SECTION 05 73 00

CABLE RAILING INFILL

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\*\* NOTE TO SPECIFIER \*\* Feeney Inc. (CableRail, DesignRail®); CableRail railing infill cable systems.
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This section is based on the products of Feeney Inc. (CableRail, DesignRail�), which is located at:
2603 Union St.
Oakland, CA 94607
Toll Free Tel: 800-888-2418
Tel: 510-893-9473
Fax: 510-893-9484
Email:request info (sales@feeneyinc.com)
Web:http://www.feeneyinc.com

[ [Click Here](https://arcat.com/company/feeney-inc-cablerail-designrail-38341) ] for additional information.
Since 1948, Feeney has been manufacturing and supplying specialty building products for design and construction professionals. Our years of experience supplying thousands of projects worldwide have given us the insight and expertise to develop a diverse and innovative line of the highest quality architectural products.
Our Feeney Architectural Products line continues to expand. Our CableRail standard and custom cable assemblies include a vast array of Quick-Connect fittings, making field installation even easier. Our DesignRail® aluminum railings now include LED lighting options and the bold Express Yourself Colors. DesignRail® Kit solutions, stainless steel rod assemblies and our Trellis Collection round out our current offerings.
This specification includes CableRail Standard and Custom cable assemblies. CableRail Standard Cable Kits are a beautifully unobtrusive, affordable, low-maintenance and easy-to-install railing infill option for residential and commercial settings. Made from 316 grade stainless steel cable with automatic-locking, swageless Quick-Connect® Inset end fittings that make installations a breeze. Kits are sold in standardized lengths that can be quickly trimmed to a finished dimension in the field.
Some projects may require special sizes and types of cable and fittings. For those unique designs, we offer a wide assortment of cables and hardware for fabricating Custom Cable Assemblies to meet your specific design and function needs. Manufactured from 316-grade stainless steel with a tumbled satin finish for weather-tough durability and lasting beauty. Order individual components and hand crimp your own assemblies or let us fabricate assemblies for you, complete and ready to install. Our experienced sales staff can assist you every step of the way.

1. GENERAL
	1. SECTION INCLUDES
		1. Stainless steel cable and fittings for railing infill.
	2. RELATED SECTIONS

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

* + 1. Section 03 30 00 - Cast-in-Place Concrete - Cast-In-Place Concrete: Requirements for placement of anchors or sleeves in concrete.
		2. Section 04 20 00 - Stone Assemblies - Unit Masonry.
		3. Section 05 52 00 - Pipe and Tube Railings - Metal Handrails and Railings: Metal posts and handrails.
		4. Section 06 20 00 - Finish Carpentry - Finish Carpentry: Wood posts, handrails and footrails.
		5. Section 06 43 00 - Wood Stairs - Wood Stairs and Railings
	1. REFERENCES
		1. ASTM A 492 - Specification for Stainless Steel Rope Wire.
	2. DESIGN / PERFORMANCE REQUIREMENTS

\*\* NOTE TO SPECIFIER \*\* Cable railing infill system can be used with wood, aluminum and steel frame systems specified in other sections of the specification. Coordinate frame and cable infill system with applicable code requirements. Consult manufacturer's frame requirements and recommendations for additional information.

* + 1. Cable railing infill system, including cable braces, cables, and cable hardware shall be designed to conform to applicable building codes and loading requirements.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. 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 and maintenance methods.

\*\* NOTE TO SPECIFIER \*\* Shop drawings may not be required for small or simple projects. Delete the following paragraph if shop drawings are not required.

* + 1. Shop Drawings: Indicate materials, sizes, fabrication, anchorage and installation details, and lengths for cable systems.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraphs if LEED is not applicable.

