

S a f e t y U n d e r f o o t

**With SAFEGUARD®
Hi-Traction Covers**

**The safest non-slip
products available**



**SAFEGUARD
TECHNOLOGY**

Leading Manufacturer of Anti-Slip Safety Products

Stop Them in Their Tracks

Field-proven in the extremely wet, oily and corrosive conditions of offshore oil platforms,

SAFEGUARD® Hi-Traction Covers

are rugged and reliable. They are accepted by the U.S.D.A. for food processing plants.

We supply antislip protection to a wide range of industries, as well as transportation, commercial and residential applications.

Under the Worst of Conditions

It's a fact. Slips and falls account for 35% of all work days lost due to injuries. What's more troubling is that accidental falls are the second leading cause of death in the workplace. Reduce your risk. Our antislip Hi-Traction Covers are designed to stop people in their tracks, under the worst of conditions.

Our Covers Provide on-the-job Protection

Up:

Steps
Ladders
Ramps

On:

Landings
Walkways
Workstations
Catwalks
Platforms

And Over:

Pipes and Cables
Floors
Mezzanines
Wet Decks
Grille Covers
Pit Covers
Diamond/Checker Plate
Concrete Areas
Grating Areas
Metal Areas
Wood Areas

Ideal for use in:

Food Processing Plants
Automotive Plants
Pulp & Paper Mills
Chemical Plants
Oil Refineries & Terminals
Oil Production & Exploration
Water & Waste Treatment Plants
Transportation Equipment
Airports
Marine Boats, Barges
Rail Cars
Trucks, Buses & Delivery Vans
Meat Packing Plants
Commercial Buildings
Stadiums & Arenas
Heavy Equipment
Power Plants
Materials Handling Equipment
Primary Metal Production
Mining & Ore Processing Plants
Fishing Vessels & Processing Plants
Bottling Plants
Breweries & Distilleries
Correctional Facilities
Amusement Parks
Bakeries
Dairies
Educational Facilities
Hospitals
Homes

And Many Other Applications



General Properties

No matter how slippery. In wet, oily, dusty, or greasy environments, we have the right Hi-Traction Cover to improve your footing and help prevent slips and falls. Made in the USA, our products are suitable for both indoor and outdoor use. With six grades of grit, numerous choices in color and a variety of sizes and materials, it's safe to say we have you covered.

Even in the dark of night. Our glow-in-the-dark, photoluminescent HiGlo-Traction Covers provide a high degree of slip resistant footing while lighting the path to safety.

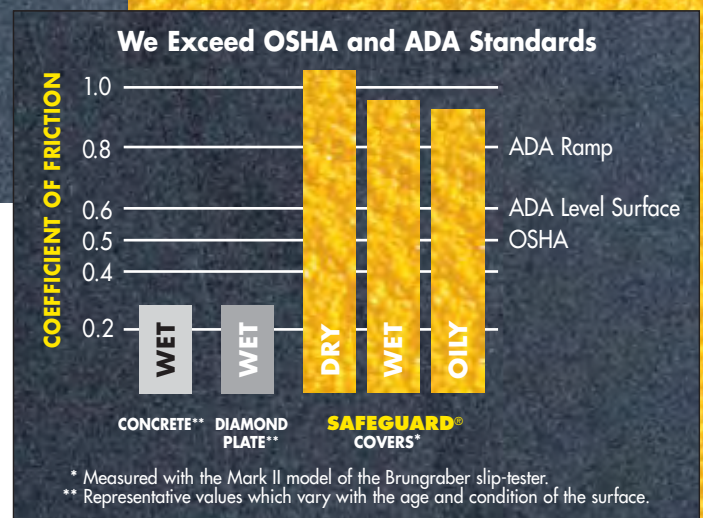
Avoid downtime and expense. Our products are not load-bearing. They are designed to retrofit over existing steps, walkways, platforms, landings, ladder rungs and other critical foot-traffic areas. Installation is quick and easy.

Corrosion, UV and fire resistant. Our products consist of an aggressive, gritty surface bonded in a multi-step patented process.

Base material construction. We offer a selection of base materials, depending on your needs. They include: stainless steel, galvanized steel, fiberglass and vinyl (flexible pvc) sheeting.

Sizes: We offer a variety of sizes and configurations. The following are some general guidelines. For best results, contact us to discuss your specific needs.

- **Step Covers:** Most slips occur on the leading edge of steps. We designed our covers to provide protection both on that edge and on the tread. Tread coverage is determined by your specific requirements.
- **Walkway Covers:** Slip protection covers can be manufactured and fitted on flat surfaces of practically any size and shape. Some size limitations do apply to individual covers.
- **Ladder Rung Covers:** Stainless and galvanized steel covers are made to order. FRP Covers have some size limitations.
- **Pipe And Cable Covers:** We offer step-on or over pipe and cable covers that help prevent accidental trips and falls.
- **ISO-9001:** Our fiber reinforced polymer (FRP) Composite Step Covers are pultruded in an ISO-9001 certified facility.



Our unique non-slip surfaces nearly double OSHA's 0.5 guidelines and exceed ADA's stringent 0.6 measure for Coefficient of Friction values, as confirmed in independent lab testing.



Descriptive or informational markings can be incorporated into **SAFEGUARD®** Safety Covers, such as company logos or directional information on exits and escape routes. The message will be embedded, not just printed on the surface, so it will last for the life of the product and not easily wear off.

General Properties

Six Standard Grades of Grit:

- **Super Fine** – Barefoot for boats, pools, showers
- **Extra Fine** – Residential for deck steps, porches, bus steps
- **Fine** – Commercial/Pedestrian for bus steps, commercial buildings
- **Coarse** – Industrial for most industry applications
- **Extra Coarse** – Offshore/Heavy Duty for oil platforms, heavily soiled and oily areas
- **Super Coarse** – Xtreme for the most severe conditions

Properties

Materials of Construction

304 Stainless Steel	18 Gauge/0.048"/1.2mm
316 Stainless Steel	18 Gauge/0.048"/1.2mm
G90 Hot Dipped Galvanized Steel	18 Gauge/0.048"/1.2mm
Pultruded FRP Composite	0.1"/2.5mm and 0.125"/3.2mm
Vinyl (Flexible PVC)	0.024"/.60 mm

Average Size of Grit (Aggregate)

Grades	Mesh	Inches	Microns
Super Coarse [Xtreme]	4/8	0.2	5000
Extra Coarse [Offshore/Heavy Duty]	10	0.085	2125
Coarse [Industrial]	20	0.033	850
Fine [Commercial]	24	0.027	700
Extra Fine [Residential]	36	0.019	485
Super Fine [Barefoot]	54	0.012	305

Average Thickness of Finished Product

	Super Coarse	Extra Coarse	Coarse	Fine	Extra Fine	Super Fine
Stainless or Galvanized Steel 18 Gauge/0.048"/1.2mm	0.30"/7.6mm	0.18"/4.6mm	0.11"/2.8mm	0.10"/2.5mm	0.09"/2.2mm	0.08"/2.0mm
Pultruded FRP Composite 0.1"/2.5mm †	0.35"/8.9mm	0.23"/5.8mm	0.16"/4.1mm	0.15"/3.9mm	0.14"/3.6mm	0.13"/3.3mm
0.125"/3.2mm ††	0.38"/9.7mm	0.26"/6.6mm	0.19"/4.8mm	0.18"/4.6mm	0.17"/4.3mm	0.16"/4.1mm
Vinyl (Flexible PVC) 0.024"/.60mm	NA	0.15"/3.8mm	0.08"/2.1mm	0.07"/1.9mm	0.06"/1.6mm	0.05"/1.3mm

MOHS Hardness Scale

Grit or Aggregate	MOHS Hardness Scale	For Comparison:
Silicon Carbide	9.7	Diamond 10
Fused Alumina (white)	9.4	Quartz 7

Appearance

Colors (Hi-Traction) Safety Yellow, Orange, Red, Green, Blue, Gray, Brown, Black, White; also custom colors and two-tone products

HiGlo-Traction Glow-in-the-dark. Also in combination with a color for two-tone effect.

Test Results

Results are dependent upon materials of construction. Please call for information on the following:

- Temperature Effects
- Flammability Tests, Index and Classification
- Corrosion Effects
- UV (Ultraviolet Radiation) Effects
- Mechanical, Physical and Electrical Properties

† All FRP Composite Step Covers

†† All FRP Composite Walkway Covers and all FRP Composite Ladder Rung Covers



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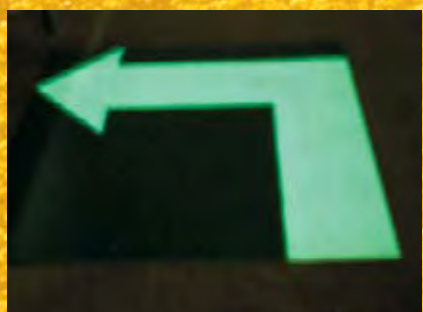
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Hi-Traction Covers are available in standard colors; safety yellow, black, brown, blue, gray and white, and custom colors such as; green, beige and red. Two-tone covers with contrasting colors improve visibility for added safety.



HiGlo-Traction Covers glow in the dark.

Step Covers

Safety Underfoot

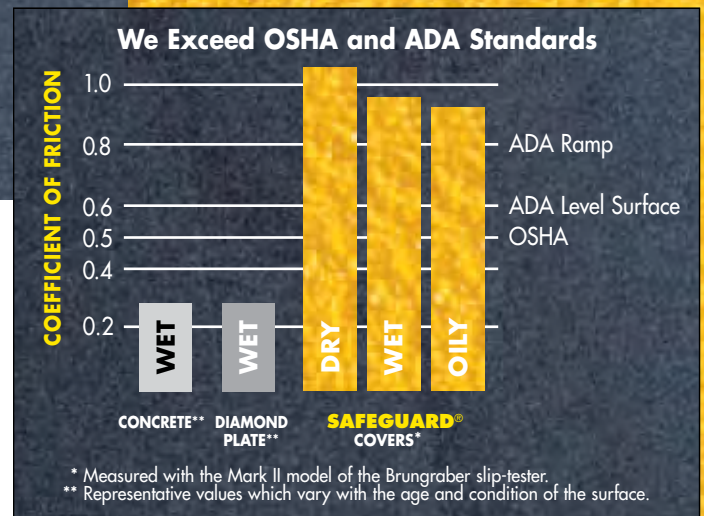
Gain better footing in your industry and help prevent slips and falls. To avoid downtime and costly medical payments to workers and pedestrians, we suggest installing SAFEGUARD® Hi-Traction and HiGlo-Traction Step Covers.

Non-corrosive and impact-resistant. SAFEGUARD® Covers offer a superior alternative to temporary coatings and tapes. Designed with a long-lasting, aggressive grit surface, our products are proven to provide antislip protection in a variety of environments. These range from wet residential decks to oily offshore platforms, greasy food processing facilities, dusty ceramic plants, as well as power generation facilities and automotive stamping plants.

Coefficient of Friction. Safeguard Technology's unique surface nearly doubles both the OSHA's 0.5 and the ADA's 0.6 guidelines for Coefficient of Friction values as confirmed in independent lab testing using the Mark II Model of the Brungraber slip tester. Even in wet or oily conditions, our safety covers greatly exceed these guidelines.

Leading Edge. Most slips occur on the leading edge of the stair step, especially when the metal, wood or concrete surface becomes worn or rounded. Water, dust or oil on the step further accentuates the problem. SAFEGUARD® Step Covers are designed to cover the leading edge, providing excellent traction, even in adverse conditions.

Choose Your Traction. We offer 6 different grades of grit, depending on your application. These include Super Coarse (for extreme conditions), Extra Coarse (for offshore and heavy duty use), Coarse (for industrial environments), Fine (for commercial buildings), Extra Fine (for residential steps) and Super Fine (for showers and barefoot areas).



Our unique non-slip surfaces nearly double OSHA's 0.5 guidelines and exceed ADA's stringent 0.6 measure for Coefficient of Friction values, as confirmed in independent lab testing.



Q&A

1. Do you have standard sizes?

Yes, they are as follows:

Width of Step:	19-24"	25-30"	31-36"	37-42"	43-48"	49-54"
Step Cover Length (A)	18"	24"	30"	36"	42"	48"
Step Cover Depth (B)	Each of the above lengths (A) is available in depths (B) of 3, 6, 9 and 12".					

Step Cover Return or Lip: Standard measurement is 1"

Standard sizes are: 18x3x1", 18x6x1", 18x9x1", 18x12x1", and similarly for the other lengths.

2. How deep should my Step Covers be?

The depth of the tread covered depends on the circumstances.

For example: For high heels on grating steps, most or all of the tread must be covered.

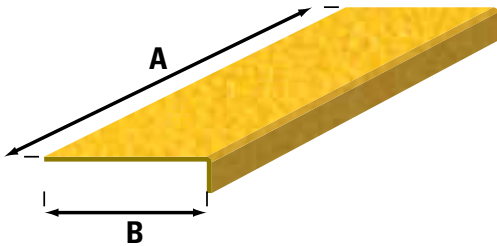
Frequently wet or oily steps – cover at least 6".

Note: All of our Step Covers completely cover the front edge, where most slips occur.

3. Do you supply non-standard sizes?

Yes, we can supply any Step Cover up to 120" (10 feet) long in FRP, and 48" (4 feet) in steel.

We can also supply them in any depth for steel, and a maximum 12" depth for FRP.



Step Covers

Safety Underfoot

Choose Your Colors. Select from a wide range of colors including safety yellow, black, brown, blue, gray and white or custom colors such as green, blue, beige and red.

Glow-in-the-dark. We also offer HiGlo-Traction Covers in photoluminescent which are visible up to 20 hours after the light source is removed.

Two-tone Colors Add Visibility. For added safety, our two-tone step covers call attention to the edge of the step. A contrast between the step edge and the back of the tread below provides good definition and clear visibility. For step depths greater than 3 inches, we strongly recommend using our two-tone color configuration.

Descriptive Marking. We can incorporate logos, escape route information and directional markings on our covers. Our SAFEGUARD® Descriptive Marking is inlaid and will last for the life of the product.

Easy Installation and Cleaning. SAFEGUARD® Hi-Traction and HiGlo-Traction Covers are not load-bearing. They are prefabricated, retrofit covers which are quickly and easily installed over existing surfaces, such as concrete, wood, metal plate and grating using mechanical fasteners, adhesive or tack welding. Installation is quick, easy and requires little or no downtime. Clean-up is easy with a non-solvent cleaner and stiff brush. Refer to our cleaning and installation insert for complete details.

Physical Properties. Please refer to our General Properties Insert for complete physical properties and mechanical specifications.

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Walkway Covers

Safety Underfoot

Turn your walkways into safer non-slip zones.

SAFEGUARD® Hi-Traction and HiGlo-Traction Walkway Covers are ideal for work stations, ramps, stair landings, mezzanines, locker rooms, kitchen and galley floors — any place you want secure footing on a high-traffic surface.

Proven Superior Products. Help prevent slips and falls that result in lost work days and costly medical payments to injured workers and pedestrians. Designed with a long-lasting, aggressive grit surface, SAFEGUARD® Covers offer a non-corrosive and impact-resistant, superior alternative to temporary coatings and tapes.

Used in the toughest environments. From wet residential decks and ramps to oily offshore platforms, greasy food processing facilities, and dusty ceramics plants, our products are field proven to be effective in a variety of applications. They also prove their worth every day in commercial buildings, hospitals, automotive stamping plants and power generation facilities, on bus ramps, wheelchair lifts, and train station platforms.

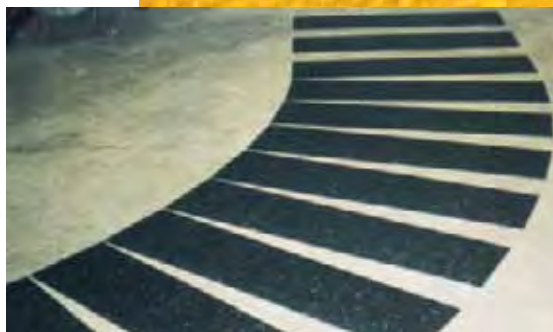
Configure Your Installation. In certain areas, such as work stations in harsh environments, complete floor coverage is often needed. For others, such as commercial building walkways, a heel-and-toe pattern with covers spaced 3 inches apart is attractive and more economical.

Choice of Colors. We offer safety yellow, black, brown, gray, blue and white as standard colors. Custom colors, such as green, beige and red are also available, along with two-tone options.

For added safety, HiGlo-Traction Covers offer a photoluminescent, glow-in-the dark feature that is visible up to 20 hours after the light source is removed.

We can incorporate logos, escape route information and directional markings on our covers. Our SAFEGUARD® Descriptive Marking is inlaid and will last for the life of the product.

Coefficient of Friction. Safeguard Technology's unique surface nearly doubles both the OSHA's 0.5 and the ADA's 0.6 guidelines for Coefficient of Friction values as confirmed in independent lab testing using the Mark II Model of the Brungraber slip tester. Even in wet or oily conditions, we greatly exceed these guidelines.



Q&A

1. Do you have standard sizes?

No, we have found a great deal of variation in the dimensions required, and so have eliminated standard sizes. All Walkway Covers are now made to order – when ordering, provide the Width (A) and Length (B) required.

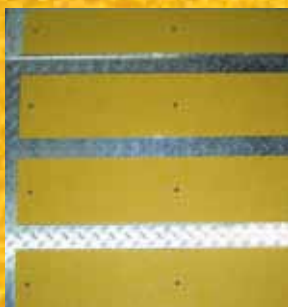
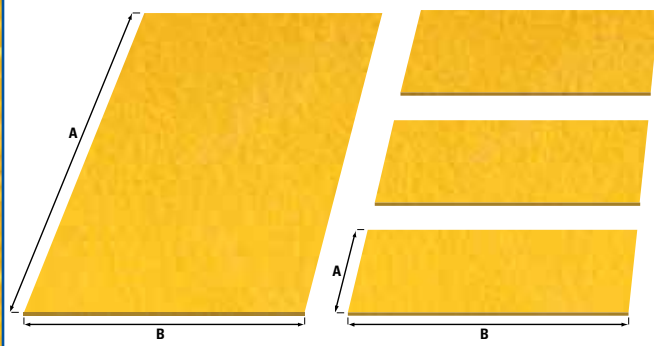
2. What is the largest size available?

The largest size for steel WCs is 48"x48"; for pultruded FRP, 96"x48".

3. What coverage is appropriate?

One option is complete coverage. This is especially important where multi-directional traffic occurs, and in work station environments. If traffic is in two directions only, a heel-and-toe pattern will suffice and be more economical.

Heel-and-Toe Pattern



Walkway Covers Safety Underfoot

Options: Steel, FRP and Vinyl. In addition to our popular steel and pultruded FRP composite (fiberglass) Walkway Covers, we also offer vinyl (PVC) sheeting. The flexibility of our vinyl product and its self-adhesive backing also makes it ideal for installation on curved tank roofs and over pipes subjected to foot traffic.

Six Grades of Traction. We have you covered with 6 different grades of grit available, depending on your application. These include Super Coarse (for extreme conditions), Extra Coarse (offshore oil platforms and other heavy-duty use), Coarse (most industrial uses), Fine (commercial buildings), Extra Fine (residential decks and steps) and Super Fine (showers and barefoot areas).

Easy Installation and Cleaning. SAFEGUARD® Hi-Traction and HiGlo-Traction Covers are not load-bearing. They are prefabricated, retrofit covers which are quickly and easily installed over existing surfaces, such as concrete, wood, metal plate and grating using mechanical fasteners or adhesive. Installation is quick, easy and requires little or no downtime. Clean-up is easy with a non-solvent cleaner and stiff brush. (Refer to our cleaning and installation insert for complete details).

Physical Properties. Please refer to our General Properties Insert for complete physical properties and mechanical specifications.



Leading Manufacturer of Anti-Slip Safety Products

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Ladder Rung Covers

Safety Underfoot

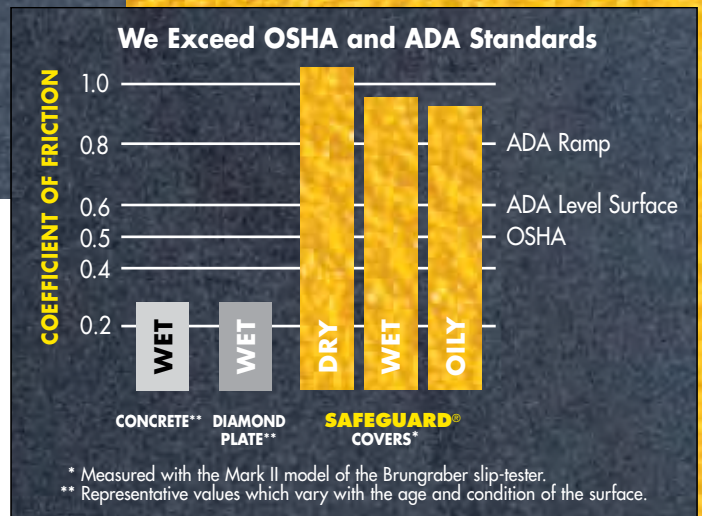
There's no need to climb the slippery slope on your way to success. Patented SAFEGUARD® Hi-Traction and HiGlo-Traction Ladder Rung Covers provide the confident antislip protection you need, right where you want it. Typical ladder rungs, especially those made from bar stock are notorious for slip problems. When you combine that fact with the small area of contact available on the typical ladder rung, you could be faced with costly medical payments and downtime.

Long-lasting Traction. Suitable for use indoors and out, in all types of weather and harsh conditions, our innovative pre-fabricated covers are resistant to impact, chemicals and corrosives.

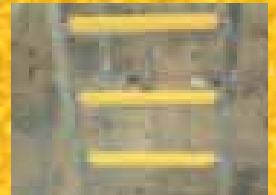
Four Grades of Traction. Depending upon your needs, you may choose from: Extra Coarse (for offshore oil platforms and heavy-duty use), Coarse (suitable for most industrial plants), Fine (commercial buildings) and Extra Fine (residential and light-duty).

Color Selections. In addition to a standard range of colors, we offer HiGlo-Traction Ladder Rung Covers that glow in the dark for up to 20 hours after the light source is removed. We offer safety yellow, black, brown, gray, blue and white as standard colors. Custom colors, such as green, beige and red are also available, along with two-tone options.

Coefficient of Friction. Safeguard Technology's unique surface nearly doubles both the OSHA's 0.5 and the ADA's 0.6 guidelines for Coefficient of Friction values as confirmed in independent lab testing using the Mark II Model of the Brungraber Slip Tester. Even in wet or oily conditions, we greatly exceed these guidelines.



Our unique non-slip surfaces nearly double OSHA's 0.5 guidelines and exceed ADA's stringent 0.6 measure for Coefficient of Friction values, as confirmed in independent lab testing. Even in wet or oily conditions, we greatly exceed these guidelines.



Q & A

1. Do you have standard sizes?

Yes, while the steel Ladder Rung Covers (LRC) are made to fit any diameter rung between 3/4" and 2", the fiberglass LRCs are pultruded through specific dies and therefore are for certain rung diameters only – see below.

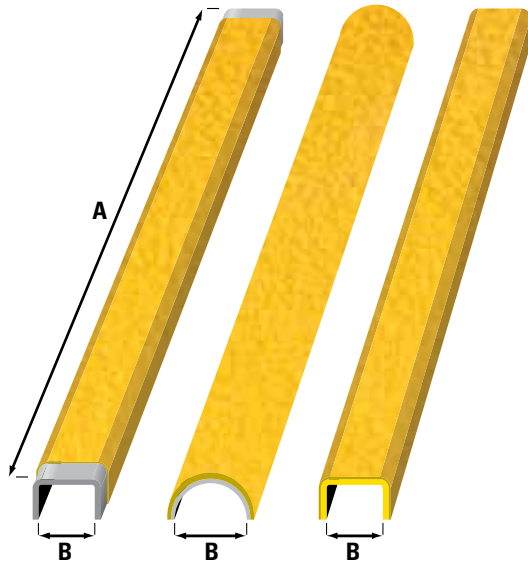
2. How are they installed?

All styles of LRC may be installed using an adhesive, or by means of a screw into the rung where the rung is suitable for this option. In addition, the metal covers may be installed by tack welding to a metal rung.

3. What information do you need when ordering?

We need to know the length of the LRC required (A), the rung diameter (B), grade (grit), color and the style.

Stainless and Galvanized Steel FRP Half Round FRP Channel



Metal Covers

Length (A): Up to 48"
For Rung Diameters (B): Made to fit any rung diameter from 3/4" to 2"
Installation: Tack Weld
Adhesive
Mechanical Fastener

FRP Covers

Up to 48"
3/4" 1" 1 1/4"
1 1/2" 1 3/4" 2"
Adhesive
Mechanical Fastener

Note: The (A) dimension is generally up to 2" shorter than the length of the rung. If complete rung coverage is desired, make sure that no obstruction (for example a weld bead) will interfere with the seating of the Rung Cover.

Ladder Rung Covers Safety Underfoot

Field Proven in some of the harshest environments, we have earned respect on offshore drilling platforms, marine vessels, in greasy food processing facilities, dusty ceramic plants, automotive stamping and power generation facilities.

Easy Installation and Cleaning. SAFEGUARD® Hi-Traction and HiGlo-Traction Ladder Rung Covers are designed for quick and easy installation over existing ladder rungs.

Both the channel shaped and half-round (Pultruded FRP Fiberglass only) covers can be fastened using adhesive or mechanical means. If tack-welding is your preference, 3/4 inch bare edges are standard on all steel products.

Clean-up is easy with a non-solvent cleaner and stiff brush. Refer to our cleaning and installation insert for complete diagrams and details.

Physical Properties. Please refer to our General Properties Insert for complete physical properties and mechanical specifications.



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Vinyl (Flexible PVC) Covers

Safety Underfoot

Q & A

SAFEGUARD® Hi-Traction Walkway Covers are available in vinyl (flexible PVC) sheeting. Our vinyl sheeting offers the same antislip protection as our standard products in a one-step installation alternative.

Improves traction on any flat walking surface. Five different grades of grit are offered to let you choose the level of traction you need from our super fine/barefoot to our extra coarse grades. Our Vinyl Covers have the exact same quality and sure-footing surface as our steel and pultruded FRP composite (fiberglass) covers.

Applications. SAFEGUARD® Vinyl Covers are ideal for indoor and outdoor installations. These can include pools, walkways, ramps, kitchen and galley floors, locker rooms and applications such as curved tank roofs and pipes subjected to foot traffic.

Exceeds OSHA & ADA Guidelines. The coefficient of Friction value exceeds 1.0 dry and 0.95 when wet, oily or dusty, as measured by the Mark II Model of the Brungraber Slip-Tester. Our Vinyl Covers are available in a full range of colors including two-tone ADA contrasting colors for high visibility. For extra protection in the dark, our Vinyl Covers are offered in HiGlo-Traction, with photoluminescent glow in the dark capability.

Quick and Easy Installation. SAFEGUARD® Vinyl Covers have excellent chemical, UV and corrosion resistance. A pressure sensitive, self-adhesive backing allows the covers to be pressed into place instantly.

Physical Properties. Please refer to our General Properties Insert for complete physical properties.

Cleaning and Installation. Please refer to our Cleaning and Installation insert for complete details.

1. What are the maximum and minimum Walkway Cover sizes?

The maximum size Vinyl Walkway Cover sheet is 48"x 48", the minimum size is 1"x 1".

2. Does the Vinyl Walkway Cover last as long as FRP and Steel Covers?

Yes, the antislip surface is the same regardless of the material of construction.

3. Is this a tape?

Although it is installed in a similar one-step manner with a pressure sensitive self-adhesive backing, this is a Vinyl (Flexible PVC) Cover, a longer lasting alternative to temporary tapes.



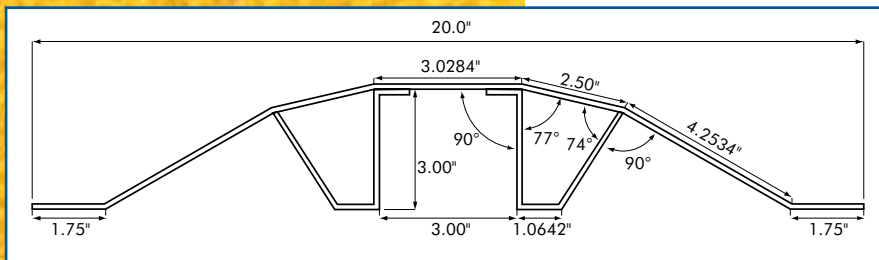
Q&A

1. Can I drive heavy equipment or vehicles over the Pipe & Cable Covers?

Although the Covers have been field tested up to 1,000 lbs. they are designed for pedestrian foot traffic.

2. Is there a standard size Pipe & Cable Cover?

The diagram below illustrates the standard size Cover, however custom sizes are available.



Pipe & Cable Covers

Safety Underfoot

Step over common trip and slip hazards with the SAFEGUARD® Pipe & Cable Cover. Designed for foot traffic, our Covers safely bridge wires, cables, conduit and pipes.

Antislip Protection. The patented SAFEGUARD® Hi-Traction and HiGlo-Traction surface provides the antislip protection you need. Offered in six grades of grit, from super fine/barefoot to super coarse for extreme conditions, our Pipe & Cable Cover can be tailored to meet your needs.

Colors. We offer a choice of standard and custom colors. Two-tone color combinations can include our HiGlo-Traction photoluminescent option for greater visibility.

Rugged Construction. Available in maximum lengths of 10 feet, the Pipe & Cable Cover has been tested to withstand up to 1,000 pounds. The molded composite polymer is corrosion resistant and flame retardant.

Physical Properties. Please refer to our General Properties Insert for complete physical properties.

Cleaning and Installation. Please refer to our Cleaning and Installation insert for complete details.

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HiGlo-Traction Covers

Safety Underfoot

When darkness falls, light the way to safety while providing antislip protection underfoot in both indoor and outdoor applications. SAFEGUARD® HiGlo-Traction Covers for steps, ladders and walkways are proven to be visible up to 20 hours in the dark after the light source is removed.

Identify escape routes. SAFEGUARD® HiGlo-Traction Covers glow in the dark, producing a light source that can provide critical directions for escape routes or mark the outline of steps, platforms and walkways. Our prefabricated covers can light up the entire surface area or be customized with directional marking to point the way to safety with arrows.

Appearance. The green/yellow glow is created by embedded inorganic photoluminescent pigment that is non-toxic, non-radioactive and can be recharged repeatedly during the life of the product. HiGlo-Traction Covers can be fully charged after 5 minutes of exposure to sunlight, 8 minutes at dusk, or 10 minutes in fluorescent light. Luminance will remain visible to the naked eye for up to 20 hours. The Covers exhibit excellent weather and light fastness.

The degree of brightness depends on:

1. Strength and nature of the light source, the higher the UV output the better:

daylight	excellent
fluorescent	excellent
incandescent	fair
red light	no activation
sodium vapor	no activation

2. Distance from the light source.

Coefficient of Friction Values. Our HiGlo-Traction Covers have the same quality and sure-footing surface as our Hi-Traction line, which set the industry standard for antislip protection. The coefficient of Friction value exceeds 1.0 dry and 0.95 when wet, oily or dusty, as measured by the Mark II Model of the Brungraber Slip-Tester.

Physical Properties. Please refer to our General Properties Insert for complete physical properties.

Cleaning and Installation. Please refer to our Cleaning and Installation insert for complete details.

Q & A

1. Is there a difference between Hi-Traction and HiGlo-Traction antislip capabilities?

No, slip prevention properties are identical.

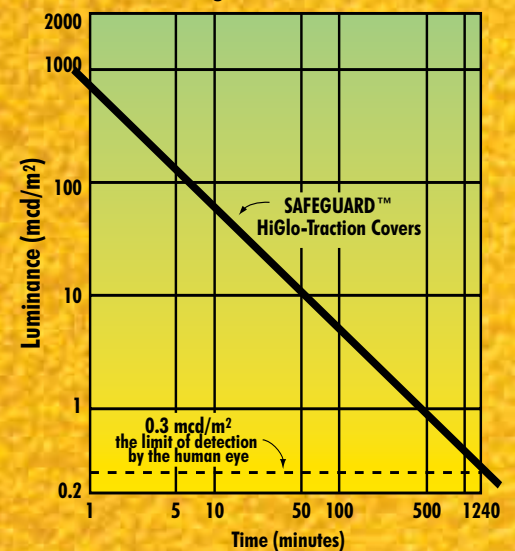
2. Do I have to order 100% photoluminescent Covers?

No, all of our Covers are available in a two-tone configuration with photoluminescent nosing or edging.

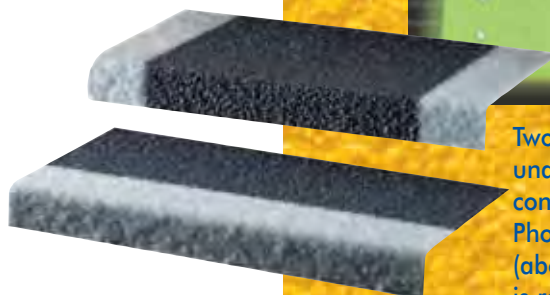
3. Are all Safeguard® Covers available in photoluminescent?

Yes.

Afterglow Characteristics



Two-tone Step Covers (left) under normal lighting conditions and 100% Photoluminescent Covers (above) when light source is removed.



Q & A

1. Can I customize the wording and colors?

Yes, we can use your text and/or match the color and style of your logo.

2. Is Descriptive Marking available on all of your safety Covers?

Yes.

3. Is there a size restriction?

Yes, the size of the image should be in proportion to the size of the Cover.



HiGlo-Traction Covers under normal lighting conditions and when light source is removed.



Descriptive Marking Covers Safety Underfoot

Make a statement, point the way to an emergency escape route or display your company's logo while eliminating the risks of slips and falls. Custom descriptive and informational markings, text and logo graphics can be incorporated into SAFEGUARD® Covers.

Applications. Our Descriptive Marking Covers are used in commercial buildings, public transportation bus steps and lifts, and railway platforms in addition to offshore oil platforms and industrial applications. The descriptive marking is integrated into our Hi-Traction and HiGlo-Traction Covers and is designed to wear for the life of the product.

Safety in the Dark. By incorporating the photoluminescent option into our Descriptive Marking Covers, you can achieve an extra measure of safety after dark or during power outages.

Same Coefficient of Friction Values. Our Descriptive Marking Covers have the exact same quality and non-slip properties as all of our Hi-Traction and HiGlo-Traction Covers, which set the industry standard for antislip protection. The coefficient value exceeds 1.0 dry and 0.95 when wet, oily or dusty, as measured by the Mark II Model of the Brungarber Slip-Tester. They are also resistant to UV rays, chemicals and corrosion.

Physical Properties. Please refer to our General Properties Insert for complete physical properties.

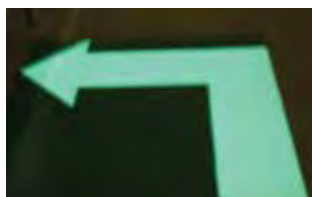
Cleaning and Installation. Please refer to our Cleaning and Installation insert for complete details.

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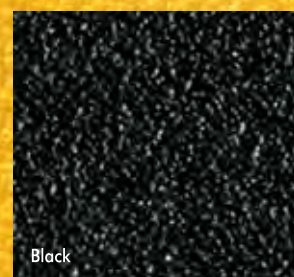
Standard Color Options

Company product offerings.

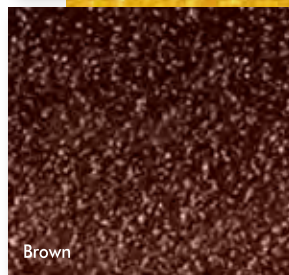
SAFEGUARD® Step Covers, Walkway Covers and Ladder Rung Covers are available in several colors to meet the needs of its safety-minded customers. These include: red, black, brown, gray, safety yellow, green, beige, white, orange, blue, fluorescent green, fluorescent orange, fluorescent pink and photoluminescent "glow-in-the-dark", as well as two-tone combinations of these colors.



