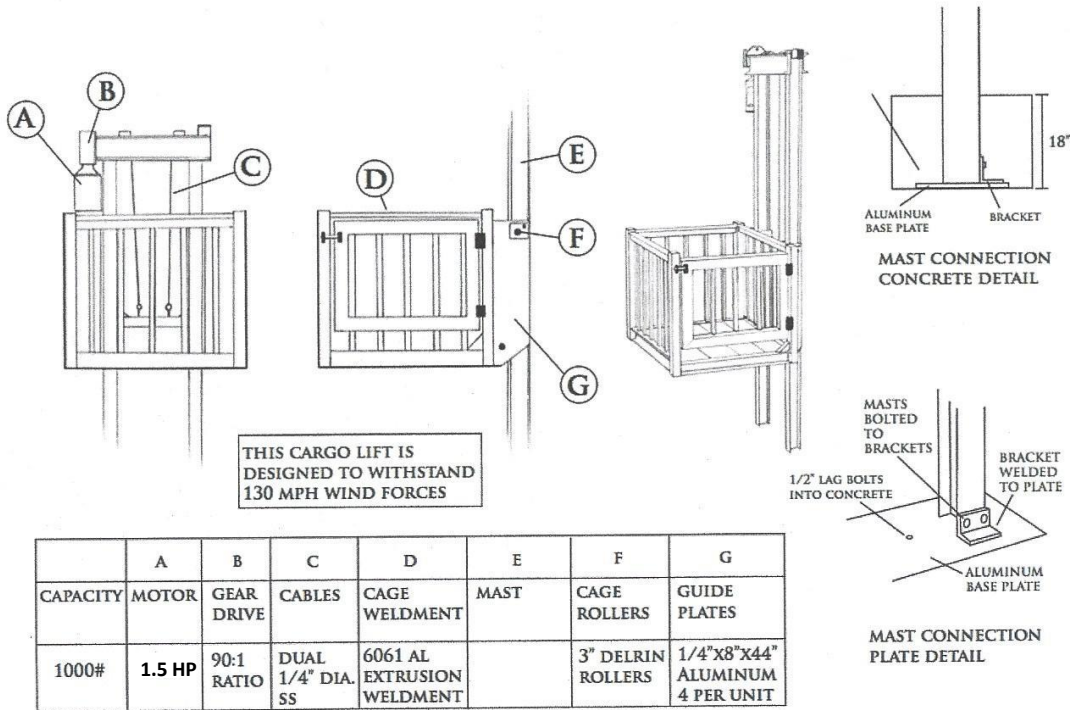


Figure 1: 1,000lb Cargo Lift Outline

**LEGACY LIFTS<sub>LLC</sub> DUAL MAST 1000 LB. CARGO LIFT**



\* ALL BOLTS ARE 1/2" SS WITH WASHERS AND NUTS \* FOR CARGO USE ONLY. NOT FOR HUMAN TRANSPORT

**Figure 2: Cargo Lift Specifications**

It has been a pleasure serving you. Please contact us if you have any questions or comments.

Sincerely,

Jon Vandergrift, PE  
Structural Engineer



Jon Vandergrift, PE  
FL COA: 32401