

AluExcel Landscape Edging



Product Properties		AE18FM/RM	AE25FM/RM	AE40FM/RM	AE50FM/RM	AE65FM/RM	AE75FM/RM	AE100FM/RM	AE120FM/RM	AE150FM/RM	AE150EJFM/EJRM
Dimensions	Edging height	18mm	25mm	40mm	50mm	65mm	75mm	100mm	120mm	150mm	150mm
	Edging thickness (top bead)	5mm	5.5mm	6mm	6mm	6mm	6.5mm	6.5mm	7mm	8.5mm	8.5mm
	Edging length	2500mm	2500mm	2500mm	2500mm	2500mm	2500mm	2500mm	2500mm	2500mm	2500mm
	Edging foot width	30mm	45mm	45mm	45mm	45mm	70mm	70mm	70mm	70mm	70mm
	Fixing stake length	250mm	250mm	250mm	250mm	250mm	250mm	250mm	250mm	250mm	250mm
Costs	Typical install rate (linear metre per hour)	40-45 metres	40-45 metres	35-40 metres	35-40 metres	35-40 metres	35-40 metres	35-40 metres	35-40 metres	35-40 metres	35-40 metres
	Typical supply & installation cost (£ per metre)	£7.00	£10.00	£13.00	£14.00	£14.50	£16.50	£19.50	£24.00	£28.00	£28.00
Other	Available finishes	Mill finish									
	Material specification	6005 T6 hardened aluminium									
	Recycled content	Part recycled / 100% recyclable									

Description

L-profile aluminium edge restraint for hard landscape surfaces available in either Flexible (FM) or Rigid (RM) lengths in various heights and thicknesses. Flexible lengths shown in the images above. Powder coat finishes available on request.

Applications

To edge or demarcate asphalt, rubber coating and other hard landscape surfaces. Suitable for parks, playgrounds and around building perimeters. AluExcel uses Aluminium Alloy 6005 T6 which is a high performance alloy with a high natural resistance to corrosive conditions in normal environments. It also has a higher resistance to heat than other aluminium alloys making it suitable for use with hot asphalt or tarmacadam surfacing up to 180°C.

Installation Information¹

AE18FM/RM: By mounting on bitmac basecourse using proprietary masonry fixings.
All others: By mounting on compacted substrate (e.g. MOT Type 1) using 250mm steel Spiral Fixing Stakes. Other sub-base materials can be used – please contact our technical team to discuss.

A bedding layer of dry mix 3:1 sharp sand / cement is recommended to ensure continual support of the edge restraint. When mounting on existing asphalt or concrete, use masonry nails or screw and plug fixings.

Lengths can be joined using a Strip Connector fitted onto the inside face of the product, except AE150EJFM/EJRM, where the Strip Connector is used on the rear of the product (in situations where the outside surface is higher than the inside surface, leaving the inside face visible).

Storage & Handling

The product is securely packed in a single flute cardboard carton to ensure no movement of the product in transit and each carton is sealed with a fibre tape. 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.

Storage & Handling (continued)

The following guidelines may be useful:

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

Protective Equipment

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

- Good strong safety boots/shoes to protect the feet.
- Protective eyewear such as safety glasses.
- Strong gloves to protect the hands.
- 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 first aid box with enough equipment to cope with the number of workers on site.
- 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.
- 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.
- The number of first-aiders will depend on the site.
- 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

AluExcel is made using Aluminium Alloy 6005 T6 which does not burn and is not a fire hazard.

Stability

Aluminium Alloy 6005A T6 grade alloy is a high performance alloy. It has a higher degree of strength, durability and resistance to heat than the less robust 6063 grade alloy.

All building materials are eventually degraded by weathering, corrosion, rot and decay. Aluminium's natural ability to resist these influences better than many materials is one of its most widely appreciated features. Aluminium reacts with the oxygen in the air to form an extremely thin layer of oxide; this layer is dense and provides excellent corrosion protection, and is self-repairing if damaged. In its unprotected *'Mill Finish'* form aluminium is used very successfully for long-life everyday products making AluExcel exceptionally suitable for use as a commercial landscape edging system.

Environmental Issues

AluExcel is manufactured from recycled aluminium (80% recycled content minimum) and is 100% recyclable. As a result the whole life cost of aluminium edging is excellent as it is sold for recycling not paid disposal. The 20% virgin aluminium is blended with the recycled content to help achieve the proper chemical content for the alloy specification, which gives the specified mechanical properties for strength. Scrap aluminium is a valuable resource and can be recycled repeatedly.

There are plenty of raw materials for the production of aluminium. In a variety of forms, aluminium compounds make up a full 8% of the Earth's crust. Bauxite is the main starting point in the production of aluminium and given current rates of production there is enough bauxite to last another 200 to 400 years, this based upon no increases in the use of recycled aluminium and no further discoveries of bauxite. Furthermore the volume of aluminium being recycled is at a level where the requirement for virgin alumina is decreasing – further lessening the environmental impact.

Supporting Documents

More information on the AluExcel products can be found at www.kinley.co.uk in the Resource Centre.

In particular, look for the CAD Drawings, Installation Guide (IG-AE-0916) and Edging Book (BR-EB-0116).

1. The *Costs* and *Installation Information* given in this document are intended as a guide only. We recommend that formal quotations and 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.