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SECTION 05 51 36.16 - ALUMINUM RAMPS

GENERAL

SUBMITTALS

Action Submittals:

Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

Samples: [Selection samples.] [Verification samples.]

Informational Submittals:

Certificate of Compliance: Certification that installed products meet specified design requirements.

SYSTEM DESCRIPTION

Design Requirements:

Design ramp assembly to support 100 PSF uniform live load and 300 pound concentrated load applied on any 1 square foot.

Design guard rails and handrails to resist following without damage or permanent set:

* + - * 1. 50 pounds per linear foot applied in any direction at top.
        2. Concentrated 200 pound load applied in any direction at any point along top.

System design to be performed by qualified professional engineer licensed in State in which Project is located.

QUALITY ASSURANCE

Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

Fabricate guard rails and handrails in accordance with ASTM E935.

Walking Surfaces: Minimum 0.50 coefficient of friction in normal direction of travel.

WARRANTIES

Provide manufacturer’s 2 year warranty against defects in materials and workmanship.

PRODUCTS

MANUFACTURERS

Acceptable Manufacturers:

* + - 1. ErectaStep, [www.erectastep.com](http://www.erectastep.com).
      2. Upside Innovations LLC, [www.upsideinnovations.com](http://www.upsideinnovations.com).

Substitutions: [Refer to Division 01.] [Not permitted.]

MATERIALS

Aluminum:

Extrusions: ASTM B221.

Sheet: ASTM B209.

ACCESSORIES

Fasteners: Series 18-8 stainless steel.

FABRICATION

Fabricate ramps in accordance with approved Shop Drawings.

Ramp Width: 48 inch clear between handrails.

Ramp Slope: Maximum 1:12.

Platforms:

* + - 1. Size: [5’-4” x 5’-4”.] [\_\_ x \_\_.] [As indicated.]
      2. Minimum 60 inch diameter area free from obstructions.

Walking Surfaces:

* + - 1. Continuous, without gaps.
      2. Incorporate 3-1/4 inch high curb adjacent to walking surface on both sides.

Railings:

Provide handrails at 36 inches above walking surface, located on both sides of ramp assembly.

Ramps over 30 inch vertical rise: Provide guardrail at 42 inches above walking surface in addition to handrail.

Fabricate handrails to be continuous along stair runs and at inside corners, not interrupted by posts or other obstructions.

Provide 2-1/4 inch clearance between handrail and guard rail.

1.66 inch outside diameter.

Extend handrails 12 inches past top of ramp parallel to walking surface and return to closest rail post or wall, and 11 inches past bottom of ramps, returned to closest rail post.

* + - 1. Fabricate guard rails to prevent passage of 4 inch diameter sphere at any location.

Ramp and Platform Legs:

* + - 1. Provide 28 inches of adjustability.
      2. Include welded-on foot pad.

Welding: AWS D1.2/D1.2M.

FINISHES

Aluminum: Mill finish.

\*\*\*\* OR \*\*\*\*

Aluminum: Powder coat, [\_\_\_\_] color [to be selected from manufacturer’s full color range].

EXECUTION

INSTALLATION

Install ramps in accordance with manufacturer’s instructions and approved Shop Drawings.

END OF SECTION