



The mark of responsible forestry

'Look for FSC® certified products'



Street Design

Unit 35 Hayhill Industrial Estate Barrow upon Soar Leicestershire LE12 8LD
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UK Street Furniture Designers & Manufacturers

CASTLETON planter

The Castleton planter is a versatile, vertical slatted timber planter with tubular top capping, suitable for a wide range of applications. It is available with a choice of material and finishes. Choose from a range of accessories to ensure that the Castleton planter is manufactured to suit your specific requirements.

Castleton planters are suitable for:

Tree planters

- Large planters
- Barrier planters
- Shaped planters
- Moveable planters
- Planters with integral bench seating

Castleton planter product details

Castleton planter product specification

Castleton planter accessories

Watering system accessories

Adjustable feet accessory

Castleton planter material specification

Castleton planter care and maintenance



Square Castleton planter in natural finish FSC®-certified treated redwood with galvanised mild steel top capping

CASTLETON planter

PRODUCT DETAILS

General

The Castleton planter is a versatile, multi-use and cost effective timber and metal planter, available in a choice of materials and finishes to suit your scheme and budget.

The planter is available in either FSC®-certified treated, joinery quality redwood or FSC®-certified hardwood. Planters up to 2.8x2.8m plan size will be delivered fully assembled ready for planting. Larger planters will be manufactured in sections and delivered for assembly on site.

Shaped planters can be manufactured and supplied including:- square, rectangular, full circular, half circular, quarter circular and elliptical.

Planters are manufactured with internal steel frames to enable the planters to be moved when fully planted.

Construction

The Castleton timber and metal planter, is constructed by bolting 95x45mm section vertical walling slats to an internal steel frame. The square and rectangular planters will have 45x45mm corner fillets fitted into the external corners.

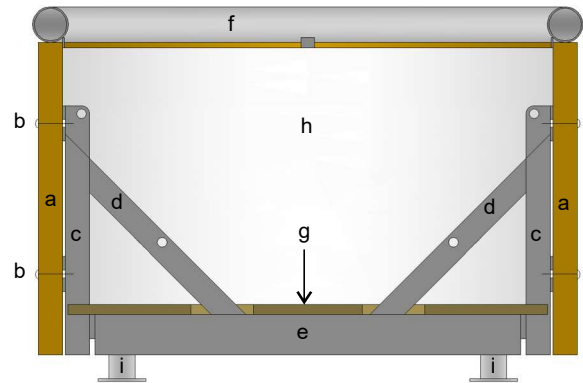
The internal base is constructed using 75x50x3mm mild steel RHS and 75x50x6mm mild steel angle. The 50x10mm mild steel flat uprights and cross brace straps support the horizontal 25x5mm mild steel flats. FSC®-certified hardwood faced plywood is laid onto the base. 50mm high mild steel planter feet are fitted to the underside of the base frame, to ensure that the load is safely transferred to the ground.

The planter has a 60.3mm Ø mild steel or stainless steel CHS top rail.

When fully constructed, the inside of the planter is fully lined with a geo-textile lining, that allows water to drain through whilst retaining the soil water.



Section thro' planter



Key

- a 95x45mm FSC®-certified vertical timber slats
- b M10x65mm cup square coachbolts
- c 50x10mm mild steel flat uprights
- d 50x10mm mild steel flat cross brace
- e 75x50x3mm mild steel RHS bearers
- f 60.3mm Ø x 3mm mild steel CHS top rail
- g 18mm FSC®-certified hardwood faced plywood
- h Geo-textile membrane filter lining
- i 50mm high planter feet

Typical plan sizes, heights and basic shapes of Castleton planters					
Plan dimensions and material options	all other sizes, heights and plan shapes can be manufactured and supplied				
Square planter	Planter heights				
1.0 x 1.0m	460mm	660mm	860mm	1060mm	1260mm
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
1.5 x 1.5m					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
2.0 x 2.0m					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
Rectangular planter	Planter heights				
2.0 x 1.0m	460mm	660mm	860mm	1060mm	1260mm
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
2.8 x 1.0m					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
Full circular planter	Planter heights				
1.0m diameter	460mm	660mm	860mm	1060mm	1260mm
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
1.5m diameter					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
2.0m diameter					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
Half circle planter	Planter heights				
1.5m diameter	460mm	660mm	860mm	1060mm	1260mm
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
2.0m diameter					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•
2.8m diameter					
FSC®-certified treated redwood	•	•	•	•	•
FSC®-certified hardwood	•	•	•	•	•

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PRODUCT SPECIFICATION



Unit 35 Hayhill Industrial Estate Barrow upon Soar Leicestershire LE12 8LD
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Technical information						
Material						
Vertical walling slats	95x45mm FSC Certified treated redwood or FSC Certified hardwood					
External corner detail (when required)	45x45mm FSC Certified treated redwood or FSC Certified hardwood					
Top tubular rail	60.3mm Ø x 3mm mild steel or stainless steel CHS					
Internal uprights and cross straps	50x10 and 50x5mm mild steel flat					
Base frame	75x50x3mm RHS, 75x50x6 and 50x50x5mm mild steel angles					
Leg/foot	48.3 Ø x 3mm CHS and 100x100x5mm baseplate					
Base flooring	18mm FSC Certified hardwood faced plywood					
Fixings	M10 size - bright zinc plated					
Standard finish	Natural					
Optional finish	Stained finish available on request					
Accessories						
Integral bench seating Tree Anchor fittings Watering Systems Adjustable feet Trellis panels Pergola structures						
Guarantee						
Castleton planters are guaranteed for 15 years						
Walling heights (mm)	460	660	860	1060	1260	1460
Planting depths (mm)	257	457	657	857	1057	1257
Weights						
Treated redwood planter walls (kgs / lm)	22	28	36	44	52	60
Hardwood planter walls (kgs / lm)	32	46	60	74	88	102
Planter base (kgs / m ²)	26	26	26	26	26	26
Light fill material can be based on:	1000 kgs / m ³					
Heavy fill material can be based on:	2000 kgs / m ³					

Timber policy

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

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 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.

Materials

Hardwood planters are constructed from FSC®-certified hardwood, from sustainable sources. Softwood planters are constructed using FSC®-certified redwood that has been pressure treated, for a desired service life of 15 years in-ground contact.

All mild steel fixings will be M10 size and have a bright zinc plated finish. Planters will be fitted with a geo-textile filter fabric lining, which allows the water to drain through the planter, while retaining the fill material.

Standard finish

FSC®-certified treated redwood and FSC®-certified hardwood will be left natural to reduce the need for re-staining and help reduce maintenance costs.

Optional finish

Stained finish is available on request.

Options

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

- plan size and shapes
- heights
- material
- finish
- details of accessories required

Accessories

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

- Tree anchors
- Adjustable feet
- Watering system
- Integral bench seating
- Pergola structures
- Trellis panels



Circular Castleton planter with circular Spalding planter bench



Square Castleton planter with straight Spalding planter bench



Circular Castleton planters loaded ready for delivery to site

CASTLETON planter

ACCESSORIES

Castleton planters can be manufactured and supplied to include a range of optional accessories.

Planters can incorporate; adjustable feet, tree anchor fittings, watering systems, bench seating, pergolas and trellis panels.

Adjustable feet

Castleton 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

Castleton 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.

Moveable planters

Castleton planters can be supplied with an internal steel frame to allow the planters to be moved whilst fully planted. The steel frame provides additional strength and ensures suitable supports for the forklift tines.

Pergola structures and trellis panels

By extending the planter uprights, pergola structures and trellis panels can be integrated into the planter construction. Pergolas and trellis allow high level planting and create shaded areas for seating.

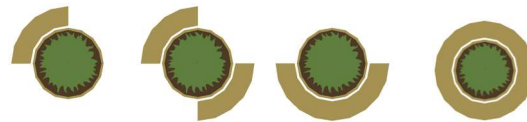
Tree anchor fittings

Castleton 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.

Bench seating

Integral planter benches, with or without armrests, can be supplied with Castleton 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 Spalding bench has 145x45mm wide bench slats, which run from back to front. The 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 powder coated.

Full circular planter bench configurations



Full circular planters can have quarter, half or full circular planter benches

Half circular planter bench configurations



Half circular planters can have planter benches to the straight side only, the curved side only or both the straight and curved sides

