

901 100 901 100 UK street furniture designers & manufacturers

# **Street Design Limited**

Unit 35

Hayhill Industrial Estate Barrow upon Soar Leicestershire LE12 8LD Contact us:

Telephone: 01509 815335 Fax: 01509 815332 Email: sdl@street-desic

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# **GRENADIER**Versatile planter



As UK based, designers and manufacturers, Street Design can manufacture and supply Grenadier planters from stock or they can be made to order. Choose the shape, plan sizes and heights of the planters.

Choose from a range of material and finishes. Choose from a range of accessories to ensure that the Grenadier planter is manufactured to suit your specific scheme.

Grenadier planters are suitable for: roof garden planters modular planters tree planters large planters barrier planters shaped planters moveable planters

Planters & Planters with Benches

Planters, Accessories & other Products

**Product Details** 

**Product Specification** 

Accessories

Watering System

Adjustable Feet

**Material Finishes** 

**Material Specifications** 

Care & Maintenance



1200x1200x920mm high Grenadier planters in natural finish FSC iroko hardwood



# **PLANTERS & PLANTERS WITH BENCHES**

# Other sizes and shapes available



# **3VPGR 01**Square planter

Length: 1000mm Width: 1000mm Height: 920mm All other sizes available



# 3VPGR 02

Rectangular planter

Length: 2000mm Width: 1000mm Height: 920mm All other sizes available



#### **3VPGR 03**

Rectangular planter

Length: 2500mm Width: 1000mm Height: 920mm All other sizes available



# **3VPGR 05**

Tall planter

Length: 500mm Width: 500mm Height: 1210mm All other sizes available



# 3VPGR 06

Raised planter

Length: 2000mm Width: 750mm Height: 800mm All other sizes available



# **3VPGR 15**

Planter with 4 benches

Length: 1950mm Width: 1950mm Height: 920mm All other sizes available



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# **3VPGR 11**Tiered planter

