



CONCRETE SEATING

MADE IN
BRITAIN

CONCRETE SEATING

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 layouts

- Blyth
- Fortis
- Mesa

Contemporary forms:

Exclusive designs unique to Furnitubes

- Amesbury
- Drakon
- Marlborough

Stand-alone seats:

Simple economic products for 'everyday' sites

- Bridge
- Rise

Social seating:

Non-linear seating, ideal for large open spaces

- Cosmos

Core range:

Basic stand-alone units in a range of forms

- Core benches & table



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



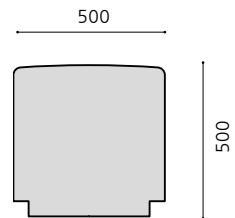
BLYTH RANGE



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

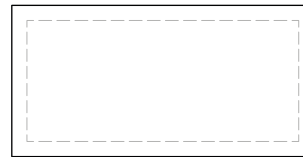
Standard options

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.

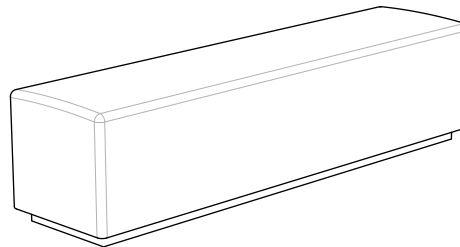
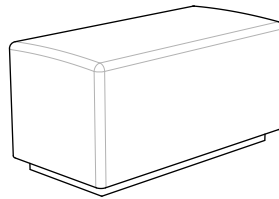
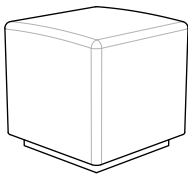
End unit:

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

BLR100SO - Solo unit
BLR100EN - End unit
BLR100MD - Mid unit

OPTIONS

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

BLYTH 2M

2000mm length, wgt: 1200kg

BLR200SO - Solo unit
BLR200EN - End unit
BLR200MD - 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

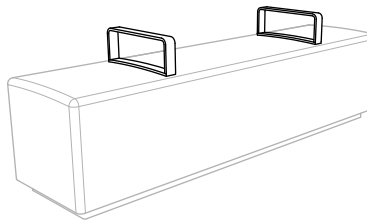
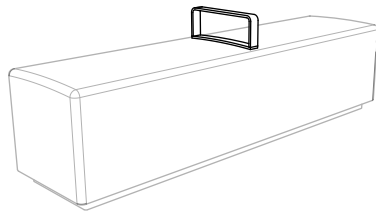
Armrests + backrests

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

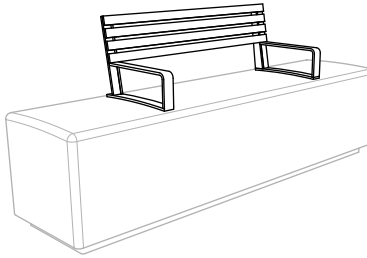
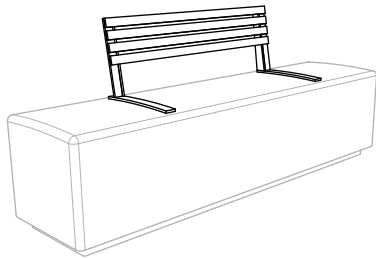


ARMRESTS

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

BLR200AR1 - Single armrest

BLR200AR2 - Pair of armrests

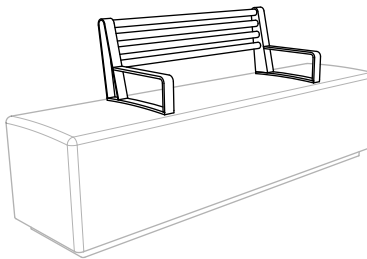
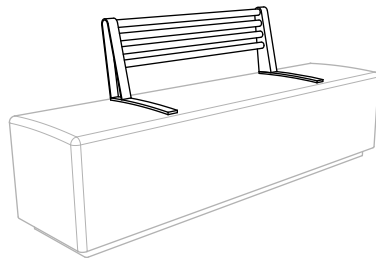


