

HiGrade Heavy Steel Landscape Edging

Product Properties		HG3C/G/S/U	HG6C/G/S/U	HG8C/G/S/U	HG10C/G/S/U
Dimensions	Edging height	150mm	150mm	150mm	150mm
	Edging thickness	3mm	6mm	8mm	10mm
	Edging length	3000mm	3000mm	3000mm	3000mm
	Fixing stake length	450mm	450mm	450mm	450mm
Other	Material specification: steel	Corten A, Galvanised, Stainless, Untreated			
	Recycling	100% recyclable			

Product HG3 shown below in the four available types of steel.



Description

Flexible heavy duty steel edge for hard or soft landscape applications available in various thicknesses and four different types of steel: Corten A (C), Galvanised (G), Stainless (S) and Untreated (U). Powder coat finishes available on request.

Applications

To edge or demarcate most hard landscape surfaces. Also serves as a soft landscape edge restraint. Suitable for parks, playgrounds and around building perimeters. HiGrade edging has a high resistance to corrosive conditions in normal environments. It also has a high resistance to heat making it suitable for use with hot asphalt or tarmacadam.

Installation Information¹

Hard Landscape: By haunching the edging in a reasonably dry mix 3:1 sharp sand / cement. Secure using 450mm Fixing Pins.

Soft Landscape: By mounting the edging on compacted subsoil using 450mm Fixing Pins and backfilling with landscape surfacing. If required, intermediate supports such as small slabs or bricks can be inserted under the edging approximately every 1.5m.

Storage & Handling

The product is securely packed onto a wooden splint and sealed in clear plastic sleeving to ensure no movement of the product in transit. Depending on the size / weight of the consignment this may be palletised.

Whilst there is no specific weight restrictions on what is or is not safe to lift in manual handling, an assessment of the health and safety risks should be undertaken and measures taken to reduce the risk of injury so far as reasonably practicable.

The following guidelines may be useful:

- a) Each person should be fully trained in manual handling techniques.
- b) The use of handling aids such as a trolley, folk-lift, pallet truck or conveyor should be used if moving large volumes of cartons.
- c) Break up large consignments into more manageable loads.
- d) Ensure that the product is stored at a reasonable height, so avoiding the lifting of cartons from floor level or above shoulder height.
- e) Reduce carrying distances of cartons.

Protective Equipment

We recommend that PPE (Personal Protective Equipment) is used when installing HiGrade:

- a) Good strong safety boots/shoes to protect the feet.
- b) Protective eyewear such as safety glasses.
- c) Strong gloves to protect the hands.
- d) If using loud cutting equipment then ear plugs or defenders should be worn.

First Aid

The Health and Safety Regulations 1981 require all construction sites to have the following:

- a) A first aid box with enough equipment to cope with the number of workers on site.
- b) An Appointed Person to take charge of first-aid arrangements. The Appointed Person looks after first aid equipment and facilities and calls the emergency services when required. Appointed Persons do not need first aid training.
- c) A First-Aider who has undertaken training and holds an HSE approved qualification to administer first-aid. This means that they must hold a valid certificate of competence in either:
 - First aid at work (FAW) issued by a training organisation approved by HSE
 - Emergency first aid at work (EFAW) issued by a training organisation approved by HSE
 - A recognised Awarding body of Ofqual/Scottish Qualifications Authority.
- d) The number of first-aiders will depend on the site.
- e) Information should be clearly displayed on site telling workers the name of the Appointed Person(s) or First Aider(s) and where to find them.

Fire Protection

HiGrade edging is made using Corten A, Galvanised, Stainless or Untreated Steel, none of which burn nor pose a fire hazard.

Stability

Corten A, Galvanised and Stainless Steel are high performance materials that display excellent resistance to atmospheric corrosion when compared to other steels, making them exceptionally suitable for landscape edge restraint applications.

Corten A is a type of weathering steel which was developed to remove the need for regular painting and rust-prevention maintenance. This is achieved by the formation of a natural stable coating of dark brown oxidation across the metal's surface which acts as a barrier to the corrosive effects of rain, snow and other weather conditions.

Galvanised Steel is manufactured by coating hot-rolled mild carbon steel with a thin layer of zinc. This zinc layer provides a far greater level of protection against the elements than the steel alone and inhibits rust formation.

Stainless Steel is an alloy principally containing iron, chromium, nickel and various other elements in small amounts. The addition of chromium provides the alloy with a high degree of corrosion resistance, removing the need for regular painting and rust-prevention maintenance.

Untreated Steel has had no finish applied to the hot-rolled mild carbon steel product. As such, a protective coating of dark brown oxidation will form across the metal's surface which will act as a barrier to the corrosive effects of rain, snow and other weather conditions.

Environmental Issues

HiGrade is manufactured from either Corten A, Galvanised, Stainless or Untreated Steel and is 100% recyclable. As a result the whole life cost of steel HiGrade edging is excellent as it is sold for recycling not paid disposal. The principal element used in the production of steel is iron, which is second only to aluminium in terms of natural abundance in the Earth's crust. At current extraction rates there is enough iron to last another 1000+ years.

Supporting Documents

More information on the HiGrade products can be found at www.kinley.co.uk in the Resource Centre. In particular, look for the CAD Drawings, Installation Guide (IG-HG-0116) and Brochure (BR-EB-0116).

1. The *Installation Information* given in this document is intended as a guide only. We recommend that professional opinions are obtained before work is commissioned. Kinley Systems Ltd accepts no responsibility for any damage or loss as a result of using the *Installation Information*. We will be happy to engage in any discussion with regard to specific project applications.