EdgeGrip Data Sheet

Specification notes

Product: **EdgeGrip**

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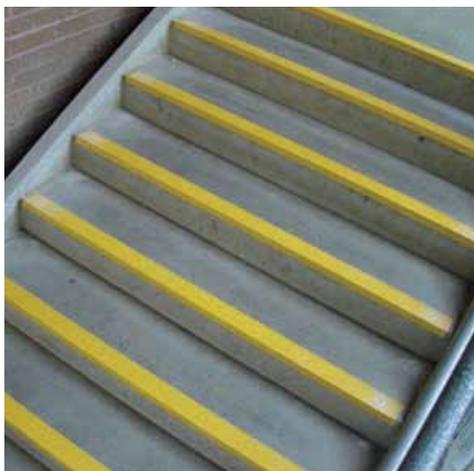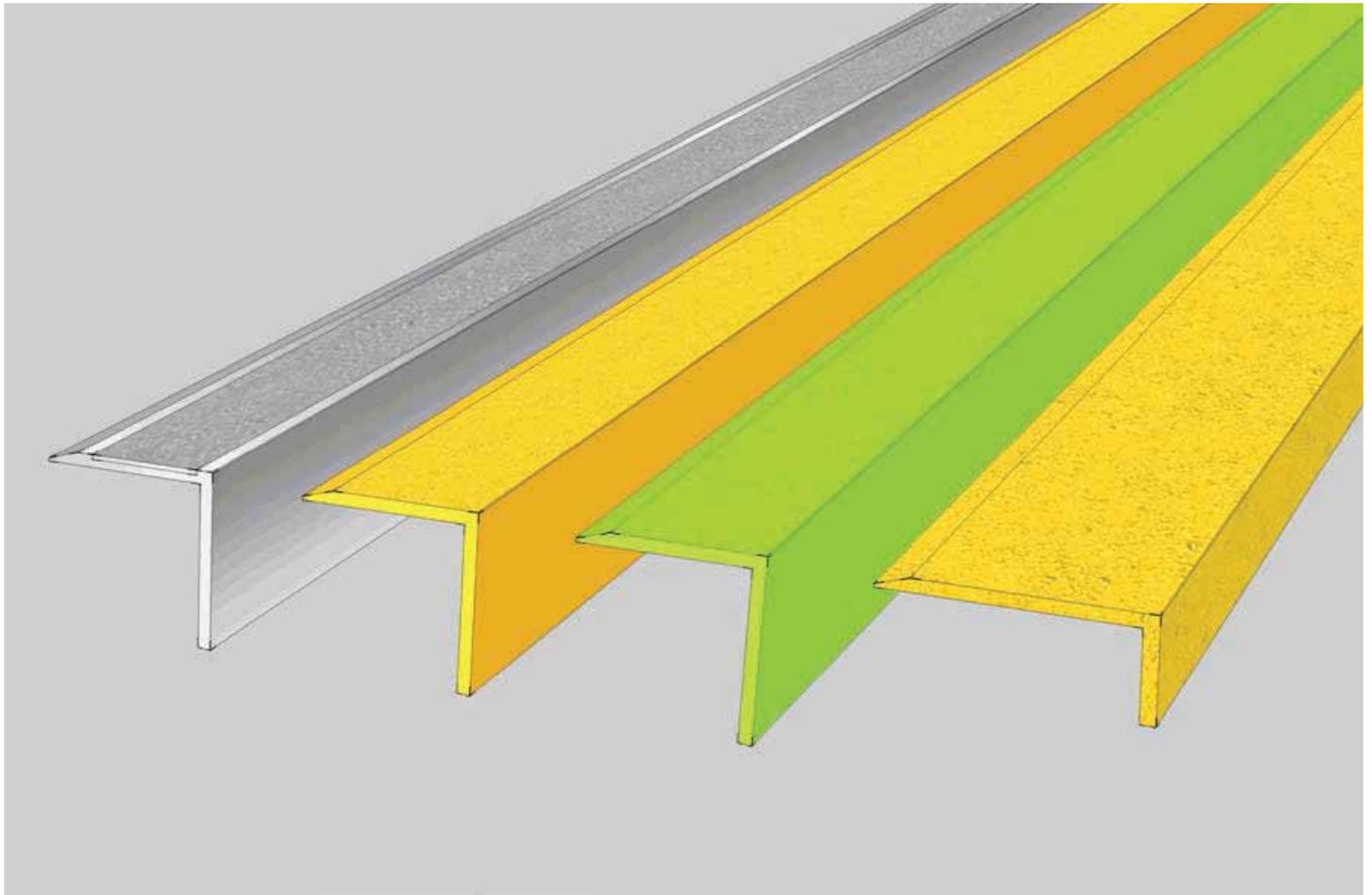**... for more information on our flooring and construction products**

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EdgeGrip Data Sheet

EdgeGrip Data Sheet & Installation Guide

EdgeGrip Standard
EdgeGrip Glow
EdgeGrip Ali

Description

EdgeGrip has been developed as a cost effective, long term solution to the obligations under the Disability Discrimination Act Part III and in particular, the sections relevant to the partially sighted. In order that the obligations are satisfied, in essence, all stairs accessible by members of the public, should have a contrasting coloured nosing fitted to the step edges and in addition, such nosings should provide a slip resistant top surface. EdgeGrip Standard is a preformed fibreglass nosing and EdgeGrip Ali is an aluminium profile with a fibreglass insert strip.

EdgeGrip Standard and EdgeGrip Ali Characteristics

Meets building regulations	Aids with DDA legislation
Slip resistant top surface	Impact resistant
Fire retardant option	Corrosion resistant
Lightweight	Non sparking (GRP)
Non metallic (GRP)	Tough and durable
Choice of colours	Choice of sizes
Quick installation	Manufactured to ISO 9001
Very little down time	Useable almost immediately

EdgeGrip Standard and EdgeGrip Ali Applications

High traffic areas	Spiral staircases
Fire escapes	Most staircases
External stairs (GRP)	Internal stairs
Platform edges	Kerb edges (GRP)

EdgeGrip Standard and EdgeGrip Ali Typical Technical Data

Description:	Slip resistant stair edge nosings
Top Finish:	EdgeGrip Standard and Glow: Antislip grit top surface. Internal grade, type 'I' External grade, type 'E' EdgeGrip Ali: type 'I' insert strip

Stock Colours

EdgeGrip Standard:	Yellow (LVR – 81), White (LVR – 86) and Photo Luminescent Glow (LVR – 58 (non glowing)
EdgeGrip Ali:	Silver (LVR – 33) or Yellow (LVR – 81) (LVR = Light Reflectance Values)
Thicknesses:	Nominally 3mm thick
Chemical resistance:	GRP - Made from ISO resin as standard. Different chemical resistance available, please call our technical department for advice.
Nosing sizes:	70x30mm x 3020mm (GRP) 55x55mm x 3020mm (GRP) 70x30mm x 2400mm (Ali) 55x55mm x 2400mm (Ali)
Nosing weights:	70x30mm x 3020mm: 1.8kg (GRP), 2400mm: 1.0kg (Ali) 55x55mm x 3020mm: 2.2kg (GRP), 2400mm, 1.2kg (Ali)
Tolerances (including cut):	+/- 3-4mm
Service temperatures: -	20 to 80°c
Load capabilities:	Credited with no load bearing strength (requires adequate substrate)

Design life:	10+ years (subject to traffic analysis)
General use:	Standard pedestrian traffic
Other info:	GRP made via pultrusion method Ali made via extrusion process

EdgeGrip Standard and EdgeGrip Ali Slip Resistant Levels

Measured using the Pendulum test method (WF rubber slider) – certificate available on request.

Top Surface	Dry Reading	Wet Reading
Type 'I'	67	62
Type 'E'	69	59

The UK Slip Resistance Group guide to slip resistance of a floor for able bodied pedestrians.

Four S Pendulum Value	Potential for Slip
Above 65	Extremely Low
35 to 65	Low
25 to 65	Moderate
25 and	Below High

To ensure that the above slip resistant levels are maintained the panels should be kept clean in accordance with the attached EdgeGrip Standard and Ali cleaning guide and tips.

