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**SECTION 06 43 13 – WOOD STAIRS WITH PRECAST CONCRETE TREADS**

1. **GENERAL**
	1. SUBMITTALS
		1. Action Submittals:
			1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
		2. Informational Submittals:
			1. Certificate of Compliance: Certification that installed products meet specified design requirements.
	2. SYSTEM DESCRIPTION
		1. Design Requirements:

Standard Redi Treads are engineered to withstand 100 PSF uniform and 300 PSF concentrated loads as required by most building codes. Edit the following if different loading is required.

* + - 1. Design treads and attachments to support a uniform live load of [100] [\_\_] PSF and a concentrated load of [300] [\_\_] pounds, with maximum deflection of L/240.
	1. QUALITY ASSURANCE
		1. Precast Concrete Tread Manufacturer Qualifications: Minimum 5 years’ experience in work of this Section.
		2. Installer Qualifications: Minimum [2] [\_\_] years’ experience in work of this Section.
		3. Design of treads and attachments to be performed by Professional Structural Engineer licensed in State in which Project is located.
1. **PRODUCTS**
	1. MANUFACTURER – PRECAST CONCRETE TREADS
		1. Contract Documents are based on products by National Redi Tread. [www.nationalreditread.com](http://www.nationalreditread.com)
		2. Substitutions: Refer to Division 01.
	2. MATERIALS - STRINGER FRAMING
		1. Lumber:
			1. Grading rules: [NELMA.] [NLGA.] [RIS.] [SPIB.] [WCLIB.] [WRCLA.] [WWPA.] [\_\_\_\_.]
			2. Species: [\_\_\_\_.]
			3. Grade: [\_\_\_\_.]
			4. Surfacing: Surfaced four sides S4S.
			5. Maximum moisture content: [19] [\_\_] percent.
	3. MATERIALS - PRECAST CONCRETE TREADS

* + 1. Description: Reinforced, engineered, precast concrete, reinforced with honeycomb core, wet cast using 10,500 PSI concrete consisting of aggregate, silica, and Type II Portland cement.

Redi Treads are available in widths from 36 to 120 inches.

* + 1. Size: 11-5/8 inches deep x 1-1/2 inches thick x [[\_\_] wide.] [width as indicated on Drawings.]
		2. Nosing: [Concrete edge.] [2-inch-wide aluminum edge with 1-inch photoluminescent strip.] [1-7/8-inch-wide aluminum edge with 1-inch photoluminescent strip.] [Embedded 3-inch-wide aluminum edge with 1-inch photoluminescent strip and 1.5 inch black traction strip.]
		3. Finish: Sand and epoxy coating, clear.
		4. Edge Profile: 4 degree angle.
	1. ACCESSORIES

Support pans consist of an integral tread and riser formed from steel or galvanized steel sheet that support the precast concrete treads and create closed risers. 14 gage support pans are suitable for stairs up to 48 inches wide; 12 or 10 gage treads will be required for stairs over 48 inches in width.

* + 1. Support Pan: Minimum 14 gage [steel] [G90 galvanized steel] formed to support precast concrete treads and provide closed risers.
		2. Adhesive: Type recommended by tread manufacturer.
	1. FABRICATION
		1. Fabricate treads and attachments in accordance with approved Shop Drawings.
1. **EXECUTION**
	1. INSTALLATION
		1. Fabricate stringers from minimum [\_\_ x \_\_] inch lumber, single length for stair length.
		2. Install treads in accordance with approved Shop Drawings.
		3. Secure support pans to stringers with [screws.] [bolt clips.]
		4. Secure precast concrete treads to support pans with adhesive.

 END OF SECTION