

Erectastep Performance Specifications

2.01 MANUFACTURERS

- A. All punched platforms, six axis tube lasered ladders, six axis tube lasered towers, handrails, six axis tube lasered stairs and component parts manufactured by the following company:
- B. Erectastep or approved equal. No alternatives are approved unless written authorization from Owner is obtained.

2.02 MATERIALS/COMPONENTS

- A. Platform shall be made of 6063 aluminum and consist of:
 - a. pre-engineered and prefabricated 36" x 36" in size and must be made in the USA stamp
 - b. The platform shall be constructed of 6063 aluminum with a stamped positive-traction walk surface.
 - c. Units will have common bolt hole patterns on a four platforms sides
- B. Ladder/ Tower Units
 - a. Ladder/Tower 3 thru 6 step designed to be connected together totaling up to 15 steps at 9 inch increments and made of 6061 aluminum.
 - b. Ladder and tower that are match manufactured
 - c. 18" wide D shaped rung
 - d. Prefabricated to fit any side of a prefabricated aluminum platform
 - e. 6061 Aluminum Construction
- C. Tower Units
 - a. Tower Units designed to be connected together totaling up to 15 steps made of 6061 aluminum.

- b. Prefabricated design to allow for three bolt-up scenarios
 - i. Single platform to a single tower
 - ii. Two platforms with one tower support between the seam
 - iii. Tower support to go on multiple sides of any platform system
 - iv. Aluminum Construction

D. Handrail

- a. Handrail to have consist of universal nut plate insert to bolt to any side of the platform
- b. Prefabricated to fit a 36" side of a platform
- c. 1.9" outer diameter pipe aluminum construction powder coated
- d. Handrails shall be made out of 1 1/2 square schedule 10 aluminum pipe 6061/ 6063 aluminum, mid-rail is 1" schedule 40/ 6063, kick plate 1/4 square 5052 aluminum

E. Stair

- a. Stair Base 3 thru 6-Step stairs designed to be connected together totaling up to 15 steps
- b. 26" wide stamped positive traction surface 3/16 5052 aluminum H32 5 gauge punched positive tread aluminum
- c. Prefabricated to fit any side of a modular platform
- d. Handrails on both sides to be powder coated pipe construction Safety Yellow and can be connected to 3-6 step stair units

1.3 REFERENCES

A. All design standards shall be in accordance with:

1. OSHA 1910 Standards.
2. Designed per the Aluminum Design Manual 2015 edition

B. Material Standards:

1. Handrails shall be made out of 1 1/2 schedule 10 aluminum pipe 6063 aluminum, mid-rail 1" schedule 40 aluminum 6063, kick plate 1/4 square 5052 aluminum Powder Coated Finish
2. Platforms 3/16 5052 aluminum
3. Stringer 6061 aluminum
4. Towers 6061 1/4 extruded flat tube aluminum
5. Stair treads 1/8 5052 punched positive tread
6. Bolts are SAE J429 zinc coated grade 5, 1/2 bolts 3/4 head 1/2 Nuts
7. Upper and Lower Castings are casted A380 aluminum

C. Material Finish

1. Platforms- aluminum mill finish
2. Stringers – aluminum mill finish
3. Stair Treads- aluminum mill finish
4. Upper and Lower Castings- aluminum mill finished
5. Handrail- Powder Coated-
 - a. Coverage: Minimum coverage 2-4 mils thick.

Measurement: The normal standard unit used in powder thickness measurement in America is the mil; 1.0 mil equals a

thousandth of an inch (1/1000 inch). If the manufacturer's specified thickness is 2.0 to 5.0 mils, the final cured thickness of the powder should be between 0.002 and 0.005 of an inch. The metric unit of measurement is called the micron (μm); 25.4 microns equals 1.0 mil.

Applicators must apply the powder evenly and according to the product specification sheet. This provides the maximum benefit from that particular powder specification. Most thickness testing specifications apply to the cured thickness of powder.

Visual Requirements: The finished powder coated item will be free of over spray, orange peel, contaminants and not show any signs of translucency. The finished product will have a gloss finish and UV protection as called out by the powder manufacturer.

<u>2 - COAT PAINT SYSTEM (SSPC-SP6) Used in Corrosive Areas.</u>				
Manufacturer's Code	Generic Type	Minimum Dry Film Thickness (DFT)	Number of Coats	Color
Option One:				
Sherwin Williams B67	Epoxy Primer	5 Mils	1 or 2	See Section 7
Sherwin Williams B65	Hi-Solids Polyurethane	4 Mils	1	
Option Two:				
Amerlock 400	Epoxy Primer	5 Mils	1	See Section 7
Amercoat 450 HS	Aliphatic Polyurethane	3 Mils	1	
Option Three:				
Carboline Carbozinc 11	Inorganic Zinc Silicate	3 Mils	1	See Section 7
Carboline Carboguard 890	Cycloaliphatic Amine Epoxy	6 Mils	2	

<u>3 - COAT PAINT SYSTEM (SSPC-SP10) Used in Highly Corrosive Areas</u>				
Manufacturer's Code	Generic Type	Minimum Dry Film Thickness (DFT)/Coat	Number of Coats	Color
Sherwin Williams Phenicon HS	Epoxy Phenolic	7 Mils	2	See Section 7
Handrail to receive an additional 3 mils of Amercoat 450; Color: Safety Yellow				