

Installation Instructions For

Major Projects with On Site Cutting

F-Series Step Nosings

**(Includes cutting and installing of
G6-001 Step Edge Returns)**

Ecoglo markers are to be installed only where there will be sufficient natural or artificial light to keep them charged whenever the building is occupied.

If unsure, contact Ecoglo

Major Projects with On Site Cutting

F-Series Step Nosings

Materials Required

- Work benches up to 2.0m long
- Input/output benching or racks
- Tape measure/ruler/pencil
- Drop saw with high speed tungsten carbide tip blade (eg Sash Pro 250mm diameter, 80 tooth) mounted on bench with support arms/guides for extrusions, and adjustable end stops
- Guillotine - Hand Operated Plate Shears (Model: Opti PS150, seen over page, or similar)
- Brush and pan
- Methylated spirits and cloth
- String
- Battery drill
- 5mm drill bit
- Drill suitable for concrete substrate
- 6mm masonry drill bits
- Anchors (plugs) - 6mm x 30mm
- Würth KD Bond and Seal or Bostik Seal'n'Flex FC adhesive (expected usage 11 metres per 600 ml sausage) or similar quality polyurethane adhesive
- Caulking (adhesive) gun
- Nozzles for caulking gun
- Fixers - 8G x 32mm (and 6G x 25mm for G6-011)
- Hand press-roller
- Alcohol wipes

Major Projects with On Site Cutting F-Series Step Nosings

Cutting

1. Measuring the Nosing and Insert

- Measure the required length of the nosing and the insert.
- Mark the position on both pieces where you will cut.



2. Cutting the Nosing to Length

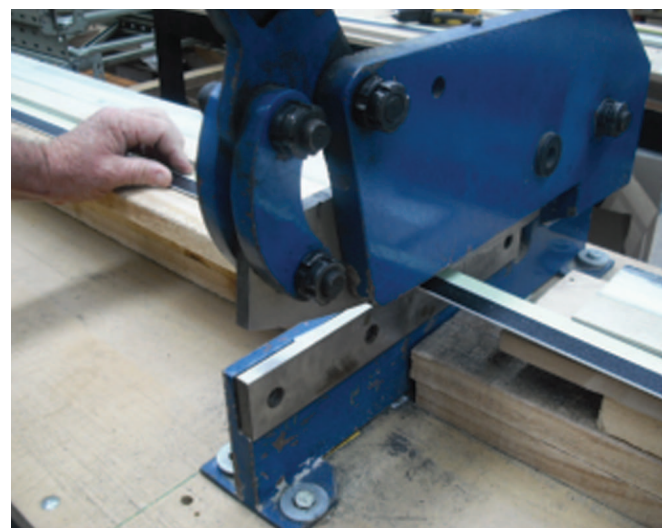
- Use the drop saw with a suitable tungsten carbide tip blade.
- Cut the nosing at the length measured.

NOTE: The maximum recommended length for installation in outdoor situations is 1.5 metres, with a minimum 3mm gap between lengths. This allows for thermal expansion in extreme weather conditions and also aids in water drainage off the step tread.



3. Cutting the Insert to Length

- Step edge contrast inserts contain silicon carbide grit that rapidly blunt high-speed saw blades, so a manual guillotine (as pictured below) is needed to cut the insert.
- Lay the insert strip, upside down, into the pre-cut nosing. Mark the insert strip for cutting.
- Remove the insert strip from the nosing and place into the guillotine. Use the guillotine to cut the insert - it is recommended that the inserts are always cut while upside down to eliminate potential bruising of the contrast strip.



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Installation

1. Preparation of Surface

- Brush the surface clean of dust and debris. If necessary, clean with an industrial cleaner.
- Remove any paint or sealant and then allow the surface to dry.
- It is better for adhesion if timber surfaces are dry.



Steps with exposed sides:

Ensure the nosing is set back from exposed side by at least 20mm to ensure the outer edge of the nosing does not present a sharp hazard.

Built-in steps, Installed outdoors:

Leave a 3mm gap between the nosing and the built-in sides, to allow for thermal expansion, and water drainage.

NOTE: The maximum recommended length for installation in outdoor situations is 1.5 metres. A 3mm expansion / drainage gap must be left between lengths.

2. Alignment (for installation onto more than one step)

- Place one piece of step nosing on the top step and one on the bottom step.
- Run a string line from the left edge of the top nosing to the left edge of the bottom nosing.
- This will give you a straight, true line.

NOTE: If Step Edge Returns are to be fitted ensure enough space is left either side of the nosing



3. Locating Holes for Fixers (for Timber skip to step 5)

- Place the nosing firmly against the riser of the step.
- Line it up with your string line.
- Mark the location of the drill holes with the drill.
- Remove the nosing.

NOTE: F15, F14 and F9 nosings come pre-drilled with holes every 100mm. You only require 4 fixers per metre. Where appropriate, fixers should be zigzagged across the pre-drilled holes to give maximum support to both sides of the nosing.

4. Drilling holes for fixers (for Timber skip to step 5)

- Using a 6mm masonry bit, and a concrete drill, drill the hole that will house the plastic anchor.
- Wipe away any dust or debris.
- Place the plastic anchor fully in to the holes.



5. Applying Adhesive

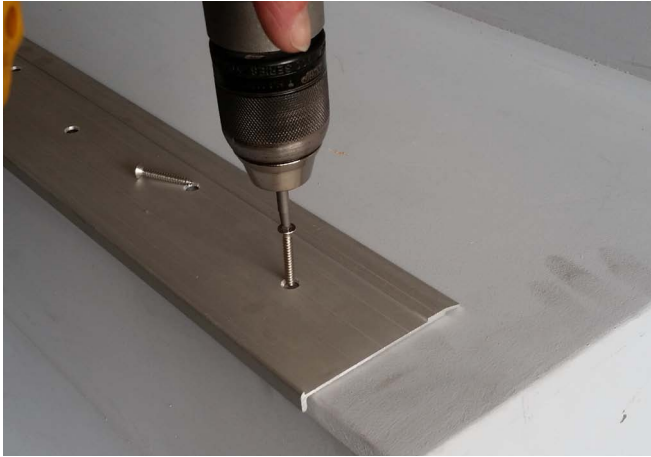
- Lay a 3mm bead of polyurethane adhesive (such as Wurth KD Bond and Seal or Bostik Seal n Flex FC) in a wave pattern over the full length of the underside of the nosing.
- Keep the adhesive clear of the outside edge and the drill holes.



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6. Securing the nosing profile

- Place the nosing firmly back onto the step, lining up the drill holes.
- Tighten the screws firmly using a battery hand drill- this will create a strong, even bond.
- For fixing on to wooden substrate follow the previous instructions but the plugs are not required.



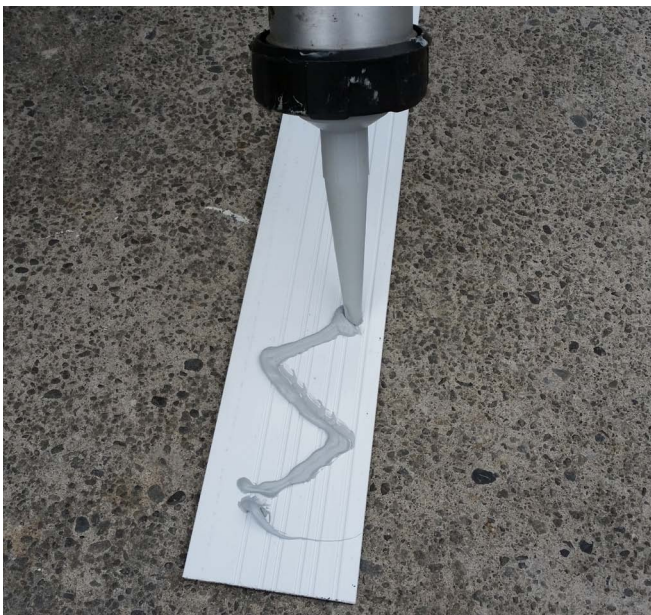
Adhesive Usage:

11 metres per 600ml sausage

Ecoglo supply screw fixers with all orders and can also supply Wurth KD Bond and Seal in 600ml Sausage form with Applicator Gun.

7. Fixing Insert Strip

- Check nosing extrusion channel is free from dust, dirt, grease and moisture.
- Dust or wipe with methylated spirits or damp cloth if required.
- Lay a zigzag of adhesive, 1mm deep, 3mm wide on to the strip.
- Ensure that you don't over apply adhesive as it will spill out once the insert is placed into the nosing.



