

Street Design Limited

Unit 35
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Barrow upon Soar
Leicestershire LE12 8LD

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Email: sdl@street-design.com
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STRATUM Versatile planter



As UK based, designers and manufacturers, Street Design can manufacture and supply the Stratum versatile aluminium planters, to suit your specific requirements.

The flexible design, allows you to create long, linear planters, large units or smaller individual containers.

Choose from a range of accessories to ensure that the Stratum planters are manufactured to suit your specific scheme.

Stratum planters are suitable for:

- Modular planters
- Roof garden planters
- Tree planters
- Movable planters

Planters & Planters with Benches

Product details

Product Specification

Accessories

Watering Systems

Adjustable Feet

Material Finishes

Material Specifications

Care & Maintenance



Stratum versatile planters with optional Bexley planter benches

STRATUM

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PLANTERS & PLANTERS WITH BENCHES

Other sizes and shapes available



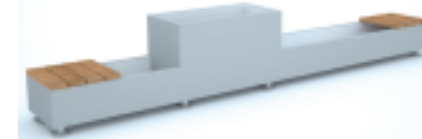
3VPSR 04
Square planter

Length: 1200mm
Width: 1200mm
Height: 900mm
All other sizes available



3VPSR 21
U shaped planter

Length: 7000mm
Width: 3000mm
Height: 900mm
All other sizes available



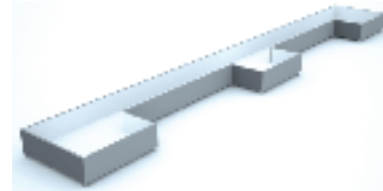
3VPSR 26
Planter with benches

Length: 4800mm
Width: 600mm
Height: 900mm
All other sizes available



3VPSR 11
Rectangular planter

Length: 2000mm
Width: 1000mm
Height: 900mm
All other sizes available



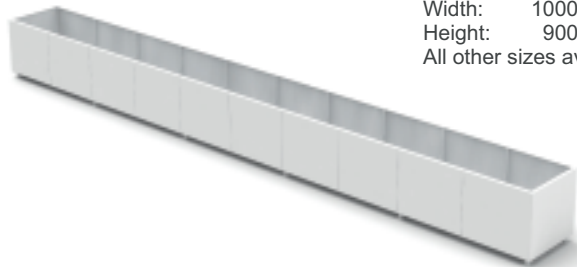
3VPSR 22
Large shaped planter

Length: 14000mm
Width: 2000mm
Height: 500mm
All other sizes available



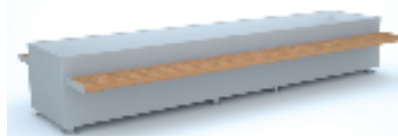
3VPSR 27
Planters with bench

Length: 7650mm
Width: 1075mm
Height: 900mm
All other sizes available



3VPSR 13
Long planter

Length: 10000mm
Width: 1000mm
Height: 900mm
All other sizes available



3VPSR 23
Planter with benches

Length: 5000mm
Width: 1900mm
Height: 900mm
All other sizes available



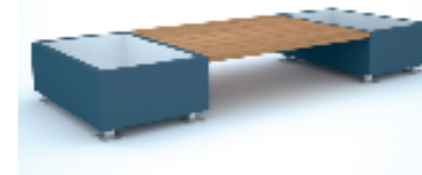
3VPSR 28
Planters with benches

Length: 5229mm
Width: 1084mm
Height: 450mm
All other sizes available



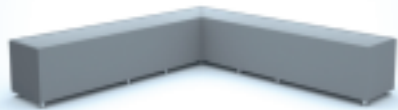
3VPSR 24
Planter with bench top

Length: 2000mm
Width: 1920mm
Height: 445mm
All other sizes available



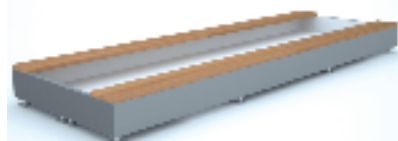
3VPSR 29
Planters with bench

Length: 3200mm
Width: 1230mm
Height: 450mm
All other sizes available



3VPSR 20
L shaped planter

Length: 5000mm
Width: 5000mm
Height: 900mm
All other sizes available



3VPSR 25
Planter with benches

Length: 6000mm
Width: 2000mm
Height: 445mm
All other sizes available

STRATUM Versatile planter



PRODUCT DETAILS

General