SLATTED BAR ARM / BACKREST

1000mm length
Stainless steel satin polished

BLR200BO1 - Backrest only

BLR200BA1 - Backrest + armrests

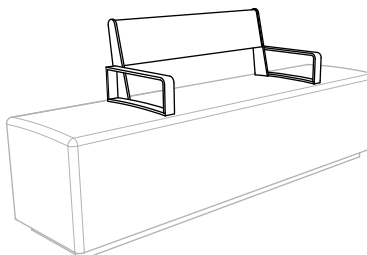
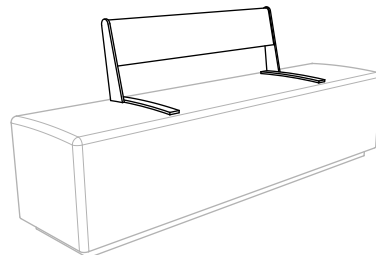


CIRCULAR BAR ARM / BACKREST

1000mm length
Stainless steel satin polished

BLR200BO2 - Backrest only

BLR200BA2 - Backrest + armrests



SOLID BACK ARM / BACKRESTS

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

BLR200BO31 - Backrest only S/S

BLR200BO32 - Backrest only S/S + timber

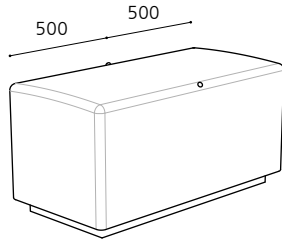
BLR200BA31 - Backrest + armrests S/S

BLR200BA32 - Backrest + armrests S/S +
timber back support

BLYTH RANGE

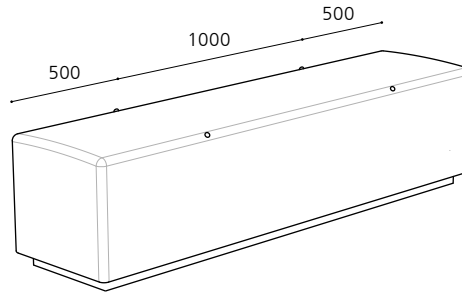
Anti-skate devices

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

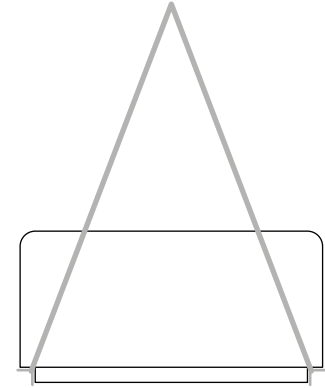
2 balls on each long side



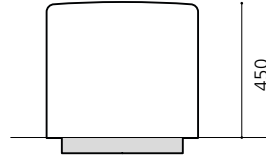
BLYTH RANGE

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:

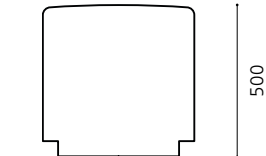
- Benches can be set true level
- Any damage to lower edge of the recess (caused during handling) is hidden beneath the paving
- Paving set below recess overhang so any untidy edges to paving can be hidden

Disadvantages:

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



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



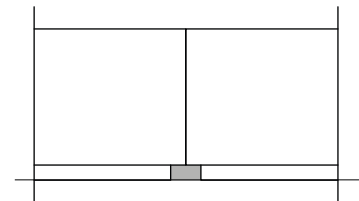
Advantages:

- 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



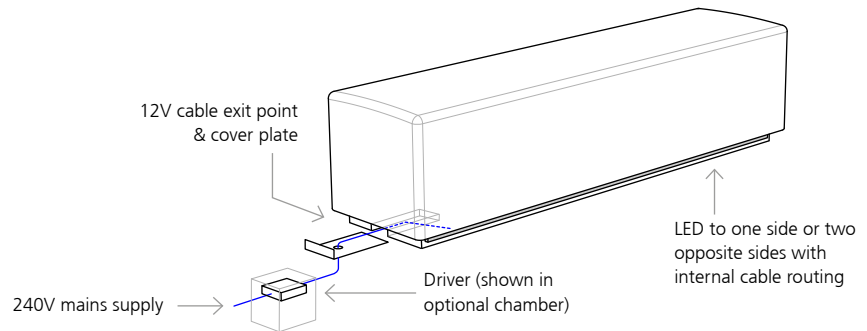
BLYTH RANGE



LED LIGHTING FOR BLYTH RANGE

Low level recessed bench lighting

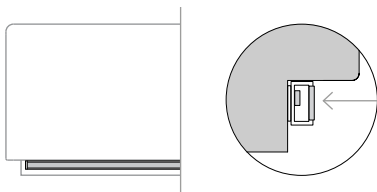
When Blyth concrete benches are installed directly onto the paving and the ground level recess is clearly visible, this offers the opportunity to include LED lighting strips as decorative features that emphasise the seating at night and spread a localised wash of light on the surrounding paving. Lighting 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

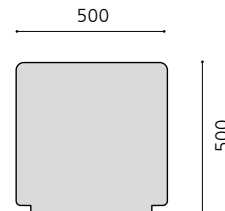
The LED extends close to the end of the ground level recess and is securely fitted to the bench at a position which minimises the likelihood of accidental damage.



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

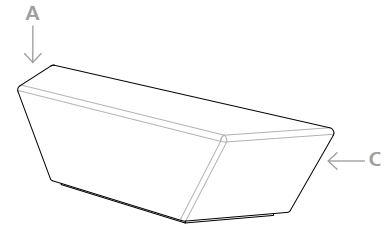
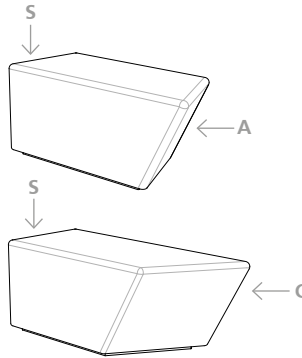
End forms are coded as follows:

- **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

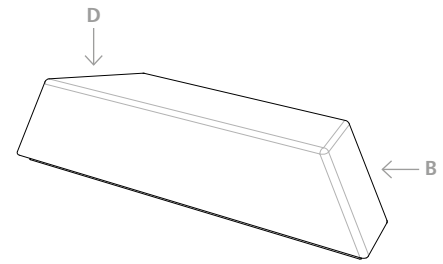
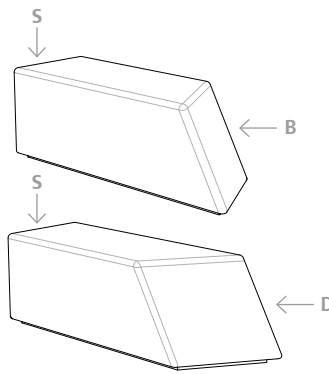
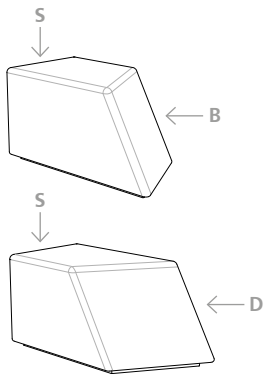
- Range of standard colour mixes and finishes

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

MES1SB - 1 person unit (top illustration)

MES1SD - 1 person unit (bottom illustration)

OPTIONS

- Range of standard colour mixes and finishes

MESA - SQUARE + OBTUSE ENDED

1510 x 500 x 500mm

Weight: 750kg

MES2SB - 2 person unit (top illustration)

MES2SD - 2 person unit (bottom illustration)

