

# SCOTGRIP® ANTI-SLIP SAFETY PRODUCTS

## Technical Data & Installation Instructions

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### Description

All Scotgrip® safety products incorporate the unique Scotgrip® anti-slip safety surface which gives a sound foot holding in the most extreme conditions. This surface is manufactured in 3 different grades: 'High Profile, Low Profile & Fine Profile'. This graded aggregate surface is manufactured with a reinforced composite base.

### Features:

- High traction anti-slip safety products
- Tough and durable
- Fire rated, spark and friction tested
- Eliminates 'Slips & Trips'
- Standard sizes and custom made
- Fully guaranteed
- Non corrosive
- Easy to fit

### Suitable surfaces for applications include:

- Stairways
- Walkways/decks
- Vertical ladders
- Open grating/grille
- Concrete
- Bridging pipes and cables
- Gangways
- Ramps
- Chequered plate
- Wood

### Manufacturer:

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All Scotgrip® anti-slip safety products are manufactured to the highest standards using highly compatible raw materials at our premises in Banchory, UK.

### Technical Data:

Description:	Anti-slip stair nosings, stair tiles, deck tiles, weld deck tiles, grating cover tiles, ladder rung covers, pipe/cable bridges, general purpose ramps, gangway treads.
Grades:	High Profile – 6mm aggregate (1/4" approx.) Low Profile – 3mm aggregate (1/8" approx.) Fine Profile – 1mm aggregate (1/16" approx.)
Standard Colours:	Safety yellow, black/yellow, black, green, grey, blue, red, white Fluorescent & Photo-luminescent finishes Other colours available – please ask.
Applications:	External/Internal
Sizes:	We have an extensive range of standard sizes & regularly manufacture custom sizes.

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- Friction Testing:** Tests carried out by Cranfield Aerospace. A value of 0.7 and above is classed as good and indicates the highest category for friction testing.
- High Profile – 0.81\*      \*All wet Grip Tester readings  
Low Profile – 0.86\*  
Fine Profile – 0.86\*
- Fire Ratings:** Tested to B.S. 476 – tests carried out by Warrington Fire Research SGS Yarsley.
- Spark Testing:** If Scotgrip® surfaces are struck with a metal object it does not produce enough energy to ignite a gas/air mixture – tests carried out by Warrington Fire Research SGS Yarsley.
- Quality:** All Scotgrip® anti-slip safety products are manufactured under BS EN ISO 9001:2000 Quality controlled conditions.
- Load Bearing:** Scotgrip® anti-slip nosings, tiles and treads are non-load bearing and must have a suitable underlying structure to be secured to.

#### Installation:

#### Personal Protective Equipment (PPE) required

All work places differ with regards to the use of PPE. Please wear the appropriate PPE required by your locations working regulations.

(e.g. boiler suit, safety boots, safety gloves, hard hat, hearing protection, safety glasses, high visibility work vest)

Primary Surface/Structure	Fixing Method
Open grating/grille	Scotgrip Type 'S' fixing (zinc plated or S/S) (comprises of M8 bolt, adjustable u-clamp & nyloc nut)
Steel/Aluminium plate	M8 bolt, nyloc nut & washer (zinc plated or S/S) Self tapping screw (zinc plated or S/S) Adhesives – recommended by Scotgrip
Concrete	Concrete hammer screw (galvanised or S/S) (various sizes)
Timber	Woodscrews (zinc plated or S/S)

*All fixings and adhesives are available ex-stock from Scotgrip (UK) Limited*

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#### Securing Scotgrip® anti-slip material to open grating/grille using Type 'S' fixings

1. Place the anti-slip material in the position required.
2. Put the bolt through the pre-drilled hole in the anti-slip material and through the grating/grille.
3. Place the u-clamp on the underside of the grating/grille and through the bolt.
4. Screw the nyloc nut onto the bolt and hand tighten it. Repeat this process with the remaining fixings on the piece of material you are working on to ensure all bolts have a proper seating.
5. Place a socket wrench or spanner onto the nyloc nut and at the same time place a variable speed drill with appropriate screwdriver bit onto the dome head of the bolt and slowly tighten the nyloc nut ensuring that the u-clamp remains fitted to the underside of the grating/grille.
6. Tighten the Type 'S' fixing until the anti-slip material is securely fixed to the grating/grille.

#### Securing Scotgrip® anti-slip material with concrete hammer screws

1. Place the anti-slip material in the position required.
2. Set-up drilling gauge to a depth of:  
40mm (1 9/32") - (HPS-1 6/5 x 30)  
50mm (2") - (HPS-1 6/15 x 40)
3. Use a 6mmØ (1/4"Ø) drill bit to drill holes in the concrete to the required depth.
4. Insert the concrete hammer screw through the pre-drilled holes in the anti-slip and into the drilled hole in the concrete.
5. Use a hammer to drive the fixings through until correctly seated.
6. The anti-slip material should now be secure.

Concrete hammer screw types:

- HPS-1 6/5 x 30 (30mm long) – 1 3/16" long
- HPS-1 6/15 x 40 (40mm long) – 1 9/32" long

We can supply other sizes if required.

#### Securing Scotgrip® anti-slip ladder rung covers with adhesive

The surfaces to be bonded must be dry, clean, free of any loose particles (e.g. flaked paint) and de-greased.

##### Application method (LRRCR – round)

1. Apply a generous bead to the inside of the ladder rung cover.
2. Immediately press the cover to the rung, then pull the cover away and leave both surfaces open for approx. 10-15 minutes – depending on temperature (this will achieve an adhesive transfer and allow quicker solvent evaporation)
3. The rung cover can then be placed into position and a contact bond achieved – leaving the rung covers for approx. 12 hours for maximum curing strength before being used.

##### Application method (LRCS – square)

1. Apply generous beads to the lengths of the inside corners of the ladder rung cover.
2. Immediately press the cover to the rung.

Data sheets are available for all adhesives purchased from Scotgrip (UK) Limited

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### Drilling Scotgrip® anti-slip material

Most Scotgrip® anti-slip safety products are delivered pre-drilled for speed of installation. If you need to drill holes in our products then please use the following guidelines.

1. Place the anti-slip material with the rough side down.
2. Mark out holes to be drilled.
3. Drill through the anti-slip material with an appropriate drill bit (see table below)
4. When using M8 bolts it is advisable to countersink the hole on the anti-slip surface with a 16mmØ (5/8"Ø) masonry drill bit. This allows for correct seating of the bolt.

Fixing type	Drill bit
M8 bolt	9mm Ø (3/8"Ø)
Concrete hammer screw	6mm Ø (1/4"Ø)
Self tapping/woodscrew	5mm Ø (3/16"Ø)

### Cutting Scotgrip® anti-slip material

1. Place the anti-slip material with the rough side down.
2. Mark out the area to be cut.
3. Cut the material with a cutting disc. If unable to use a cutting disc or there is no power available then a hacksaw can be used to cut the material.

### Cleaning Scotgrip® anti-slip material

Scotgrip® anti-slip safety products are easily cleaned. The frequency of cleaning will differ from location to location depending on the debris/dirt/grime levels in each working environment.

The following methods are advised:

1. Sweeping with a stiff bristle brush.
2. Applying 'rigwash' type de-greaser then sweeping with a stiff bristle brush.
3. Jet-washing the surface is the preferred method where possible.

#### For further advice or information please contact:

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