The Stratum modular external planter, is a multi-use, all metal planter, available in a range of sizes to suit your scheme and budget. Planters up to 2.8 x 2.8m plan size can be delivered fully assembled ready for planting. Larger planters can be manufactured in sections and delivered for assembly on site. Shaped planters can be manufactured and supplied including:- square, rectangular, L shaped, U shaped and Z shaped planters. A number of planter accessories are available to ensure that the Stratum planter is suitable for your specific scheme.

With Standard base (for long and narrow planters)

The Stratum, modular metal planter, is constructed by fixing an aluminium planter body to a timber base. The planter modules are manufactured in sections for bolting together to create large, long and shaped planters. The planter base is constructed using 45x45mm FSC® certified treated redwood with 12mm Marine grade plywood. The module is strengthened using cross brace straps or brackets. When fully constructed, the base of the planter is fully lined with a geotextile lining which allows water to drain through whilst retaining the soil fines.

Standard base



45x45mm FSC® certified treated redwood frame with 12mm Marine grade plywood

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With optional base (for tree and movable planters)

The Stratum metal planter, is constructed by fixing an aluminium planter body to a fully welded mild steel base frame. The internal base is constructed using 75x50x6mm mild steel angle. The planter walls are strengthened using 50x10mm cross brace straps. FSC® certified treated Eucalyptus plywood sheeting is laid onto the base. Planter feet are fitted to the underside of the base frame, to ensure that the load is safely transferred to the ground. When fully constructed, the base of the planter is fully lined with a geotextile lining which allows water to drain through whilst retaining the soil fines.

Leg types available

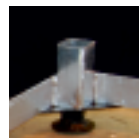


Standard base has no legs
Base sits on level ground



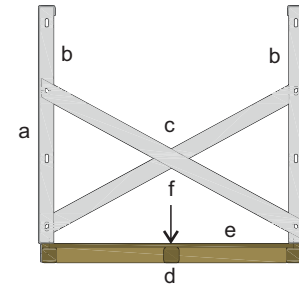
Optional base with 50x50mm mild steel SHS legs

Extra cost option adjustable feet for optional base



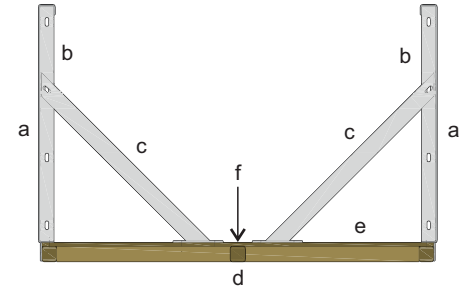
M30 adjustable legs are fitted mild steel brackets that are welded to the optional galvanised mild steel base

Section thro' planters with standard base



Section thro' narrow planter

for long narrow planters installed on level ground or roof gardens



Section thro' wide planter

for long wider planters installed on level ground or roof gardens

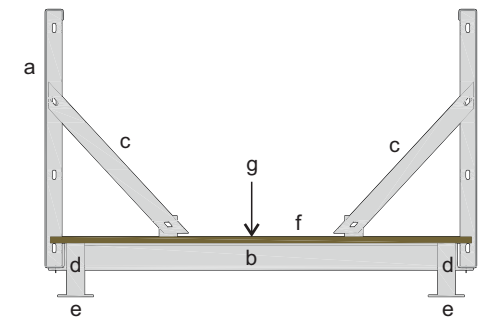
Key

- a - 4mm Aluminium
- b - 4mm Aluminium
- c - 50x10mm galvanised mild steel straps
- d - 45x45mm FSC® certified treated redwood
- e - 12mm Marine grade plywood
- f - Geotextile membrane filter lining

Key

- a - 4mm Aluminium
- b - 4mm Aluminium
- c - Galvanised steel bracket
- d - 45x45mm FSC® certified treated redwood
- e - 12mm Marine grade plywood
- f - Geotextile membrane filter lining

Section thro' planters with optional base



Section thro' planter with optional base

for free-standing tree and movable planters

Key

- a - 4mm Aluminium
- b - 75x50x6mm mild steel angle
- c - 50x10mm mild steel straps
- d - 50x50x3mm mild steel SHS legs
- e - 100x100x5mm mild steel planter foot plate
- f - 18mm FSC® certified treated Eucalyptus plywood
- g - Geotextile membrane filter lining

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PRODUCT SPECIFICATION

Technical information		
Material		
Planter walling	4mm thick aluminium sheet	
Planter walling finish	Polyester powder coated	
Standard base construction		
Standard base frame material	45x45mm FSC® certified treated redwood	
Standard base frame finish	Natural	
Standard base floor	12mm thick Marine grade plywood	
Optional base construction		
Optional base frame material	75x50x6 angle, 50x50x3 SHS and 100x5mm flat mild steel	
Optional base frame material	Hot dip galvanised	
Optional base floor	18mm thick FSC® certified treated Eucalyptus plywood	
Optional base leg (leg with footplate)	50x50x3 SHS and 100x5mm flat mild steel	
Optional base leg (plinth with footplate)	75x50x6 angle and 100x5mm flat mild steel	
Accessories	Adjustable feet	Base skirting boards
	Tree anchor fittings	Trellis panels
	Bench seating	Pergola structures
	Watering systems	Inner tower planters
Guarantee	All planters are guaranteed for 15 years minimum	
Standard planter heights	500mm	900mm
Other heights available on request		
Standard planting depths	413mm	813mm
Weights		
Walling panels	11 kgs / linear m	19 kgs / linear m
Standard timber base	28 kgs / m ²	28 kgs / m ²
Optional mild steel base	45 kgs / m ²	45 kgs / m ²
Light fill material can be based on:	1000 kgs / m ³	
Heavy fill material can be based on:	2000 kgs / m ³	

Construction

All Street Design products are designed and manufactured using only quality, durable materials, construction details and fixings, to provide a long-lasting, durable life expectancy.

Assembly

Planters up to 2.8 x 2.8m can be delivered to site fully assembled for off loading and positioning on site. Planters larger than 2.8m can be supplied in sections for bolting together on site.

Materials (Standard construction)

4mm Aluminium sheet.
 45x45mm treated redwood and Marine grade plywood.
 All mild steel fixings will be M10 size and have a bright zinc plated finish.
 Planters will be fitted with a geotextile filter fabric lining, which allows the water to drain through the planter, while retaining the fill material.

Materials (Optional base construction)

Mild steel angle, flats and hollow section.
 FSC® certified treated Eucalyptus plywood.
 All mild steel fixings will be M10 size and have a bright zinc plated finish.
 Planters will be fitted with a geotextile filter fabric lining, which allows the water to drain through the planter, while retaining the fill material.

Standard finish

The aluminium planter walling will have a polyester powder coated finish. The standard timber base will have a natural finish. The optional mild steel base frame will have a galvanised finish.

Options

Stratum planters are manufactured to order.
 Before we can manufacture the planters, we need to know the following:

- plan size of planters
- heights of planters
- details of accessories required

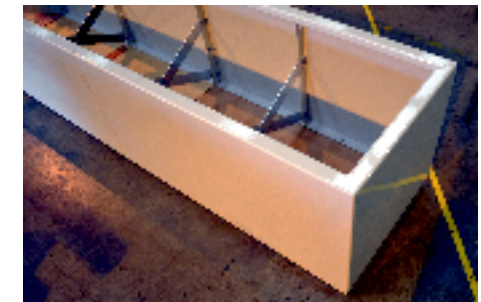
Accessories

To enhance your Stratum planter and create a product that is suitable for your specific application, you can add from a range of planter accessories.

- Adjustable feet
- Watering system
- Integral bench seating
- Inner tower planters
- Base skirting
- Pergola structures
- Trellis panels
- Plaques

Timber policy

All treated softwood planters are manufactured using materials obtained from growers who operate under the Forest Stewardship Council® (FSC®)
 All iroko hardwood planters are manufactured using materials obtained from growers who operate under the Forest Stewardship Council® (FSC®)



Stratum planter with standard base construction

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ACCESSORIES

Stratum modular planters can be manufactured and supplied to include a range of optional accessories. Planters can incorporate; adjustable feet, tree anchor fittings, base skirtings, watering systems, bench seating, inner tower planters, LED lighting, pergolas and trellis panels.

Adjustable feet

Stratum planters can be manufactured with optional adjustable feet to allow the planter to be height adjusted to ensure that the top of the planter is level. The adjustable feet, allow the planter to be levelled after relocation. See separate page for Adjustable Feet details.

Watering system

Stratum planters can be supplied with a choice of 2 watering systems. Street Design can supply either a reservoir system, with filler pipe or the Mona, subterranean tank system. See separate page for Watering System details.

LED lighting

Stratum planters can be supplied with apertures cut into the sides of the planters or we can add timber bearers or metal brackets to accommodate your specified LED lighting products. Please contact the sales office to discuss your specific requirements.

Tree anchor fittings

Stratum planters can be fitted with galvanised mild steel tree anchor points. They can be fitted at the bottom of the planter to help support the root ball and they can be fitted at the top of the planter to help provide support for the tree. The tree anchors are manufactured using 25x5mm mild steel flat. They have two punched slots and are fitted to the projecting bolt ends on the inside of the planter. The tree anchors are hot dip galvanised.

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Pergola structures and trellis panels

Pergola structures and trellis panels can be integrated into the planter construction. Pergolas and trellis allow high level planting and create shading for seating areas.

Bench seating

Integral planter benches, with or without armrests, can be supplied with Stratum planters. As standard 2 bench designs are available. Other designs can be included upon request. The Bexley bench consists of 4 no. 70x45mm timber slats and the Henley bench has 2 no. 145x45mm wide bench slats. The timber slatted benches bolt onto galvanised mild steel brackets, attached to the planter sides. Benches can be fitted to 1, 2, 3 or 4 sides to suit your requirements. The choice of material and finish is the same as for the planter. As standard the brackets will have a galvanised finish. As an optional extra, they can be polyester powder coated.



Optional Bexley planter bench



Optional Sheldon planter bench



Planters with optional Mona watering system



Optional aperture for LED light fitting

Bench configurations for square and rectangular planters



bench on 1 side



bench on 2 sides opposite



bench on 2 sides adjacent



bench on 2 sides adjacent (mitred)



bench on 3 sides



bench on 3 sides (mitred)



bench on 4 sides



bench on 4 sides (mitred)

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WATERING SYSTEMS

Watering System 1 - Street Design reservoir system

The Street Design watering accessory is a reservoir system with hydroleca sacks, that maximises the available water.

The system ensures the optimum use of the water and nutrients, delivering the maximum quantity directly to the roots of the plants, resulting in improved root development and optimal plant growth.

General

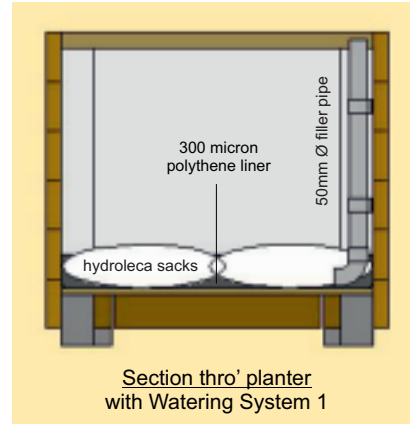
The system consists of a 300 micron thick black polythene liner, hydroleca (pulverised ash granules) sacks and a rigid plastic filler pipe.