Safety

When installing EdgeGrip Standard and Ali standard personal protective equipment should be worn as a minimum. These include 3M dust masks (or similar), safety goggles, heavy duty gloves and overalls. EdgeGrip Standard and Ali should be cut in a well ventilated area or close to extraction points. Dust residue can be disposed of using normal waste disposal methods. No special permissions or licences are required at the time of going to print.

Preparation

Ensure that the areas to have EdgeGrip Standard and Ali fitted are clean, dry and free from loose and friable material. Any "dished" or damaged surface areas should be patch repaired to provide a reasonably flat and consistent surface.

Dry fit all EdgeGrip Standard and Ali profiles to ensure they fit freely and that they sit flat down on the surface. If required, EdgeGrip Standard and Ali can be trimmed on site to suit, ideally using a skill saw with a 4mm diamond blade or an angle grinder with a 1mm blade (GRP) stardard metal blade (Ali).

Please ensure that goggles and gloves are worn at all times when any form of cutting is involved.

We recommend a double fixing method for installing the EdgeGrip Standard and Ali product. This consists of an appropriate high strength gap filling adhesive (Webgrip, supplied by us or similar) and mechanical fixings.

If mechanical fixings are not suitable for your particular application, a high strength gap filling adhesive can be used on its own but care should be taken to ensure EdgeGrip Standard and Ali is completely adhered to the substrate and regular checks should be made on the material. Ideally, we would recommend the use of a structural adhesive (Tremflex 50, supplied by us or similar) if you will not be using mechanical fixings.

Fitting the Nosings

The following assumes you are using the double fixing method, if not, simply follow the same instructions but without the mechanical fixing element.

All substrates: Apply an approx. 6mm bead (this may need to be increased dependant on the substrate conditions) of the high strength gap filling adhesive around the periphery of the underside of the EdgeGrip nosings approx. 25mm in from the edges. Then, starting from the bottom left corner come up at an angle (approx. 200mm across) and then down at an angle, to create a 'peak and a trough', repeat this until you reach the end (similar to the diagram below). Immediately press the panel firmly to the substrate to ensure adequate transfer of adhesive (depending on the size of the bead, this will elevate the sheet by approximately 1-1.5mm). A firm bond will be achieved in about one hour under normal circumstances and conditions. Secure with mechanical fixings, as below.

Screw Fixing: Drill two holes on each side of the EdgeGrip nosings on the top surface in the centre (grit surface), approximately 50mm in from the side, then approximately every 400-500mm. Dependant on the substrate it may be necessary to increase or decrease this spacing.

Applying to Substrate

Over Timber (or similar materials)

Step 1	Lay out all pieces of EdgeGrip material on the substrate upside down.
Step 2	Apply the adhesive as stated above. Turn the material over and secure to the substrate, applying body weight to expel any air.
Step 3	Mark EdgeGrip where holes are to be drilled, Using a 6mm masonry drill bit, drill through EdgeGrip only exposing the substrate.
Step 4	Using a 3.85mm drill bit, drill through the stair tread as stated above (for hard wood, you may need to pilot hole).
Step 5	Once all treads have been pre-drilled, using stainless steel screws (Stainless steel Pozi head 32mm x 4.2mm screws, supplied by us or similar), screw the material down and aim to make the screw fixings flush with the top surface.

Over Steel Checker Plate (or similar)

Step 1	Lay out all pieces of EdgeGrip nosing material on the substrate upside down.
Step 2	Apply the adhesive as stated above. Turn the material over and secure to the substrate, applying body weight to expel any air.
Step 3	Using a 3.85mm drill bit, drill through the EdgeGrip nosing and steel checker plate.
Step 4	Once all treads have been pre-drilled, using stainless steel screws (Stainless steel Pozi head 32mm x 4.2mm screws, supplied by us or similar), screw the material down and aim to make the screw fixings flush with the top surface.

Over Concrete / Ceramic

Step 1	Lay out all pieces of EdgeGrip nosing material on the substrate upside down.
Step 2	Apply the adhesive as stated above. Turn the material over and secure to the substrate, applying body weight to expel any air.
Step 3	Using a 6mm masonry drill bit, drill through the EdgeGrip nosing and into concrete.
Step 4	Push raw plugs into the 6mm drilled hole and tap to ensure that the raw plugs are flush with the substrate.
Step 5	Once all nosings have been pre-drilled, using stainless steel screws (Stainless steel Pozi head 32mm x 4.2mm screws, supplied by us or similar), screw the material down and aim to make the screw fixings flush with the top surface.