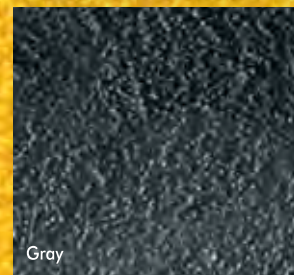
Red



Black



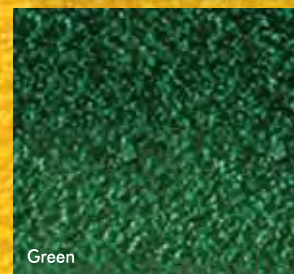
Brown



Gray



Safety Yellow



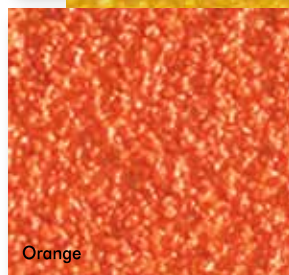
Green



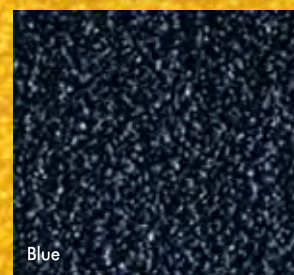
Beige



White/Non-Glowing Photoluminescent



Orange



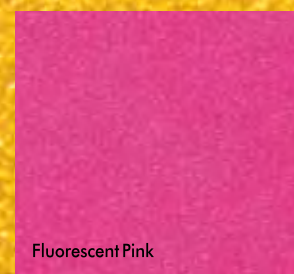
Blue



Fluorescent Green



Fluorescent Orange



Fluorescent Pink

The samples on this sheet serve only as a visual guide for initial selection of color. Actual finished product color may vary slightly from the printed images based on grit size (coarseness) as well as base material of construction.

For an accurate depiction, please request a product sample.

Premium/SGT2100 Colors



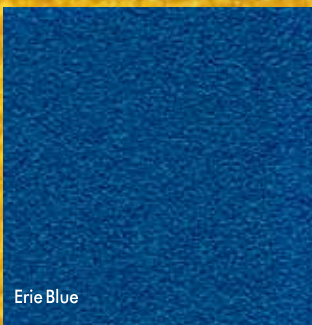
Bainbridge Blue



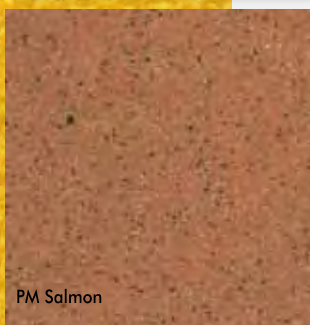
Speckle Photo



Brisbane Brick Red



Erie Blue



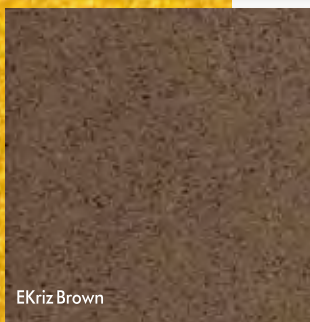
PM Salmon



Garfield Gray



Ipswich Olive



EKriz Brown



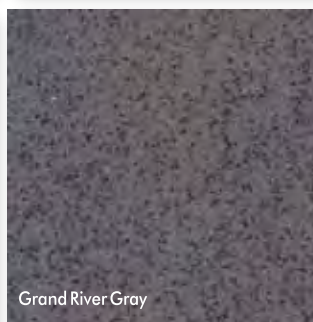
Geauga Green



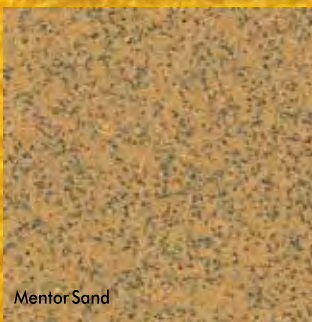
Chagrin Chocolate



Newbury Sky



Grand River Gray



Mentor Sand



Hudson Hunter Green

Designer colors complement standard line of an industrial-based offering.

Fitting in well with the aesthetic requirements for anti-slip products at schools, commercial offices, institutional buildings, hotels, restaurants and personal residences, Safeguard is pleased to introduce these new colors to meet their customer needs.

Color palette. The new color series called "SGT 2100 Premium Colors" consists of 14 new colors that deliver a distinctly different visual appearance than the company's original colors. The new line is based on popular trends and delves into earthtone shades and subtle color hues.

Custom Color Matching:

In addition to the Safeguard Standard and Premium Colors, custom color matching is also available to replicate your corporate, school or favorite team colors as well as your facility safety designation colors.

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For an accurate depiction, please request a product sample.

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Installation & Cleaning

Safety Underfoot

Prefabricated, SAFEGUARD® Covers are not load bearing. They are sold for installation over existing surfaces including Steel or Aluminum Plate, Diamond/Checkerplate, Grating, Wood, Tile and Concrete.

Mechanical Fasteners. Using Saddle Clip Assemblies, Self-Tapping Screws, Self-Drilling (Tek) Screws, Masonry Fasteners, or Rivets.

1. Position the Safety Cover. Note any impediments to the fasteners in the substrate that will require adjustments to their position.
2. Drill appropriately positioned holes in the back of the Safety Cover. Holes must be drilled from the REAR and be at least 1/2" from the edge. The holes should be somewhat larger than the barrel of the screw to allow for any significant difference between the coefficient of expansion of the Cover and that of the substrate.

For Example:

#8 x 1" Screw	Use 7/32" diameter drill bit
#10 x 1-1/2" Screw	Use 9/32" diameter drill bit
1/4" Bolt	Use 3/8" diameter drill bit

TiAIN (titanium aluminum nitride) drill bits are recommended especially for stainless steel. Alternatively, solid carbide drills designed specifically for stainless applications could be used. All fasteners should feature low profile heads, such as Truss Heads supplied by Safeguard.

3. Drill holes in the substrate corresponding to those drilled in the Safety Covers.

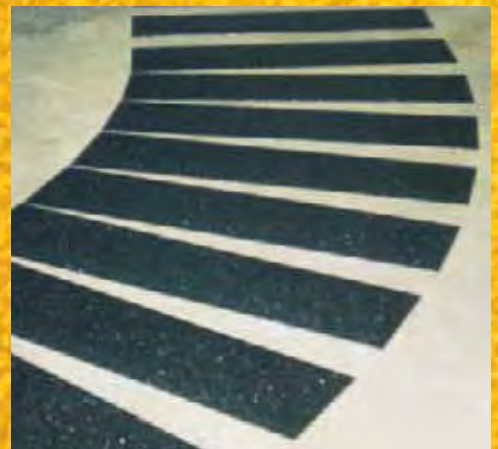
For Self-Drilling (Tek) Screws. Each screw works like a drill to create its own hole, then it taps a thread and fastens the Covers, all in one operation. Use a standard power driver. Position the Safety Cover and drill from the top through the Safety Cover and into the substrate.

Adhesives. Use a quality adhesive, such as Sikaflex 252, Sikaflex 221, or Sikadur 31 Hi-Mod Gel. These products and data sheets are available from Safeguard Technology.

1. Prepare surfaces. All surfaces to be fastened with the adhesive must be clean, dry and dust-free. Any coating over which SAFEGUARD® Covers are to be installed should be firmly bonded to the surface. If not, it should be removed. If the coating is firmly bonded, it should be lightly abraded, using a Scotch-Brite pad (or similar type) until the surface shine is dulled. The contact points for adhesive on the underside (back) of our pultruded FRP (fiberglass) Covers should also be sanded lightly.
2. Apply the adhesive to the steel or FRP back of the SAFEGUARD® Cover, around the perimeter, approximately 1" in from the edge. For larger Covers, apply adhesive, in the shape of an "X", from corner to corner. Position the Safety Cover, adhesive-side-down, and firmly press in place. The gritted, or non-slip surface, will be uppermost. Allow 24 hours for the adhesive to cure.

CAUTION:

Adhesive is difficult to remove from the rough, gritted surface of SAFEGUARD® Covers.



Installation & Cleaning

Safety Underfoot



Tack-Welding. Use the appropriate welding method for steel Safety Covers with bare edges.

Pressure-Sensitive Adhesive.

1. To install SAFEGUARD® Flexible PVC Walkway Covers, they should be at least 50°F or 10°C before installation. Your surface should be thoroughly cleaned, dry and dust free before applying the Vinyl Covers.
2. The Cover should be manufactured to your exact specifications. If trimming is necessary, use a utility knife and cut from the BACK (non-gritted) side.
3. Simply peel back the release liner and firmly press the Cover in place.

CAUTION:

Once the vinyl sheet is adhered to the substrate, it is very difficult to adjust.



Cleaning. Regular cleaning will keep Covers free of debris and looking new. Most household or industrial methods can be used. Detergents and mild degreasers work well. For stubborn deposits, use a stiff bristle brush. High pressure heated water (660 psi, as used in food processing plants) may be used in industrial environments.

CAUTION:

Do not use mops. The gritted surface will catch and retain fibers. Solvents are not generally recommended. If necessary, mild solvents may be used provided they are diluted and immediately hosed off with water.

Snow and Ice Removal.

1. Brooms will remove loose snow.
2. Plastic shovels are suitable for top layers of heavy snow accumulation.
Do not use metal shovels, scrapers and wire brushes.
3. Use salt, calcium chloride or other melting agents on compacted snow and ice.



Top Coat. If you choose to apply a top coat paint to revitalize the color after years of wear, only apply a thin coating of alkyd silicone enamel. A heavy application will diminish the effectiveness of the grit surface, and reduce coefficient of friction values.

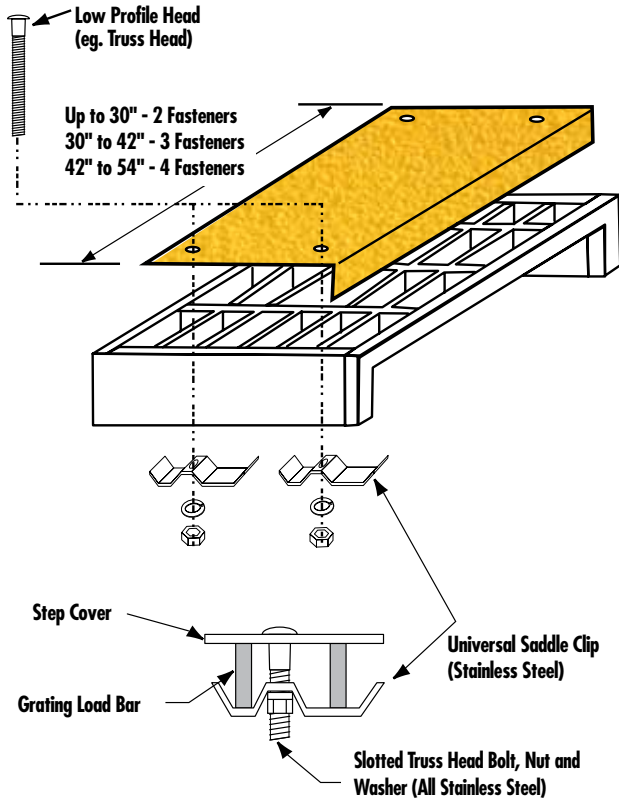
Direct your questions to Safeguard Technology, by calling our toll free number: 800-989-1695.

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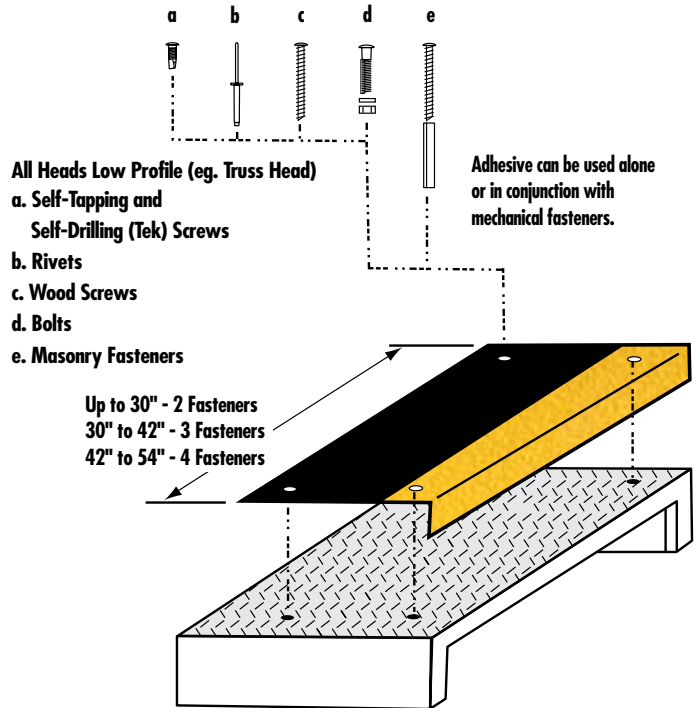
Installation Diagrams