Outer planter Length: 1500mm Width: 1500mm Height: 485mm Inner planter

Length: 500mm
Width: 500mm
Height: 1210mm
All other sizes available



**3VPGR 12**Stepped planter

Length: 1800mm Width: 600mm Heights: 630, 1210mm All other sizes available



**3VPGR 17** Planter with benches

Length: 2500mm Width: 1800mm Height: 530mm All other sizes available



# **3VPGR 19** Planter with benches

Length: 2800mm Width: 435mm Height: 530mm All other sizes available



# 3VPGR 18

Planters with bench

Length: 5400mm Width: 505mm Height: 485mm All other sizes available



# **3VPGR 20**

Planter with benches

Length: 5810mm Width: 800mm Height: 530mm All other sizes available



#### **3VPGR 04**

Large Grenadier planter

Length: 12500mm Width: 2500mm Height: 630mm All other sizes available



#### **3VPGR 07**

Long Grenadier planter

Length: 10000mm Width: 1000mm Height: 920mm All other sizes available



## **3VPGR 13**

Large stepped planter

Length: 5000mm Width: 1000mm Height: 485, 775mm All other sizes available



#### **3VPGR 14**

Planter with storage box

Length: 6000mm Width: 1500mm Height: 675mm All other sizes available



# **3VPGR 16**

Shaped planter & benches

Length: 6000mm Width: 2000mm Height: 775mm All other sizes available





## PLANTERS, ACCESSORIES & OTHER PRODUCTS

Other sizes and shapes available



# **3VPGR 21** Planter with tree benches

Length: 7994mm Width: 1945mm Height: 530mm All other sizes available



**3VPGR 22** Planter walling only

Length: 6165mm Width: 2000mm Height: 630mm All other sizes available

#### Planters with Accessories



**3VPGR 23** Planter with screen

Length: 2000mm Width: 1000mm Height: 1630mm All other sizes available



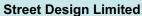
# **3VPGR 24** Planter with trellis

Length: 2000mm Width: 1000mm Height: 1630mm All other sizes available



# **3VPGR 25** Planter with pergola

Length: 2000mm Width: 1000mm Height: 2351mm All other sizes available



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# Co-ordinating products



#### 3VPGR 26 Bench

Length: 2000mm Width: 435mm Height: 530mm All other sizes available



# 3VPGR 27

Lounger

Length: 2000mm
Width: 2000mm
Height: 530mm
All other sizes available



#### 3VPGR 28 Table

Length: 2000mm Width: 987mm Height: 808mm All other sizes available



# 3VPGR 29

Storage box

Length: 2000mm Width: 435mm Height: 530mm All other sizes available



## 3VPGR 30 Decking pod

Length: 2000mm Width: 2000mm Height: 195mm All other sizes available



# 3VPGR 31 Grass pod

Length: 2000mm Width: 2000mm Height: 195mm All other sizes available

# Shaped planters

## Other sizes and shapes available



#### **3VPGR 08**

Planter with angled end

Length: 2800mm Width: 1200mm Height: 630mm All other sizes available



# **3VPGR 09**

L shaped planter

Length: 7500mm Width: 5000mm Height: 630mm All other sizes available



#### **3VPGR 10**

Planter with angled ends

Length: 6244mm Width: 4458mm Height: 630mm All other sizes available



# **PRODUCT DETAILS**

# **Street Design Limited**

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Telephone: 01509 815335 01509 815332 Fax:

sdl@street-design.com Email: Web site: www.street-design.com

FSC softwood

FSC softwood

2.8 x 1.0m

FSC iroko hardwood

FSC iroko hardwood







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#### General

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

The planter is available in either FSC iroko hardwood or a FSC treated European, joinery quality redwood. 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.

Other shapes can be manufactured and supplied including:- triangular, hexagonal, octagonal and any other irregular straight sided shape.

Planters can be manufactured with additional steel support to enable the planters to be moved when fully planted.

#### Construction

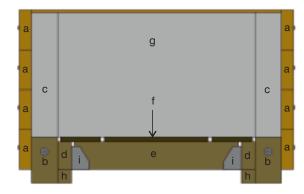
The Grenadier, all timber planter, is constructed by bolting 145x45mm section horizontal walling slats to 95x95mm section posts. A 45x45mm corner fillet is fitted into the external corner to ensure a neat detail.

The internal base is constructed using 100x47mm sawn treated softwood bearers, fixed to the posts and fitted to joist hangers fixed to the main bearers. Treated plywood sheeting is fixed down onto the bearers. 45mm high timber blocks are fitted to the underside of the bearers, to ensure that the load is safely transferred to the ground.

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 fines.



# Section thro' planter



# Key

- a 145 x 45mm FSC horizontal timber wall slats
- b M12 x 160mm cup square coachbolts
- c 95 x 95mm FSC timber corner posts
- d 100 x 47mm sawn FSC timber side bearers
- e 100 x 47mm sawn FSC timber cross bearers
- f 18mm FSC treated Eucalyptus plywood
- g Terram 1000 geo-textile membrane filter lining
- h 45mm high FSC timber blocks



#### Typical plan sizes, heights and basic shapes of Grenadier planters Plan dimensions and all other sizes, heights and plan shapes can be material options manufactured and supplied Planter heights Square 0.5 x 0.5m 485mm 630mm 775mm 920mm 1065mm 1210mm FSC softwood FSC iroko hardwood • • 1.0 x 1.0m FSC softwood • FSC iroko hardwood • • • • 1.2 x 1.2m FSC softwood • • • FSC iroko hardwood • • • 1.5 x 1.5m FSC softwood • • FSC iroko hardwood • • • • 2.0 x 2.0m FSC softwood • • FSC iroko hardwood • • • • • 2.8 x 2.8m FSC softwood • • FSC iroko hardwood • Rectangular 1.0 x 0.5m 485mm 920mm 630mm 775mm 1065mm 1210mm FSC softwood • FSC iroko hardwood 2.0 x 1.0m

