

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Resilient Stair Treads

1.02 REFERENCED DOCUMENTS

A. ASTM International:

1. F 2169 Standard Specification for Resilient Stair Treads
2. E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
3. E 648 Standard Test Method for Critical Radiant Flux of Flooring Systems Using a Radiant Energy Source
4. E 662 Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
5. F 925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
6. F 137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus
7. F 1515 Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
8. F970 Standard Test Method for Static Load Limit.
9. D2047 Standard Test Method for Static Coefficient of Friction as Measured by the James Machine.
10. D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double-Head Abrader)
11. F 710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
12. F 1482 Standard Guide to Wood Underlayment Products Available for Use Under Resilient Flooring
13. D 471 Standard Test Method for Rubber Property-Effect of Liquids
14. F 386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces

B. Other Referenced Documents

1. National Fire Protection Association (NFPA): NFPA 253, Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source.
2. National Fire Protection Association (NFPA): NFPA 255, Test Method for Surface Burning Characteristics of Building Materials
3. National Fire Protection Association (NFPA) 258 Test Method for Specific Density of Smoke Generated by Solid Materials.
4. California State Title 24, Section 3306 (r)
5. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
6. The Collaborative for High Performance Schools (CHPS)

1.03 SUBMITTALS

- A. Product Data: Submit product data, including manufacturer's specification summary sheet for specified products.
- B. Shop Drawings: Submit shop drawings showing layout, finish colors, patterns and textures.
- C. Samples: Submit selection and verification samples for finishes, colors, and textures.
- D. Quality Assurance Submittals: Submit the following:
1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
 2. Manufacturer's Instructions: Manufacturer's installation and maintenance instructions.
- E. Submit the following:
1. Maintenance Data: Maintenance data for installed products in accordance with Division 1 sections. Include methods for maintaining installed products, and precautions against cleaning materials and methods detrimental to finishes and performance.
 2. Warranty: Warranty documents specified herein.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installing work similar to that required for this project.
- B. Regulatory Requirements
1. Fire Performance characteristics: Provide resilient stair treads with the following Fire performance characteristics as determined by testing products in accordance with ASTM method (and NFPA method) indicated below by a certified testing laboratory or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - a. ASTM E 648 (NFPA 253), Critical Radiant Flux of Floor Covering Systems:
Class 1, Greater than 0.45 w/cm²
 - b. ASTM E 662 (NFPA 258), Specific Optical Density of Smoke Generated by Solid Materials:
Passes, <450
 - c. ASTM E 84 (NFPA 255), Surface Building Characteristics of Building Materials: Class C
- C. Single-Source Responsibility: Obtain resilient Stair Treads and manufacturer's recommended Adhesive from a single supplier.
- D. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, Manufacturer's conditions, recommended adhesive depending on product, substrate type and type of installation, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with requirements in Division 1.

- 1.05 DELIVERY, STORAGE, AND HANDLING
- A. General: Comply with requirements in Division 1.
 - B. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
 - C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with Identification labels intact.
 - D. Storage and Protection: Store materials protected from exposure to harmful weather conditions and acclimated to site conditions at temperature and humidity conditions recommended by manufacturer.
- 1.06 PROJECT CONDITIONS
- A. Environmental Requirements/Conditions: In accordance with manufacturer's recommendations, areas to receive resilient Stair Treads shall be clean, fully enclosed, weather tight with the permanent HVAC set at a uniform temperature of 65-85 degrees F for 48 hours prior too, during and thereafter installation of resilient Stair Treads. Resilient Stair Treads and adhesive shall be conditioned in the same manner. Resilient Stair Treads must be un-boxed at least 48 hours prior to installation in the areas in which it will be installed.
 - B. Existing Conditions: [Specify existing conditions affecting product use and installation]
- 1.07 SEQUENCING AND SCHEDULING
- A. Finishing Operations: Install resilient Stair Treads after finishing operations, painting and ceiling operations etc., have been completed.
- 1.08 WARRANTY
- A. Manufacturer's Materials Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
 - 1. Warranty Period: 1 year limited warranty commencing on Date of Substantial Completion. Notice of any defect must be made in writing to manufacturer within thirty (30) days after buyer learns of the defect.
 - 2. Limited Wear Warranty: Limited wear warranty available depending on product type/design & type of use.
 - 3. Do not use in, around or near commercial kitchens.
- 1.09 MAINTENANCE
- A. Extra Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals (Maintenance Materials) Section.
 - 1. Quantity: Furnish quantity of Resilient Stair Treads equal to 5% of amount installed.
 - 2. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra materials.
 - B. Maintenance of finished floor covering to be conducted per Manufacturer's Maintenance Guide.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes performance characteristics, material standards, and descriptions as applicable. Use of such phrases as "Or Equal" or "Or Approved Equal," or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal, and regulatory) and assignment of responsibility for determining "Or Equal" products.

- 2.01 RESILIENT RUBBER STAIR TREADS
- A. Manufacturer: Roppe Corporation
 - 1. Contact: P.O. Box 1158 Fostoria, Ohio USA 44830-1158
Phone: (419) 435-8546 Fax: (419) 435-1056
 - B. Test results:
 - 1. F 2169 Standard Specification for Resilient Stair Treads – Type TS: Meets all applicable test requirements (listed in section 1.02)
 - 2. F 386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
 - 3. Does do not contain any of the hazardous chemicals listed in California Proposition 65
 - 4. Collaborative for High Performance Schools 01350 Low-Emitting Material Criteria: Pass
 - C. Proprietary Product(s): (Select one)

Specifier note: Sections 1k – 1n include products that comply with ASTM F 2169, Group 1 (Abrasive) and Group 2 (contrasting color for visually impaired). On a per order basis, the manufacturer can produce all products listed in this section to meet this standard. To specify as such, insert "Group 1 (Abrasive), Group 2 (contrasting color for visually impaired)" in the appropriate section after "Class". See Section 1k for example

1. Roppe Rubber Stair Treads (select one)

A. Color (select one)

1. Solid color # [insert color number], complies with ASTM F 2169, Type TS
2. Fiesta Tile # [insert color number], complies with ASTM F 2169, Type TS
3. SafeTork Cork/Rubber Tile color# [insert color number], complies with ASTM F 2169, Type TS
 - a. Style # 93 Texture Design, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m), 78" (1.98m), 84" (2.13m), 90" (2.28m), 96" (2.43m), 102" (2.59m), 108" (2.73m)
 - 3.) Depth: 12 5/8" (314.3mm) nominal from inside of nose.
 - 4.) Thickness: 13/64" (5.15mm) tapering to 5/32" (3.97mm) nominal
 - 5.) Square Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 5/32" (3.97mm) nominal
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut Nose: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for normal commercial traffic
 - b. Style # 30 Diamond Design Square Nose, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m), 78" (1.98m), 84" (2.13m), 90" (2.28m), 96" (2.43m), 102" (2.59m), 108" (2.73m)
 - 3.) Depth: 12" (304.8mm) nominal from inside of nose
 - 4.) Thickness: 3/16" tapering to 1/8" (4.76mm to 3.175mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 1/8" (3.175mm) nominal
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut: Yes
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
 - c. Style # 31 Diamond Design Round Nose, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12" (304.8mm) nominal from inside of nose.
 - 4.) Thickness: 1/4" tapering to 3/16" (6.35mm to 4.76mm) nominal
 - 5.) Nose Length: 1-3/8" (34.93mm) nominal
 - 6.) Nose Thickness: 7/64" (2.78mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
 - d. Style # 80 Light-Duty Rib Square Nose, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 1/8" (3.175mm) tapering to .080" (2.03mm) nominal
 - 5.) Square Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 1/8" (3.18mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
 - e. Style # 81 Light-Duty Rib Round Nose, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 1/8" (3.175mm) tapering to .080" (2.03mm) nominal
 - 5.) Nose Length: 1-3/8" (34.93mm) nominal
 - 6.) Nose Thickness: 9/64" (3.58mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
 - f. Style #94 Raised Square Design, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 1/4" (6.35mm) tapering to 1/8" (3.175mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal

- 6.) Nose Thickness: 1/4" (6.35mm) nominal
- 7.) Tapered Nose: No
- 8.) Relief Cut: No
- 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for heavy traffic
- g. Style #92 Low Profile Raised Design, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 3/16" (4.76mm) tapering to 1/8" (3.175mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 9/64" (3.57mm) nominal
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut: Yes
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
- h. Style #96 Raised Circular Vantage Design One-Piece Tread and Riser, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 20-1/2" (520.7mm) nominal from inside of nose.
 - 4.) Thickness: 1/4" (6.35mm) nominal tread portion, riser tapers
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 3/16" (4.76mm) nominal
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut: Yes
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for heavy traffic
- i. Style #97 Raised Circular Vantage Design Extended Depth Tread, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52 m), 72" (1.83m)
 - 3.) Depth: 15" (381mm) nominal from inside of nose.
 - 4.) Thickness: 1/4" (6.35mm) tapering to 3/32" (2.41mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 3/16" (4.76mm) nominal
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut: Yes
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for normal commercial traffic
- j. Style #98 Raised Circular Vantage Design Tread without riser, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m), 108" (2.73m)
 - 3.) Depth: 12" (304.8mm) nominal from inside of nose.
 - 4.) Thickness: 3/16" (4.76mm) tapering to 1/8" (3.175mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 1/8" (3.18mm) nominal
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut: Yes
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for normal commercial traffic
- k. Style #40 Heavy-Duty Square Nose tread with abrasive strip, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth), Group 1(Abrasive), Group 2 (contrasting color for visually impaired)
 - 2.) Complies with California State Title 24, Section 3306 (r): Treads for Visually Impaired
 - 3.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 4.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 5.) Thickness: 1/4" (6.35mm) tapering to 3/16" (4.76mm) nominal
 - 6.) Nose Length: 1-9/16" (39.70mm) nominal
 - 7.) Nose Thickness: 7/32" (5.56mm) nominal
 - 8.) Tapered Nose: No
 - 9.) Relief Cut: No
 - 10.) Limited Wear warranty: Manufacturer's limited wear warranty of five years heavy traffic
- l. Style #41 Heavy-Duty Round Nose tread with abrasive strip, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth), Group 1(Abrasive), Group 2 (contrasting color for visually impaired)
 - 2.) Complies with California State Title 24, Section 3306 (r): Treads for Visually Impaired
 - 3.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 4.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 5.) Thickness: 1/4" (6.35mm) tapering to 3/16" (4.76mm) nominal
 - 6.) Nose Length: 1-3/8" (34.93mm) nominal
 - 7.) Nose Thickness: 13/64" (5.16mm) nominal
 - 8.) Tapered Nose: No

- 9.) Relief Cut: No
- 10.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for heavy traffic
- m. Style #50 Light- Duty Square Nose tread with abrasive strip, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth), Group 1(Abrasive), Group 2 (contrasting color for visually impaired)
 - 2.) Complies with California State Title 24, Section 3306 (r): Treads for Visually Impaired
 - 3.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 4.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 5.) Thickness: 3/16" (4.76mm) tapering to 1/8" (3.174mm) nominal
 - 6.) Nose Length: 1-9/16" (39.70mm) nominal
 - 7.) Nose Thickness: 11/64" (4.36mm) nominal
 - 8.) Tapered Nose: No
 - 9.) Relief Cut: No
 - 10.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
- n. Style #51 Light-Duty Round Nose tread with abrasive strip, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth), Group 1(Abrasive), Group 2 (contrasting color for visually impaired)
 - 2.) Complies with California State Title 24, Section 3306 (r): Treads for Visually Impaired
 - 3.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 4.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 5.) Thickness: 3/16" (4.76mm) tapering to 1/8" (3.174mm) nominal
 - 6.) Nose Length: 1-3/8" (34.93mm) nominal
 - 7.) Nose Thickness: 5/32" (3.97mm) nominal
 - 8.) Tapered Nose: No
 - 9.) Relief Cut: No
 - 10.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
- o. Style #60 Heavy-Duty Square Nose smooth tread, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose, color [insert color #]
 - 4.) Thickness: 1/4" (6.35mm) tapering to 3/16" (4.76mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 1/4" (6.35mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for heavy traffic.
- p. Style #61 Heavy-Duty Round Nose smooth tread, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 1/4" (6.35mm) tapering to 3/16" (4.76mm) nominal
 - 5.) Nose Length: 1-3/8" (34.93mm) nominal
 - 6.) Nose Thickness: 7/32" (5.56mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for heavy traffic
- q. Style #70 Light- Duty Square Nose smooth tread, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 3/16" (4.76mm) tapering to 1/8" (3.174mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 11/64" (4.36mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic
- r. Style #71 Light-Duty Round Nose smooth tread, color [insert color #]
 - 1.) Complies with ASTM F 2169 Type TS, Class 1(Smooth)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 12-1/4" (311.2mm) nominal from inside of nose
 - 4.) Thickness: 3/16" (4.76mm) tapering to 1/8" (3.174mm) nominal
 - 5.) Nose Length: 1-3/8" (34.93mm) nominal
 - 6.) Nose Thickness: 5/32" (3.97mm) nominal
 - 7.) Tapered Nose: No
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of three years for normal commercial traffic

- s. Style #95 Hammered Design with Riser, color [insert color #]
 - 1.) Complies with ASTM F 2169, Type TS, Class 2 (Patterned)
 - 2.) Length (select one) Nominal 36" (.91m), 42" (1.07m), 48" (1.22m) 54" (1.37m), 60" (1.52m), 72" (1.83m)
 - 3.) Depth: 20-3/8" (520.7 cm) from inside of nose
 - 4.) Thickness: 13/64" (5.16mm) stair tread portion, riser tapers to 5/64" (1.98mm) nominal
 - 5.) Nose Length: 1-9/16" (39.70mm) nominal
 - 6.) Nose Thickness: 1/8" (3.18mm)
 - 7.) Tapered Nose: Yes
 - 8.) Relief Cut: No
 - 9.) Limited Wear warranty: Manufacturer's limited wear warranty of five years for normal commercial traffic

2. Rubber Risers (select one)

A. Standard Rubber Risers, color [insert color #]

- 1. Height: 7" (177.8mm) nominal
- 2. Thickness: .100" (2.54mm) nominal
- 3. Toe Length: 9/16" (14.24mm) nominal
- 4. Length (select one): 36" (.91mm), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m), 78" (1.98mm), 84" (2.13mm), 90" (2.28mm), 96" (2.42mm), 102" (2.59mm), 108" (2.73m)

B. Fiesta Rubber Risers, color [insert color #]

- 1. Height: 7" (177.8mm) nominal
- 2. Thickness: .100" (2.54mm) nominal
- 3. Toe Length: 9/16" (14.24mm) nominal
- 4. Length (select one): 36" (.91mm), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m), 78" (1.98mm), 84" (2.13mm), 90" (2.28mm), 96" (2.42mm), 102" (2.59mm), 108" (2.73m)

C. SafeTcork Rubber Risers [insert color #]

- 1. Height: 7" (177.8mm) nominal
- 2. Thickness: .100" (2.54mm) nominal
- 3. Toe Length: 9/16" (14.24mm) nominal
- 4. Length (select one): 36" (.91mm), 42" (1.07m), 48" (1.22m), 54" (1.37m), 60" (1.52m), 72" (1.83m), 78" (1.98mm), 84" (2.13mm), 90" (2.28mm), 96" (2.42mm), 102" (2.59mm), 108" (2.73m)

3. Rubber Stringers (select one)

A. Rubber Stringers, color [insert color #]

- 1. Height: 10" (254mm) or 12" (304.8mm) nominal
- 2. Thickness: .100" (2.54mm) nominal
- 3. Length: 72" (1.83m) nominal

B. Fiesta Rubber Stringers, color [insert color #]

- 1. Style: With Cork or Without Cork (choose one)
- 2. Height: 10" (254mm) or 12" (304.8mm) nominal
- 3. Thickness: .100" (2.54mm) nominal
- 4. Length: 72" (1.83m) nominal

C. SafeTcork Rubber Stringers, color [insert color #]

- 1. Height: 10" (254.0mm)
- 2. Thickness: .080" (2.03mm) nominal
- 3. Length: 50' (15.24m) nominal roll
- 4. Rubber Landings Mats & Rubber Landing Tiles.
Specify Roppe Landing tiles as required.

5. Rubber Tiles

- a. Specify Roppe Rubber Tiles as required. Coordinating Raised, Smoothed and Textured Design Rubber Tile are available in 1/8" thickness in 50cm sizes.

2.02 . ROPPE VINYL STAIR TREADS

A. Manufacturer: Roppe Corporation

- 1. Contact: P.O. Box 1158 Fostoria, Ohio USA 44830-1158
Phone: (419) 435-8546 Fax: (419) 435-1056

B. Test results: Proprietary Product(s): Roppe Vinyl Stair Treads1. F 2169 Standard Specification for Resilient Stair Treads – Type TV: Meets all applicable test requirements (listed in section 1.02)

- 2. F 386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
- 3. Does not contain any of the hazardous chemicals listed in California Proposition 65
- 4. Collaborative for High Performance Schools 01350 Low-Emitting Material Criteria: Pass

C. Proprietary Product(s): (Select one)

Specifier note: Sections 1k – 1n include products that comply with ASTM F 2169, Group 1 (Abrasive) and Group 2 (contrasting color for visually impaired). On a per order basis, the manufacturer can produce all products listed in this section to meet this standard. To specify as such, insert "Group 1 (Abrasive), Group 2 (contrasting color for visually impaired)" in the appropriate section after "Class". See Section 1k for example

D. Product Warranty: Manufacturer's one year limited warranty for manufacturing defects.

- Proprietary Product(s): Roppe Vinyl Stair Treads
1. Style #16 Light-Duty LD Square Nose Ribbed Tread, color [insert color #]
 - a. Complies with ASTM F 2169 Type TV; Class 2 (Pattern)
 - b. Length (select one) Nominal 42" (1.07m), 48" (1.22m), or 72" (1.83m), Custom order length (36" to 144" in 6" increments)
 - c. Depth: 12-1/2" (31.71cm) nominal
 - d. Thickness: 5/32" (3.96mm) tapering to 5/64" (1.984mm) nominal
 - e. Nose Length: 2" (50.80mm) nominal
 - f. Nose Thickness 5/32" (3.968mm) nominal
 2. Style #17 Light-Duty LD Round Nose Ribbed Tread, color [insert color #]
 - a. Complies with ASTM F 2169 Type TV; Class 2 (Pattern)
 - b. Length (select one) Nominal 42" (1.07m), 48" (1.22m) or 72" (1.83m), Custom order length (36" to 144" in 6" increments)
 - c. Depth: 12-1/2" (31.71cm) nominal
 - d. Thickness: 5/32" (3.96mm) tapering to 5/64" (1.984mm) nominal
 - e. Nose Length: 1" (24.4mm) nominal
 - f. Nose Thickness: 3/32" (2.381mm) nominal
 3. Style #18 Heavy-Duty HD Square Nose Ribbed Tread, color [insert color #]
 - a. Complies with ASTM F 2169 Type TV; Class 2 (Pattern)
 - b. Length (select one) Nominal 42" (1.07m), 48" (1.22m), 54" or 72" (1.83m), Custom order length (36" to 144" in 6" increments)
 - c. Depth: 12-3/8" (31.43mm) nominal
 - d. Thickness: 1/4" (6.359mm) to 1/8" (3.175mm) nominal
 - e. Nose Length: 2" (50.80mm) nominal
 - f. Nose Thickness 5/32" (3.968mm) nominal
 4. Style #19 Heavy-Duty HD Round Nose Ribbed Tread, color [insert color #]
 - a. Complies with ASTM F 2169 Type TV; Class 2 (Pattern)
 - b. Length (select one) Nominal 42" (1.07m), 48" (1.22m) or 72" (1.83m), Custom order length (36" to 144" in 6" increments)
 - c. Depth: 12-3/8" (31.43cm) nominal
 - d. Thickness: 1/4" (6.359mm) tapering to 1/8" (3.175mm) nominal
 - e. Nose Length: 1" (24.4mm) nominal
 - f. Nose Thickness: - 1/4" (6.359mm) nominal
 5. Vinyl Risers (select one)
 - a. Vinyl Risers, color [insert color #]
 1. Height: 7" (177.8mm) nominal
 2. Thickness: .085" (2.16mm) nominal
 3. Toe Length: 5/8" (15.88mm) nominal
 4. Length: 50 ft. rolls (15.24m) nominal roll
 6. Vinyl Stringers (select one)
 - a. Rubber Stringers, color [insert color #]
 1. Height: 10" (254mm) nominal
 2. Thickness: .080" (2.03mm) nominal
 3. Length: 50 ft. rolls (15.24m) nominal

- 2.2 PRODUCT SUBSTITUTIONS
A. Substitutions: No substitutions permitted.