Safety Underfoot

Step Cover Installation Over Grating

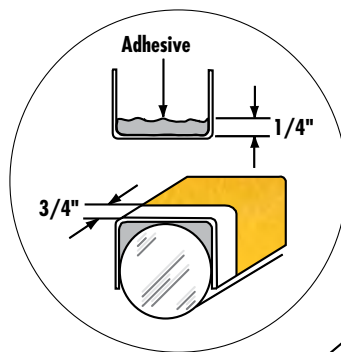


Step Cover Installation Over Diamond/Checker Metal Plate, Concrete or Wood

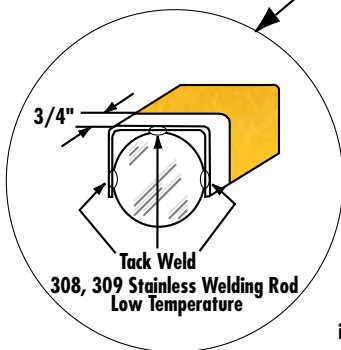


Ladder Rung Cover Installation

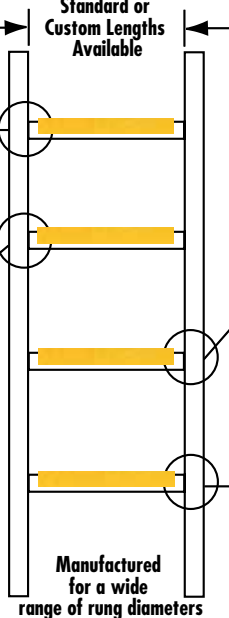
Stainless and Galvanized Steel



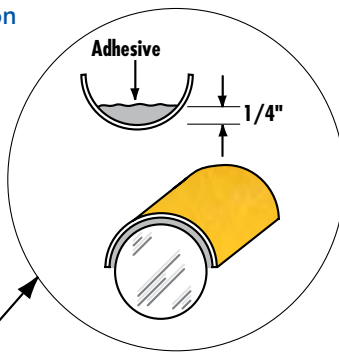
Stainless and Galvanized Steel



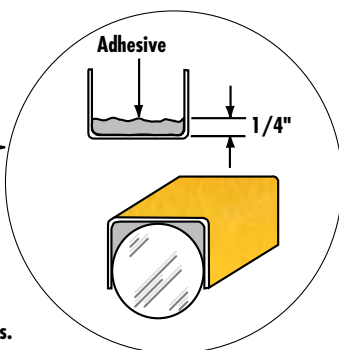
Standard or Custom Lengths Available



FRP Half Round



FRP Channel

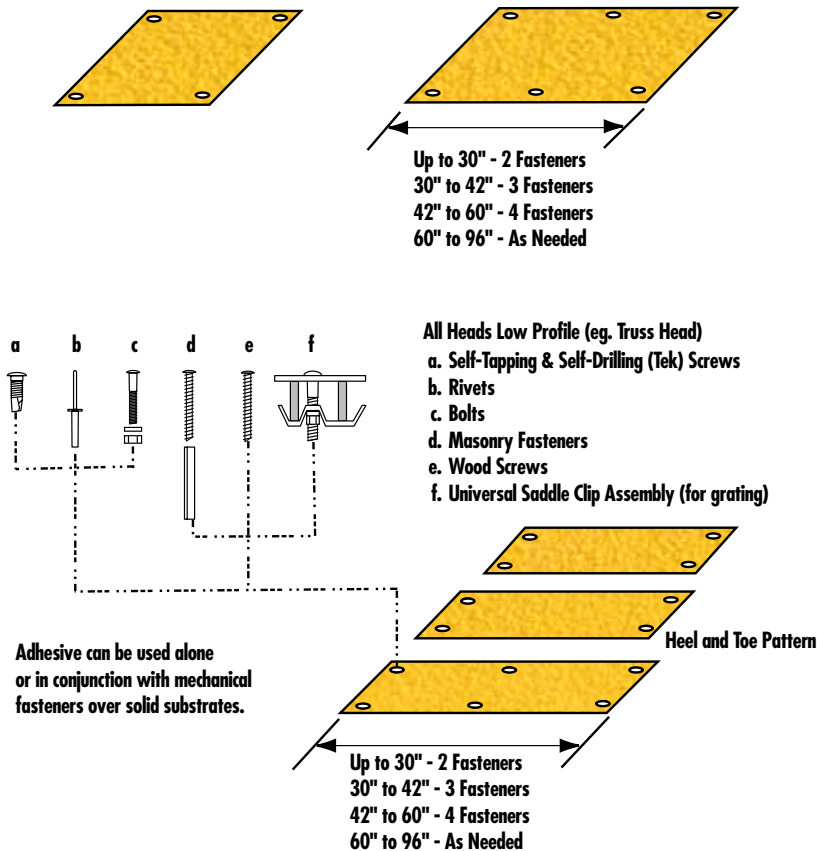


Mechanical fasteners can be used alone or in conjunction with adhesive on hollow rungs.

Installation Diagrams

Safety Underfoot

Walkway Cover Installation Over Diamond/Checker Metal Plate, Concrete or Wood



Vinyl Walkway Cover Installation



Leading Manufacturer of Anti-Slip Safety Products

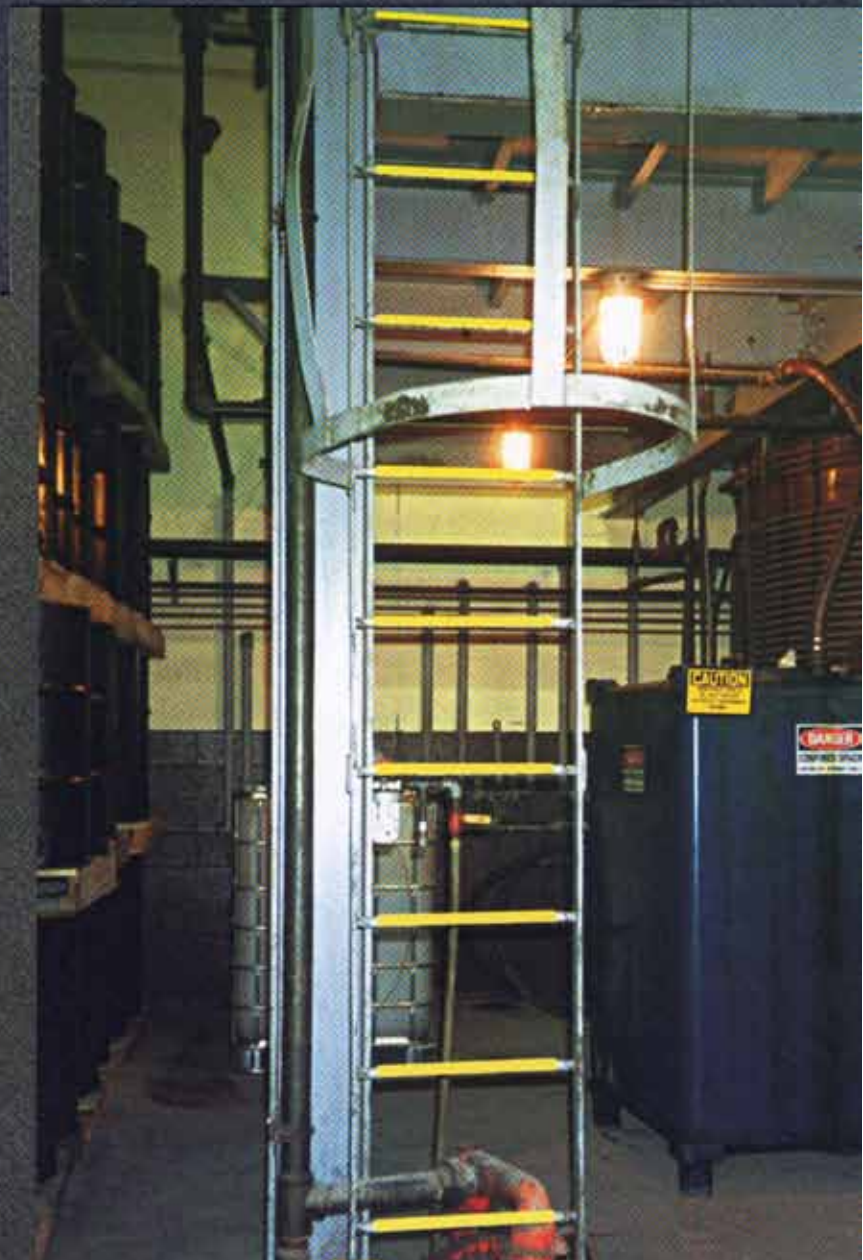
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INNOVATIVE PRODUCTS FROM AN INNOVATIVE COMPANY

SAFEGUARD Technology was founded in 1992 to address safety issues. We are the leading manufacturer and marketer of innovative slip prevention products. You will find our retrofit covers in a variety of commercial, industrial and residential applications where slips and falls are likely to occur.

Serving a growing customer base worldwide, our products are in use in North and South America, Europe, Australia, Asia, Africa and the Middle East.

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