MESA - OBTUSE ENDED

2530 x 500 x 500mm

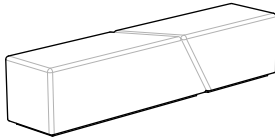
Weight: 1200kg

MES3DB - 3 person unit

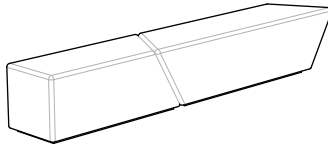
MESA RANGE

Combination options

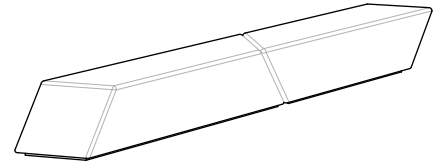
With individual modules featuring various combinations of acute and obtuse angled and square ends, directly abutting compatible adjacent modules can produce a wide variety of different forms for paired combinations or longer continuous seating walls, as shown in the examples below. Note, only straight 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. **MES2SB + MES2SA**



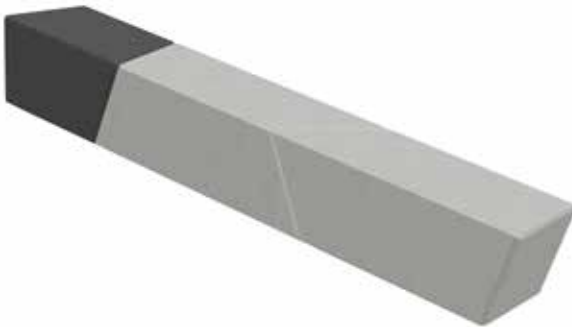
One end square, one end angled
e.g. **MES2SD + MES3AC**



Both ends angled
e.g. **MES3DB + MES3AC**

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.


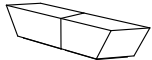

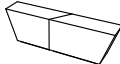
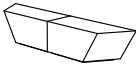

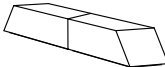
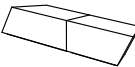
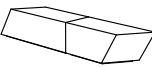

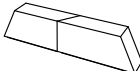
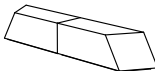
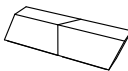
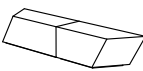

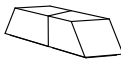
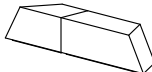
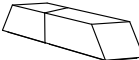
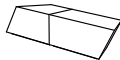
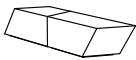



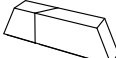

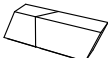









MES2SA (dark grey) + **MES3DB + MES3AC** (light grey)

Shown here are the standard colour and finish options. Special mixes for specific schemes can be created for larger quantity orders.

	ACID ETCHED	DRESSED
WHITE		
LIGHT GREY		
DARK GREY		

MESA RANGE

 <p>Square / Acute 2 person right MES2SC</p>	<div>Paired square-ended modules</div> <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 MES2SA</p>							 <p>2520mm o/a seats 4</p>	 <p>2520mm o/a seats 4</p>			
 <p>Square / Obtuse 2 person right MES2SD</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 MES2SB</p>							 <p>3030mm o/a seats 4</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 1 person right MES1SD</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 MES1SB</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>					
<div><div>^</div><div>REAR MODULES</div></div> <div><div>></div><div>FRONT MODULES</div></div>	 <p>Square / Obtuse 1 person left MES1SB</p>	 <p>Square / Obtuse 1 person right MES1SD</p>	 <p>Square / Obtuse 2 person left MES2SB</p>	 <p>Square / Obtuse 2 person right MES2SD</p>	 <p>Square / Acute 2 person left MES2SA</p>	 <p>Square / Acute 2 person right MES2SC</p>					



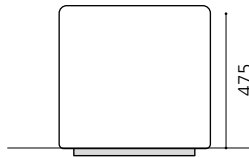
MESA RANGE

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:

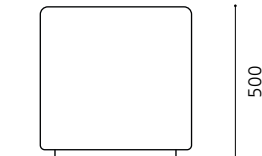
- Benches can be set true level
- Any damage to lower edge of the recess (caused during handling) is hidden beneath the paving
- Paving set below recess overhang so any untidy edges to paving can be hidden

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

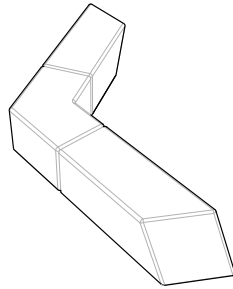
The 120° 'elbow' is the latest addition to the Mesa range, with square vertical faces at both ends meaning it can be directly abutted to any of the 6 standard Mesa modules with square ends. This single additional module to the range opens up a whole new raft of configuration possibilities, including 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 **MES120**, **MES2SC**, **MES2SD**

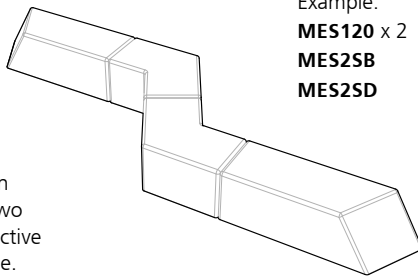


Example:

MES120 x 2
MES2SB
MES2SD

2 Elbows:

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

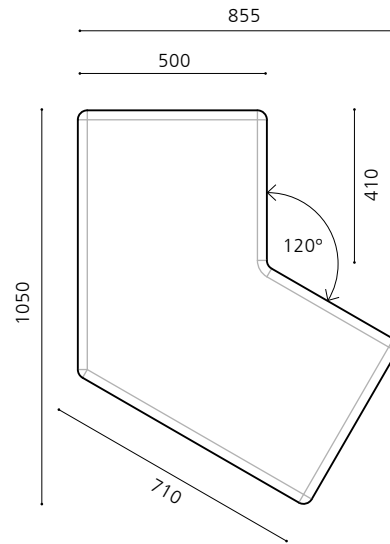
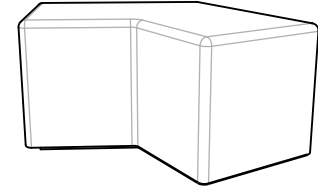
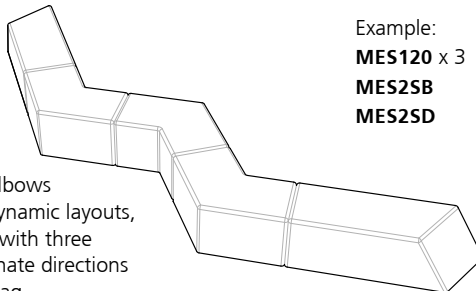


Example:

MES120 x 3
MES2SB
MES2SD

3 Elbows:

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



MESA - 120° ELBOW, SQUARE ENDED

1050 x 855 x 500mm high

Weight: 650kg

MES120 - 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.



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.

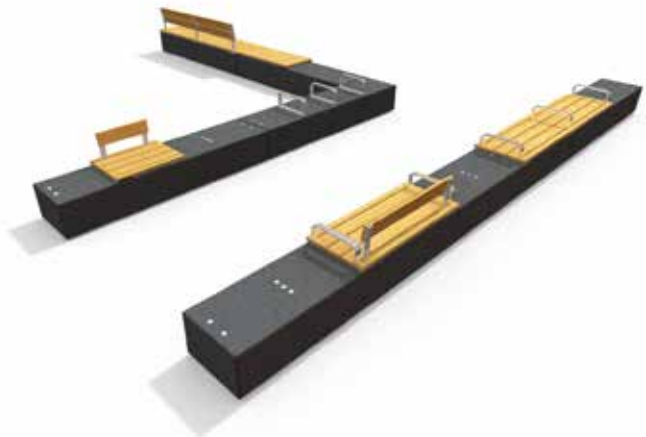
Set out in variable configurations on the same scheme, the Fortis gives the impression of a purpose-made design, but is all achievable with a small number of common components which offer cost-effective seating solutions.

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

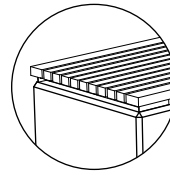
The standard Fortis range includes the following options:

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

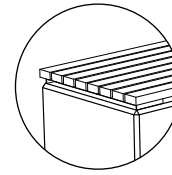
Continuous seating walls

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.

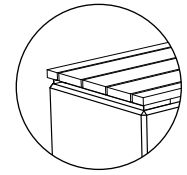
Side-to-side slat arrangements*



Small timbers
40mm wide

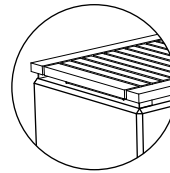


Medium timbers
65mm wide

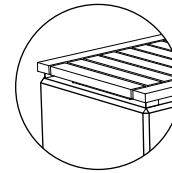


Large timbers
140mm wide

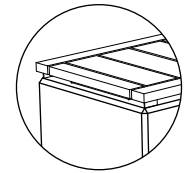
Front-to-back slats arrangements**



Small timbers
40mm wide



Medium timbers
65mm wide



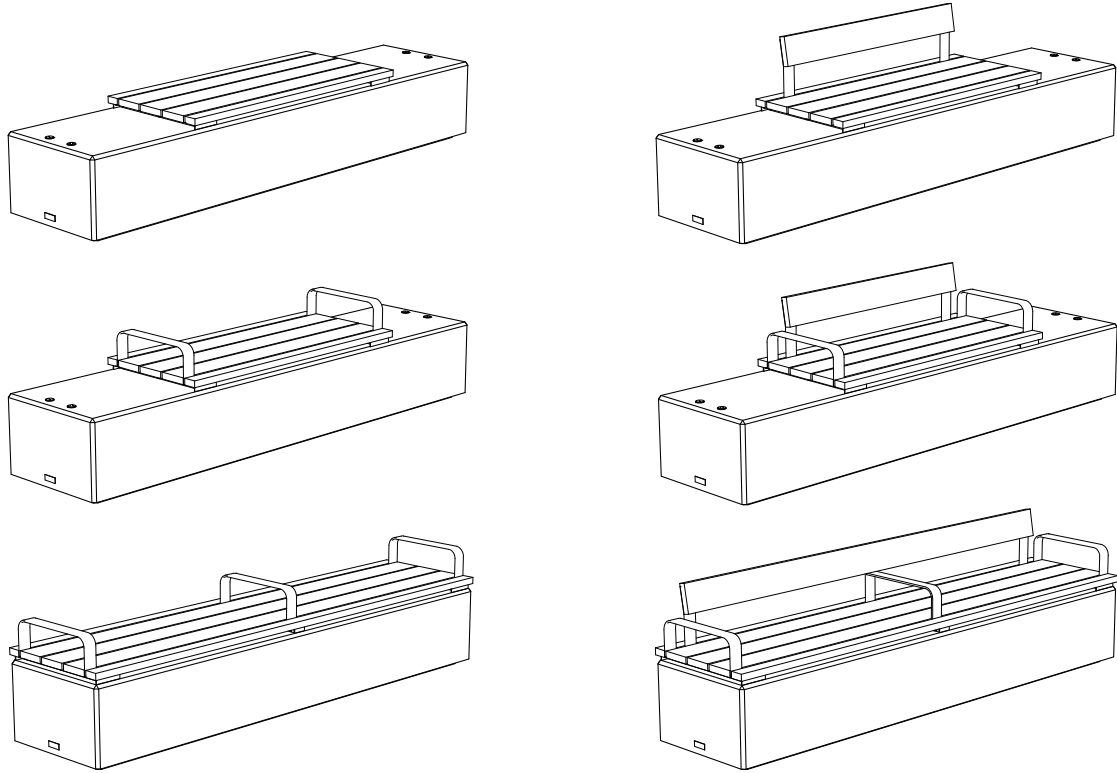
Large timbers
140mm wide

* 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 steel supports, with large timber slats in side-to-side arrangement
2540mm long x 590mm deep concrete plinth, weight: 1,400kg (concrete only)

BENCHES:

- FTB22L** - Bench with 2-person platform (no arms)
- FTB22LC** - Bench with 2-person platform + arms
- FTB4LS** - Bench with 4-person platform + arms

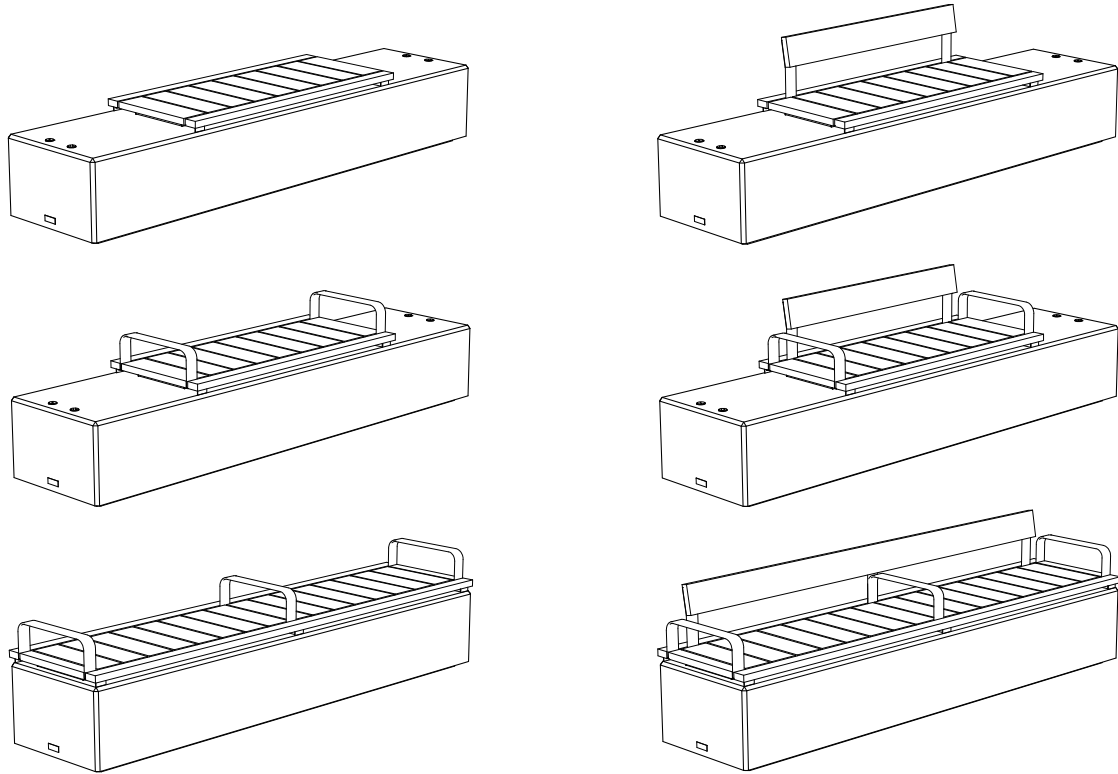
SEATS:

- FTS22LL** - Seat with 2-person platform (no arms)
- FTS22LLC** - Seat with 2-person platform + arms
- FTS4LLS** - Seat with 4-person platform + arms

OPTIONS

- Range of standard concrete mixes and finishes
- Seat platform support / armrest / backrest support metalwork in galvanised finish where no arms included
- Seat platform support / armrest / backrest support metalwork in triple process coating (PPC) finish where arms are included

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 steel supports, with large timber slats in side-to-side arrangement
2540mm long x 590mm deep concrete plinth, weight: 1,400kg (concrete only)

BENCHES:

- FTB22H** - Bench with 2-person platform (no arms)
- FTB22HC** - Bench with 2-person platform + arms
- FTB4HS** - Bench with 4-person platform + arms

SEATS:

- FTS22HL** - Seat with 2-person platform (no arms)
- FTS22HLC** - Seat with 2-person platform + arms
- FTS4HLS** - Seat with 4-person platform + arms

OPTIONS

- Range of standard concrete mixes and finishes
- Seat platform support / armrest / backrest support metalwork in galvanised finish where no arms included
- Seat platform support / armrest / backrest support metalwork in triple process coating (PPC) finish where arms are included

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 + armrests (optional) material / finish:

- ☐ Steel, galvanised finish (not suitable for armrests)
☐ Steel, triple process coating (PPC) 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)