PART 3 EXECUTION

- 3.01 MANUFACTURER'S INSTRUCTIONS
A. Compliance: Comply with manufacturer's instructions for installation.
B. Adhesive: (select one) ROP319 Acrylic Stair Tread Adhesive, ROP Quik-Stik Adhesive Tape, ROP535U Universal Urethane Enhanced Epoxy Adhesive or 435 Epoxy Adhesive
C. Nose filler: ROPECC Epoxy Caulking Compound
D. Caulking: Roppe Colored Caulk
- 3.02 EXAMINATION
A. Site Verification of Conditions: Verify substrate conditions are acceptable for installing product in accordance with manufacturer's instructions.
B. Material Inspection: In accordance with manufacturer's installing requirements, visually inspect materials prior to installing. Material with visual defects shall not be installed.
- 3.03 PREPARATION
A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
B. Floor Substrate: Prepare floor substrate to be smooth, rigid, flat, level, permanently dry, clean and free of foreign materials such as dust, paint, grease, oils, solvent, film forming curing compounds, hardening compounds sealers, asphalt and old adhesive residue.
 1. Concrete substrate preparation and testing per ASTM F 710.,
 - a. Concrete Moisture Test: Per ASTM F 710 section 5, persons or testing agencies with experience in concrete moisture testing shall perform moisture tests on concrete floors regardless of the age or grade level with a minimum of three tests for the first 1000 square feet and one additional test for each 1000

Floor Covering Manufacturer's limitations, the installation shall not proceed until the problem has been corrected.

- b. Concrete pH Test: Perform pH tests on concrete floors regardless of the age or grade level. If the pH is less than 7 or greater than 10 the installation shall not precede until the problem has been corrected. If the test results exceed the floor covering manufacturer's limits, installing shall not commence until results conform to limits.
2. Wood Floor Substrate: Per ASTM F1482, Wood floors shall be double layer construction, with a total thickness of not less than 1".
 - a. There shall be least 18 inches of well-ventilated air space beneath all wood subfloors. Crawl spaces shall be insulated and protected by a vapor barrier.
 - b. Do not install over "sleeper" system floors or plywood floors that have been installed directly over concrete.
 - c. Do not install over Lauan panels, CCA Plywood, plywood with knots, underlayment made of pine or other soft woods, particle board, Masonite™ or other hardboard underlayment, hardwood flooring, textured or cushioned flooring, treated or otherwise coated wood material or other uneven or unstable substrates. Unacceptable surfaces shall be covered using a 1/4-inch or thicker panel underlayment per section d.
 - d. Wood Underlayments: Use only plywood underlayment such as _" 5 ply or 3/8" 7 ply arctic birch plywood underlayment, or A/C grade plywood.
 - e. Refer to Division 6 Carpentry sections for wood subfloor construction.
 - f. Refer to Roppe Technical Manual for information regarding preparation of wood substrates.
3. Refer to manufacturer's installation instructions regarding installations over existing ceramic tile, cementitious terrazzo and metal.
4. Do not install over existing floor covering nor over substrates not approved by manufacturer.

3.04 INSTALLING

- A. Refer to Roppe Technical Manual for detailed specifications on installation of Roppe Stair Treads, Risers and Stringers with regard to job site conditions, substrate testing and preparation, adhesive and trowel selection and application, layout and installation, seam treatment, clean up and protection of new stair treads after installation. Refer to Roppe 10-Part Specification Sheet for stair tread installation instructions for detailed specifications on installing Roppe Rubber and Vinyl Stair Treads.
 1. Install with Roppe Brand Adhesive only.
 2. Use Epoxy Caulking Compound as a nose filler on all stair treads
 3. Use Roppe Colored Caulk as needed to fill gaps
 4. All stair tread, stringers and risers backings must first be thoroughly cleaned with a clean white cloth and denatured alcohol before applying adhesives, Quik-Stik Adhesive Tape or ROPECC Epoxy Caulking Compound.
 5. Special stair tread, stringer & riser backing preparation must be followed when utilizing Quik-Stik Adhesive Tape. See Stair Tread 10-Part Specification Sheet prior to applying.

3.05 FIELD QUALITY REQUIREMENTS

- A. Manufacturer's Field Services: Upon Owner's request and with minimum 72 hours notice, provide manufacturer's field service consisting of product use recommendations and periodic site visits to confirm installing of product is in accordance with manufacturer's instructions.
 1. Site Visits: [Specify number and duration of periodic site visits.]

3.06 CLEANING

- A. Cleaning: Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.07 PROTECTION

- A. Protection: Protect installed product and finish surfaces from damage during construction. Remove and Legally dispose of protective covering at time of substantial completion.
- B. Keep foot traffic off new stair treads for first 48 hours.
- C. Keep furniture, fixtures and rolling traffic off for first 72 hours.
- D. No maintenance for first 72 hours.

3.08 INITIAL MAINTENANCE PROCEDURES

- A. General: Include in contract sum cost for initial maintenance procedures and execution by professional maintenance personnel after floor covering has been installed for three days as specified in the Roppe maintenance instructions.