* + 1. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
			1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
			2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.
		2. Verification Samples: For each finish product specified, provide two samples, minimum size 12 inches (300 mm) long with cable and required fittings, representing actual product and finish.
		3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
		4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment of cable tension and periodic cleaning and maintenance of all railing and infill components.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Minimum five years experience in producing cable assemblies of the type specified.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of preparation techniques and application workmanship.
			1. Finish one complete infill section in area designated by Architect.
			2. Do not proceed with remaining work until workmanship is approved by Architect.
			3. Reconstruct mock-up as required to produce acceptable work.
			4. Accepted mock-ups shall be comparison standard for remaining Work.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Deliver materials to site and store in manufacturer's original containers and packaging, with labels clearly identifying product name and manufacturer.
		2. Store products in clean, dry area indoors until ready for installation. Store materials in accordance with manufacturer's instructions.
		3. Protect materials and finish from damage during handling and installation.
	2. SEQUENCING
		1. Ensure that shop drawings and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
		2. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	3. PROJECT CONDITIONS
		1. Verify actual openings by field measurements before fabrication.
		2. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
	4. PRE-INSTALLATION MEETING
		1. Convene a pre-installation meeting approximately two weeks before start of construction of railing frame component mounting surfaces. Require attendance of parties directly affecting work of this section, including Contractor, Architect, fabricator, and installer. Review the following:
			1. Specific method of installation of components into mounting surfaces.
			2. Installation, adjusting, cleaning, and protection of railing system.
			3. Coordination with other work.
	5. WARRANTY
		1. Stainless steel cables and connectors; 10 year limited warranty against defects in materials and workmanship.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Feeney Inc. (CableRail, DesignRail), which is located at: 2603 Union St.; Oakland, CA 94607; Toll Free Tel: 800-888-2418; Tel: 510-893-9473; Fax: 510-893-9484; Email: request info (sales@feeneyinc.com); Web: http://www.feeneyinc.com

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
		3. Provide all cable, materials, fittings and components from a single supplier.
	1. MATERIALS
		1. Cables: ASTM A 492, Type 316 stainless steel as specified below, polished finish, commercial, dry grade.
		2. Fittings:
			1. Swage Style Fittings: Type 316 stainless steel, vibratory/tumbled finish.
			2. Quick-Connect Style Fittings: Type 316 stainless steel body, mill finish.

\*\* NOTE TO SPECIFIER \*\* Select the type of cable assemblies required from the following three paragraphs and delete the those not required. If multiple types are required, verify that each type is clearly located on the Drawing.

* 1. COMPONENTS

\*\* NOTE TO SPECIFIER \*\* Select Standard Cable Kits for installations where termination posts have at least a 3 inch (76 mm) clearance from walls or other objects and can be fully penetrated for attachment of cable fittings.

* + 1. Standard Cable Kits:
			1. Cable Assembly: Each assembly includes,1x19 construction, type 316 stainless steel cable with a Threaded Terminal fitting pre-attached to one end, one stainless steel Quick-Connect Inset fitting, two stainless steel flat washers, and one stainless steel Snug-Grip washer nut.

\*\* NOTE TO SPECIFIER \*\* Select cable diameters required from the following paragraphs. Delete those not required. If more than one is required, verify sizes are clearly located on the Drawings.

* + - * 1. Cable Diameter: 1/8 inch (3.2 mm) diameter by selected length.
				2. Cable Diameter: 3/16 inch (4.8 mm) diameter by selected length.
				3. Cable Diameter: 1/4 inch (6.4 mm) diameter by selected length.

\*\* NOTE TO SPECIFIER \*\* Select cable lengths required from the following paragraphs and delete those not required. If more than one length is required, verify the sizes are clearly located on the Drawings.

* + - * 1. Assembly Length: 5 foot (1.5 M).
				2. Assembly Length: 10 foot (3 M).
				3. Assembly Length: 15 foot (4.5 M).
				4. Assembly Length: 20 foot (6 M).
				5. Assembly Length: 25 foot (7.5 M).
				6. Assembly Length: 30 foot (9 M).
				7. Assembly Length: 40 foot (12 M).
				8. Assembly Length: 50 foot(15 M).
				9. Assembly Length: 55 foot (17 M).
				10. Assembly Length: 60 foot (18 M).
				11. Assembly Length: 65 foot (20 M).
				12. Assembly Length: 70 foot (21 M).
				13. Assembly Length: Provide custom lengths as indicated.
			1. Finishing End Caps: Two 3/4 inch (70 mm) OD by 3/8 inch (9.5 mm) H decorative end caps with each assembly.

\*\* NOTE TO SPECIFIER \*\* Select the end caps required from the following paragraphs and delete those not required.