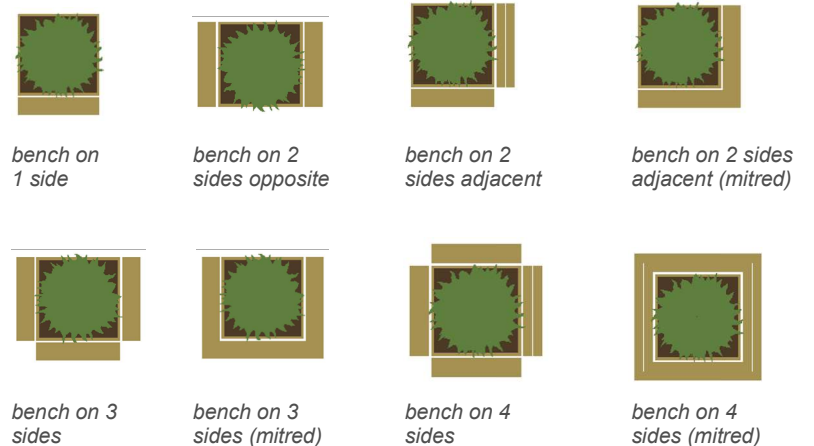


Circular Castleton planter with semi-circular Spalding planter bench



Elliptical Castleton planter with curved bexley planter bench

Square and rectangular planter bench configurations



CASTLETON planter

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

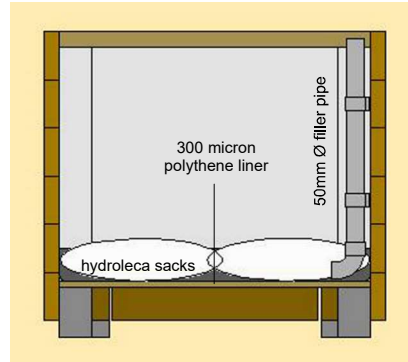
The system consists of a 300 micron thick black polythene liner, hydroleca (pulverised ash granules) sacks and a rigid plastic filler pipe.

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.



Watering System 1 - section thro' planter



Polythene liner with filler pipe



Hydroleca sacks laid out in base of planter



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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

CASTLETON planter

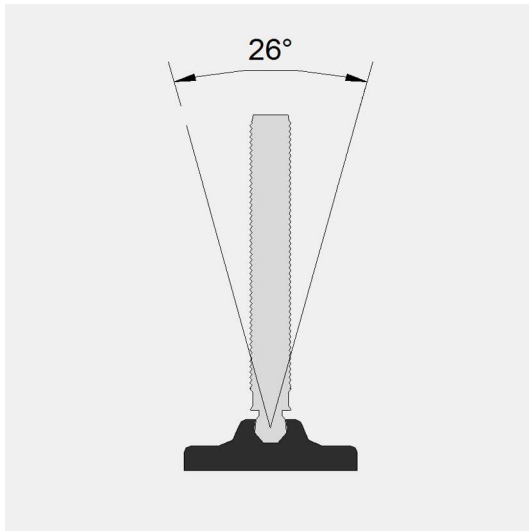
ADJUSTABLE FEET

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.

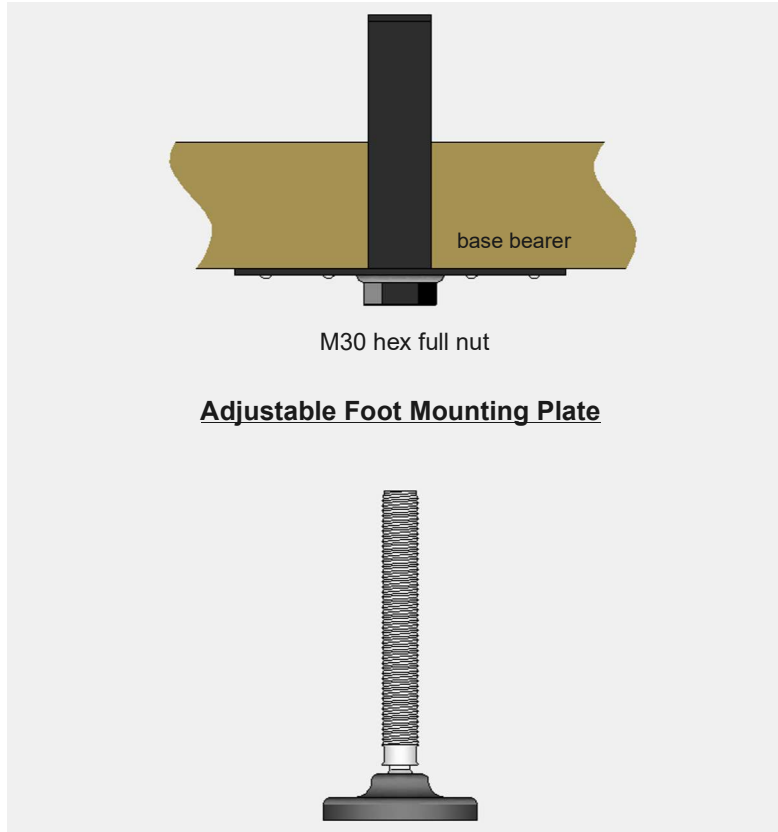
The adjustable foot screw fits into a hex nut, located on the underside of the planter base.



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.

adjustable foot housing



Adjustable Foot

Fitting and adjustment

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.

CASTLETON planter

MATERIAL SPECIFICATION

Standard planter

Uprights and cross brace straps

50x10mm mild steel flat.

