SECTION 05 52 13

PIPE AND TUBE RAILING SYSTEMS

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\*\* NOTE TO SPECIFIER \*\* Leading Edge Safety, LLC; pipe and tube railing systems.
This section is based on the products of Leading Edge Safety, LLC, which is located at:
1345 Taney St.
North Kansas City, MO 64116
Toll Free Tel: 888-990-2990
Fax: 816-472-0822
Email: [request info (sales@leadingedgesafety.net)](https://admin.arcat.com/users.pl?action=UserEmail&company=Leading+Edge+Safety,+LLC&coid=48226&rep=&fax=816-472-0822&message=RE:%20Spec%20Question%20(05520prs):%20%20&mf=)
Web: <https://leadingedgesafety.net>
 [ [Click Here](https://www.arcat.com/arcatcos/cos48/arc48226.html) ] for additional information.
Leading Edge Safety design allows roof safety railing installation under the coping cap, drip edge, gravel stop and even inside most gutter systems. Coping cap sheet metal can be removed during re-roofing without removal of the safety rail system. Unique bracket design allows retrofit installation under an existing coping cap sheet metal, eliminating the cost of new coping cap. Leading Edge Safety uprights are designed to keep workers away from the leading edge while still allowing full access to the roof surface.
Leading Edge Safety designs safety railing products that insure OSHA compliance and peace of mind for employees, managers, contractors and building owners that employees and workers are safe while inspecting or working on the roof. Leading Edge Safety safety guardrails eliminate the need for tie-off points and expensive safety equipment.

1. GENERAL
	1. SECTION INCLUDES
		1. Domed skylight fall protection screens.
	2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 05 50 00 - Metal Fabrications.
		2. Section 07 50 00 - Membrane Roofing.
		3. Section 07 70 00 - Roof and Wall Specialties and Accessories.
		4. Section 07 72 26 - Ridge Vents.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Society for Testing of Materials (ASTM):
			1. ASTM A36 - Standard Specification for Carbon Structural Steel.
			2. ASTM A53 - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
			3. ASTM A269 - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
		2. Occupational Safety and Health Administration (OSHA):
			1. 29 CFR 1910.21 - Scope and Definitions
			2. 29 CFR 1910.28 - Duty to Have Fall Protection
			3. 29 CFR 1910.29 - Walking Working Surfaces
			4. 29 CFR-1910.30 - Training Requirements
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets for products and assemblies specified.
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Cleaning methods.
		3. Shop Drawings:
			1. Indicate profiles, sizes, connections, size and type of fasteners, accessories.
			2. Show location of rails and guardrails including plans, details of components and anchor details.
			3. Field Verified Measurements: Verify dimensions indicated on Drawings.
		4. Verification Samples: For each finish specified, two samples representing actual colors specified.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
		2. Store materials in manufacturer's original sealed, labeled packaging until ready for installation and in accordance with manufacturer's instructions. Protect finishes on rails and uprights from damage.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions, temperature, humidity and ventilation, within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
		2. Field Measurements: Where horizontal rails and uprights are indicated to fit to other construction, check actual dimensions or other construction by accurate field measurements prior to ordering and installation; show recorded measurements on final Shop Drawings.
	4. SEQUENCING AND SCHEDULING
		1. Coordinate fabrication and delivery schedule of handrails with construction progress and sequence to avoid delay of railing installation.
			1. Where field measurements cannot be made without delaying the system fabrication and delivery, obtain guaranteed dimensions in writing by the Contractor and proceed with fabrication of products to not delay fabrication, delivery and installation.

\*\* NOTE TO SPECIFIER \*\* Delete warranty options not required.

* 1. WARRANTY
		1. Warranty: Provide manufacturer's standard one year warranty against defects in materials and manufacturing.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Leading Edge Safety, LLC, which is located at: 1345 Taney St.; North Kansas City, MO 64116; Toll Free Tel: 888-990-2990; Fax: 816-472-0822; Email: [request info (sales@leadingedgesafety.net)](https://admin.arcat.com/users.pl?action=UserEmail&company=Leading+Edge+Safety,+LLC&coid=48226&rep=&fax=816-472-0822&message=RE:%20Spec%20Question%20(05520prs):%20%20&mf=); Web: <https://leadingedgesafety.net>
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	2. DOMED SKYLIGHT FALL PROTECTION SCREENS
		1. Product: Fall protection for skylight units. Galvanized screens and aluminum mounting rails ensure long-term performance, safety, and compliance.
		2. Components:
			1. Screen: 3 x 4 inch welded wire mesh; 0.195 inch.
			2. Extrusion: Outdoor PVC, extruded.
			3. Retaining Clips: Stainless Steel.
			4. Finish: Galvanized ASTM A123.
			5. Hardware: Galvanized 3/4 inch No. 12 hex washer head self-drilling screws.
			6. Labels: Applicable safety warnings and manufacturer's contact information.
			7. Sizes: 8 feet wide x unlimited lengths.
			8. Weight: 1.5 lbs per sq ft.
		3. Standards: Meets and exceeds OHSA standard CFR 29 1926.501, CFR 291910.29, Cal-OSHA 3212(e), ANSI/ASSE A1264.1-2007 section 3.4.
2. EXECUTION
	1. EXAMINATION AND PREPARATION
		1. Inspect and prepare substrates and nailers using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Verify that nailers and other structural components of the building are securely fastened and capable of withstanding loads applied by the guardrail system.
		2. Do not proceed with installation until substrates and nailers have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
		3. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
	2. INSTALLATION
		1. Install in accordance with manufacturer's instructions including the following.
		2. Domed Skylight Screens shall be installed on acrylic dome skylight units. Standard installation requires mounting to the skylight frame without penetrating the roof membrane.
	3. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION