SECTION 05 17 00

TENSION ROD ASSEMBLIES

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

*Copyright 2019 - 2019 ARCAT, Inc. - All rights reserved*

\*\* NOTE TO SPECIFIER \*\* Hayn Enterprises, LLC; tension rod assemblies.
This section is based on the products of Hayn Enterprises, LLC, which is located at:51 Inwood Rd.Rocky Hill, CT 06067Toll Free Tel: 800-346-4296Tel: 860-257-0680Fax: 860-257-0683Email: [request info (sales@hayn.com)](https://arcat.com/rfi?action=email&company=Hayn%252BEnterprises%252C%252BLLC&message=RE%253A%2520Spec%2520Question%2520(05170hay)%253A%2520&coid=32998&spec=05170hay&rep=&fax=860-257-0683)
Web: <https://hayn.com/lines> | <https://hayn.com>
 [ [Click Here](https://arcat.com/company/hayn-enterprises-llc-32998) ] for additional information.
Hayn Lines are manufactured by Hayn Enterprises, a 50-year-old family-run business, better known as Hayn Marine, a leading supplier of turnbuckles and related hardware for the marine field. This technology has been adapted over the last several years for use in the architectural field. From the high tech look of stainless steel, chrome, glass, etc. to the warm look of wood or brass, Hayn lines will accent any decor. With a 50+ year reputation for quality, delivery, pricing, and customer support, Hayn is now the #1 choice for architects and designers.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Tension Rod Assemblies of the following types:
			1. Tension forks.
			2. Tension fork lock nuts.
			3. Double headed clevis pins.
			4. Tension rods.
	1. RELATED SECTIONS

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

* + 1. Section 05 15 13 - Aluminum Wire Rope Assemblies.
		2. Section 05 73 16 - Wire Rope Decorative Metal Railings.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
		2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on 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: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	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.
	4. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Hayn Enterprises, LLC, which is located at:51 Inwood Rd.Rocky Hill, CT 06067Toll Free Tel: 800-346-4296Tel: 860-257-0680Fax: 860-257-0683Email: [request info (sales@hayn.com)](https://arcat.com/rfi?action=email&company=Hayn%252BEnterprises%252C%252BLLC&message=RE%253A%2520Spec%2520Question%2520(05170hay)%253A%2520&coid=32998&spec=05170hay&rep=&fax=860-257-0683);Web: <https://hayn.com/lines> | <https://hayn.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.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. TENSION FORKS
		1. Basis of Design: Tension Fork; as manufactured by Hayn Enterprises.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material: 316 Stainless steel.
			2. Material: \_\_\_\_\_\_.

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

* + - 1. Model No. AAF14L OR AAF14R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF14L: Left Hand.
				2. Thread Handing, AAF14R: Right Hand.
				3. Rod or Thread Diameter: 1/4 inch (6.4 mm) or 28.
				4. Pin Size: 1/4 inch (6.4 mm).
				5. Length: 1-13/16 inch (46 mm).
				6. Jaw Depth: 19/32 inch (15 mm).
				7. Fork Opening: 1/4 inch (6.4 mm).
			1. Model No. AAF516L OR AAF516R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF516L: Left Hand.
				2. Thread Handing, AAF516R: Right Hand.
				3. Rod or Thread Diameter: 5/16 inch (7.9 mm) or 24.
				4. Pin Size: 5/16 inch (7.9 mm).
				5. Length: 2-3/8 inch (60 mm).
				6. Jaw Depth: 5/8 inch (16 mm).
				7. Fork Opening: 5/16 inch (7.9 mm).
			1. Model No. AAF38L OR AAF38R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF38L: Left Hand.
				2. Thread Handing, AAF38R: Right Hand.
				3. Rod or Thread Diameter: 3/8 inch (9.5 mm) or 24.
				4. Pin Size: 3/8 inch (9.5 mm).
				5. Length: 3 inch (76 mm).
				6. Jaw Depth: 25/32 inch (20 mm).
				7. Fork Opening: 3/8 inch (9.5 mm).
			1. Model No. AAF12L OR AAF12R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF12L: Left Hand.
				2. Thread Handing, AAF12R: Right Hand.
				3. Rod or Thread Diameter: 1/2 inch (13 mm) or 20.
				4. Pin Size: 1/2 inch (13 mm).
				5. Length: 4 inch (102 mm).
				6. Jaw Depth: 1-1/8 inch (29 mm).
				7. Fork Opening: 1/2 inch (13 mm).
			1. Model No. AAF58L OR AAF58R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF58L: Left Hand.
				2. Thread Handing, AAF58R: Right Hand.
				3. Rod or Thread Diameter: 5/8 inch (16 mm) or 18.
				4. Pin Size: 5/8 inch (16 mm).
				5. Length: 4-3/4 inch (121 mm).
				6. Jaw Depth: 1-1/4 inch (32 mm).
				7. Fork Opening: 5/8 inch (16 mm).
			1. Model No. AAF34L OR AAF34R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF34L: Left Hand.
				2. Thread Handing, AAF34R: Right Hand.
				3. Rod or Thread Diameter: 3/4 inch (19 mm) or 16.
				4. Pin Size: 3/4 inch (19 mm).
				5. Length: 5-3/8 inch (137 mm).
				6. Jaw Depth: 1-1/2 inch (38 mm).
				7. Fork Opening: 3/4 inch (19 mm).
			1. Model No. AAF78L OR AAF78R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF78L: Left Hand.
				2. Thread Handing, AAF78R: Right Hand.
				3. Rod or Thread Diameter: 7/8 inch (22 mm) or 14.
				4. Pin Size: 7/8 inch (22 mm).
				5. Length: 6 inch (152 mm).
				6. Jaw Depth: 1-3/4 inch (44 mm).
				7. Fork Opening: 7/8 inch (22 mm).
			1. Model No. AAF1L OR AAF1R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF1L: Left Hand.
				2. Thread Handing, AAF1R: Right Hand.
				3. Rod or Thread Diameter: 1 inch (25 mm) or 12.
				4. Pin Size: 1 inch (25 mm).
				5. Length: 6-7/8 inch (175 mm).
				6. Jaw Depth: 2 inch (51 mm).
				7. Fork Opening: 1 inch (25 mm).

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. TENSION FORK LOCK NUTS
		1. Basis of Design: Tension Fork Lock Nut; as manufactured by Hayn Enterprises.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material: 316 Stainless steel.
			2. Material: \_\_\_\_\_\_.

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

* + - 1. Model No. ALN14L OR ALN14R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN14L: Left Hand.
				2. Thread Handing, ALN14R: Right Hand.
				3. Rod or Thread Diameter: 1/4 inch (6.4 mm) or 28.
				4. Outside Diameter: 3/8 inch (9.5 mm).
			1. Model No. ALN516L OR ALN516R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN516L: Left Hand.
				2. Thread Handing, ALN516R: Right Hand.
				3. Rod or Thread Diameter: 5/16 inch (7.9 mm) or 24.
				4. Outside Diameter: 1/2 inch (13 mm).
			1. Model No. ALN38L OR ALN38R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN38L: Left Hand.
				2. Thread Handing, ALN38R: Right Hand.
				3. Rod or Thread Diameter: 3/8 inch (9.5 mm) or 24.
				4. Outside Diameter: 9/16 inch (14 mm).
			1. Model No. ALN12L OR ALN12R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN12L: Left Hand.
				2. Thread Handing, ALN12R: Right Hand.
				3. Rod or Thread Diameter: 1/2 inch (13 mm) or 20.
				4. Outside Diameter: 7/8 inch (22mm).
			1. Model No. ALN58L OR ALN58R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN58L: Left Hand.
				2. Thread Handing, ALN58R: Right Hand.
				3. Rod or Thread Diameter: 5/8 inch (16 mm) or 18.
				4. Outside Diameter: 1-1/8 inch (29 mm).
			1. Model No. ALN34L OR ALN34R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN34L: Left Hand.
				2. Thread Handing, ALN34R: Right Hand.
				3. Rod or Thread Diameter: 3/4 inch (19 mm) or 16.
				4. Outside Diameter: 1-1/4 inch (32 mm).
			1. Model No. ALN78L OR ALN78R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, ALN78L: Left Hand.
				2. Thread Handing, ALN78R: Right Hand.
				3. Rod or Thread Diameter: 7/8 inch (22 mm) or 14.
				4. Outside Diameter: 1-9/16 inch (40 mm).
			1. Model No. ALN1L OR ALN1R:

\*\* NOTE TO SPECIFIER \*\* Delete thread handing option not required.

* + - * 1. Thread Handing, AAF1L: Left Hand.
				2. Thread Handing, AAF1R: Right Hand.
				3. Rod or Thread Diameter: 1 inch (25 mm) or 12.
				4. Outside Diameter: 1-5/8 inch (41 mm).
		1. Basis of Design: Tension Fork Lock Nut, Tapered; as manufactured by Hayn Enterprises.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material: 316 Stainless steel.
			2. Material: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. DOUBLE HEADED CLEAVIS PINS
		1. Basis of Design: Fork Clevis Pin - Double Headed; as manufactured by Hayn Enterprises.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material: 316 Stainless steel.
			2. Material: \_\_\_\_\_\_.

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

* + - 1. Model No. ACO14A:
				1. Pin Diameter: 1/4 inch (6.4 mm).
				2. Head Diameter: 3/8 inch (9.5 mm).
				3. Length: 5/8 inch (16 mm).
			2. Model No. ACP516A:
				1. Pin Diameter: 5/16 inch (7.9 mm).
				2. Head Diameter: 7/16 inch (11 mm).
				3. Length: 3/4 inch (19 mm).
			3. Model No. ACP38A:
				1. Pin Diameter: 3/8 inch (9.5 mm).
				2. Head Diameter: 1/2 inch (13 mm).
				3. Length: 7/8 inch (22 mm).
			4. Model No. ACP12A:
				1. Pin Diameter: 1/2 inch (13 mm).
				2. Head Diameter: 5/8 inch (16 mm).
				3. Length: 1-1/4 inch (32 mm).
			5. Model No. ACP58A:
				1. Pin Diameter: 5/8 inch (16 mm).
				2. Head Diameter: 3/4 inch (19 mm).
				3. Length: 1-1/2 inch (38 mm).
			6. Model No. ACP34A:
				1. Pin Diameter: 3/4 inch (19 mm).
				2. Head Diameter: 7/8 inch (22 mm).
				3. Length: 2 inch (51 mm).
			7. Model No. ACP78A:
				1. Pin Diameter: 7/8 inch (22 mm).
				2. Head Diameter: 1inch (25 mm).
				3. Length: 2-1/4 inch (57 mm).
			8. Model No. ACP1A:
				1. Pin Diameter: 1 inch (25 mm).
				2. Head Diameter: 1-1/4 inch (32 mm).
				3. Length: 2-1/2 inch (64 mm).

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. TENSION RODS
		1. Basis of Design: Hayn Tension Rod; as manufactured by Hayn Enterprises.

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

* + - 1. Model 1/4 inch:
				1. Rod Diameter: 1/4 inch (6.4 mm)
				2. Thread Diameter: 1/4 inch (6.4 mm) or 28.
				3. Jaw Gap: 1/4 inch (6.4 mm).
				4. Jaw Depth: 7/16 inch (11 mm).
				5. Pin Diameter: 1/4 inch (6.4 mm).
				6. Total Adjustment: 1.75 inches (44.4 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 2,496 pounds (1,132 kg) minimum.

Yield Load: 936 pounds (425 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 3,588 pounds (1,627 kg) minimum.

Yield Load: 3,120 pounds (1,415 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 5/16 inch:
				1. Rod Diameter: 5/16 inch (7.9 mm)
				2. Thread Diameter: 5/16 inch (7.9 mm) or 24.
				3. Jaw Gap: 5/16 inch (7.9 mm).
				4. Jaw Depth: 1/2 inch (13 mm).
				5. Pin Diameter: 5/16 inch (7.9 mm).
				6. Total Adjustment: 2.375 inches (60.3 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 4,038 pounds (1,831 kg) minimum.

Yield Load: 1,514 pounds (687 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 5,804 pounds (2,633 kg) minimum.

Yield Load: 5,047 pounds (2,289 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 3/8 inch:
				1. Rod Diameter: 3/8 inch (9.5 mm)
				2. Thread Diameter: 3/8 inch (9.5 mm) or 24.
				3. Jaw Gap: 3/8 inch (9.5 mm).
				4. Jaw Depth: 9/16 inch (14 mm).
				5. Pin Diameter: 3/8 inch (9.5 mm).
				6. Total Adjustment: 3.25 inches (82.6 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 6,270 pounds (2,844 kg) minimum.

Yield Load: 2,351 pounds (1,066 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 9,013 pounds (4,088 kg) minimum.