* + - * 1. Black polyethylene.
				2. White polyethylene.
				3. Gray polyethylene.
				4. Brown polyethylene.
				5. Bronze polyethylene.
				6. Silver polyethylene.
				7. Taupe polyethylene.
				8. Green polyethylene.
				9. Cream polyethylene.
				10. Dome Style stainless steel.
				11. Crown Style stainless steel.
				12. Chamfer Style stainless steel.

\*\* NOTE TO SPECIFIER \*\* Select the intermediate spacer pickets if required from the following paragraphs and delete the if not required.

* + - 1. Intermediate Spacer Pickets: Powder coated aluminum. Color as selected by the Architect.
			2. Accessories: Stainless steel protector sleeves, rubber grommets, beveled washers and additional accessories as recommended by manufacturer for installation conditions.

\*\* NOTE TO SPECIFIER \*\* Select CableRail Conceal Kits for installations with the same termination post conditions as noted above in Standard Cable Kits but where smaller, more compact, lower-profile cable fittings are desired.

* + 1. CableRail Conceal Kits:
			1. Cable Assembly: Each assembly includes, 1/8 inch (3.2 mm) diameter by selected length, 1x19 construction, type 316 stainless steel cable with a stainless steel Conceal Terminal factory attached to one end. Includes 1 stainless steel Conceal Receiver fitting, 1 stainless steel Conceal Quick-Connect fitting, and 2 decorative Conceal Caps with each assembly.

\*\* NOTE TO SPECIFIER \*\* Select cable lengths required from the following paragraphs. Delete those not required. If more than one length is required, verify the sizes are clearly located on the Drawings.

* + - * 1. Assembly Length: 5 foot (1.5 M).
				2. Assembly Length: 10 foot (3 M).
				3. Assembly Length: 15 foot (4.5 M).
				4. Assembly Length: 20 foot (6 M).
				5. Assembly Length: 25 foot (7.5 M).
				6. Assembly Length: 30 foot (9 M).
				7. Assembly Length: 35 foot (11 M).
				8. Assembly Length: 40 foot (12 M).
				9. Assembly Length: 45 foot (14 M).
				10. Assembly Length: 50 foot(15 M).
				11. Assembly Length: Provide custom lengths as indicated.

\*\* NOTE TO SPECIFIER \*\* Select the end caps required from the following paragraphs and delete those not required.

* + - 1. Decorative Conceal Caps: Black.
			2. Decorative Conceal Caps: Bronze.
			3. Decorative Conceal Caps: White.
			4. Decorative Conceal Caps: Silver.
			5. Decorative Conceal Caps: Stainless steel.
			6. Accessories: Stainless steel flat washers, stainless steel protector sleeves, bushings, beveled washers and additional accessories as recommended by Manufacturer for installation conditions.

\*\* NOTE TO SPECIFIER \*\* Select Custom Cable Assemblies and Fittings for custom installations requiring other types or sizes of cable and/or connecting hardware due to load requirements, ornamental design needs, or specific/unique termination conditions. Delete paragraphs that are not selected.

* + 1. Custom Cable Assemblies:
			1. Cable Assembly: Custom fabricated to lengths as needed with selected diameter cable and selected swage-style fittings pre-attached to both ends.
			2. Cable Assembly: Cut and fabricated in the field with selected diameter cable and selected field attached Quick-Connect fittings for both ends.

\*\* NOTE TO SPECIFIER \*\* Select cables required from the following paragraphs and delete those not required. If more than one is required, verify the sizes are clearly located on the Drawings.

* + - 1. Cable: 1x19 construction, 1/8 inch (3.2 mm) dia. type 316 stainless steel.
			2. Cable: 1x19 construction, 3/16 inch (4.8 mm) dia. type 316 stainless steel.
			3. Cable: 1x19 construction, 1/4 inch (6.4 mm) dia. type 316 stainless steel.
			4. Cable: 7 x 7 construction, 1/8 inch (3.2 mm) dia. type 316 stainless steel cable.
			5. Cable: 7 x 7 construction, 3/16 inch (4.8 mm) dia. type 316 stainless steel cable.
			6. Cable: 7 x 7 construction, 1/4 inch (6.4 mm) dia. type 316 stainless steel cable.

\*\* NOTE TO SPECIFIER \*\* Select cable coatings required from the following paragraphs and delete those not required.

* + - 1. Cable Coating: None.
			2. Cable Coating: Clear PVC.
			3. Cable Coating: Black PVC.
			4. Cable Coating: White PVC.

\*\* NOTE TO SPECIFIER \*\* Select the style of fittings required from the following paragraphs and delete those not required. Verify Drawings clearly identify the approved cable fittings using Feeney part numbers or list part numbers and corresponding descriptions per the manufacturer recommended and architect approved fittings.

* + - 1. Swage-Style Fittings; Factory Attached: Type 316 stainless steel terminals, turnbuckles, adjusters, and fixed ends as recommended by the Manufacturer and approved by the Architect for the installations conditions and identified by the Manufacturer's part numbers on the drawings.
			2. Quick-Connect Style Fittings; Field Attached: Type 316 stainless steel Quick-Connect terminals, tensioners, turnbuckles, adjusters, and fixed ends as recommended by the Manufacturer and approved by the Architect for the installations conditions and identified by the Manufacturer's part numbers on the drawings.

\*\* NOTE TO SPECIFIER \*\* Delete finishing end caps if not required.

* + - 1. Finishing End Caps: Two 3/4 inch (70 mm) OD by 3/8 inch (9.5 mm) H decorative end caps with each assembly.

\*\* NOTE TO SPECIFIER \*\* Select end caps required from the following paragraphs and delete those not required.

* + - * 1. Black polyethylene.
				2. White polyethylene.
				3. Gray polyethylene.
				4. Brown polyethylene.
				5. Bronze polyethylene.
				6. Silver polyethylene.
				7. Taupe polyethylene.
				8. Green polyethylene.
				9. Cream polyethylene.
				10. Dome Style stainless steel.
				11. Crown Style stainless steel.
				12. Chamfer Style stainless steel.

\*\* NOTE TO SPECIFIER \*\* Delete intermediate spacer pickets if not required.

* + - 1. Intermediate Spacer Pickets: Powder coated aluminum. Color as selected by the Architect.
			2. Accessories: Stainless steel protector sleeves, rubber grommets, beveled washers and additional accessories as recommended by manufacturer for installation conditions.
	1. FABRICATION
		1. Fabricate systems in accordance with approved shop drawings and the manufacturer's instructions.
		2. Pre-assemble items in shop to greatest extent practicable to minimize assembly at project site. Disassemble units only to extent necessary for shipping and handling limitations. Mark units for reassembly.
		3. Use grommets, bushings and washers as necessary for separation of dissimilar metals.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until work to which cables will be anchored or will penetrate has been properly prepared.
		2. Verify that post size, post spacing and cable spacing are in accordance with approved shop drawings.
		3. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. INSTALLATION

\*\* NOTE TO SPECIFIER \*\* Manufacturer's installation instructions cover procedures for typical installation conditions. Edit as required to cover special conditions. Contact Manufacturer for assistance and recommendations.

* + 1. Install cable system in accordance with manufacturer's instructions.
		2. Provide anchorage devices and fittings to secure cables to in-place construction; including threaded fittings for concrete inserts, toggle bolts and through-bolts.
		3. Separate dissimilar materials with bushings, gaskets, grommets, washers or coatings where required to prevent electrolytic corrosion.
		4. Use manufacturer's supplied cable and hardware.
		5. Terminate and tension cables in accordance with manufacturer's instructions.
		6. Ensure cables are clean, parallel to each other, and without kinks.
	1. ADJUSTING
		1. Adjust cable tension with connecting hardware in accordance with manufacturer's instructions.
	2. CLEANING
		1. Remove temporary coverings and protection of adjacent work areas. Clean installed products in accordance with manufacturer's instructions before owner's acceptance.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph when cables are used on exterior railings in coastal areas or other harsh environments.

* + 1. Clean cables thoroughly using synthetic scotch type pads and hot soapy water, or use stainless steel cleaners and protectants as recommended by Manufacturer, to remove residual lubricants; rinse thoroughly with clear water and wipe dry.
		2. Do not use abrasive cleaners or metal/steel wool type pads.
		3. Remove from project site and legally dispose of construction debris associated with this Work.
	1. PROTECTION
		1. Protect installed products until completion of project.
		2. Repair or replace damaged products before Substantial Completion.

END OF SECTION