Base frame

75x50x3mm mild steel RHS and 75x50x6mm mild steel angle.

Planter feet

48.3mm Ø mild steel CHS with welded 100x100x5 base plate.

Horizontal flats

25x5mm mild steel flat.

Vertical slats

FSC®-certified 95x45mm FIN PAR pressure treated redwood or FSC®-certified hardwood.

Tubular metal top rail

Either 60.3mm Ø mild steel CHS or 60.3mm Ø grade 304 stainless steel CHS.

Base floor

18mm FSC®-certified hardwood faced plywood.

Internal lining

Geo-textile filter fabric membrane.

Fixing bolts

M10x65mm coach bolts with a BZP finish.

Optional planter accessories

Adjustable feet

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

Tree anchors

25x5mm mild steel flat tree anchor brackets, hot dip galvanised.

Watering system

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

Planter benches

Timber bench slats to match planter material in either FSC®-certified treated European redwood or FSC®-certified hardwood, bolted to hot dip galvanised mild steel bench brackets.

Optional planter accessories continued

Moveable planters

Castleton planters are manufactured with an internal mild steel frame and are suitable for moving.

Pergola structures

Pergola structures can be manufactured as an integral part of the planter construction. The steel uprights 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 uprights can be extended to carry the horizontal and vertical trellis timber slats.

Guarantee

All planters are guaranteed for 15 years. This guarantee is dependant on the product not being misused or abused.

Product prices

Contact our Sales Office on 01509 815335 for Castleton planter prices delivered to site.



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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

Castleton 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 hardwood, from sustainable sources. Softwood products are constructed using FSC®-certified redwood that has been pressure treated, for a desired service life of 15 years in-ground contact.

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 it.

Planters will be fitted with a geo-textile filter fabric lining, which allows the water to drain through the planter, while retaining the fill material.

Finishes

FSC®-certified treated redwood and FSC®-certified hardwood will be left natural to reduce the need for re-staining and help reduce maintenance costs. Optional stained finish is available on request.

Mild steel components 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 components will have a dull polished (brushed) finish. If required, the stainless steel components can be supplied with a mirror polished or bead blasted finish.

CASTLETON planter

CARE & MAINTENANCE



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General

All Castleton planter products are manufactured using quality materials, treatments and finishes. The timber slats are manufactured from either FSC®-certified treated redwood or FSC®-certified hardwood. The mild steel will be hot dip galvanised after fabrication. The stainless steel will be supplied with a dull polished (brushed) finish. All products require a varied amount of maintenance, depending on the environment, usage and weather conditions. Natural timber, galvanised steel and stainless steel will only require cleaning. In time, stained timber will require re-coating.

Maintaining the standard FSC®-certified treated redwood finish

Natural finish treated redwood can be washed down with a mild detergent. More stubborn surface marks can be removed with a light, hand sand with a 120 grit, or higher grade sandpaper. Excessive sanding should be avoided.



Maintaining the optional FSC®-certified treated redwood finish

Stained, treated redwood will need to be re-coated after a period of time. The stain can either start to fade, become dull (oxidised) or incur some surface break up. Lightly sand down the timber using a 120 grit, or higher grade sandpaper. We recommend that the timber is re-stained with the original stain colour and manufacturer. Details can be obtained from Street design Limited. Apply the stain evenly, with brush strokes running parallel with the woodgrain, in thin layers, building up the finish as recommended by the manufacturer.



Maintaining the standard FSC®-certified hardwood finish

Natural finish hardwood can be washed down with a mild detergent. More stubborn surface marks can be removed with a light, hand sand with a 120 grit, or higher grade sandpaper. Excessive sanding should be avoided.



Maintaining the optional FSC®-certified hardwood finish

Optional stained hardwood will need to be re-coated after a period of time. The stain can either start to fade, become dull (oxidised) or incur some surface break up. Lightly sand down the timber using a 120 grit, or higher grade sandpaper. We recommend that the timber is re-stained with the original stain colour and manufacturer. Details can be obtained from Street design Limited. Apply the stain evenly, with brush strokes running parallel with the woodgrain, in thin layers, building up the finish as recommended by the stain manufacturer.



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 stainless steel finish

Dull polished (brushed) stainless steel should be washed down with clean, warm water with a mild detergent. More severe marks can be removed by using a fine abrasive, such as a Scotchbrite or stainless steel scouring pad. As dull polishing is a process of applying fine linear scratches evenly over the surface, it is extremely important that rubbing down with an abrasive pad is done carefully in a straight line parallel to the existing grained finish. Rust marks or stains are usually caused by environmental contamination from dissimilar materials laid against, or near to, the stainless steel. These stains can be removed as described above.

