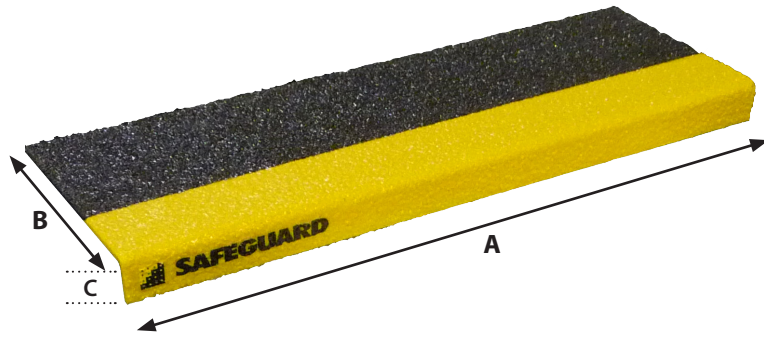


Hi-Traction® Anti-Slip Step Covers



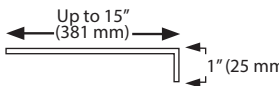
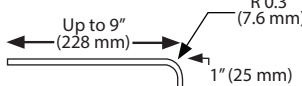
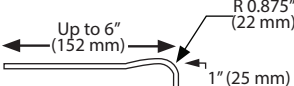
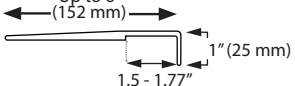
Safeguard® Hi-Traction® Step Covers are not load-bearing but are installed over existing steps. They are sized to meet your specifications with Length (A) and Depth (B) made to order. A standard 1" (25 mm) vertical lip (C) wraps over the leading edge where most slips occur.

Custom sizes and styles are available.

The length (A) is available up to 10' (3 m). The length is generally up to 2" (50 mm) shorter than the length of the step. If complete step coverage is desired, confirm that no obstruction (for example: a weld bead) will interfere with the seating of the step cover.

BASE MATERIALS	THICKNESS
1/8" Pultruded Fiberglass (FRP)	0.125" (3 mm)
G90 Galvanized Steel, 18 g	0.05" (1.2 mm)
#316 Stainless Steel, 18 g	0.05" (1.2 mm)
Marine Grade Aluminum	0.28" (7 mm) <i>other sizes available</i>


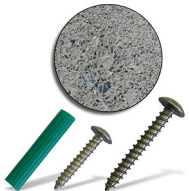



STANDARD PROFILES and SIZES

90° Angle	Bull Nose	Raised Rounded Nosing FRP Only	Custom Fabricated Spacer FRP Only
 <p>Up to 15" (381 mm) 1" (25 mm)</p>	 <p>Up to 9" (228 mm) R 0.3" (7.6 mm) 1" (25 mm)</p>	 <p>Up to 6" (152 mm) R 0.875" (22 mm) 1" (25 mm)</p>	 <p>Up to 6" (152 mm) 1" (25 mm) 1.5 - 1.77" (38-45 mm)</p>

AVERAGE THICKNESS OF FINISHED PRODUCT





Base Material	Super Coarse	Extra Coarse	Coarse	Fine	Extra Fine	Super Fine
1/8" Pultruded Fiberglass (FRP)	0.38"	0.26"	0.19"	0.18"	0.17"	0.16"
	9.7 mm	6.6 mm	4.8 mm	4.6 mm	4.3 mm	4.1 mm
Galvanized or Stainless Steel, 18 gauge	0.30"	0.18"	0.11"	0.10"	0.09"	0.08"
	7.6 mm	4.6 mm	2.8 mm	2.5 mm	2.2 mm	2.0 mm
Heavy Duty Aluminum, Marine Grade	0.54"	0.42"	0.35"	0.34"	0.33"	0.32"
	13.6 mm	10.6 mm	8.8 mm	8.5 mm	8.3 mm	8.0 mm

RECOMMENDED FASTENERS

Wood	Concrete	Solid Metal	Open Grating	Adhesive Sikaflex 252 Sealant Sikaflex 221
 <p>Self-tapping/drilling screws</p>	 <p>Masonry screws and anchors</p>	 <p>Nuts, bolts, pop rivets, and self-drilling screws</p>	 <p>Saddle clips, nuts, and bolts</p>	

Select the appropriate fastener for the substrate to be covered. A combination of mechanical fasteners and adhesive may be used. Sikaflex 221 sealant may be used to seal edges to deter corrosion. *Fasteners and pre-drilled/slotted holes are available upon request.*

