

# CourtEdge Reducer™ Specification Sheet

## Part 1 General

### .1 System Description

These specifications are for the CourtEdge Reducer products selected and dimensioned to provide the transition piece from existing Flooring or changes to the substratum. (Reducers modify existing changes in vertical rises) CourtEdge Reducers can be applied to concrete, tile, marble, wood, natural and synthetic fibers and painted surfaces.

### .2 Quality Assurance

#### A. Supplier Qualifications

1. Supplier of this Reducer Product shall be SafePath™ Products by Van Duerr Industries Inc., 311 Otterson Dr. #10, Chico, Ca. 95928, PH# (530) 893-1596, (800) 497-2003, Fax (530) 893-1560, [www.safepathproducts.com](http://www.safepathproducts.com) or a registered supplier of Van Duerr Industries' or SafePath Products. Installer or Contractor Qualifications

1. Installations will be performed by skilled tradesman experienced and trained in the flooring modifications and alterations.

### 1.3 Reference Standards

A. Manufacturer provides each Ramp in accordance with the model descriptions and specifications established herein. All Ramps shall be installed in accordance with all governing agencies with jurisdiction and in accordance with the Americans with Disabilities Act CourtEdge Reducer Products shall be in compliance with the Americans with Disabilities Act (1990) and Accessibility Guidelines (ADAAG) Sections 4.2.5 (Changes in Level) and 4.8.2 (Slope & Rise) of the Federal Register, 28 CFR, Part 36 and ANSI Standard A117.1. (1992). CABO and California Title 24, unless otherwise specified by customer.

### 1.4 Performance

A. CourtEdge Reducer Products meet or exceed the following tests:

ASTM D 412 Tensile Elasticity 630psi  
ASTM D395-82 Comp. Test 7.84%  
ASTM D 2240 Hardness 65 (Shore A)  
ASTM C 1026-84H20 Absorb. .75%  
Density 1.01 grams/cm<sup>3</sup>

1) CourtEdge Reducer Products have no load weight limitations when properly installed according to manufacturer instructions.

B CourtEdge Reducers exceeded all recognized standards utilizing three test methodologies for Static Coefficient of Friction (SOCF), Fixed-Angle Ramp-Walking, and Surface Roughness.

1) Static Coefficient of Friction (SOCF)  
ASTM C 1028-96 (Dry- 0.95)  
ASTM C 1028-96 (Wet- 0.79)  
Static Coefficient of Friction values of 0.60 or higher are considered adequate for level floors in normal pedestrian traffic in commercial areas. Sliders used in testing were of Neolite synthetic rubber. Other materials used for (SOCF) included:  
ASTM C 1028-96 Dry Leather (0.79)  
ASTM C 1028-96 Wet -4 S rubber (0.82)  
ASTM C 1028-96 Wet TRL rubber (0.95)  
ASTM F609 Rubber 0.80

2) Fixed Angle Walking.  
Utilizing two tests personnel one male and one female facing down slope and up slope at flooring angle of 27 degrees with wet running water. Angle of degree corresponded to a SOCF of 0.50. Under normal walking conditions a SOCF of 0.40 (22 Degrees) is a widely accepted minimum for walking tests of flooring for level surfaces. Testing angle appreciably exceeds the minimum safety criterion.  
a. bare foot  
b. red wing Iris athletic shoes  
c. Converse 2D 1292 tennis shoes  
d. Naturalizer 78ON73 wedge sandals

3) Surface Roughness – surface total-mean peak-to-valley roughness, Rtm or RZ. Measured by a Surtronic 10 profilometer was 25. Water-wet surface is low when the roughness exceeds 20 microns.

### 1.5 Delivery, Storage and Handling

A. Store products in accordance with the manufacturer's instructions, with labels intact. CourtEdge Reducers shall be kept dry and away from sources of heat. Store on flat level surfaces.

### 1.6 Project Conditions

A. Review installation procedures and coordinate CourtEdge Reducers installation with other work.  
B. Do not install on frozen materials or materials mixed or coated with ice or frost.  
C. Surface must be dry and clean and free from dirt, oil, frost and all other foreign materials and have a minimum surface temperature of 35°F (3°C)

## Part 2 Products

### .1 Manufacturer

A. CourtEdge Reducer Products shall be manufactured by SafePath™ Products by Van Duerr Industries Inc., 311 Otterson Dr. # 10, Chico, CA. 95928, Ph# (530) 893-1596, (800) 497-2003, Fax (530) 893-1560, [www.safepathproducts.com](http://www.safepathproducts.com)

B.

### .2 Materials

A. CourtEdge Reducer material shall be made from 100% reclaimed 20 mesh minus crumb rubber with urethane binders by compression molding, and have a maximum hardness (Shore A) of 65 and comply with Americans with Disabilities Act (1990) ADAAG 4.2.5

B. Changes in level landing and ADAAG 4.8.2 Slope and Rise, UFAS Unit 4, Thresholds and ANSI Standards 117.1 (1986). Reducers shall have a 3/16" (6.35mm) front radius maintaining a 1:12 slope to the top of the Reducer.

