SECTION 32 1729

RUBBER TRANSITION RAMPS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word 2007: Click the OFFICE button, select WORD OPTIONS, select DISPLAY, then select or deselect the HIDDEN TEXT option.

Microsoft Word (earlier versions): From the pull-down menus select TOOLS, then OPTIONS. Under the tab labeled VIEW, select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

This master specification section has been prepared by Van Duerr Industries, Inc. for use in the preparation of a project specification section covering Safepath resilient transition products for use at changes in vertical heights of materials at entrances, ramps, landings, curbs, and other transitions. Safepath transitions can be applied to concrete, tile, stone, wood, natural and synthetic fibers, and painted surfaces.

The following additional master specification sections are also available from Van Duerr Industries, Inc.:

Section 09 6251 - Flooring Transitions

This specification is a part of the SpexPlus system, which comprises a full architectural master specification that can be used to specify all project requirements.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

(www.spexplus.net)

Optional text requiring a selection by the user is enclosed within brackets, e.g.: "Section [09 0000.] [_____.]"

Items requiring user input are enclosed within brackets, e.g.: "Section [_____ - _____]."

Optional paragraphs are separated by an "OR" statement, e.g.:

**** OR ****

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at www.usgbc.org.

For assistance on the use of the products in this section, contact Safepath Products by calling 800-497-2003, by email at info@safepathproducts.com, or visit their website at www.safepathproducts.com.

For assistance with obtaining or using the SpexPlus Master Specification System contact SpexPlus by calling 1-888-877-SPEX (1-888-877-7739), by email at chaney@spexplus.net, or visit our website at www.spexplus.net.

PART 1   GENERAL

1.1   SUMMARY

Edit the following paragraphs to include only those items specified in this section.

A. Section Includes:
    1. Rubber transitions at [entrances,] [doors,] [ramps,] [curbs,] [and] [_____].

Coordinate the following paragraphs with other sections in the project manual.

B. Related Sections:
    1. Division 01: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

In the following paragraphs, retain only those reference standards that are used elsewhere in this section.

A. Federal Register, 28 CFR - Americans with Disabilities Act and Accessibility Guidelines (ADAAG).

B. American National Standards Institute (ANSI) (www.ansi.org) A117.1 - Accessible and Usable Buildings and Facilities (standard and Commentary).

C. ASTM International (ASTM) (www.astm.org):
    1. C1026 - Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling.
    2. C1028 - Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
    3. D395 - Standard Test Methods for Rubber Property - Compression Set.
    4. D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
    5. D2240 - Test Method for Rubber Property - Durometer Hardness.

1.3 SUBMITTALS

Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects.

Include the following for submission of shop drawings, product data, and samples for the Architect's review.

A. Submittals for Review:
    1. Shop Drawings: Indicate transition locations, dimensions, and relative floor heights.
    2. Product Data: Manufacturer's descriptive data, attributes, and performance characteristics.
    3. Samples: [6] [__] inch long samples showing each profile.

Include the following for submission of sustainable design submittals.

B. Sustainable Design Submittals:
    1. Recycled Content.
    2. Regional Materials.
    3. Low-Emitting Materials.

1.4 QUALITY ASSURANCE

The following paragraph specifies a minimum level of experience required of the parties performing the work of this section. Retain if required, and edit to suit project requirements.

A. Installer Qualifications: Minimum [2] [__] years [documented] experience in work of this Section.

B. Regulatory Requirements: Provide transition strips complying with [ADAAG.] [ANSI A117.1.] [applicable accessibility code.] [_____.]

Include the following for full size mockups for review of construction, coordination of work of several sections, testing, or observation of operation.

C. Mockup:
1. Size: One full-size transition.
2. Locate [where directed.] [_____.]
3. Approved mockup may [not] remain as part of the Work.

1.5 WARRANTIES

A. Furnish manufacturer's 10 year warranty providing coverage against defects in materials and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on Safepath Products by Van Duerr Industries, Inc. (www.safepathproducts.com)

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

A. [Transition Strips] [Landings] [Ramps] [and] [_____]:
1. Composition: 100 percent reclaimed 20 mesh minus crumb rubber with urethane binders, formed by compression molding.
2. Standard heights of single or multiple piece construction.
3. Attributes:
   a. Tensile strength: Minimum 630 PSI, tested to ASTM D412.
   b. Compression: Maximum 7.84 percent, tested to ASTM D395.
   c. Hardness: Shore A 65, tested to ASTM D2240.
   d. Absorption: Maximum 0.75 percent, tested to ASTM C1026.
   e. Density: 1.01 grams per cubic meter.
4. Performance requirements:
   a. Static coefficient of friction; tested to ASTM C1028:
      1) Dry: 0.95.
      2) Wet: 0.79.
   b. Fixed angle walking: Static coefficient of friction of 0.50, tested for bare foot, Red Wing Iris walking shoes, Converse 2D 1292 tennis shoes, and Naturalizer 78ON73 wedge sandals; tested using male and female personnel facing up and down slope at angle of 27 degrees with running water.

Include the following for products with StoneCap coating.

5. Surface coating: StoneCap.
   a. Base material: Two component, rapid-curing, hand-applied, non-solvent adhesive coating.
   b. Top coat: Single-component, rapid curing, clear, non-solvent polyurethane sealer.
6. Profiles: As scheduled at end of Section.

2.3 ACCESSORIES

Do not use Liquid Nails or other construction adhesives or non-approved adhesives.

A. Adhesive: Single-component, non-corrosive silicone type; Sikaflex-1a by Sika Corporation.

B. Patching Compound: Type approved by transition manufacturer.

PART 3 EXECUTION

3.1 PREPARATION

A. Prepare surfaces to receive transitions; remove dirt, oil, and loose and foreign matter that could impair adhesion.

B. Fill cracks, holes, and voids over 1/2 inch in width with patching compound; finish flush with adjacent surfaces.

C. Remove bumps and high spots.

D. Abrade highly polished and waxed surfaces.

E. Do not install transitions unless surfaces are dry and free from frost.

3.2 INSTALLATION

A. Cut and fit transitions to meet installation conditions.

B. Bevel, plane, or grind underside of strips when required to accommodate minor inconsistencies in substrate.

C. After fitting, apply adhesive to underside of transition; evenly spread using notched trowel. Allow to dry for 5 to 15 minutes, then position transition on substrate.

D. Press to full bond with substrate.

3.3 PROTECTION

A. Protect installed transitions from traffic for minimum 4 hours after installation.

3.4 SCHEDULE

Include the following for a schedule listing the products in this section. Coordinate with Part 2 - Products. Refer to www.safepathproducts.com for model numbers, sizes, and options.

LOCATION	PRODUCT	MODEL NO.	DIMENSIONS	COMMENTS
Entrances	EZ Edge	RAEZ0110	1/2 inch high 42 inches wide x 36-1/4 inch wide ramp surface x 3-3/8 inches deep	
Door Transitions	Elegant Transitions	ETCG0010	1/2 inch high 42 inches wide x 36-1/4 inch wide ramp surface x 3-3/8 inches deep	Gray color
Entrance Landings	EntryLevel Landing	EL1.5 6048B	1/2 inch thick x 60 inches wide x 48 inches deep	

END OF SECTION

MATERIAL SAFETY DATA SHEET

IDENTITY (*As used on label and list*)	Rubber Transitions & Flat Stock

Section I

SafePath Products 311 Otterson Drive, Suite 10 Chico, CA 95928 FAX: 530-893-1560	**SAFEPATH** P R O D U C T S www.SafePathProducts.com info@safepathproducts.com	**Emergency Telephone Number** 530-893-1596
		Telephone Number for Information 800-497-2003
		Date Prepared 2/3/09
		Signature of Preparer (Optional)

Polyurethane elastomers are fully reacted polymers, forming articles with are not considered hazardous under OSHA's criteria in 29CFR1910.1200.

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity/Common Name(s))	OSHA PEL	ACGIH TLV	NIOSH REL	%(optional)
None				

Section III – Physical/Chemical Characteristics

Boiling Point	N/A	**Specific Gravity (H2O=1)**	N/A
Vapor Pressure (mm Hg.)	N/A	**Melting Point**	N/A
Vapor Density (AIR=1)	N/A	**Evaporation Rate (Butyl Acetate=1)**	N/A
Solubility in Water	N/A		
Appearance and Odor	N/A		

Section IV – Fire & Explosion Data

Flash Point (Method Used:	N/A	**Flammable Levels:**	**LEL:** N/A	**UEL:**	N/A
Extinguishing Media:					
Special Fire Fighting Procedures:		Wear pressure demand self-contained breathing apparatus and protective clothing			
Unusual Fire and Explosion Hazard:	N/A				

Section V – Reactivity Data

Stability: Stable ☒ Unstable ☐	**Conditions to avoid:** N/A	
Incompatibility (Materials to avoid):	N/A	
Hazardous Decomposition or Byproducts:	Oxides of Carbon and Nitrogen	
Hazardous Polymerization:	May Occur ☐ Will Not Occur ☒	**Conditions to Avoid:** N/A

Section VI – Health Hazard Data

Route(s) of Entry:	**Inhalation?** No	**Skin?** No	**Ingestion?** No
Health Hazards (Acute & Chronic):			
Carcinogenicity:	**NTP?** No	**IARC Monographs?** No	**OSHA Regulated?** No
Signs & Symptoms of Exposure:	N/A		
Medical Conditions Generally Aggravated by Exposure:	N/A		
Emergency & First Aid Procedures	N/A		

Section VII – Precautions for Safe Handling

Steps to be taken in case of material spillage or release:	N/A
Waste Disposal Method:	Dispose of in accordance with Federal, State and Local Environmental Regulations.
Precautions to be taken in Handling & Storing:	N/A
Other Precautions:	N/A

Section VIII – Control Measures

Respiratory Protection (Specify Type):	N/A			
Ventilation:	**Local Exhaust:** N/A	**Mechanical (General):** N/A	**Special:** N/A	**Other:** N/A
Protective Gloves:	N/A	**Protective Eyewear:** N/A		
Other Protective Clothing or Equipment:	N/A			
Work/Hygiene/Maintenance Programs	N/A			