Yield Load: 7,838 pounds (1,038 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 1/2 inch:
				1. Rod Diameter: 1/2 inch (13 mm)
				2. Thread Diameter: 1/2 inch (13 mm) or 20.
				3. Jaw Gap: 1/2 inch (13 mm).
				4. Jaw Depth: 15/16 inch (24 mm).
				5. Pin Diameter: 1/2 inch (13 mm).
				6. Total Adjustment: 4 inches (102 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 11,585 pounds (5,255 kg) minimum.

Yield Load: 4,344 pounds (1,970 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 16,654 pounds (7,554 kg) minimum.

Yield Load: 14,482 pounds (6,569 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 5/8 inch:
				1. Rod Diameter: 5/8 inch (16 mm)
				2. Thread Diameter: 5/8 inch (16 mm) or 18.
				3. Jaw Gap: 5/8 inch (16 mm).
				4. Jaw Depth: 1 inch (25 mm).
				5. Pin Diameter: 5/8 inch (16 mm).
				6. Total Adjustment: 5 inches (127 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 18,779 pounds (8,518 kg) minimum.

Yield Load: 7,042 pounds (3,194 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 26,995 pounds (12,245 kg) minimum.

Yield Load: 23,474 pounds (10,648 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 3/4 inch:
				1. Rod Diameter: 3/4 inch (19 mm)
				2. Thread Diameter: 3/4 inch (19 mm) or 16.
				3. Jaw Gap: 3/4 inch (19 mm).
				4. Jaw Depth: 1-7/32 inch (31 mm).
				5. Pin Diameter: 3/4 inch (19 mm).
				6. Total Adjustment: 5.5 inches (140 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 27,561 pounds (12,501 kg) minimum.

Yield Load: 10,335 pounds (4,688 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 39,618 pounds (17,970 kg) minimum.

Yield Load: 34,451 pounds (15,627 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 7/8 inch:
				1. Rod Diameter: 7/8 inch (22 mm)
				2. Thread Diameter: 7/8 inch (22 mm) or 14.
				3. Jaw Gap: 7/8 inch (22 mm).
				4. Jaw Depth: 1-5/16 inch (33 mm).
				5. Pin Diameter: 7/8 inch (22 mm).
				6. Total Adjustment: 6.25 inches (159 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 37,758 pounds (17,127 kg) minimum.

Yield Load: 14,159 pounds (6,418 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 54,277 pounds (24,620 kg) minimum.

Yield Load: 47,197 pounds (21,408 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 1 inch:
				1. Rod Diameter: 1 inch (25 mm)
				2. Thread Diameter: 1 inch (25 mm) or 12.
				3. Jaw Gap: 1 inch (25 mm).
				4. Jaw Depth: 1-1/2 inch (38 mm).
				5. Pin Diameter: 1 inch (25 mm).
				6. Total Adjustment: 8.375 inches (218 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 49,111 pounds (22,276 kg) minimum.

Yield Load: 18,417 pounds (8,354 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 70,598 pounds (32,023 kg) minimum.

Yield Load: 61,389 pounds (27,846 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.
			1. Model 1-1/4 inch:
				1. Rod Diameter: 1-1/4 inch (32 mm)
				2. Thread Diameter: 1-1/4 inch (32 mm) or 12.
				3. Jaw Gap: 1-1/4 inch (32 mm).
				4. Jaw Depth: 2-1/2 inch (64 mm).
				5. Pin Diameter: 1-1/4 inch (32 mm).
				6. Total Adjustment: 7.75 inches (197 mm).

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

* + - * 1. Material: Stainless steel, alloy 316.

Ultimate Tensile Strength: 80,771 pounds (36,637 kg) minimum.

Yield Load: 30,289 pounds (13,739 kg) minimum.

* + - * 1. Material: Carbon steel, alloy A311.

Ultimate Tensile Strength: 116,108 pounds (52,666 kg) minimum.

Yield Load: 100,963 pounds (45,796 kg) minimum.

* + - * 1. Material: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Maximum pin to pin distance without a coupler is 12 feet (3658 mm). Maximum distance with a single coupler is 24 feet (7315 mm). Delete pin to pin distance options not required.

* + - 1. Pin to Pin Distance: 12 feet (3658 mm).
			2. Pin to Pin Distance: 24 feet (7315 mm).
			3. Pin to Pin Distance: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Tension Rod Couplers.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material: 316 Stainless steel.
			2. Material: \_\_\_\_\_\_.

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

1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION