

## Hydro Extrusion USA, LLC (REDD Team) PREFABRICATED MODULAR ALUMINUM STAIR SYSTEM SPECIFICATIONS (PLACE AN "X" IN THE BOX NEXT TO ALL APPLICABLE ITEMS)

3, 4, 5, 6, 7, 8, 9 Riser Series 1007 Stairway

SCOPE OF WORK: PROVIDE PREFABRICATED MODULAR ALUMINUM STAIR SYSTEMS

PART 1 -	- SUBMITTALS	2.4.5.6.0.0 Bione Series 1006 Series	
1.1	Product literature with bid.	3, 4, 5, 6, 8, 9 Riser Series 1006 Stairway	
1.2	Warranty information with bid.		
1.3	Shop drawings (if requested) upon		
	receipt of purchase order.		
1.4	Engineering: Provide sealed professional		
	engineered drawings upon request.		
PART 2 -	- QUALITY ASSURANCE		
2.1	Manufacturer: Hydro Extrusion USA, LLC (REDD		
	Team), 125 Superior Drive Delhi, LA 71232.	//////// /////////////////////////////	
	Call toll free: 1-800-779-5509. Fax 1-866-840-456	66. ///////////////////////////////////	
	Find our web site at http://www.reddteam.com	r	
	e-mail us at del reddteam.us@hydro.com.		
	Any alternate manufacturer must be approved		
	prior to bid opening.		
2.2	All components shall be universal so that a stair		
	system can be relocated and assembled into		
	different configurations.		
2.3	Design of the aluminum members shall conform to		
	the current edition of the Aluminum Association		
	Specifications and Guidelines for Aluminum		
	Structures.		
2.4	Aluminum welding shall be in accordance with		
	the ANSI/AWS D1.2-97 GMAW process and		
	shall be performed by experienced operators.		
2.5	Warranty: Hydro Extrusion USA, LLC (REDD Team), warrants its products to be free from defects in		
2.6			
		one year beginning at date of delivery of product. This	
		normal use in installation or service, accidental or	
	intentional damage or any occurrences beyon	nd the manufacturer's control.	
	- PRODUCTS		
3.1	STAIRWAYS (Always check local ordinances and	building codes)	
3.1.1 <u>Engi</u>			
		or a uniform live load of 100 pounds per square foot and a	
0.4.014.4	concentrated vertical load of 300 pounds ove	r an area of 4 square inches.	
3.1.2 <u>Mate</u>			
		structed using 6000 series aluminum alloy with	
0405	6061-T6 for primary structural components.		
3.1.3 <u>Desi</u>		4) O'' width Owaters width a same to fabricate days as several All	
		1'-2" width. Custom widths can be fabricated as requested. All	
	treads have ADA compliant nosing.	to mortale a through ald brakely of	
Ш	b. Series 1006 stairways shall be prefabricated		
	☐ 18" ☐ 24" ☐ 30" ☐ 36" ☐	48" 54"	
	c. Series 1007 stairways shall be prefabi		
	iviiniinum waiking surface coefficient of friction	shall be 0.93 as determined by an independent testing facility.	
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3.2	LANDINGS
3.2.1	<u>Engineering</u>
	a. Landings shall be designed for a uniform live load of 100 pounds per square foot and a
	concentrated vertical load of 300 pounds distributed uniformly over an area of 1 square foot.
3.2.2	<u>Materials</u>
	a. Landings shall be constructed using 6000 series aluminum alloy with 6061-T6 for primary structura
	components.
3.2.3	<u>Design</u>
	a. Landings shall be prefabricated in typical 5'-0" X 5'-0" sections.
	b. Landings shall be X sections as indicated on drawings supplied by
	customer. (Customer shall be responsible for compliance with his or her local ordinances
	and building codes.)
	c. Landings will be designed for variable heights.
	d. The walking surface of the landing shall be continuous, without gaps, and shall be 1 1/2 inch X 6 inch and/or 1 1/2 inch x 8 inch self-mating aluminum deck with extruded slip
	resistant surface. Minimum walking surface coefficient of friction shall be 0.93 as determined by
	an independent testing facility.
	an independent testing facility.
3.3	LEGS
<u>3.</u> 3.1	Engineering
	a. The legs shall be designed to support the stair and landing sections. (See Uniform Live Load
	Specification 3.1.1.a & 3.2.1.a)
3.3.2	<u>Materials</u>
	a. Legs shall be constructed using 6061-T6 aluminum alloy.
0.00	b. All bolt hardware shall be stainless steel grade 304.
3.3.3	Design  The large shall talegoons to allow for verious height adjustments
	a. The legs shall telescope to allow for various height adjustments.
	<ul><li>b. All legs shall be thru bolted using stainless steel bolts grade 304.</li><li>c. All legs shall have 1/4" X 6" X 10" pads.</li></ul>
	c. All legs shall have 1/4 X 0 X 10 paus.
3.4	LANDING RAILS AND STAIR RAILS
3.4.1	<u>Engineering</u>
	a. Handrails shall be designed to resist a concentrated load of 200 pounds applied at any point
	and in any direction at the top of the rail.
	b. Handrails shall be designed to resist a simultaneous load of 50 pounds per linear foot
	applied horizontally and 100 pounds per linear foot applied vertically downward at the top of
	the rail.
	c. Guardrail systems shall be designed to resist a 200 pound concentrated horizontal load applied
	evenly over a one foot square area at any point in the system. (Note: Loads given in section "a", "b", and "c" shall not be applied simultaneously in any combination.)
3.4.2	Materials
J.T.Z	a. All landing rails and stair rails shall be aluminum construction alloy 6061-T6 & 6063-T5.
3.4.3	Design
	a. Stair rail gripping surface shall be smooth and continuous.
	b. Stair hand rail shall be 34" high from the nose of the tread to top of the rail (measured
	perpendicularly from the tread nose).
	c. Stair top rail shall be 1 1/4" Sch. 40 aluminum pipe with a barrier system of:
	4 inch spaced vertical pickets.
	Two-line pipe (34" high handrail). This option will be quoted on a per-project basis.
	d. Landing rails shall form a 42" high protective barrier such that a 4" sphere cannot pass through
	any opening in the landing rail.
3.5	FINISHING
3.5.1	Landing rails and stair rails shall be:
	a. Mill finish