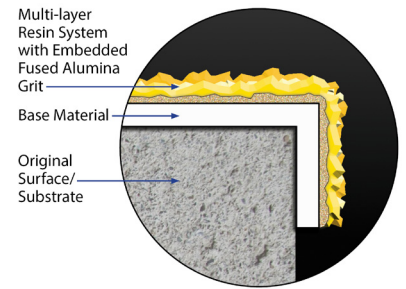
PRE-DRILLED HOLES/SLOTS

#8 screws	#10, #12 screws	1/4" bolts	Slots for adjustable screw placement	Custom size holes, slots, and placements are available
 <p>7/32" (5.55 mm)</p>	 <p>9/32" (7.14 mm)</p>	 <p>3/8" (9.52 mm)</p>	 <p>1" (25 mm) x 9/32" (7.14 mm)</p>	

Safeguard Hi-Traction® Anti-Slip Covers - General Properties

The Safeguard anti-slip surface is an engineered combination of epoxy, resin, and fused alumina aggregate which is bonded to a variety of base materials.

- Covers are not load-bearing but are installed over existing substrate with mechanical fasteners or adhesive.
- Pre-drilled holes/slots and fasteners are available upon request.
- After installation, Cover edges may be sealed with adhesive for corrosion protection.
- Custom covers can be made to your specification. Send detailed requirements to receive a free consultation and quote:
 - size and shape of item to be covered
 - base material desired
 - grit size or conditions of area to be covered
 - color plus any logo or messages desired



	Test results shown are for both flat and inclined surfaces. Test Method: Brungraber Mark II Test date 4-30-95
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GRIT SIZES	
Super Coarse	#3/6 Mesh
Extra Coarse	#10 Mesh
Coarse	#20 Mesh
Fine	#24 Mesh
Extra Fine	#36 Mesh
Super Fine	#54 Mesh

Fused Alumina Properties
Mohs Hardness Scale: 9.4
Comparison: Diamond: 10 Silica/Sand/Quartz: 6-7

Independent Testing (1/8" FRP base unless noted)		
Smoke & Flame	ASTM E648 NFPA 253 FTM Std 372	Average Critical Radiant Flux: 1.04 Watts/cm ²
	ASTM E662 NFPA 258	Average Maximum Density Corrected (Flaming): 176 Average Specific Optical Density at 4.0 Minutes: 187
		Average Maximum Density Corrected (Non-Flaming): 341 Average Specific Optical Density at 4.0 Minutes: 311
	ASTM E84	Flame Spread: 20 Smoke Developed: 400
	FMVSS 302	Passed
Wear	Simulator: 30,000 cycles, 400 pounds	Little wear at end of test: Approximately 0.013 inch (0.33 mm) between worn and unworn sections of Cover
Impact	Approx. 138 Joules (17 lb. pendulum), 60°F	Slip resistant coating detached at point of impact only. No shattering occurred.
Thermal Shock	Range: -40°F to 150°F	After 20 cycles, visual inspection for cracking or melting revealed no sign of damage
Weathering	ASTM D4587	Lightness/Darkness (L*) - small change Redness/Greenness (a*) - small decrease Yellowness (b*) - slightly larger decrease Luminescence Retention (HiGlo-Traction): 100% after 158 hours 90% after 200 hours
NSF	Stainless Steel Hi-Traction	Acceptable for use as a slip resistance treatment (P1) for use on walking surfaces in and around food processing areas.

Descriptive Markings, Messages, and Logos

Images and messages are embedded into the resin to last for the life of the product.

CRITICAL MESSAGES
"Use Handrail"
Pictograms
Directional Guidance
Corporate Logo or Safety Message
PPE Requirements
Glow-in-the-Dark (reverse)
Your Custom Message



STANDARD COLORS	
Safety Yellow	Black
Red	White
Beige	Blue
Brown	Fluorescent Green
Gray	Fluorescent Orange
Green	Fluorescent Pink
Orange	PPE Blue

PREMIUM COLORS	
Speckle Photo	Ipswich Olive
Bainbridge Blue	Hudson Hunter
Grand River Gray	Brisbane Brick Red
PM Salmon	Ekzri Brown
Newbury Sky	Geauga Green
Mentor Sand	Erie Blue
Chagrin Chocolate	Garfield Gray

Custom colors also available

HiGlo-Traction®

Safeguard® HiGlo-Traction® Covers glow in the dark, producing light to aid egress in a power outage. Photoluminescent pigment lasts for the life of the Cover.

PHOTOLUMINESCENT HiGlo-Traction® COLORS
Glo-Yellow
Glo-White
Glo-Pink
Glo-Lime
Glo-Green
Glo-Orange

Two-Tone Configuration

Contrasting color on the nosing of a Step Cover calls attention to the leading edge of a stair. On the perimeter of a Step Cover, Walkway Cover, or Ladder Rung Cover, it designates a safe walking zone.

