

Raaft Planters Curved Planter Walls

Technical Datasheet

September 2021

Premium quality steel edging available in standard sizes suited to a wide range of designs, available in three different types of steel (Corten A, Galvanised and Stainless). Powder coat finishes are also available.

Panels can be pre-formed to curved designs.



PRODUCT INFORMATION

Dimensions	Maximum straight panel length	2980mm
	Maximum curved panel length	2980mm
	Maximum returns at corners	1000mm (for ease of transport)
	Height Range	To suit design (300-1500mm)*
	Steel thickness	6mm
Other	Material specification	Corten A, Galvanised, Stainless Steel or Powder Coated
	Corner types	Welded or bent
	Panel details	Single panel with straight and curved section permitted
	Recycling	100% recyclable

*Other heights can be achieved with bespoke planter walls – please discuss your requirements with the Raaft technical team.
Email - technical@raaft.co

APPLICATIONS

Suitable for roof terraces, parks, playgrounds and many other external spaces. Curved Planter Walls has a high resistance to corrosive conditions in normal environments..



FIND OUT MORE OR REQUEST A SAMPLE

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INSTALLATION INFORMATION¹

Height can be consistent or varied within each panel, but the bottom edge must always sit level (which will require a stepped foundation on sloped sites). Please discuss your project with the Raaft technical team to determine the most suitable installation method. No welding required.

General information can be found in the dedicated Installation Guide.

STORAGE & HANDLING

The product is securely packed 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:

- Each person should be fully trained in manual handling techniques.
- The use of handling aids such as a trolley, fork-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 Curved Planter Walls:

- 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

Curved Planter Walls are made using Corten A, Galvanised or Stainless Steel, none of which burn nor pose a fire hazard.

Corten A and Stainless Steel are high performance materials that display excellent resistance to atmospheric corrosion when compared to other steels, making them exceptionally suitable for bespoke planter 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.

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.



Pre-treatment tanks



Powder coating

Powder coating starts with shot-blasting of the steel which removes mill-scale, oxide dirt, oil and grease from the substrate; followed by a 7-stage zinc phosphate pre-treatment process for to prepare the surface. Zinc phosphate is used in the automotive industry and is therefore particularly suitable for products designed for exterior use. The product then receives the polyester



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powder coating to the requested colour. Polyester has excellent exterior durability and colour retention. Numerous colour options from world leading powder manufacturers are available. Powder coated products are carefully protected to avoid damage during transportation and installation.

An Anti-Graffiti finish is also available for powder coated surfaces. This is a clear top coat applied to weather resistant powder coating and provides a surface that allows easy cleaning of graffiti. More information on this is available upon request.

ENVIRONMENTAL ISSUES

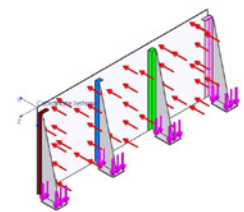
Curved Planter Walls are manufactured from either Steel, Corten A, Galvanised or Stainless Steel and is 100% recyclable. As a result the whole life cost of steel Kurve is excellent as it is sold for recycling not paid disposal. The principal element used in the production of steel is iron, which is second 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.

SHEET MATERIAL TOLERANCES

a) CorTen A steel materials class A EN10029

LOADING ANALYSIS²

It is assumed that the Soil has a density of approx. 18kN/m³. It is also assumed that the soil applies a load the footplates of the assembly. This load has been assumed to be applied via a 'wedge' of soil using an angle approx. 35 degrees. The results below have been tabulated for Soil load only and confirm the maximum deflection in the panel along a 1980mm length. The results also include the maximum loading received the fixing bolts as indicated.



PRODUCT	PLANTER HEIGHT	SUPPORT SPACING	SOIL LOAD	SOIL LOAD ONLY		
				MAXIMUM DEFLECTION IN PANEL	NUMBER OF REAR BOLTS IN FOOTPLATE	LOAD ON REAR BOLTS
Kurve	500mm	1000mm	2438 N/m ²	2.10mm	2	201 N
	750mm	800mm	3658 N/m ²	1.63mm	2	343 N
	1000mm	800mm	4877 N/m ²	2.37mm	2	505 N

Please note the above information is provided as a guide only. We recommend that professional opinions be obtained for construction projects prior to work being commissioned. Raaft Ltd accepts no responsibility for any damage or loss as a result of using the loading analysis. We will be happy to engage in any discussion with regards to specific project applications

SUPPORTING DOCUMENTS

More information on the Curved Planter Walls products can be found at www.raaft.co.

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