The system delivers water directly to the roots via 50mm diameter, rigid plastic pipe, eliminating water wastage. This encourages deep root growth, improving long term drought resistance. The high level filler pipe provides an easy access point for watering and soluble fertiliser application.

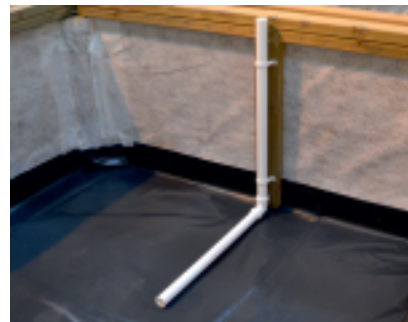
Installation

Planters are supplied with the Water System 1 already installed.

Ensure the hydroleca sacks are in the correct position. They will move during transportation. Check that all the plastic pipe connections are properly fitted. The planter is ready for drainage material, filling and planting.



Section thro' planter with Watering System 1



Polythene liner with filler pipe



Hydroleca sacks laid out in base of planter

Watering System 2 - MONA subterranean tank system

Mona watering system

Factory fitted into planter / tree container

The Mona Plant System (MPS) is an advanced, well proven and easy to use subterranean irrigation system. It is the cost effective and environmentally friendly solution for both interior and exterior landscaping.

The Mona Plant System ensures that the water and nutrients are delivered in the right quantity to the root of the plants, resulting in improved root development and optimal plant growth.

General

The system consists of storage tanks, flexible linking pipes and a flexible filler pipe with filler pipe cap. The system delivers water directly to the roots via capillary action, eliminating water wastage. This encourages deep root growth, improving long term drought resistance. The cap and lid provides an easy access point for watering and soluble fertiliser application.

Factory installation

All necessary water tanks, pipes, end caps and air pipes with level indicator, are factory fitted into the planters / tree containers, prior to delivery.

Filling planters

Ensure that the distance between the top of the link tank and the lowest part of the root does not exceed 150mm.

For full details visit: www.green-tech.co.uk



Water storage tanks and filler pipe



Planter ready for soil and planting



Completed planter

STRATUM Versatile planter



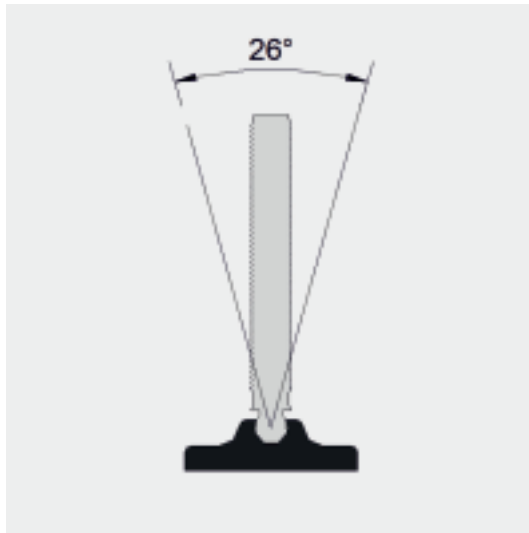
ADJUSTABLE FEET

General details

As an extra cost option, Street Design planters can be supplied with adjustable feet. They allow the planter to be levelled, before filling and planting.

Adjustable feet are particularly useful if the planters are likely to be relocated to a new position.

The adjustable foot screw fits into a hex nut, located on the underside of the planter base.



