



GANGWAY SPECIFICATIONS

1. SCOPE OF WORK

- 1.1 Provide prefabricated Aluminum Gangway(s) according to the following specifications: _____ length x _____ outside width. Prefabricated gangways shall be manufactured by TIDE TAMER INDUSTRIES, INC.® or approved equal. The following specifications shall be regarded as minimum standards for the design and construction.

2. Quality Assurance

- 2.1 Manufacturer: Tide Tamer Industries, Inc., 2316 Hwy 123 South, Snow Hill, N.C. 28580. Call toll free: **1-800-325-1116** or call **252-747- 5180**. Our fax number is **252-747-4377**. Visit our web site at www.tidetamerwaterfrontproducts.com or e-mail: sales@tidetamerboatlifts.com.
- 2.2 Manufacturer should have a minimum of \$2,000,000.00 of products completed liability insurance.
- 2.3 Design of the aluminum members shall conform to the current edition of The Aluminum Association Specifications and Guide for Aluminum Structures.
- 2.4 Aluminum welding shall be in accordance with the ANSI/AWS D1.2-97 gas metal arc welding process and shall be performed by experienced operators.
- 2.5 All exposed surfaces and their welded joints shall be smooth and free of sharp or jagged edges.

3. Materials

- 3.1 Aluminum extrusions for gangways structures shall be aluminum alloy 6061-T6, and 6063-T6 and shall be extruded in accordance with the requirements of applicable sections of Federal Specifications QQ-A-200.
- 3.2 Stainless Steel Fasteners shall be grade 304.
- 3.3 Rollers used at the end of the gangway shall be MDS Nylon.

4. Engineering

- 4.1 Uniform Live Load selection
 - a Gangways 4 feet wide and less shall be designed for a uniform live load of 50 pounds per square foot.
 - b. Gangways over 4 feet wide shall be designed for a uniform live load of 85 pounds per square foot.
- 4.2 Maximum deflection of structure shall be calculated using $L/180$ where "L" is the length of the gangway in inches.
- 4.3 Decking material shall be designed for a concentrated vertical load of 300 pounds distributed over a one square foot area.

Handrails shall be designed horizontal load of 20 pounds per linear foot.



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6. 5. DESIGN

- 5.1 Hinged end of gangway shall be designed by the manufacture to adapt to existing mounting surface. (i.e.: Concrete bulkhead, wood dock, concrete abutment, etc.)

5.2 Top Rail shall extend a minimum of 6" past the walking surface of gangway.

- a. Top rail shall extend past upper (hinge) end of gangway
- b. Top rail shall extend past lower (roller) end of gangway
- c. Top rail shall extend past both ends of gangway

5.3 Top Rail shall extend a minimum of 12" past the walking surface of gangway.

- a. Top rail shall extend past upper (hinge) end of gangway
- b. Top rail shall extend past lower (roller) end of gangway
- c. Top rail shall extend past both ends of gangway

5.4 Top Rail Selection

- a. Handrail Shaped profile with .125 inch min. radius edges.
- b. Round schedule 40 pipe. (Size of pipe is dependent upon length and width of gangway.)

5.5 Continuous Safety Guard Rails – Please select your preference:

- a. Continuous fabric or vinyl with brass grommets 6 inches on center, laced onto 1.25 inch round tube framework with 0.25 inch cord.
- b. Continuous vertical 1.00 inch O.D. round tube pickets with a maximum clear opening of _____ inches.
- c. Continuous 3.00 inch x .25 inch aluminum flatbar (4" turned vertical) .

5.6 Deck Material Selection

- a. Decking material shall be 1.10 inch x 12 inches, self-mating, extruded aluminum with a minimum coefficient of friction of 0.93.
- b. Wood Decking: Various wood products are available upon request (CCA treatment not available).
- c. Wood polymer composite.

6. ACCESSORIES SELECTION

- 6.1 Aluminum transition plate on roller end of gangway 0.25 inch thick x _____ inches wide x 24 inches long with slip resistant surface.
- 6.2 Continuous handrail shaped grab rails 34 inches from finished deck surface.
- 6.3 Continuous kick plate shall be 0.25 inch x 3 inch aluminum flat bar along the edge of the walking surface on the inside of the railing.
- 6.4 Exit Ramp min. length of 30" in length, including hinge mechanism, with integrated wear strip at the end.