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# **Street Design Limited**

Unit 35 Hayhill Industrial Estate Barrow upon Soar Leicestershire LE12 8LD

# PRODUCT SPECIFICATION

Technical information						
Material						
Horizontal walling slats	145 x 45mm FSC treated redwood or FSC iroko hardwood					
External corner detail	45 x 45mm FSC treated redwood or FSC iroko hardwood					
Internal corner posts	95 x 95mm FSC treated redwood or FSC iroko hardwood					
Base bearers	100 x 47mm FSC treated redwood					
Base flooring	18mm FSC treated Eucalyptus plywood					
Fixings	M12 size - bright zinc plated					
Standard finish	Natural					
Optional finish	Stained					
	Tree anchor fittings Bench seating Watering systems LED lighting Base skirting boards Trellis panels and pergola structures Inner tower planters					
Guarantee	All planters are guaranteed for 15 years minimum					
Walling heights (mm)	485	630	775	920	1065	1210
Planting depths (mm)	317	462	607	752	897	1042
Weights						
FSC treated redwood ( kgs / linear m.)	12	17	22	27	32	37
FSC iroko hardwood ( kgs / linear m.)	16	21	27	33	39	45
FSC treated base ( kgs / m² )	11	11	11	11	11	11
Light fill material can be based on:	1000 kgs / m³					
Heavy fill material can be based on:	2000 kgs / m³					

# **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).

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The mark of responsible forestry

#### 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 iroko hardwood, from sustainable sources. Softwood planters are constructed using FSC European redwood that has been Wolmanit CX treated, for a desired service life of 30 years minimum. All mild steel fixings will be M12 size and have a bright zinc plated finish. Planters will be fitted with a Terram 1000, geotextile filter fabric lining, which allows the water to drain through the planter,

# Standard finish

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

while retaining the fill material.

# Optional finish

If required, timber planters can be supplied with a stained finish using 3 coats of quick drying water based wood stain, to the colour of you choice.

Material samples available on request.

#### Options

Grenadier 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

#### Accessories

To enhance your Grenadier 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
- LED lighting
- · Internal steel frame
- · Base skirting
- Pergola structures
- Trellis panels
- Plagues



FSC natural iroko hardwood with optional Henley bench seating



FSC natural iroko hardwood with curved Rochford benches



Large FSC natural treated softwood planters



# **ACCESSORIES**

Grenadier 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, LED lighting, pergolas and trellis panels.

# Adjustable feet

Grenadier 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

Grenadier 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

Grenadier 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.

# Moveable planters

Grenadier tree 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 posts, pergola structures and trellis panels can be integrated into the planter construction. Pergolas and trellis allow high level planting and create shaded areas.

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# Tree anchor fittings

Grenadier tree 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.

# Bench seating

Integral planter benches, with or without armrests, can be supplied with Grenadier 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 slats bolt onto galvanised mild steel brackets, bolted 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.

# Storage boxes

Grenadier planters can be manufactured and supplied with integral storage boxes.

The storage boxes are particularly useful for roof gardens planters, to provide storage areas for local residents.

The hinged lids are supplied with a hasp and

staple, to allow the residents to make their storage box secure. When closed the lid of the storage boxes can be used as an informal bench or table top. The storage boxes can be manufactured to match the planters, the storage boxes can be manufactured in FSC treated redwood or FSC iroko hardwood.



Optional storage box



Optional aperture for LED light fitting



Optional timber trellis



Optional Henley planter bench

# Planter bench configurations



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)



## WATERING SYSTEMS

# **Street Design Limited**

Hayhill Industrial Estate Barrow upon Soar Leicestershire LE12 8LD

# Unit 35

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# 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

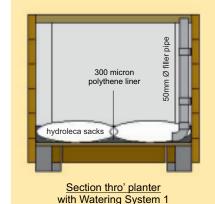
The system consists of a 300 micron thick black polythene liner, hydroleca (pulverised ash granules) sacks and a rigid plastic filler pipe.

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.