Specification

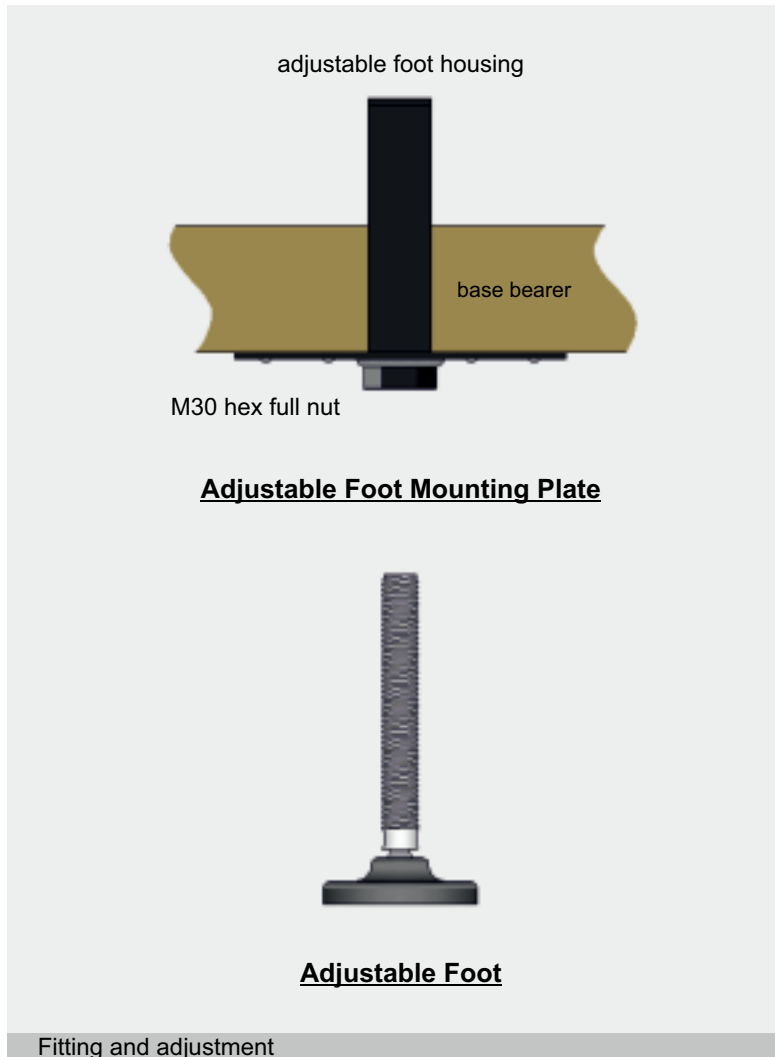
The adjustable foot comprises of a M30 Ø threaded bar, with spherical end section, press fitted into a black reinforced polyamide base. The swivel base can tilt through 360° to accommodate sloping ground levels. The threaded bar is BZP (bright zinc plated) treated.

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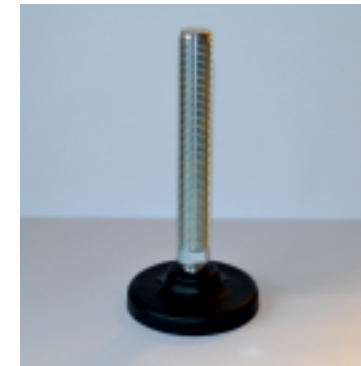
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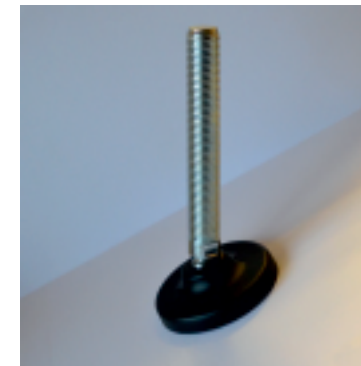


The M30 adjustable foot with swivel base, is screwed into adjustable foot mounting plate.
The mild steel mounting plate with adjustable foot housing, is fixed to the underside of the planter base.
A M30 hex full nut is welded to the underside of the mounting plate.
The adjustable foot is adjusted with a 26mm wrench.



Base diameter

M30 adjustable foot with swivel base.
The base diameter is 122mm.



Swivel base

The swivel base can adjust to allow for sloping ground with a fall of up to 1 in 2.06 (26°).



