



SECTION 05522

METAL GUARDRAIL AND ROOFTOP FALL PROTECTION

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Rooftop Fall Protection Parapet Wall Clamp

1.2 RELATED SECTIONS

- A. Section 05500 – Metal Fabrications: Associated metal supports.
- B. Section 05510 – Metal Stairs and Ladders.
- C. Section 07400 - Membrane Roofing: Coordination of roof edge protection installation.
- D. Section 07411 – Membrane Roof Panels: Coordination of roof edge protection installations.

1.3 REFERENCES

- A. American Welding Society: AWS D1.1 - Structural Welding Code - Steel.
- B. American Welding Society: AWS D1.3 - Structural Welding Code – Sheet Steel.
- C. Occupational Safety & Health Administration (OSHA): 29 CFR 1910.23 - Guarding Floor and Wall Openings and Holes.
- D. Occupational Safety & Health Administration (OSHA): 29 CFR 1910.27 - Fixed Ladders.
- E. Occupational Safety & Health Administration (OSHA): 29 CFR 1926.500 - Scope, Application, and Definitions Applicable to this Subpart.
- F. Occupational Safety & Health Administration (OSHA): 29 CFR 1926.501 - Duty to Have Fall Protection.
- G. Occupational Safety & Health Administration (OSHA): 29 CFR 1926.502 - Fall Protection Systems Criteria and Practices.
- H. Occupational Safety & Health Administration (OSHA): 29 CFR 1926.503 - Training Requirements.
- I. California Occupational Safety & Health Administration (CAL OSHA)

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.

- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

- C. Shop Drawings: Drawings showing plans, elevations, sections and details of components. Show member sizes and part identification, fasteners, anchors, fittings and evidence of compliance with structural performance requirements.

- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns

- E. Manufacturer's Certificates:
 - 1. Certify that products are made in USA. Provide steel mill and foundry certificates for verification prior to shipment.
 - 2. Manufacturer must be American Welding Society Welding Certified for Welding Standards AWS D1.1 & AWS D1.3. Third party qualification documentation required prior to shipment.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the job site in good condition and adequately protected against damage as handrails are a finished product.

- B. Inspect rail sections for damage before signing the receipt from the trucking company. Truck driver must note damaged goods on the bill of lading if damaged product is found

- C. Store products in manufacturer's unopened packaging until ready for installation.

- D. Products to be palletized and labeled by roof level or designated drop zone.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Where handrails and railings are indicated to fit to other construction, check actual dimensions of other construction by accurate field measurements before fabrication.

1.7 WARRANTY

- A. Warranty: Provide manufacturer's limited two year warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Supplier: *Edge Fall Protection, LLC*, which is located in Minneapolis, MN 55419. Contact: E-mail: info@edgefallprotection.com Website: www.edgefallprotection.com Toll Free/Fax: 844-314-1374.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 ROOFTOP FALL PROTECTION

- A. Provide Non-Penetrating Parapet Wall Clamping Rail by *EDGE Fall Protection LLC*. Contact: info@edgefallprotection.com; TF/Fax: 844-314-1374. System is a non-penetrating freestanding barrier system on roof, consisting of zinc parapet clamp and steel guardrail.
1. System is placed over parapet and tighten to 34 pounds of torque to secure the parapet wall clamp in place.
 2. Height: 42 inches (1067 mm).
 - a. Field verify
 3. Railings: 1-5/8 inch (41 mm) O.D. hot rolled pickled electric weld tubing, free of sharp edges and snag points.
 - a. Finishes:
 - 1) Powder Coated Safety Yellow
 - 2) Hot-Dipped Galvanized
 - 3) Architect approved powder coated finish
 4. System meets federal OSHA guidelines that requires a 200 lb load capacity.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.

- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION