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SECTION 05 51 11 - ALUMINUM STAIRS

 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 stair 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 stairs in accordance with approved Shop Drawings.

 Stair Width: 48 inch clear between handrails.

 Platform Size: [[64 x 64] [64 x 96] [72 x 72] [\_\_ x \_\_] inches.] [As indicated.]

 Treads:

 12 inch depth with 1 inch nosing; effective 11 inch run per step.

 ¼ inch radius and underside angle of 60 degrees from horizontal.

 Uniform tread height to suit overall height of stair assembly.

 Risers: Closed aluminum sheet.

 Railings:

 Provide handrails at 36 inches above tread nosings, located on both sides of stair assembly.

 Stairs over 30 inch vertical rise: Provide guard rail at 42 inches above tread nosings 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 stair nosing parallel to walking surface and return to closest rail post or wall, and 11 inches past bottom step tread, returned to closest rail post.

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

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

END OF SECTION