



CONCRETE SEATING



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INTRODUCTION TO CONCRETE SEATING

Welcome to Furnitubes' new concrete seating product brochure which includes long-standing favourites, many with updated features, and introduces an extensive range of new products.

Here are just some of the ways our concrete seats can benefit your scheme:

- Durable construction - concrete offers optimum strength to withstand the rigours of daily use and provide maximum product longevity
- Heavy weight and low recyclable value - meaning the products are far less susceptible to theft than those made of metal
- A wide range of standard colours are available to complement the surrounding paving and other materials on your scheme, with special mixes available to order

In addition to our extensive range of standard products, we are continually developing new designs and are happy to discuss any special products for your scheme - call us today on **020 8378 3200** to discuss your requirements with our Sales team or our expert Designers.

Our concrete seating product range is presented in the following sub-sections:

Modular / linear seats:

Modular designs offering a variety of linear combinations

- Blyth range
- Podium range
- Fortis range
- Mesa range

Contemporary designs:

Products offered exclusively from Furnitubes

- Amesbury
- Marlborough
- Drakon range

Stand-alone seats:

Simple economic forms suited to 'everyday' schemes

- Bridge
- Rise

Social seating:

Non-linear seating, ideal for courtyards & meeting areas

- Cosmos range

Core stand-alone units:

Basic stand-alone units available in a range of forms

- Core benches
- Core table

Modular seating walls:

Curved and linear designs for continuous seating runs

- Core modular seating walls

At the rear of this brochure we also offer details (including photographic representations) of the standard concrete mixes and basic technical guidance on concrete in general. Product-specific technical data sheets are available for most of our products and can be obtained from our Sales team.



At Furnitubes we believe in the positive promotion of UK manufacturing and the benefits that it brings to the UK economy. Manufacturing in the UK also offers a more sustainable solution, with transportation distances and associated environmental impacts minimised. All of Furnitubes' concrete products are manufactured in the UK using locally sourced materials and all new products are designed with this philosophy in mind. Wherever you see our **UK Made** logo you can be assured that the product is manufactured in the UK.



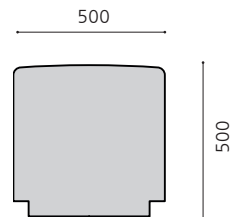
BLYTH RANGE



Unique features of the Blyth Mk 2 range

Ideal for demanding urban environments, the Blyth is a long-standing favourite and an increasingly popular choice from Furnitubes' extensive range of concrete seating products. The Blyth Mk 2 introduces a number of improvements and new features, including:

- 3 size units
- Available in a wide selection of concrete mixes and finishes
- Solo units for stand-alone situations
- End and mid units to allow longer continuous runs
- Radius edges for improved comfort for users
- A shallow-domed top to aid water run-off
- Anti-skate device options
- Arm and backrest options



Cross sectional profile
Common to all Blyth products

BLYTH RANGE

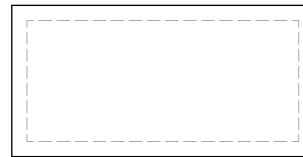
Standard options

The standard range of bench options comprises the following:

- **Solo units** (Cube, 1m & 2m)
- **End units** (1m & 2m)
- **Mid units** (1m & 2m)

All models have a 50 x 50mm recess around the base of the bench as indicated by the dashed lines on the illustrations.

For continuous seating runs comprising multiple units, adjacent units can be simply butted up to each other as a dry-fit, or jointed using a fibreboard spacer with the joint filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.



Plan views of 1m units. Dashed lines indicate stepped recesses to underside of benches.

Solo unit:

Rounded corners both ends.
Suitable as stand-alone units only.

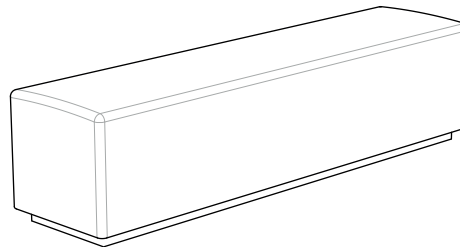
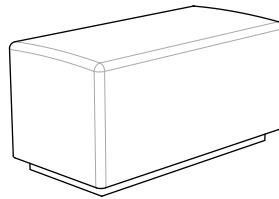
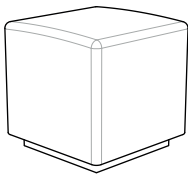
End unit:

Rounded corners one end;
square-faced one end.
Used as end modules on
multiple unit seating runs.

Mid unit:

Square-faced both ends.
Used as central modules on
multiple unit seating runs.

Note: All products illustrated on this page are 'Solo' units



BLYTH CUBE

500 x 500mm cube, wgt: 300kg

BLS6 - Solo unit

OPTIONS

- Range of standard colour mixes and finishes

BLYTH 1M

1000mm length, wgt: 600kg

BLR100 SO - Solo unit
BLR100 EN - End unit
BLR100 MD - Mid unit

OPTIONS

- Range of std mixes / finishes
- Anti-skate devices
- Ground level LED lights

BLYTH 2M

2000mm length, wgt: 1200kg

BLR200 SO - Solo unit
BLR200 EN - End unit
BLR200 MD - Mid unit

OPTIONS

- Range of standard colour mixes and finishes
- Anti-skate devices
- Armrests in satin polished stainless steel
- Backrest in satin polished stainless steel (and timber on selected options)
- Ground level LED lights



BLYTH RANGE

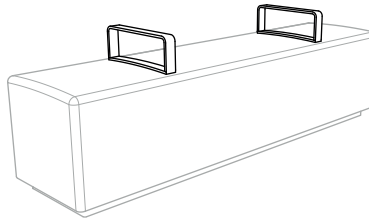
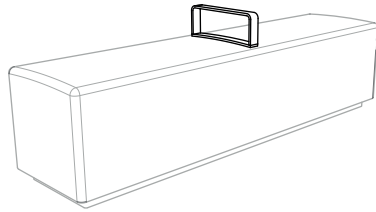
Armrests + backrests

Arm and backrests enhance the functionality of Blyth benches and are particularly welcomed by less able members of the public. Shown here are the standard options offered on 2m benches. At 1m long, the backrest can comfortably support 2 people. The 'open' sections of bench to either end accommodate 1 person per end, maintaining 4 seating positions overall. The addition of arm and backrests also provides an obstacle to skaters - discouraging them from grinding on the long edges of these benches.



All our arm and backrests are manufactured in heavy duty and extremely durable stainless steel, secured to the benches by hidden studs which are chemically bonded into the concrete to deter any tampering or theft. Three styles of backrest are offered as standard - a flat bar arrangement (as shown in the photographs), a circular bar design and a single piece 'solid' backrest in either stainless steel or timber. Logos or other graphic designs can be incorporated into the standard backrests, and unique designs to complement other items of furniture can be manufactured as add-on components to the basic concrete bench.

BLYTH RANGE

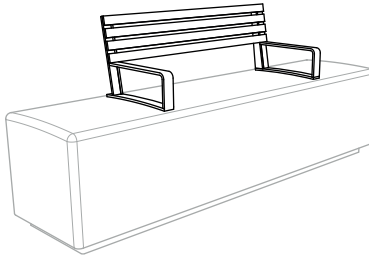
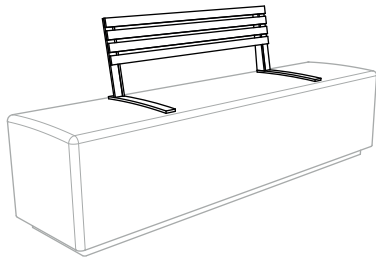


ARMRESTS

Single armrest set in centre of the bench
Pair of armrests set at 1000mm centres
Stainless steel satin polished

BLR200 AR1 - Single armrest

BLR200 AR2 - Pair of armrests

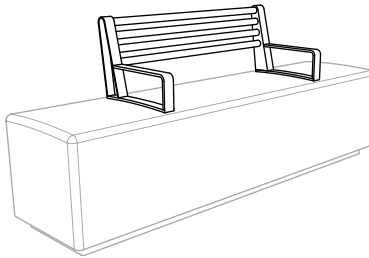
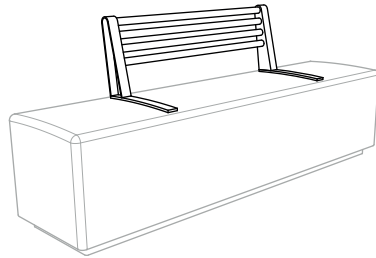


SLATTED BAR ARM / BACKREST

1000mm length
Stainless steel satin polished

BLR200 BO1 - Backrest only

BLR200 BA1 - Backrest + armrests

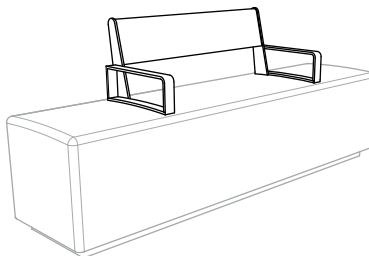
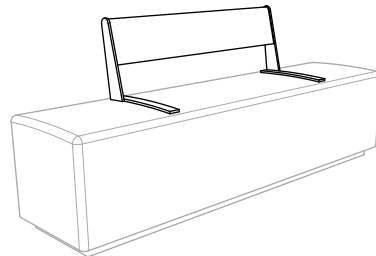


CIRCULAR BAR ARM / BACKREST

1000mm length
Stainless steel satin polished

BLR200 BO2 - Backrest only

BLR200 BA2 - Backrest + armrests



SOLID BACK ARM / BACKRESTS

1000mm length
Stainless steel satin polished throughout or
with iroko timber backrest option

BLR200 BO31 - Backrest only S/S

BLR200 BO32 - Backrest only S/S + timber

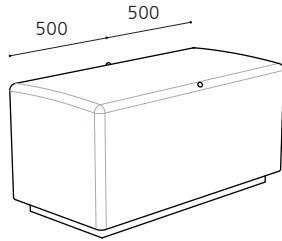
BLR200 BA31 - Backrest + armrests S/S

BLR200 BA32 - Backrest + armrests S/S +
timber back support

BLYTH RANGE

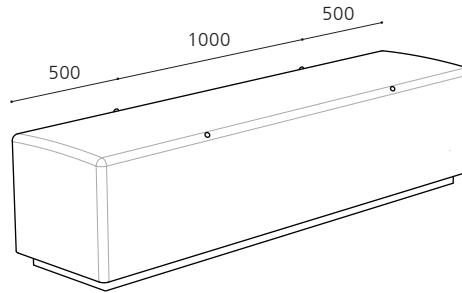
Anti-skate devices

Robust concrete products such as the Blyth range of benches are particularly attractive to skateboarders as these heavy products have long straight edges at a convenient height to 'grind' along. To reduce the risk of damage from skateboard grinding, we offer an anti-skate device - a stainless steel oval ball with a welded stud, permanently secured into drilled holes in the bench with an epoxy resin - as a standard addition on this range. For 1m and 2m benches we recommend anti-skate devices are positioned as shown below. In our experience, the smaller cube units are too short to attract skaters, but anti-skate devices can be added to these products if required.



BLYTH 1M

1 ball on each long side



BLYTH 2M

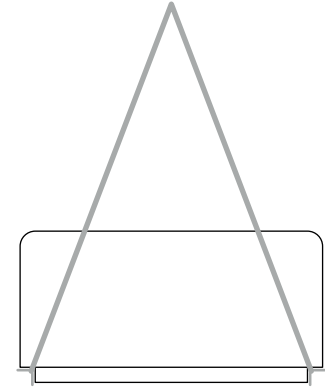
2 balls on each long side



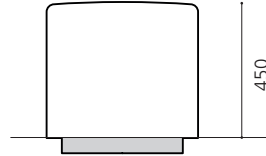
BLYTH RANGE

Handling and installation

A 50 x 50mm recess to the lower edge is a design feature on all Blyths. This facilitates on-site handling by providing an edge against which lifting straps can be located and tensioned. The recess also allows two basic installation options as shown below, the advantages and disadvantages of which are discussed in detail. A third option is to install the bench so that the base sits below the finished paving level, as for option 1 but to a lesser depth, meaning the height of the exposed recess is reduced. Please note that the faces of the recess are left 'as-struck' and not finished to match the main body of the bench.



Installation Option 1:
Base of bench set below
finished paving level



Advantages:

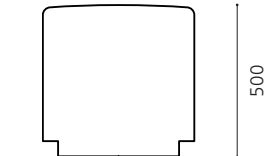
- Benches can be set true level
- Any damage to lower edge of the recess (caused during handling) is hidden beneath the paving
- Paving set below recess overhang so any untidy edges to paving can be hidden

Disadvantages:

- Requires ground excavation
- Not suitable for products with recess-mounted lighting



Installation Option 2:
Base of bench set on top of
finished paving



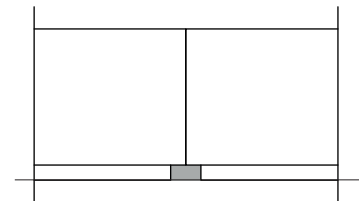
Advantages:

- No ground excavation
- Shadow gap visually lifts bench product off the paving
- Suitable for products with recess-mounted lighting

Disadvantages:

- Product will not be true plumb if paving isn't level
- Any untidy paving abutting the recess is visible

When multiple bench units are directly abutted and set on top of the paving, there will be a 100mm gap between the recessed faces. This can be left as is or the gaps filled with matching coloured 'plugs'.