Bolt down base

For extra security, it is possible to drill and bolt through the base of the adjustable feet.

STRATUM

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MATERIAL FINISHES

The Stratum sheet metal planter, comprises of a fully welded aluminium planter body bolted onto a timber or mild steel base frame.



Stratum versatile planter with optional galvanised mild steel base with legs

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Standard finishes

Aluminium standard finish

As standard, the Stratum aluminium planter body will be supplied with a black, satin gloss level polyester powder coated finish.

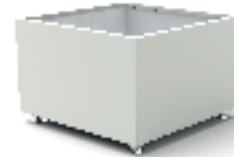


RAL 9005 black

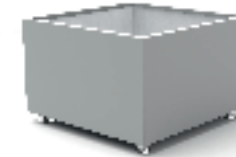
Optional finishes (at extra cost)

Aluminium optional finish

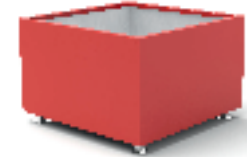
As an extra cost option, the Stratum aluminium planter body can be supplied with the following polyester powder coated RAL colours.



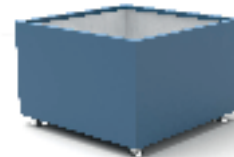
RAL 9002 Light Grey



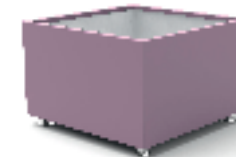
RAL 7036 Mid Grey



RAL 3020 Red



RAL 5010 Blue



RAL 4001 Red lilac

other colours available on request

Standard base

The standard timber base is suitable for installations on level ground.



45x45mm FSC[®] certified treated redwood frame with 12mm Marine grade plywood

Optional mild steel base standard finish

The mild steel base frames will be supplied with a hot dip galvanised finish.



The Stratum planter base frames are supplied with a hot dip galvanised finish (bases shown here are for planters with optional adjustable feet)

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MATERIAL SPECIFICATION

Standard planter and base

Aluminium planter walling

4mm thick aluminium sheet

Internal cross brace straps

50x10mm mild steel flat

Fixing bolts

M10 x 30mm hex head bolts, bright zinc plated.

Base frame

45x45mm FSC® certified treated European redwood.

Base floor

12mm Marine grade plywood.

Internal lining

Geotextile filter fabric membrane.

Optional base (for movable planters)

Base frame

75x50x6mm mild steel angle.

Internal cross brace straps

50x10mm mild steel flat.

Fixing bolts

M10 x 30mm hex head bolts, bright zinc plated.

Base frame legs

50x50x3mm mild steel SHS.

Leg baseplate

100x100mm plate x 5mm thick

Base floor

18mm FSC® certified Eucalyptus treated plywood.

Internal lining

Geotextile filter fabric membrane.

Optional planter accessories

Adjustable feet

M30 adjustable feet with swivel base. See Adjustable Foot page for full details.

Tree anchors

25x5mm mild steel flat, hot dip galvanised.

Watering system

Choose either the Street Design reservoir system or the Mona tank system. See Watering System page for full details.

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Optional planter accessories continued

Planter benches

Stratum planters can be supplied with integral planter benches in a variety of materials. The bench slats can be supplied in FSC® certified treated European redwood or FSC® certified iroko hardwood, mild steel or stainless steel. The slats will be bolted to either hot dip galvanised mild steel or stainless steel bench brackets.

Movable planters

Stratum planters can be manufactured with an integral mild steel frame allowing them to be moved when planted.

Pergola structures

Pergola structures can be manufactured as an integral part of the planter construction. The steel frame can be extended to carry the upper horizontal 145x45mm section timber bearers and cross bearers.

Trellis panels

Trellis panels can be manufactured as an integral part of the planter construction. The steel frame can be extended to carry the horizontal and vertical trellis timber slats.

Inner tower planters

Stratum planters can be supplied with co-ordinating inner tower planters to create feature planting or tiered planting.

Material samples

Material samples are available on request.