Polythene liner with filler pipe



Hydroleca sacks laid out in base of planter

# 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.

Watering System 2 - MONA subterranean tank system

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



# **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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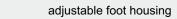
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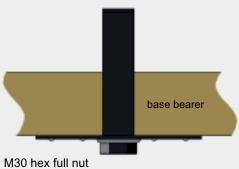






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# **Adjustable Foot Mounting Plate**



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.





# MATERIAL FINISHES

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## Standard finish

#### FSC treated redwood standard finish

As standard, all FSC treated redwood planters will be supplied with a natural finish. The preservative treatment process will colour the timber a light brown/green.



# Aged natural treated redwood

Left to weather naturally, the timber will eventually turn a silver grey colour.



#### FSC iroko hardwood standard finish

As standard, all FSC iroko hardwood planters will be supplied with a natural finish. Due to the nature of the material and the density of the grain, iroko hardwood is not capable of taking a preservative treatment. Iroko hardwood is a naturally durable material, giving a life expectancy in excess of a treated softwood.



## Aged natural iroko hardwood

Left to weather naturally, the timber will eventually turn a silver grey colour.



# Optional finishes at extra cost

# FSC treated redwood wood optional finish

As an optional extra, the FSC treated redwood can be supplied with a stained finish. This will be applied after the timber treatment process. The standard stain will be 3 coats of Ronseal quick drying water based stain. The standard colour will be teak. Other stains and colours can be applied upon request.



Optional teak stained finish

# FSC iroko hardwood optional finish

As an optional extra, the FSC iroko hardwood planters can be supplied with a stained finish. The standard stain will be 3 coats of Ronseal guick drying water based stain. The standard colour will be teak. Other stains and colours can be applied upon request.



Optional teak stained finish

# Alternative opaque wood stain finishes

As an optional extra, FSC timber planters can be supplied with an opaque stained finish. Three coats of stain will be applied. If required, RAL colours can be specified.



Optional RAL 7012 opaque stained finish



# **MATERIAL SPECIFICATION**

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### Standard planter

#### **Posts**

FSC 95x95mm FIN PAR Wolmanit CX treated European redwood.

#### Base bearers

FSC 100x47mm section sawn, Wolmanit CX treated European redwood.

#### Wall slats

FSC 145x45mm FIN PAR Wolmanit CX treated European redwood or FSC 145x45mm FIN PAR iroko hardwood.

#### **Corner fillets**

FSC 45x45mm FIN PAR Wolmanit CX treated European redwood or FSC iroko hardwood.

#### Base floor

18mm FSC Eucalyptus treated plywood.

# Internal lining

Geotextile membrane.

## Fixing bolts

M12x160mm coach bolts with a BZP finish.

#### Joist hangers

LUS/230/50 U sheer light nailing hangers 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, 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**

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

# Optional planter accessories continued

# Base skirting

12mm thick Marine grade plywood boards, screw fixed to blocks fixed to the underside of the planter.

# Moveable planters

Grenadier planters can be manufactured with an internal mild steel frame.

# Pergola structures

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

# LED lighting

### Material samples

Material samples are available on request.

#### Guarantee

All planters are guaranteed for 15 years minimum. This quarantee 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

Grenadier 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

BS EN ISO 1461:2009.

Hardwood products are constructed using FSC iroko hardwood, from sustainable sources. Softwood products are constructed using FSC 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

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 geotextile filter fabric lining, which allows the water to drain through the planter, while retaining the fill material.

#### **Finishes**

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

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 brushed finish. If required, the stainless steel components can be supplied with a mirror polished or bead blasted finish.



# **CARE & MAINTENANCE**

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# General

All Grenadier planter products are manufactured using quality materials, treatments and finishes. The timber components are manufactured from either FSC treated redwood or FSC iroko hardwood. All products require a varied amount of maintenance, depending on the environment, usage and weather conditions. Natural timber will only require cleaning. In time, stained timber will require re-coating.

# Maintaining the standard FSC 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 standard FSC iroko hardwood finish

Natural finish iroko 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 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 stain manufacturer.



# Maintaining the optional FSC iroko hardwood finish

Stained, iroko 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.