BLYTH RANGE



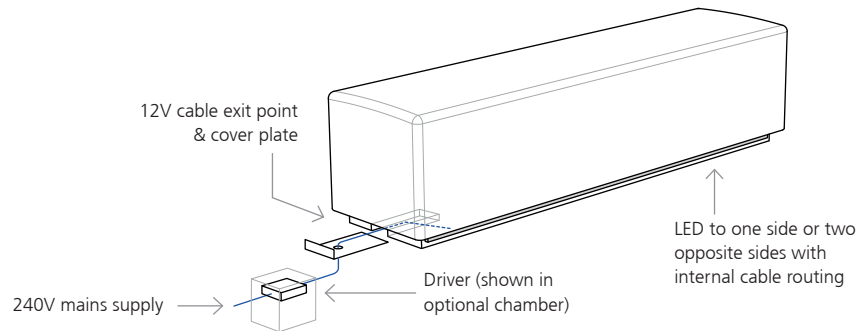
BLYTH RANGE



LED LIGHTING FOR BLYTH RANGE

Low level recessed bench lighting

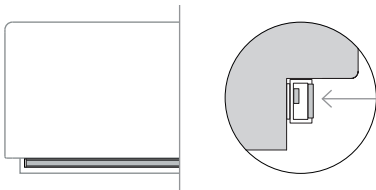
When Blyth concrete benches are installed directly onto the paving and the ground level recess is clearly visible, this offers the opportunity to include LED lighting strips as decorative features that emphasise the seating at night and spread a localised wash of light on the surrounding paving. Lighting can be added to one or both long sides of the 1m and 2m Blyth benches, and on one or opposite sides of the Blyth cube. The LED light source can be supplied in a variety of colours, and sits behind a frosted white acrylic cover that allows the coloured light to diffuse through.



LED LIGHTING FOR BLYTH RANGE

Discrete and robust fittings

The LED light source is housed in a robust aluminium extrusion with a frosted acrylic cover to diffuse the light. 12V cable(s) run internally between the LEDs and their exit point from the bench, and can be supplied up to 4m long to allow for remote above-ground connection to an IP67-rated driver unit and a 240V supply. Alternatively, the driver can be placed in an IP68-rated ground chamber. Where there are adjacent lit benches in close proximity, the lighting can be connected to a single driver unit. A plastic cover plate fits over the ground level recess at the end of the bench to hide the cable exit point.



Enlarged cross section showing LED housed in aluminium extrusion with acrylic diffuser

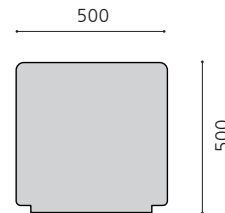
The LED extends close to the end of the ground level recess and is securely fitted to the bench at a position which minimises the likelihood of accidental damage.



MESA RANGE

Angular modules with infinite combinations

Mesa is a range of concrete block seating based on a square section being 'sliced' by 30 / 60 degree compound angle cuts, to produce a range of dynamic angular forms which can be used as stand-alone benches or combined as multiple units for short or long straight runs. The range comprises 8 interchangeable modules - 2 units offer a minimum seating surface of 500mm (suitable for 1 person), 4 are at 1000mm (2 person) and 2 units at 1500mm long (3 person). The 500mm and 1000mm units are angled at one end and square-faced at the other to offer the option of squaring off the ends of seating runs when multiples units are abutted. A new addition to the range is the 120° elbow, which when combined with standard modules changes in the directions of seating. All Mesa modules are offered in our standard range of concrete colour mixes and finishes, which can be mixed and matched where they are used as multiples.



Cross sectional profile
Common to all Mesa products

MESA RANGE



MESA RANGE

Standard modules

The 8 standard modules in the Mesa range are categorised by:

- The minimum number of people the bench unit will accommodate
- The end forms of the bench, i.e. square, acute or obtuse

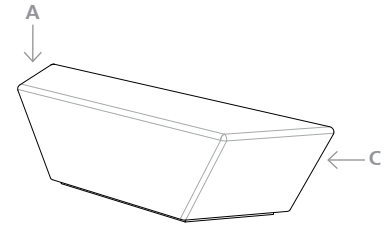
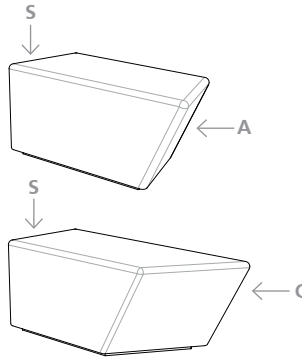
End forms are coded as follows:

- **A:** Acute form, handed left
- **B:** Obtuse form, handed left
- **C:** Acute form, handed right
- **D:** Obtuse form, handed right
- **S:** Square form

For continuous run straight seating walls, the following end codes should be paired:

- **A + B**
- **C + D**
- **S + S**

Any other pairings will result in large gaps between abutting units, or deviation from a straight alignment to the seating wall.



MESA - SQUARE + ACUTE ENDED

1260 x 500 x 500mm

Weight: 600kg

MES2 SA - 2 person unit (top illustration)

MES2 SC - 2 person unit (bottom illustration)

OPTIONS

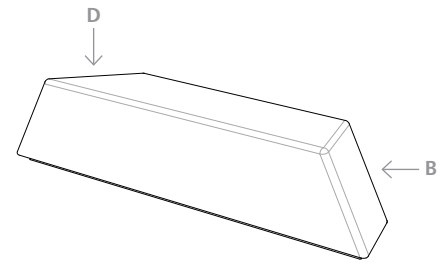
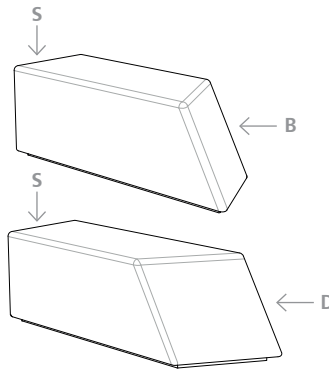
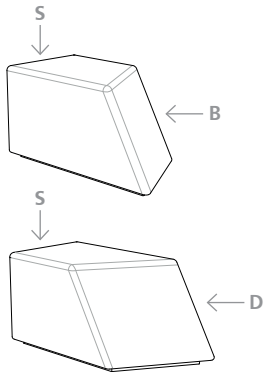
- Range of standard colour mixes and finishes

MESA - ACUTE ENDED

2020 x 500 x 500mm

Weight: 900kg

MES3 AC - 3 person unit



MESA - SQUARE + OBTUSE ENDED

760 x 500 x 500mm

Weight: 450kg

MES1 SB - 1 person unit (top illustration)

MES1 SD - 1 person unit (bottom illustration)

MESA - SQUARE + OBTUSE ENDED

1510 x 500 x 500mm

Weight: 750kg

MES2 SB - 2 person unit (top illustration)

MES2 SD - 2 person unit (bottom illustration)

MESA - OBTUSE ENDED

2530 x 500 x 500mm

Weight: 1200kg

MES3 DB - 3 person unit

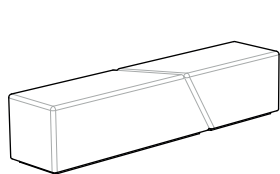
OPTIONS

- Range of standard colour mixes and finishes

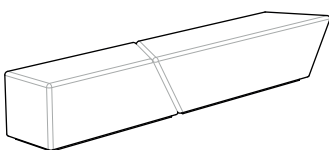
MESA RANGE

Combination options

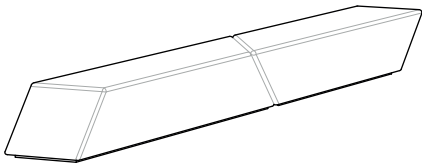
With individual modules featuring various combinations of acute and obtuse angled and square ends, directly abutting compatible adjacent modules can produce a wide variety of different forms for paired combinations or longer continuous seating walls, as shown in the examples below. Note, only straight line runs are achievable in the Mesa range, although corners can be created by abutting two square-ended modules; angular changes in direction cannot be achieved as this results in overlapping planes and voids between adjacent modules.



Both ends square
e.g. **MES2 SB + MES2 SA**



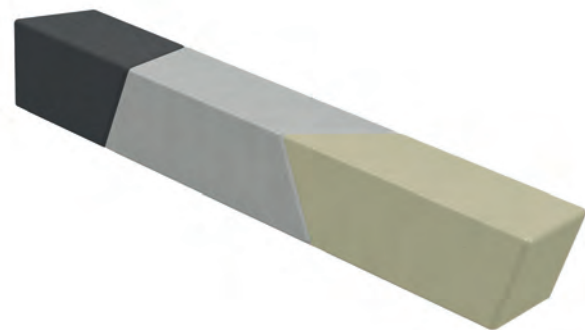
One end square, one end angled
e.g. **MES2 SD + MES3 AC**



Both ends angled
e.g. **MES3 DB + MES3 AC**

Mixings colours & finishes

Further variation can be achieved by using contrasting colour mixes and finishes to visually accentuate the different modules and the angularity of the joints between, as shown in the example here.




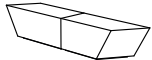

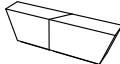
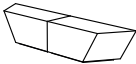

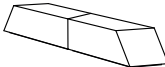
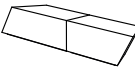
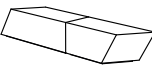

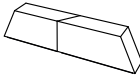
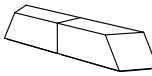
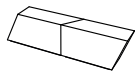

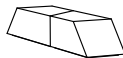
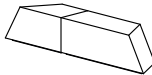
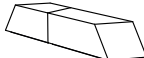
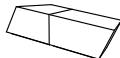
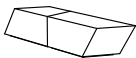



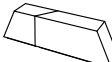

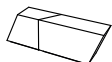
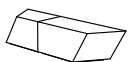






MES2 SA (dark grey) + **MES3 DB** (light grey) + **MES3 AC** (buff)

Shown here are just some of the standard colour and finish options; refer to rear of brochure for full range. Special mixes for specific schemes can be created for larger quantity orders.

	ACID ETCHED	DRESSED	DELUXE POLISHED
WHITE 1			
LIGHT GREY 1			
DARK GREY		N/A	
BUFF			



MESA RANGE

 <p>Square / Acute 2 person right MES2 SC</p>	<p>Paired square-ended modules</p> <p>Mixing different modules in multiple paired combinations can create many visually interesting variations, whilst still retaining a sense of coordination when used across a single scheme.</p> <p>This matrix shows all possible pairing combinations of 1 and 2 person modules when the square ends are placed in 'back-to-back' arrangements, i.e. square face to square face. When used as pairs alone in these combinations, all benches will have compound angled end faces - of either / or acute and obtuse forms.</p>						 <p>2520mm o/a seats 4</p>		
 <p>Square / Acute 2 person left MES2 SA</p>							 <p>2520mm o/a seats 4</p>	 <p>2520mm o/a seats 4</p>	
 <p>Square / Obtuse 2 person right MES2 SD</p>							 <p>3030mm o/a seats 4</p>	 <p>2775mm o/a seats 4</p>	 <p>2775mm o/a seats 4</p>
 <p>Square / Obtuse 2 person left MES2 SB</p>							 <p>3030mm o/a seats 4</p>	 <p>3030mm o/a seats 4</p>	 <p>2775mm o/a seats 4</p>
 <p>Square / Obtuse 1 person right MES1 SD</p>		 <p>2030mm o/a seats 3</p>	 <p>2530mm o/a seats 3</p>	 <p>2530mm o/a seats 3</p>	 <p>2275mm o/a seats 3</p>	 <p>2275mm o/a seats 3</p>			
 <p>Square / Obtuse 1 person left MES1 SB</p>	 <p>2030mm o/a seats 2</p>	 <p>2030mm o/a seats 2</p>	 <p>2530mm o/a seats 3</p>	 <p>2530mm o/a seats 3</p>	 <p>2275mm o/a seats 3</p>	 <p>2275mm o/a seats 3</p>			
<p>^ REAR MODULES</p> <p>> FRONT MODULES</p>	 <p>Square / Obtuse 1 person left MES1 SB</p>	 <p>Square / Obtuse 1 person right MES1 SD</p>	 <p>Square / Obtuse 2 person left MES2 SB</p>	 <p>Square / Obtuse 2 person right MES2 SD</p>	 <p>Square / Acute 2 person left MES2 SA</p>	 <p>Square / Acute 2 person right MES2 SC</p>			

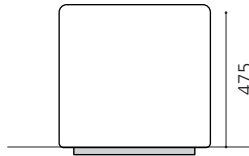
MESA RANGE

Handling and installation

A 25mm high x 50mm deep recess to the lower edge is a design feature on all Mesa modules. This facilitates off-loading and on-site handling by providing an edge against which lifting straps can be located and tensioned. Alternatively, the flat sides suit the use of a grab lift or the flat top is suited to the use of a vacuum lift. The recess also allows two installation options as shown below.

Installation Option 1:

Base of bench set below finished paving level



Advantages:

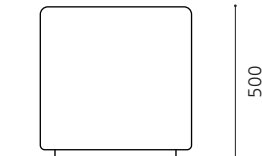
- Benches can be set true level
- Any damage to lower edge of the recess (caused during handling) is hidden beneath the paving
- Paving set below recess overhang so any untidy edges to paving can be hidden

Disadvantages:

- Requires ground excavation

Installation Option 2:

Base of bench set on top of finished paving



Advantages:

- No ground excavation
- Shadow gap visually lifts bench product off the paving

Disadvantages:

- Product will not be true plumb if paving isn't level
- Any untidy paving abutting the recess is visible



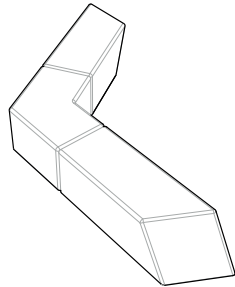
MESA RANGE

A change of direction

The 120° 'elbow' is the latest addition to the Mesa range, with square vertical faces at both ends meaning it can be directly abutted to any of the 6 standard Mesa modules with square ends. This single additional module to the range opens up a whole new raft of configuration possibilities, including those shown below. Multiple elbows can be used on single seating runs; if all in the same direction the seating will begin to create enclosures and if used alternately in opposite directions will form dynamic angular kinks.