- C.Reducer surfaces for models in 0110 and 1110 series shall have molded slip resistant traction pads 2½” (63.5mm) by 4-3/8” (111.125mm) with 1/8” (3.175mm) drainage spacing.
- D.Reducer surfaces for models in 1510 series shall have molded slip resistant traction pads 2½” (63.5mm) by 5” (127.125mm) with 1/8” (3.175mm) drainage spacing.
- E.Reducer surfaces for models in RED 1000 & 900 series shall have molded slip resistant traction diamond design with equal and proportional spacing.
- F.Reducer shall come in standard heights of single or multi piece construction in accordance with the model description and specifications established herein. Adhesive: **(WARNING: NEVER USE CONSTRUCTION ADHESIVE i.e. LIQUID NAILS™ OR OTHER SIMILAR NON-APPROVED COMPOUNDS TO FASTEN RAMPS)**
- G.Securing Reducer Product to substratum. One part non-corrosive silicon adhesive sealant shall be one of the following products: one part
- H.SIKAFLEX –1a One part Polyurethane, Elastomeric sealant/adhesive. Meeting Federal specifications TT-S-00230C, Type II, Class A. Meets c-920, Type S, Grade NS, use T,NT, O, M, G, I; Canadian standard CAN/CGSB 19.13-M87.
- I. SU 5007 RTV SILICONE ADHESIVE SEALANT. A supplied Silicones Unlimited Inc. located at 4577 Blakedale Circle, Roswell, GA, 30075. Tele 770-643-1880 or supplied by their authorized distributors. Silicone adhesive shall have Tensile Strength ASTM D-412 150 psi. UV Resistant, Curing time @ 77° F and 50% Relative Humidity (1/8” thickness) of 24 hour. Hardness (Shore A) 28. Tack Free time @ 77°F and 50% relative humidity, 20-30 minutes, and temperature range -80°F (62°C) to 400°F (205°C). or one part DOW CORNING 995 SILICONE STRUCTURAL ADHESIVE. Supplied by Dow Corning Corporation, Midland, MI 48686. Tele (517) 496-6000 or one of their authorized suppliers. Silicone adhesive shall have Tensile Strength ASTM D-412

350 psi. UV Resistant, Curing time @ 77° F and 50% Relative Humidity (1/8” thickness) of 24 hour. Hardness (Shore A) 28. Tack Free time @ 77°F and 50% relative humidity, 1.5 hours. Adhesive temperature range –65 °F (-54°C) to 350°F (-65°C).

### Part 3 Execution

Reducers shall be installed in accordance with manufacturer’s instructions using ONLY recommended non-corrosive silicone adhesive sealants or mechanical fasteners.

### 3.1 Preparation

- A.Surfaces must be dry, clean, and free from dirt, oil, frost, and all other foreign materials and have a minimum surface temperature of 35° F (3°C) CourtEdge Reducers can be applied over expansion joints up to ½” (12mm) in width. In accordance with manufacturer’s guidelines, fill holes and cracks greater than ½” (12mm) in depth. Remove all bumps and foreign surfaces. Abrade highly polished and waxed surfaces.
- B.Field verifies all dimensions for vertical heights and path widths. Cut and modify ramps to meet specific installation requirements. Reducer’s underside may be beveled, planed, or ground to accommodate minor inconsistencies in existing level surfaces.
- C.Fit Reducer for size and application and then apply adhesive using heavy-duty hand or air dispensing gun and spread evenly with a notched trowel on the underside of ramp. Wait 5 minutes but no more than 15 minutes before applying ramp to substratum. Adhesive cures in 24 hours; foot traffic is permitted after 4 hours.

### Warranty

SafePath™ Products and Van Duerr Industries, Inc. warrants that CourtEdge Reducer Products will be free of any defect of material or workmanship for a period of 10 years from date of purchase.

### Ordering

Select proper Reducer size to accommodate the vertical height and width. For answers to your technical questions call (800) 497-2003, or visit us at [www.safepathproducts.com](http://www.safepathproducts.com) for a quote or product application for your project, or call

your local authorized distributor, for current distributor listings and locations visit our web site at [www.safepathproducts.com](http://www.safepathproducts.com). Product numbers and dimensions are found on our product brochure, [www.safepathproducts.com](http://www.safepathproducts.com) Van Duerr Industries/SafePath Product Architectural Binders complete with product specifications for all manufactured products are available upon request. Additional information that provides product application photographs and other helpful information is also available from our products design specialists

### Note:

This specification sheet is intended to assist you in preparing a precise specification. You may reproduce it in full or part. Specifications and dimensions are subject to state and local building code changes. For additional technical code compliance information in your jurisdiction contact **Van Duerr Industries dba SafePath Products** at (800) 497-2003 or (530) 893-1596, by Fax at (530)893-1560 or by e-mail [info@safepathproducts.com](mailto:info@safepathproducts.com)

### Architectural Binders

Architectural CD’s complete with product specifications for all products manufactured by SafePath™ Products and by Van Duerr Industries, Inc. is available upon request.

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