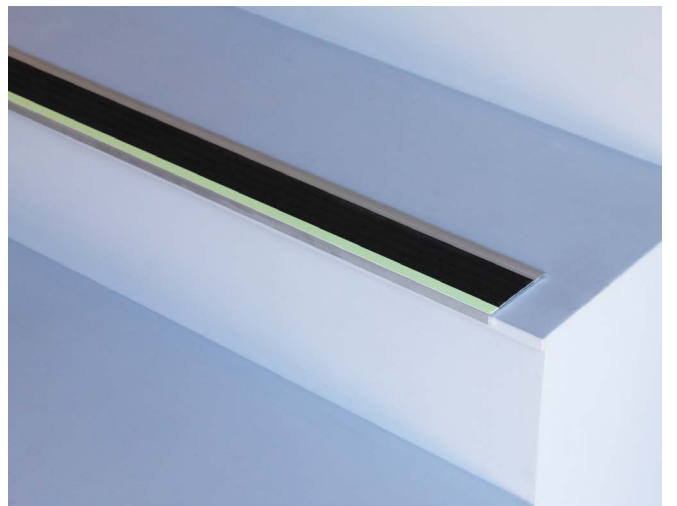
8. Insert strip into the nosing

- Line up the strip insert then place firmly onto the nosing.
- Press in place to ensure even contact between the adhesive and the surface of the channel.
- Use a roller or your foot to apply firm downward pressure.
- Use an alcohol wipe to remove any spill over of adhesive.



9. Curing of Adhesive

- Allow approximately 24 hours for adhesive to cure.



Major Projects with On Site Cutting

G6-001 Step Edge Returns

1. Measuring the Return

- Measure the required length of the returns.
- Mark the position on the strip where you will cut.

2. Cutting the Return to Length

- The Step Edge Return contains aluminium oxide that can blunt high-speed saw blades, so a manual guillotine is needed to cut the strip.
- It is recommended that the returns are always cut while upside down to eliminate potential bruising of the strip and to preserve blade life.

3. Drilling Holes for Fixers

A minimum of 2 fixers are required for each return

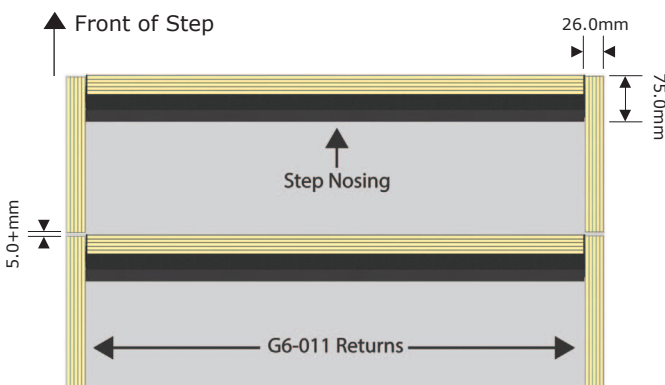
- Using a hand drill with a 5mm drill bit, drill a hole 10-25mm in from each end of each strip.
- In most cases 2 holes will be sufficient, however lengths longer than 350mm will also require a fixer in the middle of the strip.

Installation

Installation is a two-step process using adhesive and fixers.

1. Locating Holes for Fixers

- Place each piece at a right angle to the step nosing as in the diagram below.
- The outside edge of the return should be between 5-10mm from the outside edge of the step.
- Allow an expansion gap of at least 5mm with the riser of the step above.
- Mark the location of the drill holes.
- Remove the strip.
- Using a 6mm masonry bit and a concrete drill, drill the hole that will house the plastic anchor.
- Wipe away any dust or debris.
- Place the anchor fully into the holes.



The Step Edge Returns should be placed as above

2. Preparation of Return

- Clean back of strip with a soft cloth and if necessary use methylated spirits (or similar solvent) to remove oil or grease
- Allow to dry for approximately 1 minute.

3. Applying the Adhesive

- Apply a 3mm zigzag bead of polyurethane adhesive (such as Wurth KD Bond and Seal or Bostik Seal n Flex FC) to the back of the strip.
- Continue along the length of the strip.
- Keep the adhesive clear of the outside edge and the drill holes.

4. Placement of the Returns

- Place each piece as in the diagram at 1. ensuring the holes in the strip line up with the drill holes.

5. Apply Pressure to the Return

- Apply even pressure to spread the adhesive beneath the strip using a hand roller.
- If necessary stand on each strip to ensure good contact between the strip and the step.

5. Allow the Adhesive to Cure

- Immediately following installation close off the area for a period of 8 hours to avoid the Ecoglo strip being moved whilst the adhesive is in the early stages of "cure".
- Wait until adhesive has fully cured (allow at least 24 hours) before trimming any excess from each strip with a sharp blade.

6. Securing the Return

- Place a screw fixer into each hole and drill in securely using a battery drill.
- Do not fully tighten the fixers to avoid compressing the adhesive.