1 Elbow:

Adding just one elbow introduces two angled arms to a seating wall, and creates a sense of enclosure in the process.

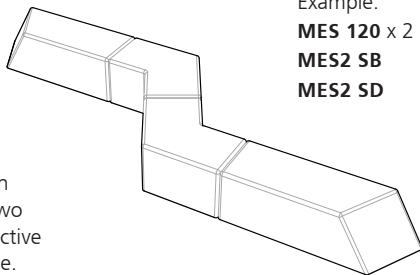


Example:

1 each of **MES 120, MES2 SC, MES2 SD**

2 Elbows:

In a single run, used in opposite directions, two elbows create a distinctive kink to the seating line.

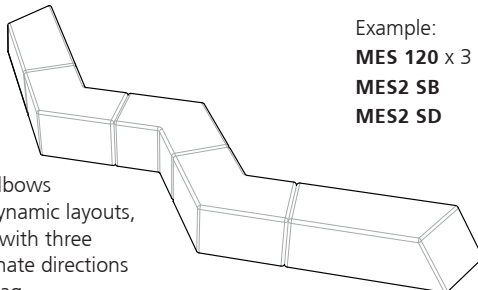


Example:

MES 120 x 2
MES2 SB
MES2 SD

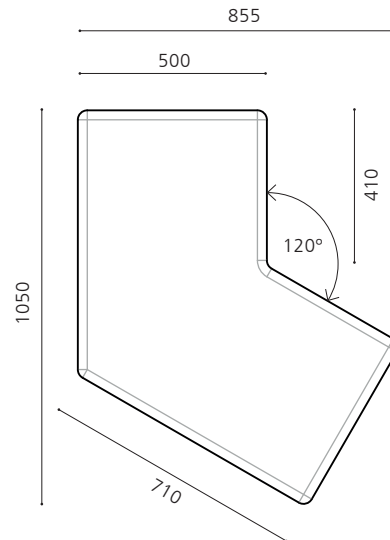
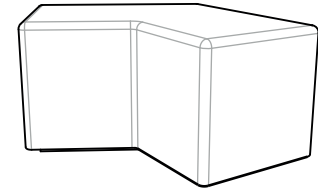
3 Elbows:

Adding more elbows creates more dynamic layouts, as shown here with three elbows in alternate directions creating a zig-zag.



Example:

MES 120 x 3
MES2 SB
MES2 SD



MESA - 120° ELBOW, SQUARE ENDED

1050 x 855 x 500mm high

Weight: 650kg

MES 120 - 2 / 3 person unit

OPTIONS

- Range of standard colour mixes and finishes



MESA RANGE

Case study: 45 Millharbour, London Docklands

45 Millharbour is a residential development of two 14-storey towers and a 7-storey linking block on the west side of Millwall Inner Dock, in the heart of London's Docklands. Between the north façade of the new development and its neighbour building a public walkway has been created to connect the dockside and the Millharbour road. Within this space an exciting new playground has been created, incorporating innovative interactive play elements set within a mosaic of different paving materials and soft landscape. The architects sought visually interesting, colourful and robust concrete seating for the area, making Mesa the ideal choice. The Mesa modules previously allowed just straight line configurations though, but the architect was seeking more dynamic arrangements. This led to the development of an additional angular module used as an 'elbow' in plan, to connect straight modules to at different angles. Five seating assemblies have been created from 18 individual modules, cast in a common red concrete mix, but all unique in their configurations and designed to encourage social use of the seating. Stainless steel armrests were fitted to selected concrete modules, primarily to aid people standing up from a seated position, but also serving to visually accentuate the angularity of the assemblies and to create physical obstructions as deterrents to skateboarding.



PODIUM RANGE



The Podium concept

Podium is a new range of benches designed around a 'mix and match' selection of seat platforms and seat supports. The concrete seating platform is the core component of the range and is available in 4 styles (2 of which include timber features), and generally in 2 width options. The platform is elevated on a choice of 4 seat support styles, which can be fitted either at the ends of the seat platform, or inset. Benches can be used as independent seats or as multiples to form continuous seating runs.

The main features of the Podium range are:

- Reinforcement to all concrete components for added strength
- 4 seat platform styles, mostly in 2 width options
- 4 sets of pre-determined leg fixing points on all platforms
- Wide range of standard concrete colours and finishes
- 4 seat support styles, with 2 width options
- Variety of steel materials and finish options for supports

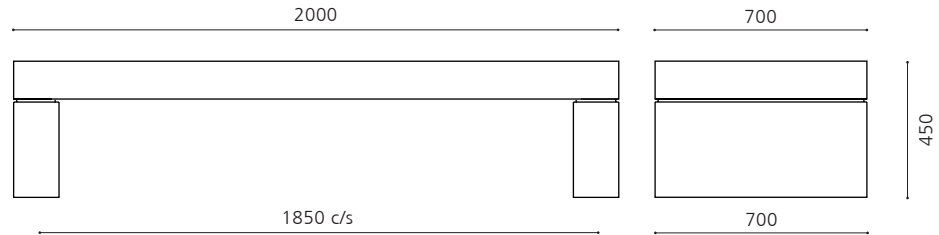


PODIUM RANGE

Variable fixing points

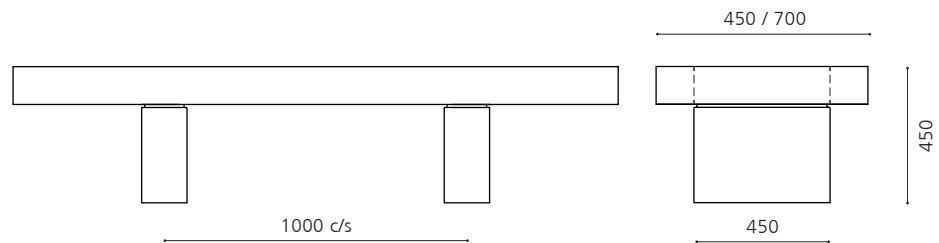
The underside of the seat platform is pre-fitted with connectors that enable the legs to be fitted at the ends or inset. 450mm wide legs can be used with the 700mm and the 450mm wide platforms, whereas the 700mm wide legs are compatible only with 700mm wide platforms. For continuous runs of seating the inset fixing positions are set so that the legs are evenly spaced at 1m centres.

Note: seat supports shown here are concrete block ends; other seat support types are to the same overall unit dimensions.



Legs set at end positions

Wide leg



Legs set at inset positions

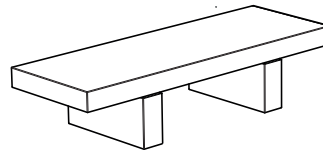
Narrow leg



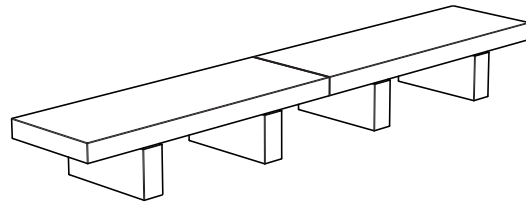
PODIUM RANGE

Configurations

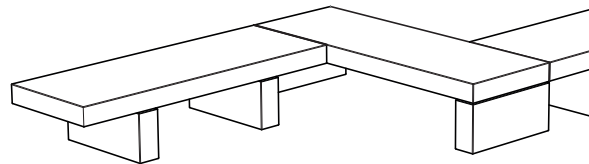
The versatile Podium range is able to provide seating solutions in many different configurations, including:



Stand-alone benches



Multiple benches in continuous linear run



Multiple benches with changing alignment

Further variations can be achieved by using different seat platform and seat supports styles, sizes and materials.



PODIUM RANGE



PODIUM RANGE

Seat platforms

4 styles of seat platforms are available as standard - plain and perforated concrete, timber-topped and timber-edged designs - most of which are available in 2 width options. A 700mm wide platform is suitable for informal seating from both sides at the same time, whereas the 450mm is essentially for single-sided seating, for situations where space is restricted and / or there is a single aspect view. Benches can be used as independent seats or as multiples to form continuous seating runs.

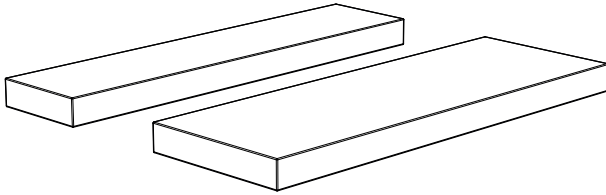
All concrete platforms are reinforced for added strength and pre-fitted with threaded inserts for bolting on a choice of seat supports, either at the end of the platform or inset. Concrete components are available in a wide range of standard colours and finishes, and special mixes can be created if you are seeking to match with other site features and materials.

Anti-skate devices can be fitted to most seat platforms to discourage skaters from grinding along and causing damage to the edges of the benches.



- 4 seat platform styles
- 2 width options
- 4 sets of pre-determined leg fixing points on all platforms
- Reinforcement to all concrete components for added strength
- Wide range of concrete colours and finishes
- Anti-skate device options

PODIUM RANGE



PODIUM - PLAIN CONCRETE SEAT PLATFORM

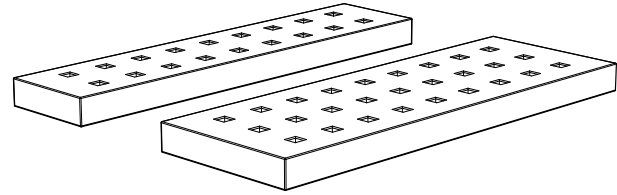
2000mm long x 125mm high in reinforced concrete

PDS1 - 450mm wide seat platform, weight: 270 kg

PDS2 - 700mm wide seat platform, weight: 420 kg

OPTIONS

- Range of standard concrete mixes and finishes
- Anti-skate devices



PODIUM - PERFORATED CONCRETE SEAT PLATFORM

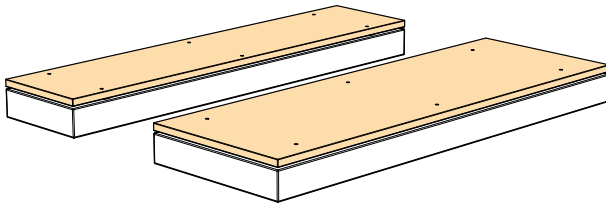
2000mm long x 125mm high in reinforced concrete

PDP1 - 450mm wide seat platform, weight: 260 kg

PDP2 - 700mm wide seat platform, weight: 400 kg

OPTIONS

- Range of standard concrete mixes and finishes
- Anti-skate devices



PODIUM - CONCRETE + TIMBER TOPPED SEAT PLATFORM

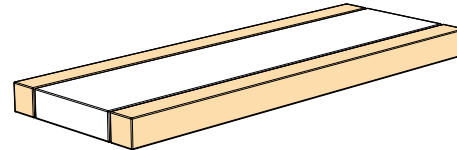
2000mm long x 165mm high, reinforced concrete with laminated certified iroko timber board top

PDST1 - 450mm wide seat platform, weight: 280 kg

PDST2 - 700mm wide seat platform, weight: 450 kg

OPTIONS

- Range of standard concrete mixes and finishes



This platform can only be used in combination with steel seat supports (not concrete block types)

PODIUM - CONCRETE + TIMBER EDGED SEAT PLATFORM

2000mm long x 125mm high, reinforced concrete with certified iroko timber edge beams

PDSE1 - 700mm wide seat platform, weight: 300 kg

OPTIONS

- Range of standard concrete mixes and finishes
- Anti-skate devices

PODIUM RANGE

Seat supports

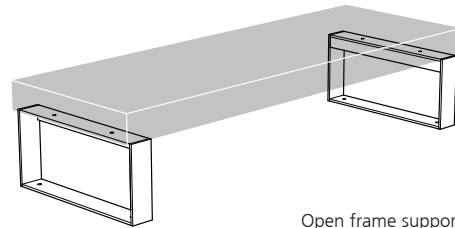
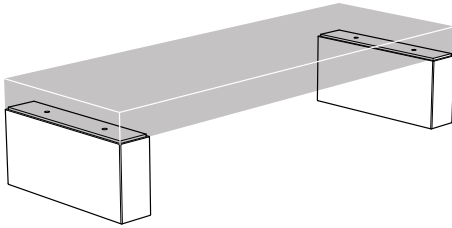
4 diverse styles of seat supports are available as standard, which are simply bolted to the pre-fitted threaded inserts in the underside of the seat platform (either at the ends or inset) to create the overall seat assembly. All support styles are available in 2 width options - 450mm wide supports which can be used with 450mm and 700mm wide seat platforms, and 700mm, which is suitable for 700mm wide platforms only.

Concrete supports are available in a wide range of standard colours and finishes, and special mixes can be created for larger order volumes. The supports can be manufactured in the same mix as for the platform or in a contrasting finish. Fabricated steel supports are available in galvanised mild steel, stainless steel (various grades and finishes) and self-weathering corten steel.