Over Open Mesh

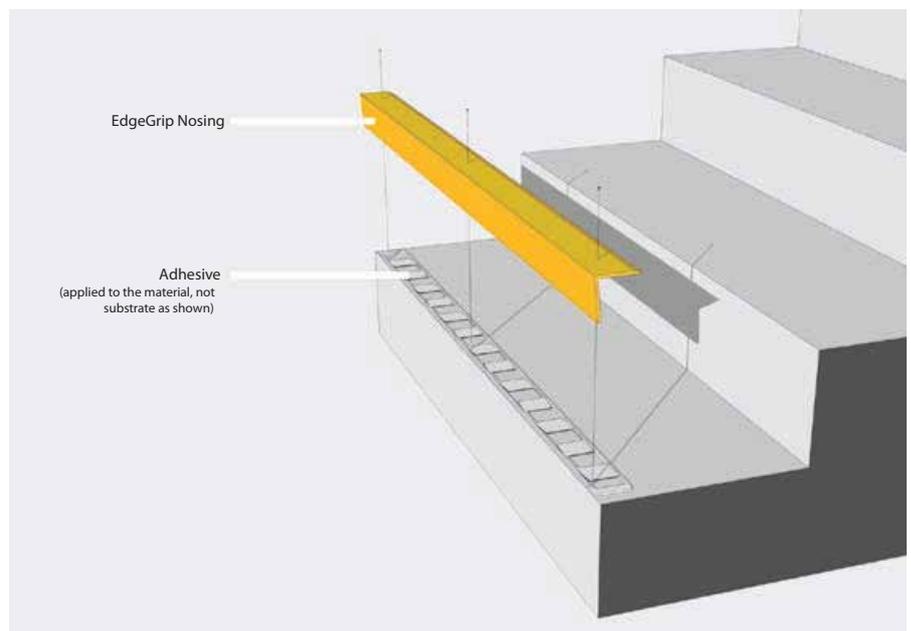|	
Step 1	To avoid hitting a load bar of the open mesh, place the EdgeGrip nosing on the open mesh area, then from underneath, mark where you want the fixing to go.
Step 2	Then using a 10mm drill bit, drill through the EdgeGrip and ensure it is in the centre of the open mesh.
Step 3	Once all treads have been pre-drilled, using 40mm dome head bolts (supplied by us or similar) push them through the pre-drilled holes.
Step 4	Using a 40mm diameter washer and a nylock nut, tighten up from underneath. (40mm diameter washer and nylock nut supplied by us or similar).

EdgeGrip Nosing

Adhesive
(applied to the material, not substrate as shown)

Image for illustration purposes only

EdgeGrip Standard and EdgeGrip Ali Cleaning Guide and Tips

Whilst EdgeGrip Standard and Ali is extremely resilient to dirt and contaminants, it can, as with most other things, become dirty. Dirt and debris can easily be removed using a stiff brush and should be carried out on a regular basis.

If EdgeGrip Standard and Ali has been subjected to spillages or the dirt has become embedded, detergents such as EdgeGrip Degreaser or similar can be used. It is always advisable to test any cleaning product on EdgeGrip Standard and Ali before starting the cleaning procedure. This can be done in an inconspicuous area of the installation or, if preferred, a sample can be sent, free of charge for testing purposes.

Using the detergent, warm water and a suitable brush, scrub the areas until clean. The excess water can be removed using a wet/dry vacuum cleaner or suitable absolvable materials.

Where circumstances allow, EdgeGrip Standard and Ali can be power washed without causing harm. Care should be taken when the EdgeGrip Standard and Ali has been stuck down and/or edge sealed as very high-pressure power washing or repeated power washing could cause damage to sealants and adhesives.

General Routine Maintenance

The security of the fixings/adhesive should be checked on a regular basis. Circumstances will vary, based upon the volume of foot traffic etc, but, as a guide, monthly inspections would be advisable.