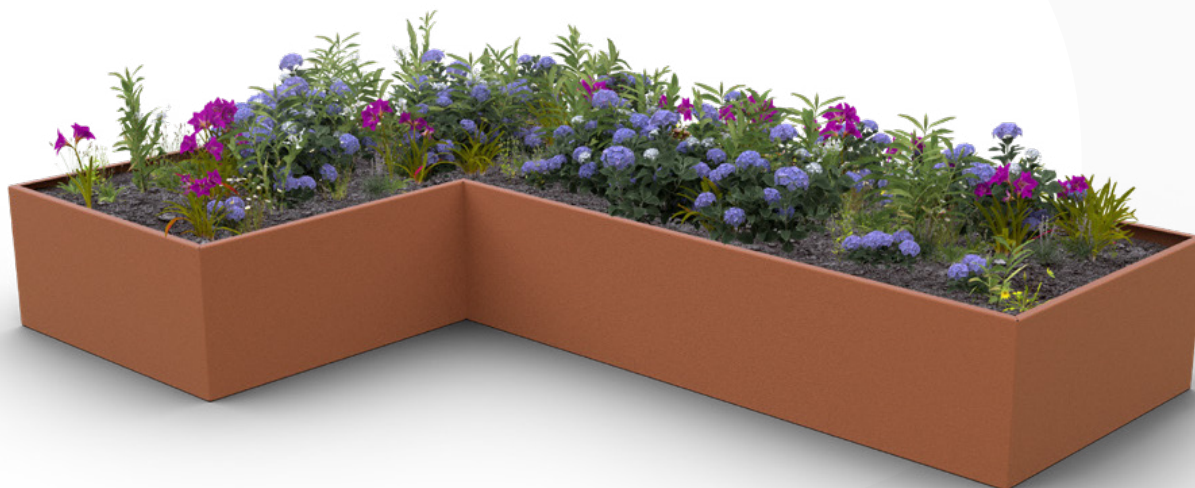


Planterline Straight Planter Walls

Technical Datasheet

Premium quality steel planter panels available in standard sizes suited to a wide range of designs, available in two different types of steel (Corten A and untreated mild steel). Powder coat finishes are also available.

Available in straight panels only.



PRODUCT INFORMATION

Dimensions	Maximum straight panel length	2980mm
	Maximum returns at corners	1000mm (for ease of transport)
	Height Range	300-1500mm*
	Steel thickness	3mm
Other	Material specification	Corten A, Galvanised, Steel
	Corner types	Folded (min + max)

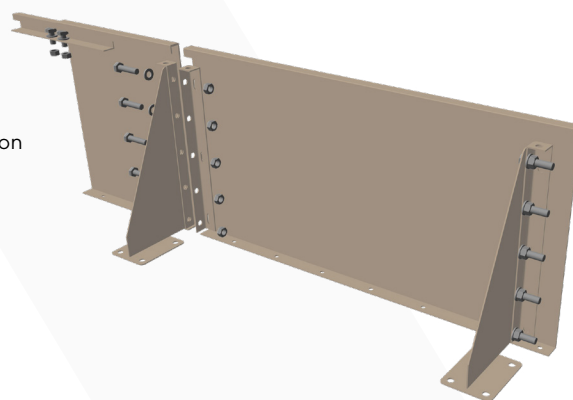
APPLICATIONS

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

INSTALLATION INFORMATION¹

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

General information can be found in the dedicated Installation Guide.



FIND OUT MORE OR REQUEST A SAMPLE

e: technical@raft.co

w: raft.co

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PROTECTIVE EQUIPMENT

We recommend that PPE (Personal Protective Equipment) is used when installing Planterline Straight Planter Walls:

- a) Good strong safety boots/shoes to protect the feet.
- b) Protective eyewear such as safety glasses.
- c) Strong gloves to protect the hands.

If using loud cutting equipment then ear plugs or defenders should be worn.

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:

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

FIRE PROTECTION

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

Corten A and Untreated 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.



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 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.



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ENVIRONMENTAL ISSUES

Straight Planter Walls are manufactured from either Steel, Corten A or Stainless Steel and is 100% recyclable. As a result the whole life cost of steel Skape 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

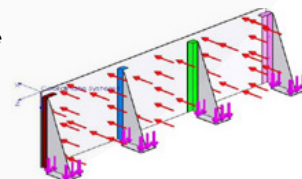
- a) CorTen A steel materials class A EN10029
- b) This confirms a thickness tolerance for 3mm of lower -0.4 to upper +0.8
- c) Sheet width tolerance for panels between 600 – 2000mm are + 20mm
- d) Sheet length tolerance for panels up to 4000mm are +20mm
- e) Flatness tolerance - the minimum yield strength of hot rolled CorTen A steel is 355 N/mm² which makes it steel type L. A 2000mm length has a flatness tolerance for 3mm thickness material of 14mm.

FABRICATION

- a) At fabrication stage the sheet is laser cut to length and height to the requirements of the project. The tolerance for a laser cut sheet is +/- 2mm
- b) The sheet is folded top and bottom to our design and all folds are subject to a tolerance of +/- 2mm – the folds will only ever improve the flatness of the sheet
- c) Vertical brackets are welded to the back of the panel – again these brackets will only ever improve the flatness of the sheet
- d) The 2mm tolerances mentioned above are included on our production drawing

LOADING ANALYSIS ²

It is assumed that the Soil has a density of approx. 18kN/m³. It is also assumed that the soil applies a load to the footplates of the assembly. This load has been assumed to be applied via a 'wedge' of soil using an angle of 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 by the fixing bolts as indicated.



PRODUCT	PLANTER HEIGHT	SUPPORT SPACING	SOIL LOAD	MAXIMUM DEFLECTION IN PANEL	SOIL LOAD ONLY	
					NUMBER OF REAR BOLTS IN FOOTPLATE	LOAD ON REAR BOLTS
Skape	500mm	1000mm	2438 N/m ²	1.08mm	2	257 N
	750mm	800mm	3658 N/m ²	2.53mm	2	332 N
	1000mm	800mm	4877 N/m ²	3.86mm	2	672.5 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. Raft 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.



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IMPORTANT

Planters which are filled with soil, are deemed to be practically complete.

Any issues raised with planters, should be raised before filling with soil, as this vastly restricts the possibility of them being adjusted.

SUPPORTING DOCUMENTS

More information on the Straight Planter Wall products can be found at raaft.co.

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. Raافت 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.
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