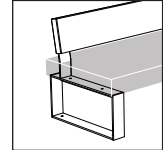
- 4 seat support styles
- 2 width options
- Pre-drilled to align with fixing points on seat platforms
- Wide range of concrete colours and finishes
- Galvanised mild steel / stainless steel / corten steel



PODIUM RANGE



Open frame support
with integral backrest



PODIUM - CONCRETE BLOCK SEAT SUPPORT

450 / 700mm wide x 325mm high x 150mm in reinforced concrete

L45C - 450mm wide seat support (pair), unit weight: 53 kg

L70C - 700mm wide seat support (pair), unit weight: 82 kg

OPTIONS

- Range of standard concrete mixes and finishes

PODIUM - OPEN FRAME STEEL SEAT SUPPORT

450 / 700mm wide x 325mm high x 100mm in galvanised steel

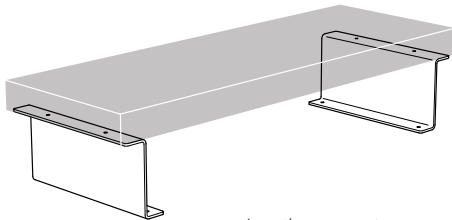
L45F - 450mm wide seat support (pair)

L70F - 700mm wide seat support (pair)

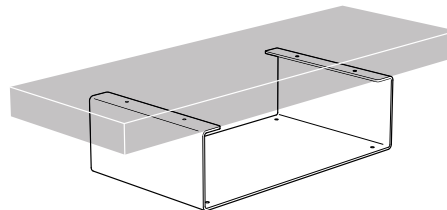
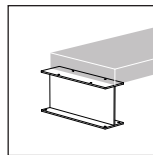
L70F B - 700mm wide seat support (pair) c/w iroko backrest
(Only compatible with seat platform type **PDSE1**)

OPTIONS

- Stainless steel (various grades + finishes) / corten steel



I-section supports are used
only for adjoining benches



PODIUM - PLATE (INDIVIDUAL) STEEL SEAT SUPPORT

450 / 700mm wide x 325mm high in galvanised steel

L45Z - 450mm wide seat support Z-section (pair)

L70Z - 700mm wide seat support Z-section (pair)

L45J - 450mm wide seat support I-section (individual)

L70J - 700mm wide seat support I-section (individual)

OPTIONS

- Stainless steel (various grades + finishes) / corten steel

PODIUM - PLATE (CONTINUOUS) STEEL SEAT SUPPORT

450 / 700mm wide x 1150mm long x 325mm high in galvanised steel

L45U - 450mm wide seat support

L70U - 700mm wide seat support

OPTIONS

- Stainless steel (various grades + finishes) / corten steel

PODIUM RANGE

Selected combinations

Shown here are some of the possible combinations of Podium components used to create individual seats, in a variety of indicative materials and finishes. If you would prefer an alternative assembly and / or materials we can provide a visualisation for your consideration.



• Podium Combination: **PDS2 L70C**



• Podium Combination: **PDS1 L45F**



• Podium Combination: **PDS1 L4Z**



• Podium Combination: **PDST2 L45C**



• Podium Combination: **PDS2 L45UCT**



• Podium Combination: **PDS2 L45C**



• Podium Combination: **PDSE1 L70FSS**



• Podium Combination: **PDS2 L70FSS**

PODIUM RANGE



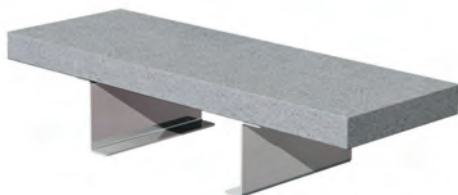
- Podium Combination: **PDSE1 L70FSS B**



- Podium Combination: **PDS1 L45C**



- Podium Combination: **PDP2 L70C**



- Podium Combination: **PDS2 L70Z**

Handling & installation

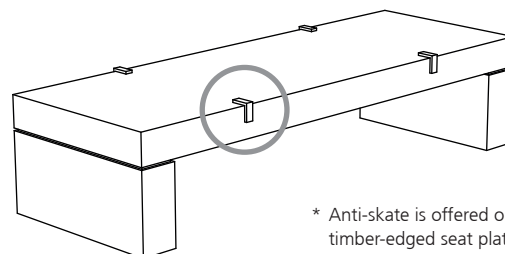
The degree of off-site assembly for the Podium benches depends on which components make up the selected combination.

For all benches containing concrete block supports, the seat platforms and supports are supplied separately for on-site assembly. A fixing kit - comprising studs to locate the bench top onto the legs and epoxy resin to permanently fix the joints - is supplied with each order. Providing the bench is installed level and given the extremely heavy weight of an assembled unit, these combinations are generally left as free-standing products, without the need for fixing into the ground.

Benches with steel seat supports can be pre-assembled prior to delivery, though care should be taken in handling such items - the weight of the product should be lifted by or supported through the concrete seat platform only, not through the steel supports or timber elements on the platform. All steel supports are pre-drilled for bolting down on top of the ground. Extended height versions of most steel seat supports can be provided to allow for bolting down below-ground if required.

Anti-skate

Podium benches* which may be vulnerable to abuse by skaters can be factory-fitted with anti-skate devices. The illustration below shows the standard setting out of 4 no. anti-skate devices on a 2m long seat platform, which is designed to align with standard seating positions. Further devices can be added if required. Our standard anti-skate fitting for the Podium range is a stainless steel flat bar which is raised by 10mm above the seat platform, and invisibly fixed / permanently bonded onto the seat platform on its reverse side.



* Anti-skate is offered on concrete and timber-edged seat platforms, but not on timber-topped platforms

FORTIS RANGE



Modular concrete & timber seating

Fortis is a new seating product designed to offer an adaptable range of configuration options from a limited number of standard components. The concrete plinth is the central component of the range, onto which timber-slatted seat and bench platforms can be mounted. The concrete plinth is also useable as a seating platform on its own. Fixing points are pre-fitted to all concrete plinths, regardless of whether or not they are all needed in the initial assembly, thereby allowing seat platforms to be easily repositioned or replaced at a later date. Fortis is ideal for long continuous seating 'walls', where the concrete plinths allow informal (slightly lower level) seating and the timber seating platforms offer greater comfort. Bench platforms (without backrests) allow access from both sides and seat platforms can be fixed with the backrest to either side, to allow dual orientation on a single seat.

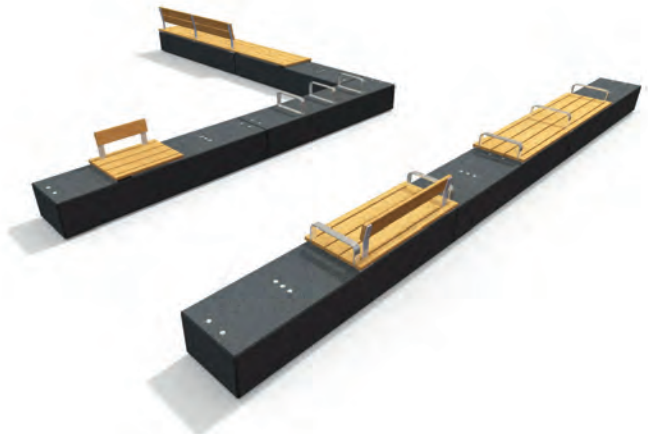
Set out in variable configurations on the same scheme, the Fortis gives the impression of a purpose-made design, but is all achievable with a small number of common components which offer cost-effective seating solutions.

Combinations + configurations

This illustration shows an example of the many layout options achievable with the Fortis range.

The main features of the Fortis range are:

- Concrete plinth pre-fitted with fixing points to accommodate bench and seat platforms for 1-4 people
- Available in a wide selection of concrete mixes and finishes
- Robust seat supports in galvanised or stainless steel
- A choice of timber profiles and layouts
- Optional armrests and backrests (available in 2 heights)



FORTIS RANGE

Standard options

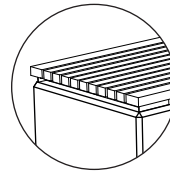
The standard Fortis range includes the following options:

- **Seats** (with backs) & **benches** (without backs)
- **Seat platforms** - to suit 1-4 person seating positions
- **Timber profiles** - 2 orientations & 3 size options
- **Armests** - linked to seat platform or independent
- **Backrests** - high or low
- **Multiple assemblies** - for continuous seating walls

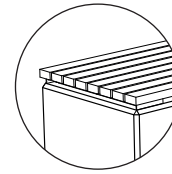
Continuous seating walls

For continuous seating walls comprising multiple seats / benches, adjacent concrete plinths can be directly abutted and seating platforms can be designed to bridge across adjoining concrete plinths. Plinths can be placed independently as a dry-fit joint, or the joint can be filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.

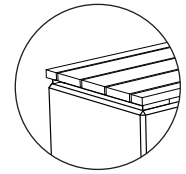
Side-to-side slat arrangements*



Small timbers
40mm wide

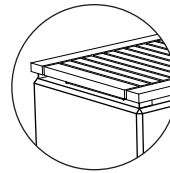


Medium timbers
65mm wide

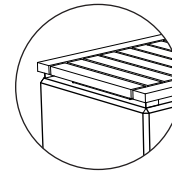


Large timbers
140mm wide

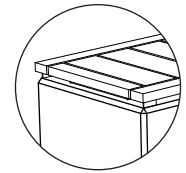
Front-to-back slats arrangements**



Small timbers
40mm wide



Medium timbers
65mm wide



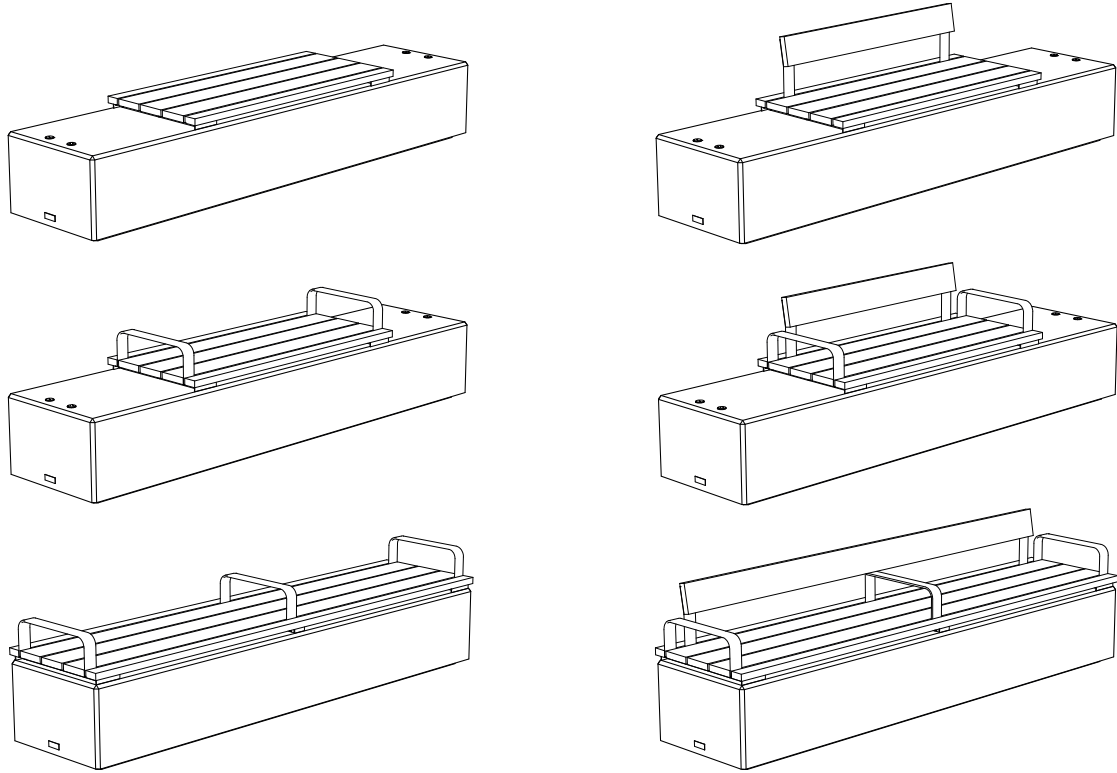
Large timbers
140mm wide

* All side-to-side layouts use a 65mm wide timber for front & back slats.

** All front-to-back layouts use a 65mm wide timber for front, back & end slats.



FORTIS RANGE



Selected bench and seat platform assemblies with large timbers in side-to-side arrangement

Further variations of timber sizes and orientation, platform lengths, arm and backrest positions and backrest heights are available - please complete the 'Fortis seating specifications' form to show your preferred configuration, and we will send you a sketch of your chosen assembly

FORTIS

Bench / seat with concrete plinth and timber seating platform on galvanised steel supports, with large timber slats in side-to-side arrangement
2540mm long x 590mm deep concrete plinth, weight: 1,400kg (concrete only)

BENCHES:

- FTB 22L** - Bench with 2-person platform (no arms)
- FTB 22L C** - Bench with 2-person platform + arms
- FTB 4L S** - Bench with 4-person platform + arms

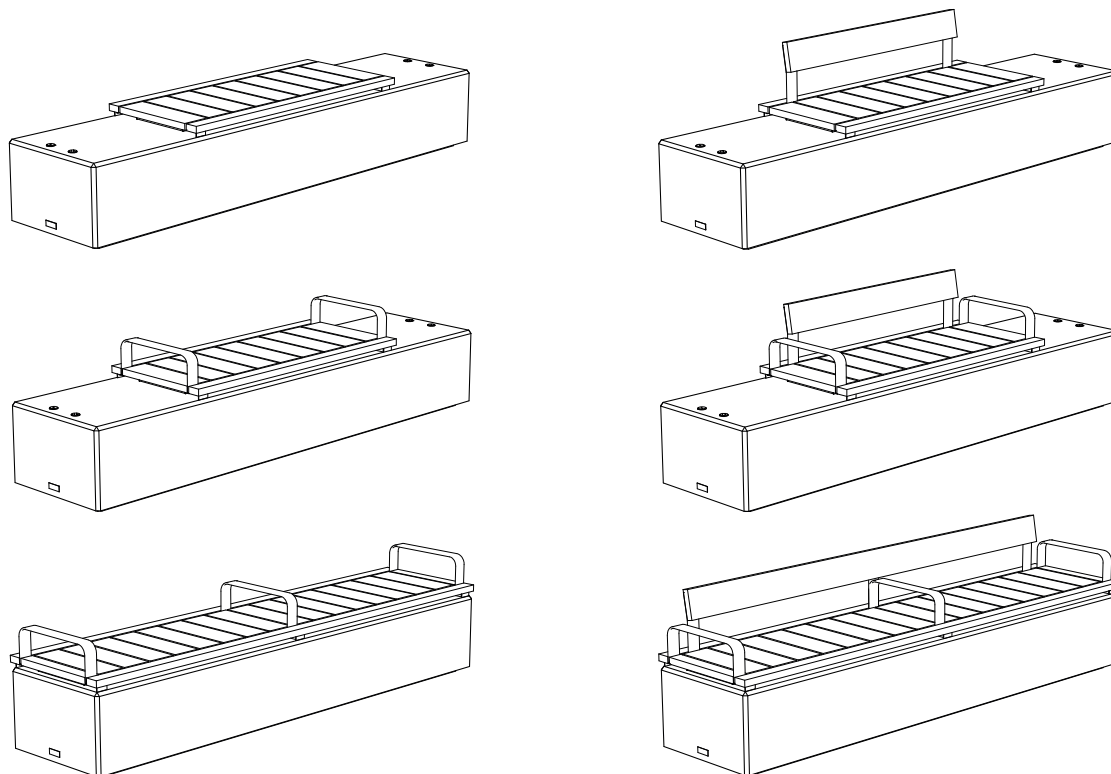
SEATS:

- FTS 22L L** - Seat with 2-person platform (no arms)
- FTS 22L LC** - Seat with 2-person platform + arms
- FTS 4L LS** - Seat with 4-person platform + arms

OPTIONS

- Range of standard concrete mixes and finishes
- Seat platform support / armrest / backrest support metalwork in polyester powder coated steel or stainless steel (various grades + finishes)

FORTIS RANGE



Selected bench and seat platform assemblies with large timbers in front-to-back arrangement

Further variations of timber sizes and orientation, platform lengths, arm and backrest positions and backrest heights are available - please complete the 'Fortis seating specifications' form to show your preferred configuration, and we will send you a sketch of your chosen assembly

FORTIS

Bench / seat with concrete plinth and timber seating platform on galvanised steel supports, with large timber slats in front-to-back arrangement
2540mm long x 590mm deep concrete plinth, weight: 1,400kg (concrete only)

BENCHES:

FTB 22H - Bench with 2-person platform (no arms)

FTB 22H C - Bench with 2-person platform + arms

FTB 4H S - Bench with 4-person platform + arms

SEATS:

FTS 22H L - Seat with 2-person platform (no arms)

FTS 22H LC - Seat with 2-person platform + arms

FTS 4H LS - Seat with 4-person platform + arms

OPTIONS

- Range of standard concrete mixes and finishes
- Seat platform support / armrest / backrest support metalwork in polyester powder coated steel or stainless steel (various grades + finishes)



FORTIS RANGE

Fortis seating specifications

Please use this form to select the specification you require for your Fortis range bench or seat. Once completed, simply send it to us and we will provide you with a quotation and 3D drawing of the product assembly by return. If you would like to consider more than one option please send multiple forms, or call us to discuss.

Please send completed forms to:

email: **sales@furnitubes.com** or

fax: **0208 378 3250**

Name:

Company:

Tel:

Email:

Project name:

Quantity required:

CONCRETE PLINTH:

Colour mix:

Ref: _____ (refer to standard options chart)

Finish:

- ☐ Acid etched ☐ Dressed ☐ Deluxe polished
☐ Sealant coating (standard on timber-topped units)

SEAT PLATFORM:

Steelwork support material / finish:

- ☐ Steel, galvanised finish
☐ Steel, powder coated finish, RAL _____
☐ Stainless steel, G304, satin polished
☐ Stainless steel, G304, bright polished
☐ Stainless steel, G316, satin polished
☐ Stainless steel, G316, bright polished

Seat slat orientation:

- ☐ Side-to-side
☐ Front-to-back

Seat slat size:

- ☐ Small (40mm wide)
☐ Medium (65mm wide)
☐ Large (140mm wide)

(all configurations use medium slats along the front & back edges)

BACKRESTS: (material / finish as per Seat Platform support)

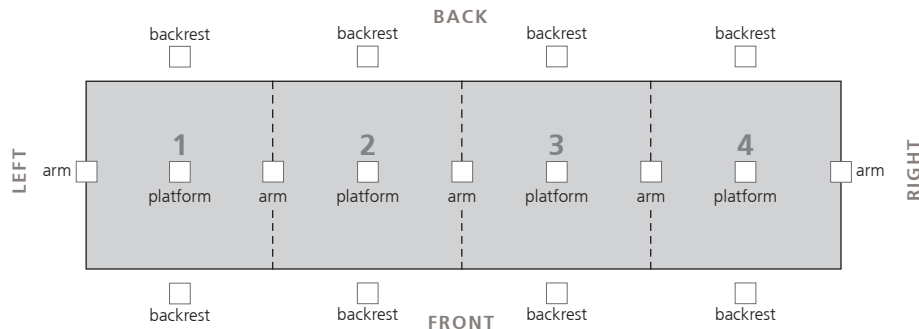
Height:

- ☐ Low
☐ High

Backrest slat size:

- ☐ Small (40mm wide)
☐ Medium (65mm wide)
☐ Large (140mm wide)

Please indicate your requirement for and positions of seat platform(s), arm(s) and backrest(s) on this diagram.

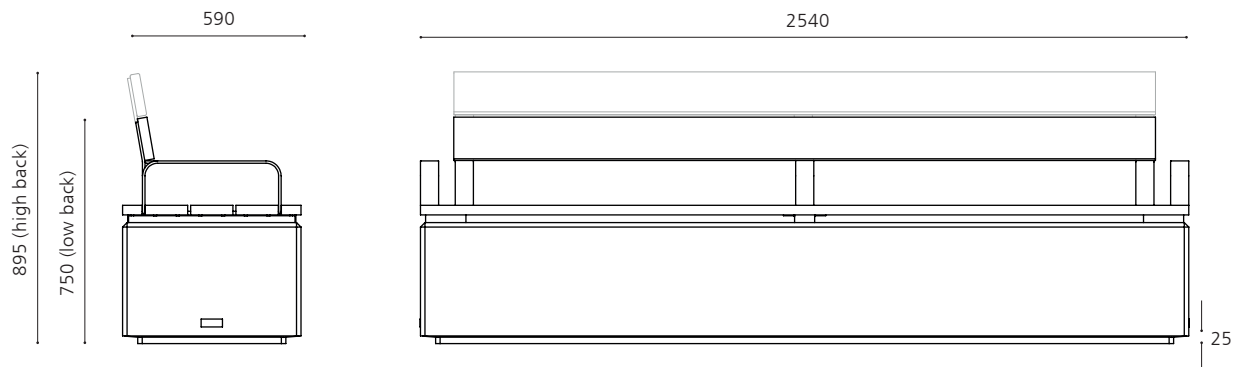


FORTIS RANGE



Handling & installation

For ease of transportation and handling, and to minimise the chances of damage prior to installation, Fortis seating is supplied in component form for on-site assembly. The concrete plinth is lifted and lowered into position by using straps (not supplied) which can be tensioned against the recess to the underside of the bench. The plinth can be placed directly on top of the ground, or a recess can be formed in the paving into which the inset base is located. Seat and bench platforms are supplied pre-assembled and are fitted to the plinth with simple bolted connections accessed between the timbers. The timbers are fixed to the steel framework with discrete fixings, which can be removed if the timbers need to be replaced in future. Given their heavy weight, Fortis seats / benches are generally left free-standing.



FORTIS RANGE



FORTIS RANGE



AMESBURY

Contemporary and versatile concrete seating

Originally designed as one-offs for a Public Art commission for a housing development in Shoreham-by-Sea, the Amesbury (and its sister product the Marlborough) have now become standard production items and have proved to be popular additions to Furnitubes' concrete seating range. The Mk 2 Amesbury has been cleverly adapted so that it can be installed in 3 different orientations - providing a gentle curved seating platform, upturned to act as a chaise-longue, or placed on either of its 'side' faces to offer flat seating surfaces.

2430

510

AMESBURY

2430mm x 510mm x 500mm

Weight: 790kg

FCP302

Freestanding reinforced concrete bench

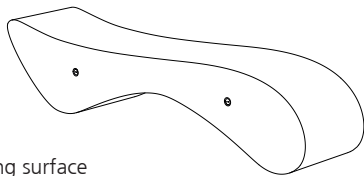
OPTIONS

- Range of standard concrete mixes and finishes
- Polished flat surfaces

AMESBURY

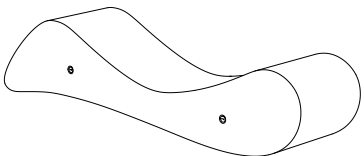
Orientation 1:

Gently curved seating surface



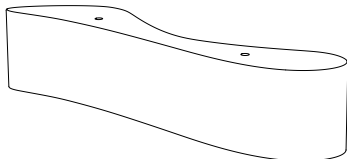
Orientation 2:

Chaise-longue style seating



Orientation 3:

Flat seating surface
(bench can be placed on either of its flat sides)



Handling and installation

The Amesbury is pre-fitted with 2 threaded inserts on each of its 2 flat 'sides'. It is supplied with lifting hooks which are screwed into the inserts and to which lifting straps (not supplied) can be secured to allow the bench to be safely manoeuvred into position. For installation orientations 1 and 2 as shown above, all 4 lifting hooks can be used. After placement, the hooks are removed and stainless steel cover caps fitted in their place. Weighing 790kg, the Amesbury is sufficiently heavy to allow it to be freestanding in most applications.

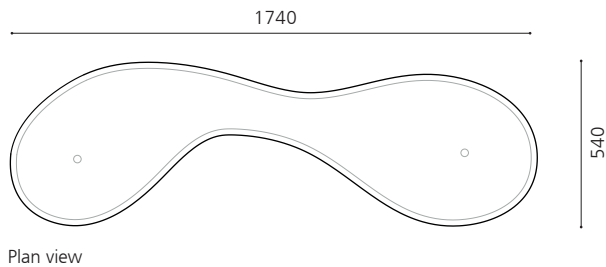


MARLBOROUGH

Organic-form concrete bench

The curved lines of the Marlborough concrete bench introduce informality to external seating arrangements and are often specified for the reason that they are far less vulnerable to abuse by skaters than straighter-edged products. The benches are available in a range of standard concrete mixes and finishes.

Originally designed as one-offs for a Public Art commission for a housing development in Shoreham-by-Sea, the Marlborough bench is the sister product of the Amesbury and are often used together in adventurous architectural landscape schemes. Both products have become production items and have proved to be popular additions to Furnitubes' concrete seating range.



Plan view

MARLBOROUGH

1740mm x 540mm x 450 / 475mm high

Weights: 700kg

FCP301

Freestanding reinforced concrete bench

OPTIONS

- Range of standard concrete mixes and finishes
- Polished top surface



MARLBOROUGH

Handling

The Marlborough bench is pre-fitted with 2 threaded inserts in the top of the product, and supplied with lifting hooks which are screwed into the inserts and to which lifting straps (not supplied) can be secured to allow the bench to be safely manoeuvred into position. After placement, the hooks are removed and stainless steel cover caps fitted in their place. Weighing 700kg, the Marlborough is sufficiently heavy to allow it to be freestanding in most applications.

Installation

A 25 x 25mm recess to the lower edge is a feature on the Marlborough, allowing 2 installation options.

Installation Option 1:

Base of bench set below finished paving level

Advantages:

- Benches can be set true level
- Any damage to lower edge of recess (caused by handling) is hidden beneath paving
- Paving set below recess so untidy edges can be hidden
- Paving set below recess

Disadvantages:

- Requires ground excavation



Installation Option 2:

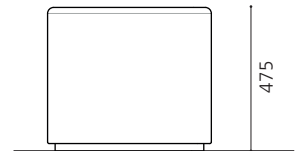
Base of bench set on top of finished paving

Advantages:

- No ground excavation
- Shadow gap visually lifts bench product off paving

Disadvantages:

- Product will not be true plumb if paving isn't level
- Any untidy paving abutting the recess is visible



DRAKON RANGE

Sculptural concrete seating blocks

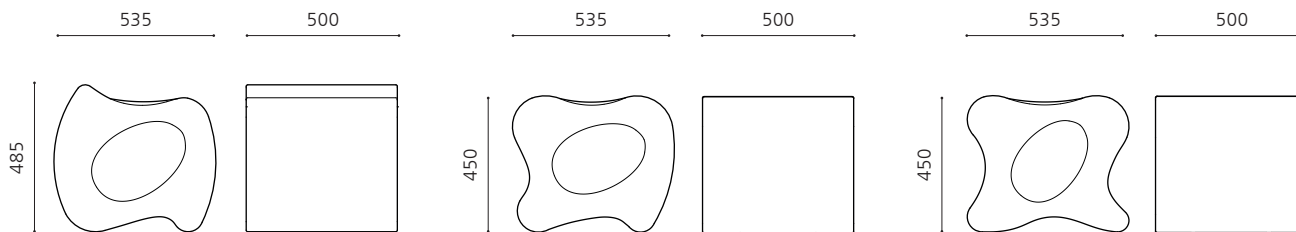
Drakon is an exciting, unique and new range of seating blocks exclusive to Furnitubes - based on a concept of large scale dragon's teeth. Available in 3 complementary but subtly different forms, Drakon offers a softer more sculptural aesthetic compared with square-faced seating units such as the Blyth and Fortis. The blocks particularly lend themselves to informal seating arrangements, for sites such as pocket parks and school courtyards. The products are available in our wide range of standard concrete colour mixes and finishes, with the option of a contrasting polished finish on the flat sides. The oval shape on both sides of the blocks is a shallow dish recess in the same finish as the surrounding faces, except when these are polished.



DRAKON Forms I, II & III are Registered Designs of Furnitubes International Ltd.



DRAKON RANGE



DRAKON - FORM I

500 x 535 x 485mm

Weight: 250kg

DRK1

Concrete seating block and ground anchors

DRAKON - FORM II

500 x 535 x 450mm

Weight: 240kg

DRK2

Concrete seating block and ground anchors

DRAKON - FORM III

500 x 535 x 450mm

Weight: 240kg

DRK3

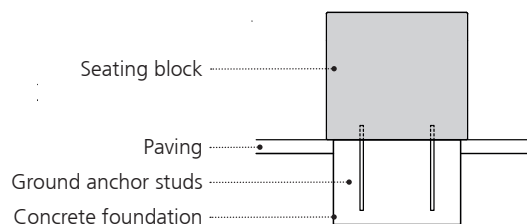
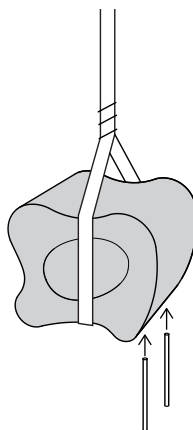
Concrete seating block and ground anchors

OPTIONS

- Range of standard concrete mixes and finishes
- Polished side faces (flat areas only - not dishes)

Handling and installation

The raised underside to the centre of all units allows the blocks to be readily strapped for ease of lifting and installation. Weighing around 250kg, the blocks can be left free-standing, but in public areas we recommend they are anchored to the ground via the 2 ground anchor studs supplied, which are fitted into threaded inserts in the underside of the block. The studs can be set in a dedicated concrete foundation or chemically fixed into holes drilled in the paving.



Indicative installation detail

DRAKON Forms I, II & III are Registered Designs of Furnitubes International Ltd.

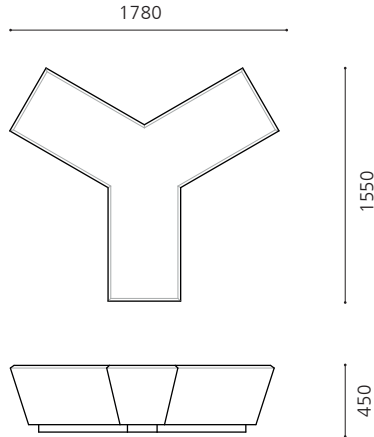
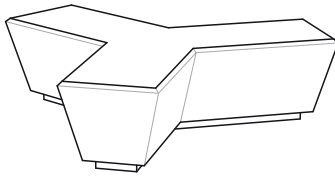
COSMOS RANGE

Social seating modules

The Cosmos range of benches is ideal for sites that require informal social seating, such as courtyards or school playgrounds. Available in 3-arm and 4-arm versions, the benches are flat-topped with the side faces angled back to make a more dynamic form, which also improves seating comfort and reduces weight. Cosmos benches are available in any of Furnitubes' standard colour mixes and finishes. Using different colours on adjacent benches on the same site can also add visual interest to the scheme. The benches can be used singularly but are particularly effective when arranged in clusters, especially when both the 3-arm and 4-arm versions are used together, or combined with simple block seating, such as the Blyth range. The shapes of the products make them easy to sling around for lifting into position. Given the heavy weight of the Cosmos benches they are generally just set on top of the finished paving. The 3-arm version has a recessed base which produces a shadow gap at ground level.



COSMOS RANGE



COSMOS TRI-ARM

1780mm x 1550mm x 450mm high

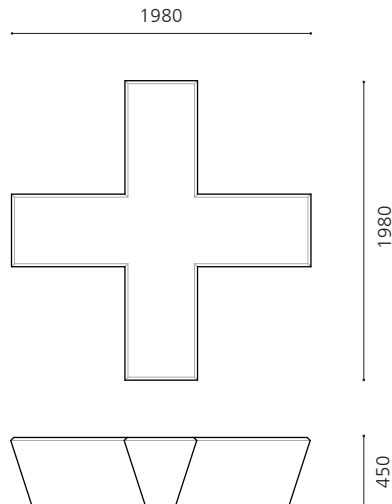
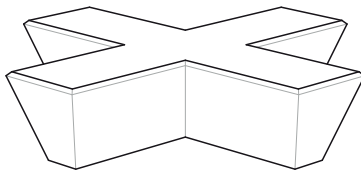
Weight: 975kg

COSMOS 3

Freestanding concrete bench

OPTIONS

- Range of standard concrete mixes & finishes



COSMOS QUAD-ARM

1980mm x 1980mm x 450mm high

Weight: 1300kg

COSMOS 4

Freestanding concrete bench

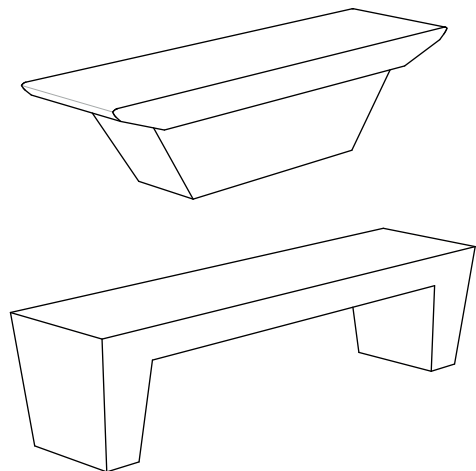
OPTIONS

- Range of standard concrete mixes & finishes



Stand-alone concrete benches

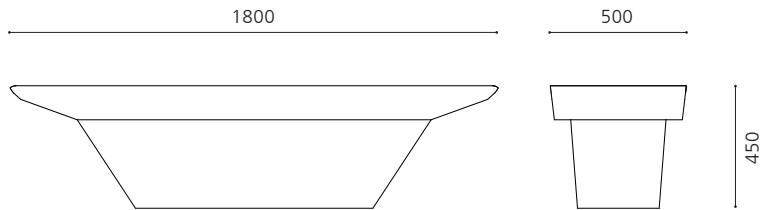
Rise and Bridge benches are economic stand-alone concrete seating units. They are straightforward in production terms and their tapered sides and reduced bulk compared with many other benches make for cost-effective seating solutions. Both benches are available only in the basic forms shown and generally just placed onto finished paving, without the need for any groundworks.



RISE + BRIDGE

Rise concrete bench

Rise is an economic one-piece stand-alone concrete bench with a seating surface overhanging a solid inset base block. At 1800mm long, the bench comfortably accommodates 3 adults. Given its heavy weight, the Rise can be simply installed by placement onto finished paving, without the need for any groundworks.



RISE

1800mm x 500mm x 450mm high
Weight: 530kg

RIS6

Freestanding concrete bench

OPTIONS

- Range of standard concrete mixes & finishes

Bridge concrete bench

Bridge is a visually light, one-piece concrete casting, suitable for use as a stand-alone bench. At 2000mm long, the bench will seat 4 adults. Its relatively light weight (in concrete terms) and the void beneath the bench top makes the Bridge relatively simple to handle and position on site.



BRIDGE

2000mm x 500mm x 500mm high
Weight: 480kg

BRI6

Freestanding concrete bench

OPTIONS

- Range of standard concrete mixes & finishes

CORE SEATING & TABLE RANGE

Core stand-alone seats and seating walls

The Core concrete range provides simple yet elegant seating in a variety of different sizes and forms. The Core range consists of stand-alone units which can be used to form clusters of informal seating and tables, or modular units that can be used to create long seating arrangements for larger schemes. Here are some of the benefits of the Core seating range:

- Economical, simple range designed to work in most locations
- Various sizes available to suit a variety of scheme requirements
- Wide range of standard concrete colours and finishes
- Individual units for stand-alone situations
- Modular seating walls to allow for long, continuous runs
- Rounded edges for added comfort and to reduce the risk of chipping



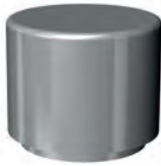
CORE SEATING & TABLE RANGE

Core stand-alone units

For creating informal seating arrangements



Square seating block



Circular seating block



Rectangular seating block



Table

Core modular seating walls

Flexible styles for large seating requirements



Curved modular seating walls



Linear modular seating walls



Curved modular seating walls & planter



Combined curved & linear modular seating walls

CORE STAND-ALONE SEATING BLOCKS & TABLE

Stand-alone concrete benches & table

The Core range features a variety of stand-alone concrete seating blocks that can be used to create informal clusters of seating within a scheme. The blocks all have flat tops and a radius on the top edges and sides of 25mm. The range consists of the following forms:

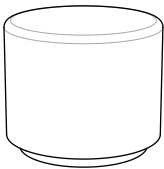
- **Square** - there are three different plan sizes available, with a common height of 450mm above ground
- **Circular** - a single option of Ø600mm and sit 500mm above ground
- **Rectangular** - these blocks are all 450mm above ground and are available in a range of lengths and with anti-skate devices

The Core range also features a table that can be used in conjunction with the stand-alone seating blocks, all of which are available in a range of standard colour mixes and finishes.

Installation

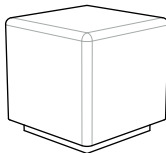
Models COS450 R, COS650 R and COC600 R have a 50mm x 50mm recess at the base. This allows the bench to be installed either on top of the ground or the recess inset into the ground - the benefits of each method are illustrated in the Blyth section of Furnitubes' concrete seating brochure. Please note that the faces of the recess are left 'as-struck' and not finished to match the main body of the bench.

Models COS450 and COS800 are flat-based, without a recess.



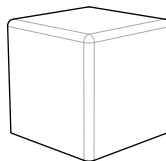
COC600 R

Circular concrete seating block
Ø600mm x 500mm high
50mm x 50mm recess
Weight: 336kg



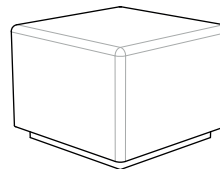
COS450 R

Square concrete seating block
450mm x 450mm x 450mm high
50mm x 50mm recess
Weight: 215kg



COS450

Square concrete seating block
450mm x 450mm x 450mm high
Weight: 215kg



COS650 R

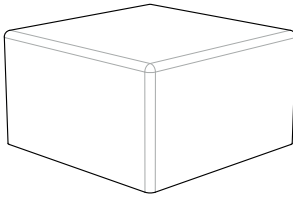
Square concrete seating block
600mm x 600mm x 450mm high
50mm x 50mm recess
Weight: 385kg

OPTIONS

- Range of standard concrete mixes and finishes



CORE STAND-ALONE SEATING BLOCKS & TABLE

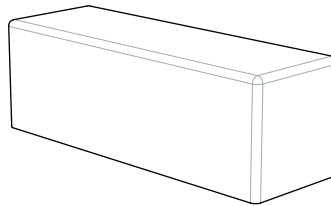


COS800

Square concrete seating block
800mm x 800mm x 450mm high
Weight: 690kg

OPTIONS

- Range of standard concrete mixes and finishes
- 1000mm x 1000mm x 450mm high version

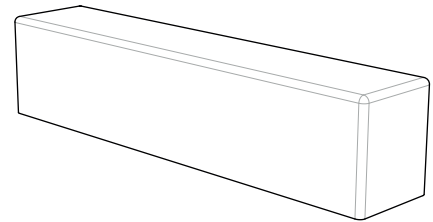


COR135

Rectangular concrete seating block
1350mm x 450mm x 450mm high
Weight: 655kg

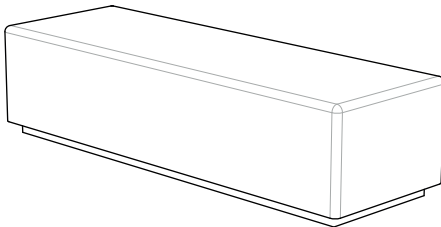
OPTIONS

- Range of standard concrete mixes and finishes
- Anti-skate devices



COR200

Rectangular concrete seating block
2000mm x 400mm x 450mm high
Weight: 864kg

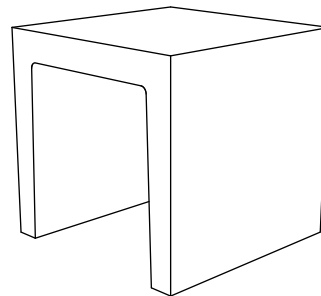


COR180

Rectangular concrete seating block
1800mm x 600mm x 450mm high
50mm x 50mm recess
Weight: 1100kg

OPTIONS

- Range of standard concrete mixes and finishes
- Anti-skate devices



COT900

Concrete table
900mm x 900mm x 875mm high
Weight: 600kg

OPTIONS

- Range of standard concrete mixes and finishes
- Chess table top



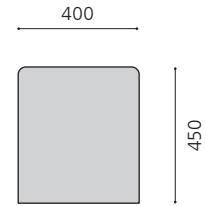
CORE 3550 RANGE

Curved modular seating

The CORE3550 consists of modular units designed to create continuous seating walls. Curved or S-shape arrangements are achievable. The bench units all have an internal radius of 3550mm and feature a common seat profile of 400mm wide x 450mm high.

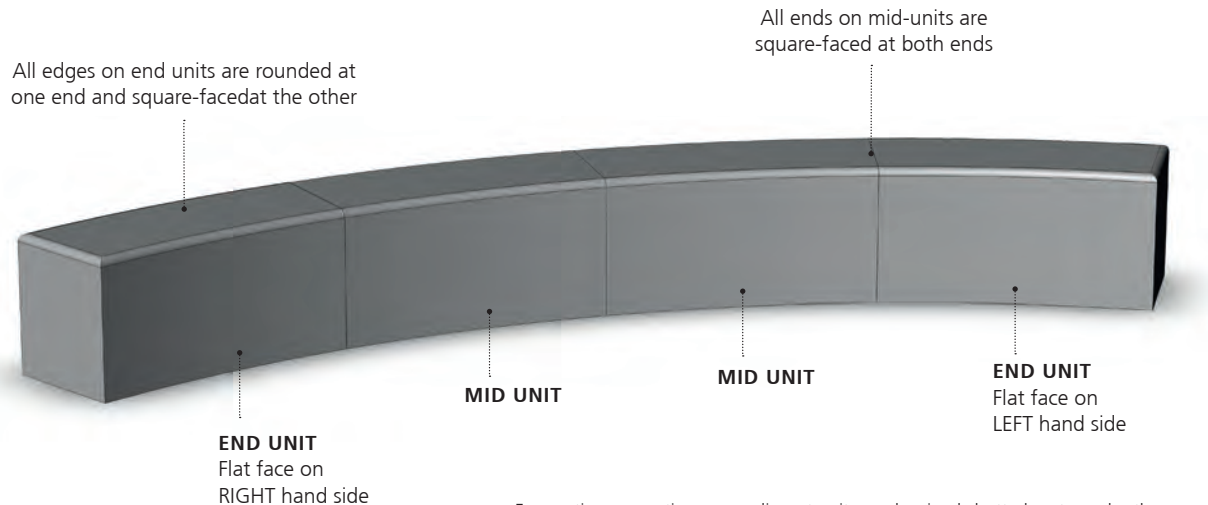
The CORE3550 bench units comprises the following:

- **End units** - radiused edges at left or right hand side. The other end is square-faced for butting directly to another end unit or to a mid unit in longer seating runs.
- **Mid units** - square-faced at both ends for butting directly to another mid unit for longer seating runs or to an end unit at the end of seating runs.



Cross sectional profile
Common to all CORE3550 units

CORE3550: Sample configuration



For continuous seating runs, adjacent units can be simply butted up to each other as a dry-fit, or jointed using a fibreboard spacer with the joint filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.

CORE CURVED BENCH

990mm x 400mm x 450mm high
3550mm (3.55m) internal radius

Weight per unit: 425kg

COR3550 R - End unit - flat face on right hand side only

COR3550 M - Mid unit - flat face on both sides

COR3550 L - End unit - flat face on left hand side only

OPTIONS

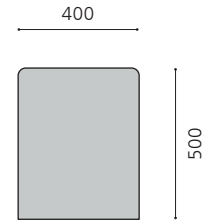
- Range of standard concrete mixes and finishes

CORE 8900 RANGE

Curved modular seating

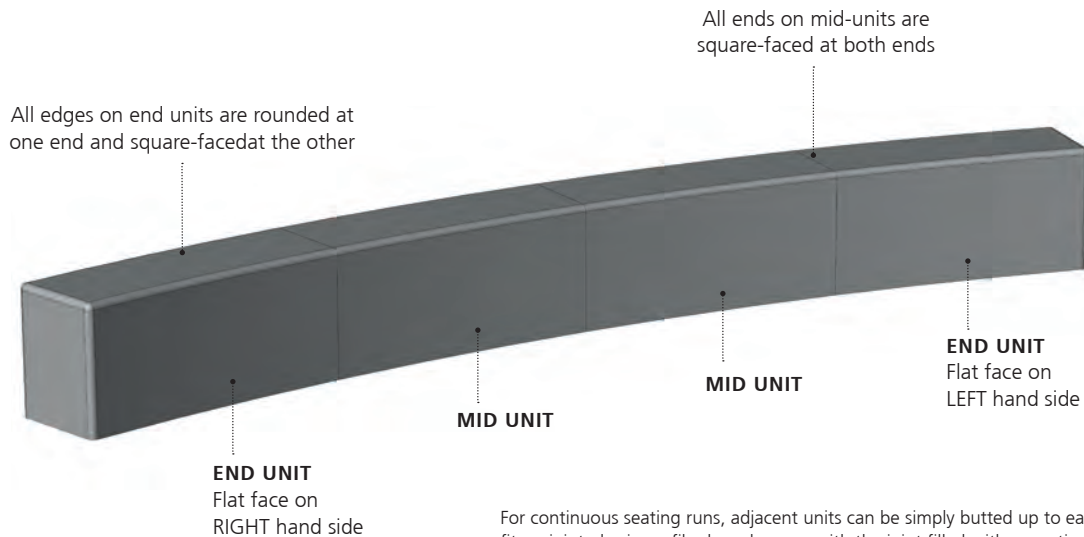
The CORE8900 consists of three modular units designed to create continuous seating walls. The range can be used to create curved or S-shaped seating arrangements. All bench units have an internal radius of 8900mm, and feature a common seat profile of 400mm wide x 500mm high. The CORE8900 bench units comprises the following:

- **End units** - radiused edges at one end only. The other end is square-faced for butting directly to another end unit or to a mid unit in longer seating runs.
- **Mid units** - square-faced at both ends for butting directly to another mid unit for longer seating runs or to an end unit at the end of seating runs



Cross sectional profile
Common to all CORE8900 units

CORE8900: Sample configuration



For continuous seating runs, adjacent units can be simply butted up to each other as a dry-fit, or jointed using a fibreboard spacer with the joint filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.

CORE CURVED BENCH

1150mm x 400mm x 500mm high
8900mm (8.9m) internal radius

Weight per unit: 550kg

COR8900 R - End unit - flat face on right hand side only

COR8900 M - Mid unit - flat face on both sides

COR8900 L - End unit - flat face on left hand side only

OPTIONS

- Range of standard concrete mixes and finishes

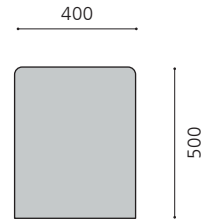
CORE 10100 RANGE

Curved modular seating

The CORE10100 features modular bench units designed to create curved or S-shaped seating walls. The bench units feature a common seat profile of 400mm wide x 500mm high, and they all have an internal radius of 10100mm.

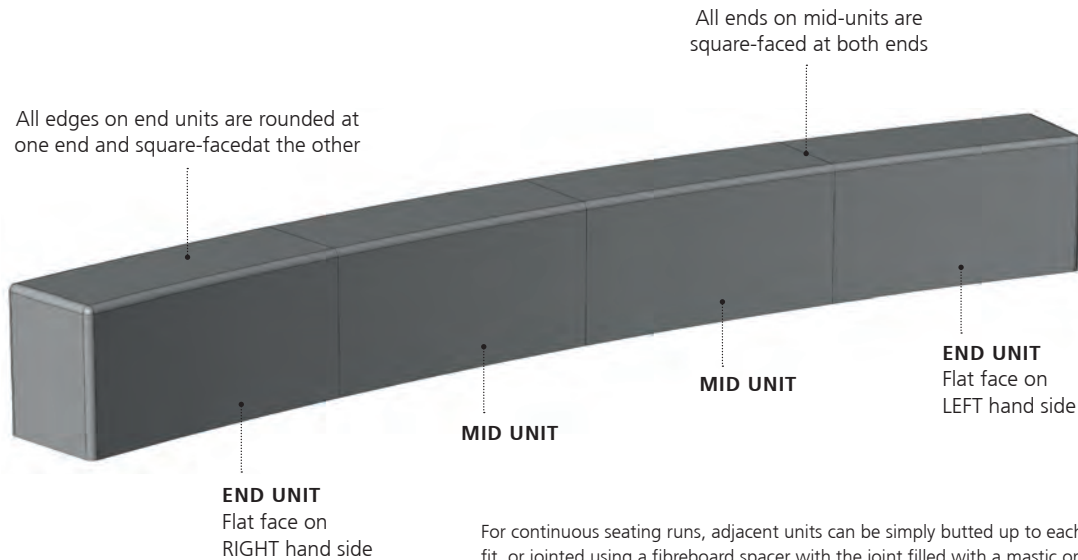
The CORE10100 bench units consists of the following:

- **End units** - Radiused edges at one end only. The other end is square-faced for butting directly to another end unit or to a mid unit in longer seating runs.
- **Mid units** - square-faced at both ends for butting directly to another mid unit for longer seating runs or to an end unit at the end of a seating run.



Cross sectional profile
Common to all CORE10100 units

CORE10100: Sample configuration



For continuous seating runs, adjacent units can be simply butted up to each other as a dry-fit, or jointed using a fibreboard spacer with the joint filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.

CORE CURVED BENCH

1057mm x 400mm x 500mm high
10100mm (10.1m) internal radius

Weight per unit: 505kg

COR10100 R - End unit - flat face on right hand side only

COR10100 M - Mid unit - flat face on both sides

COR10100 L - End unit - flat face on left hand side only

OPTIONS

- Range of standard concrete mixes and finishes

CORE RANGE

Other concrete applications

Whilst Core concrete blocks are primarily employed for seating purposes, they can also be used in other applications, such as shown here on the Colwyn Bay Waterfront Project. Using curved Core seating blocks as a starting point for the design, feature signs were manufactured as a sandwich of 3 heavy duty steel plates, with the lettering as cut-outs in the grey-coloured outer plates to reveal the blue central plate. The concrete blocks provided an ideal robust and heavy base for fixing the sign plates to, and to which individual stainless steel letters were also fitted. Two signage assemblies were supplied, each with the location and directional wording reproduced in both Welsh and English.



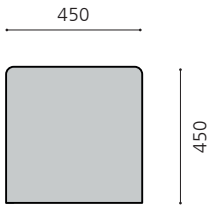
CORE 1350 RANGE

Linear modular seating

The CORE1350 features four bench units which can be combined to create continuous seating walls that can be set out to suit most sites.

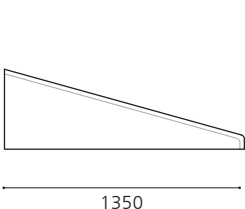
The CORE1350 bench units comprises the following:

- **Wedge end unit** – often used at the end of runs to provide a gentle lead-in feature for long walls
- **Block end unit** – a conventional block with all edges on one end radiused to provide a softer form
- **Mid units** – two units are available – one with one square end and one angled end, and the other with both ends angled

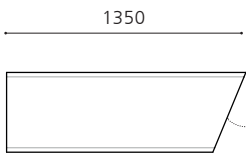


Cross sectional profile
Common to all CORE1350 units

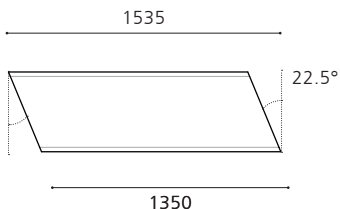
CORE1350 bench units



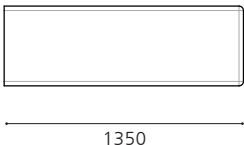
Side view
Wedge end unit



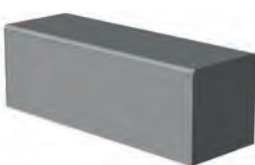
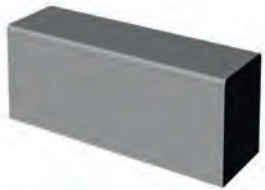
Plan view
Mid unit with one angled end



Plan view
Mid unit with two angled ends



Plan view
Block end unit end



COR1350 S

Wedge end unit
1350mm length
Weight: 335kg

COR1350 A

Mid unit with one angled end
1350mm overall length
Weight: 655kg

COR1350 2A

Mid unit with two angled ends
1535mm overall length
Weight: 655kg

COR1350 E

Block end unit
1350mm length
Weight: 655kg

OPTIONS (ALL UNITS)

- Range of standard concrete mixes and finishes



CORE 1350 RANGE

Angled mid units

One mid unit of the CORE1350 range has a 22.5° angle on one side, and the other has a 22.5° angle on both sides. These can be used to create interesting configurations and to position the seating around site features.



Sample configurations

Some of the possible CORE1350 arrangements are shown below.

For continuous seating runs, adjacent units can be simply butted up to each other as a dry-fit, or jointed using a fibreboard spacer with the joint filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.



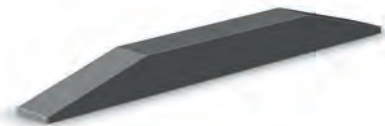
Five-piece arrangement

COR1350 S x 1
COR1350 A x 2
COR1350 2A x 1
COR1350 E x 1



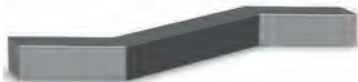
Three-piece arrangement

COR1350 A x 2
COR1350 2A x 1



Four-piece arrangement

COR1350 S x 2
COR1350 A x 2



Four-piece arrangement

COR1350 A x 2
COR1350 2A x 2



Five-piece arrangement

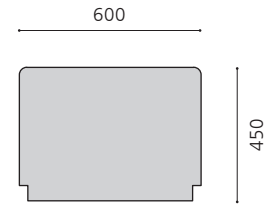
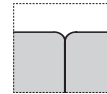
COR1350 S x 2
COR1350 A x 2
COR1350 2A x 1

CORE 6000 RANGE

Modular seating

The CORE6000 modular bench units feature a common seat profile of 600mm x 450mm. The bench units can be used as stand alone benches, or they can be combined to form interesting seating arrangements. The profile features a 50mm x 50mm recess, which allows benches to be installed either with the base of the bench set below the finished paving level, or set on top of the finished paving.

Please note that the edges of all benches are radiused where adjacent directly abut one another. These radiused edges tend to accentuate the joint line, as shown right.



Cross sectional profile
Common to all CORE6000 units

CORE6000: Sample configurations



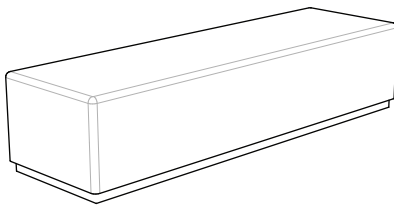
Circular arrangement
COR6000 C x 3



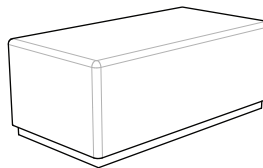
S-shaped arrangement
COR6000 C x 4



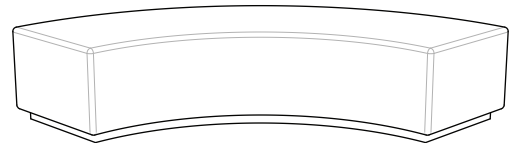
Enclosed arrangement
COR6000 C x 4
COR6000 L x 3



COR6000 L
Rectangular bench unit
2000mm x 600mm x 450mm high
Weight: 1290kg



COR6000 S
Rectangular bench unit
1152mm x 600mm x 450mm
Weight: 740kg



COR6000 C
Curved bench unit
910mm internal radius
600mm x 450mm x 90° corner
Weight: 1350kg

OPTIONS (ALL UNITS)

- Range of standard concrete mixes and finishes

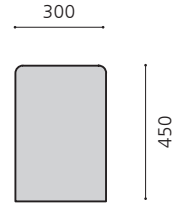
CORE 1200 RANGE

Curved modular seating / planter wall

The CORE1200 comprises three modular units designed to create continuous curved seating arrangements. The benches all have an internal radius of 1200mm, and feature a common seat profile of 300mm wide x 450mm high.