Guarantee

All planters are guaranteed for 15 years minimum. This guarantee is a minimum and is dependant on the product not being misused or abused. All the materials, treatments and construction will allow for a life expectancy considerably longer than this.

General specification

Construction

All Street Design products are designed and manufactured using only quality, durable materials, construction details and fixings, to provide a long-lasting, durable life expectancy.

Assembly

Stratum planters up to 2.8 x 2.8m will be delivered to site fully assembled for off loading and positioning on site. Planters larger than 2.8m will be supplied in sections for bolting together on site.

Timber policy

All treated softwood products are manufactured using materials obtained from growers who operate under the Forest Stewardship Council® (FSC®).

All iroko hardwood products are manufactured using materials obtained from growers who operate under the Forest Stewardship Council® (FSC®).

Materials

Hardwood products are constructed using FSC® certified iroko hardwood, from sustainable sources. Softwood products are constructed using FSC® certified European redwood that has been Wolmanit CX treated, for a desired service life of 30 years minimum.

All mild steel fabricated components will be hot dip galvanised after fabrication to BS EN ISO 1461:2009.

All stainless steel fabricated components will be grade 304. Grade 316 can be specified if the location or project requires it.

All mild steel fixings will be bright zinc plated, and all stainless steel fixings will be A2 (grade 304) A4 (grade 316) can be specified if the location or project requires. Planters will be fitted with a geotextile filter fabric lining, which allows the water to drain through the planter, while retaining the fill material.

Planter finish

Stratum aluminium planters will be supplied with a polyester powdercoated finish.

Planter bench finishes

The FSC® certified treated softwood and iroko hardwood bench slats will be left natural to reduce the need for re-staining and help reduce maintenance costs. If required, timber bench slats can be supplied with a stained finish using 3 coats of quick drying water based wood stain, to the colour of your choice.

Mild steel planter benches will be left with a galvanised finish only. If required, after hot dip galvanising, the mild steel components can be polyester powder coated, to the colour of your choice. The galvanised parts are prepped, treated and sprayed with the polyester powder, before being baked in an oven.

Stainless steel planter benches will have a dull polished finish.

STRATUM

Versatile planter



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CARE & MAINTENANCE

General

All Stratum planter products are manufactured using quality materials and finishes. The base frames will be fully welded mild steel and will be hot dip galvanised after fabrication. The aluminium planter body will be supplied with a polyester powder coated finish. All products require a varied amount of maintenance, depending on the environment, usage and weather conditions. Generally, polyester powder coated aluminium will only require cleaning. In time, the optional powder coated mild steel will require re-coating.

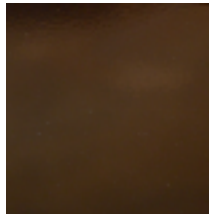
Maintaining the standard mild steel finish

Hot dip galvanised mild steel is a very durable and hard wearing finish. Dirt can be washed off with warm water and a mild detergent. Always use clean water and cleaning cloths to avoid surface contamination. After cleaning, any severe marks can be over painted with a cold galvanised, (zinc rich) aerosol spray.



Maintaining the optional mild steel finish

Polyester powder coated finishes should be washed down with clean warm water and a mild detergent. Minor touching up can be done with an aerosol to match the original powder coated colour. Details can be obtained from Street Design Limited. More severe damage can be repaired by sanding down, by manual or mechanical means, beyond the damaged area, sufficiently far as to ensure that any step in the powder coated finish is removed. This will ensure that after re-finishing the repair will be difficult to detect.



Maintaining the standard polyester powder coated aluminium finish

The polyester powder coated aluminium should be washed down with clean, warm water with a mild detergent. Minor touching up can be done with an aerosol to match the original powder coated colour. Details can be obtained from Street Design Limited. More severe damage can be repaired by sanding down, by manual or mechanical means, beyond the damaged area, sufficiently far as to ensure that any step in the powder coated finish is removed. This will ensure that after re-finishing the repair will be difficult to detect.