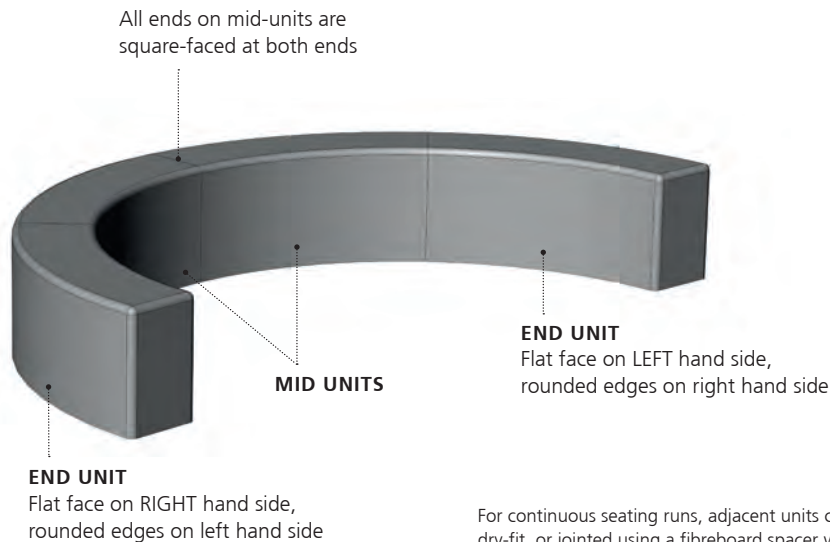
The CORE1200 bench units comprises the following:

- **End units** - radiused edges at one end only. The other end is square-faced for butting directly to another end unit or to a mid unit in longer seating runs.
- **Mid units** - square-faced at both ends for butting directly to another mid unit for longer seating runs or to an end unit at the end of run. Eight mid-units can be used to create a continuous circle.



Cross sectional profile
Common to all CORE1200 units

CORE1200: Sample configurations



Full-circle arrangement

Eight mid-units can be used to form a full circle that can be used around a feature such as a statue, or to enclose a planting bed.



For continuous seating runs, adjacent units can be simply butted up to each other as a dry-fit, or jointed using a fibreboard spacer with the joint filled with a mastic or mortar sealant. Please contact our Design Department to discuss these options in more detail.

CORE CURVED BENCH

1168mm x 300mm x 450mm high
1200mm (1.2m) internal radius

Weight per unit: 375kg

COR1200 R - End unit - flat face on right hand side only

COR1200 M - Mid unit - flat face on both sides

COR1200 L - End unit - Flat face on left hand side only

OPTIONS

- Range of standard concrete mixes and finishes

CONCRETE SEATING: STANDARD MIXES + FINISHES - WHITES

Colour / finish options

Concrete seating ranges are available in a number of standard mixes, with further finish options as summarised below. Custom mixes can be offered for large volumes.

Textured finish

• ACID ETCHED

A very finely-textured surface achieved by washing with an acidic solution to reveal the fines and lightly expose the aggregates.

Smooth finishes

• DRESSED

A flat matt surface with minimal dressing of the 'as struck' cast surfaces.

• DELUXE POLISHED

A highly polished and smooth surface which reveals the colour of both the concrete matrix and the aggregates (only available on flat surfaces).

Sealant

A matt 'consolidator' sealant is applied as standard to all finish options on mixes:

- Dark Grey FCH1
- Reds FRD1 & FRD2
- Terracotta FTE1
- Green FGE1
- Turquoise FTU1
- Blue FBL1

Anti-graffiti coating

Various proprietary coatings are available; please speak to our technical department for further information on options.

Samples

Swatches shown should be considered indicative only. Please contact us to obtain samples to ensure that you specify and order the desired colour mix and finish.

Finish matrix

For ease of recognition and comparison, all mixes are presented to show the finish options in a common 'matrix' format. A crossed box indicates that the finish is not available in that mix. This usually applies to plainer finishes where the aggregates are not revealed, because these finishes are offered on other mix(es). It is possible to have selected different finishes on different surfaces, such as polishing of the top seating surface in contrast with an acid etch finish on the sides of the product.

White 2 FWH2

FWH2 mix uses the FWH1 cement matrix, but with large dark grey basalt aggregates to provide a greater contrast when revealed by polishing.

(Acid Etched & Dressed finishes n/a as they are the same as FWH1)

ACID ETCHED

DRESSED

DELUXE POLISHED

White 4 FWH4

FWH4 has lighter grey and brownish toned dolomite with polar white aggregates for a softer, more creamier coloured overall effect to a polished finish.

(Acid Etched & Dressed finishes n/a as they are the same as FWH1)

ACID ETCHED

DRESSED

DELUXE POLISHED

White 1 FWH1

FWH1 is our brightest white, achieved by a mix of white cement and white limestone. For finishes where the aggregates are revealed by etching and polishing, products take on a more grey / cream appearance.

ACID ETCHED

DRESSED

DELUXE POLISHED

White 3 FWH3

FWH3 introduces more smaller sized pure white chystaline dolomite aggregates across a greater tonal range, to give a finer grained, subtle overall effect to a polished finish.

(Acid Etched & Dressed finishes n/a as they are the same as FWH1)

ACID ETCHED

DRESSED

DELUXE POLISH

White 5 FWH5

FWH5 is a less bright mix than other whites, with white limestone aggregate and greater proportions of yellow sand for a softer overall appearance, especially on a polished finish.

ACID ETCHED

DRESSED

DELUXE POLISHED

CONCRETE SEATING: STANDARD MIXES + FINISHES - GREYS

Grey is the most popular colour range used for concrete furniture, probably because it is the colour that most people associate with concrete, and is therefore an honest use of the material. We offer 8 standard grey mixes, 7 of which we term as light grey and a single dark grey mix. The differences between the light grey mixes generally only becomes apparent when the aggregate is revealed to show the different colours and tonal qualities in the mix. Samples are available of all mixes and finishes, to allow you to check that your preferred combination works well on site.

Dark Grey FCH1

FCH1, our darkest grey and one of our most popular concretes for seating, is a mix of grey cement, black sand and grey basalt aggregates. A waterproof matt sealant application is standard on all finishes.

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 1 FGR1

FGR1 is a premium mix of grey and white cements and fines, with white limestone aggregates designed to achieve a light grey colour and fine finish specifically designed for external furniture.

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 2 FGR2

FGR2 mix uses the FGR1 cement matrix, but with darker grey basalt aggregates to provide a greater contrast when revealed by polishing.

(Acid Etched & Dressed finishes n/a as they are the same as FGR1)

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 3 FGR3

FGR3 mix uses the FGR1 cement matrix, but with white granite aggregates which gives a lighter overall effect designed for polished finish.

(Acid Etched & Dressed finishes n/a as they are the same as FGR1)

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 4 FGR4

FGR4 mix uses the FGR1 matrix, but with a mix of grey basalt and white granite aggregates which give a more 'speckled' appearance on a polished finish.

(Acid Etched & Dressed finishes n/a as they are the same as FGR1)

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 5 FGR5

FGR5 contains a mix of grey basalt, white limestone and recycled products from a specialist smelting process to give a rich colour and texture, with a 'sparkly' appearance to a polished finish in particular.

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 6 FGR6

FGR6 contains a similar aggregate mix to FGR5 but with the lighter aggregates more dominant and the overall appearance therefore slightly lighter as well.

ACID ETCHED

DRESSED

DELUXE POLISHED

Light Grey 7 FGR7

FGR7 is another variation on the FGR5 mix, with a balance of light and dark aggregates giving a more speckled effect, particularly on polished finishes.

ACID ETCHED

DRESSED

DELUXE POLISHED

CONCRETE SEATING: STANDARD MIXES + FINISHES - COLOURS

Buff 1 FBU1 <p>FBU1 is a mix of white and grey cements, and fine ground and large aggregate yellow limestone, designed to emulate the hue of yorkstone.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED	Buff 2 FBU2 <p>FBU2 uses the FBU1 cement matrix but with the additional white limestone aggregate to provide a greater contrast when revealed by etching and polishing this material.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED	Buff 3 FBU3 <p>FBU3 uses the FBU1 cement matrix with additional buff limestone aggregate for a richer depth of colour, particularly on polished surfaces.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED
Terracotta 1 FTE1 <p>FTE1 is a colourfast terracotta-toned mix achieved through pigment additives. Buff limestone aggregates are revealed on a polished finish. A waterproof matt sealant application is standard on all finishes.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED	Red 1 FRD1 <p>FRD1 is a colourfast red-pigmented mix, with the colour derived from iron oxide dyes. White limestone aggregates are revealed on a polished finish. A waterproof matt sealant application is standard on all finishes.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED	Red 2 FRD2 <p>FRD2 is variation on FRD1 mix, with the light aggregates replaced with dark grey basalt aggregates to striking effect on a polished finish. A waterproof matt sealant application is standard on all finishes.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED
Green FGE1 <p>FGE1 is a colourfast green-pigmented mix derived from chromium oxide. This subtle colour contrasts with neutral grey basalt aggregates on a polished finish. A waterproof matt sealant application is standard on all finishes.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED	Turquoise 1 FTU1 <p>FTU1 is a colourfast turquoise-pigmented mix derived from cobalt additives. Vivid turquoise contrasts with the neutral grey basalt aggregates on a polished finish. A waterproof matt sealant application is standard on all finishes.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED	Blue 1 FBL1 <p>FBL1 is a colourfast blue-pigmented mix derived from cobalt. The vibrant blue contrasts with the more neutral grey basalt aggregates on a polished finish. A waterproof matt sealant application is standard on all finishes.</p>	 ACID ETCHED  DRESSED  DELUXE POLISHED

CONCRETE SEATING: GENERAL INFORMATION

Product development

Furnitubes' designers strive to expand and improve upon our existing products and to develop new ranges. We are acutely aware of production feasibility, of structural parameters, and mindful of commercial viability, and seek the advice of mouldmakers and professional engineering consultants in our development work.

Mix / finish selection and materials generally

Careful consideration should be given to the colour and finish that you select for your seats, for example lighter colours and smooth finishes are more prone to showing marks from general wear and tear. For high usage sites it is advisable to consider the application of a factory-applied sealant coating which will waterproof the concrete and make it less vulnerable to water-staining and marking in general. Standard concretes offered on all Furnitubes' products are long-established, tried and tested mixes that provide a popular range of colours, with visual interest when the aggregates are revealed. All materials are UK-sourced, with batch control and testing procedures ensuring a consistent appearance and performance. Should none of our standard colour options suit your scheme however, we can develop special mixes.

Handling & installation

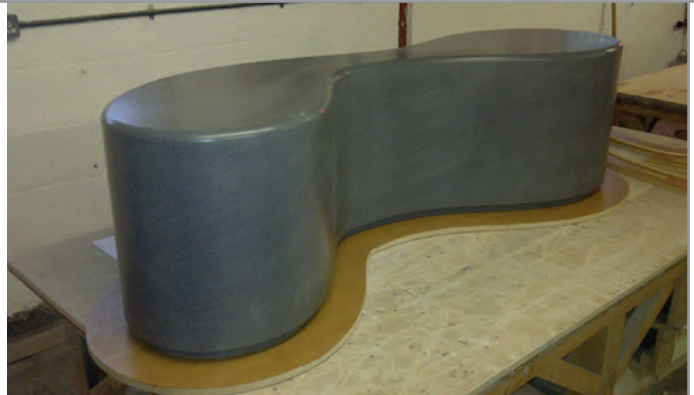
Products are generally delivered on pallets for offloading with a forklift on arrival at site. Most products are handled in unique ways, as suits their form, overall weight and weight distribution. Technical data sheets are available for individual products to advise on handling. Furnitubes is able to offer a complete delivery and installation solution, including offloading and placement via specialist lifting equipment - please call us to discuss further.

General maintenance

An annual clean should keep the surface looking vibrant. Clean with water and mild detergent or a low pressure hose with a flat-fan nozzle to help prise off surface dirt. Degreasers and chemical cleansers are available for more stubborn grime.



All of Furnitubes' concrete products are manufactured in the UK.



Positive-form master used for creating mould for Marlborough bench



Offloading and installation of Blyth bench using grab-lift



Borough logo in contrasting textured finish on Blyth bench



CONCRETE SEATING: SPECIAL PROJECTS

Variations & specials

Whilst Furnitubes offers an extensive range of standard concrete seating solutions, we acknowledge that some sites demand a tailor-made approach so that the products are appropriate in terms of style, features and functionality, dimensions and materials. Furnitubes' designers welcome early input into any new project and are happy to advise on the feasibility of special variations to our standard products and also to offer advice on the technical aspects of your own unique designs. As a project develops we can assist with the detailed design (providing 3d digital models if required) and can advise on issues such as costings and production programming along the way.

If you would like to talk us to about a new project please call our Design team today on **020 8378 3200**. Whilst we are confident that we can interpret most requirements via telephone discussions and email exchange, we are happy to visit you in person to discuss the possibilities and options presented by more complex designs.



CONCRETE SEATING



CONCRETE SEATING



View or download other product e-brochures at the following link:

www.furnitubes.com/brochures



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