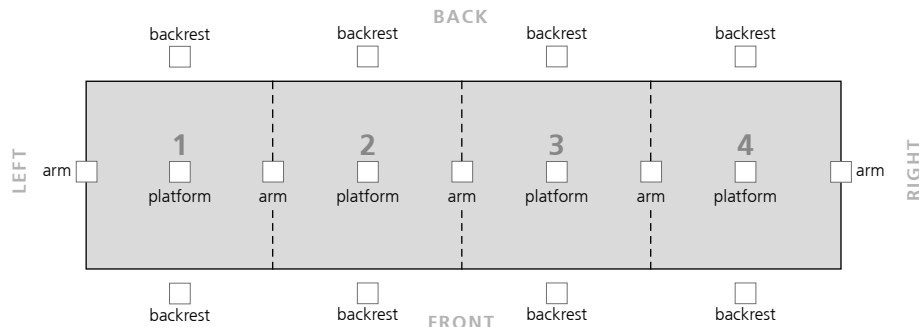
Height:

- ☐ 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.

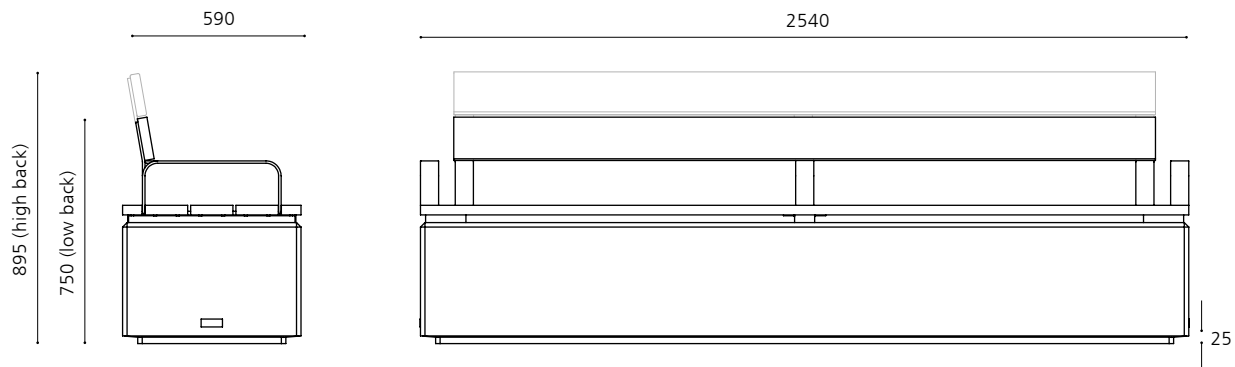


FORTIS RANGE



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

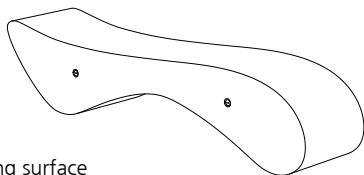
FCP302

Freestanding reinforced concrete bench

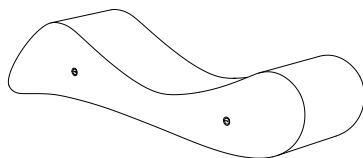
OPTIONS

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

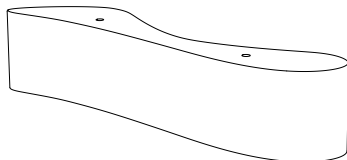
AMESBURY



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.

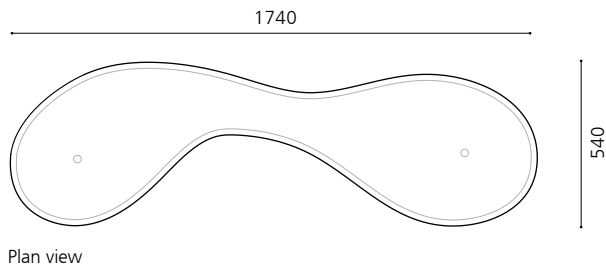


MARLBOROUGH

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.



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:

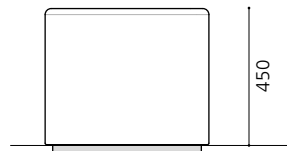
Base of bench set below finished paving level

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

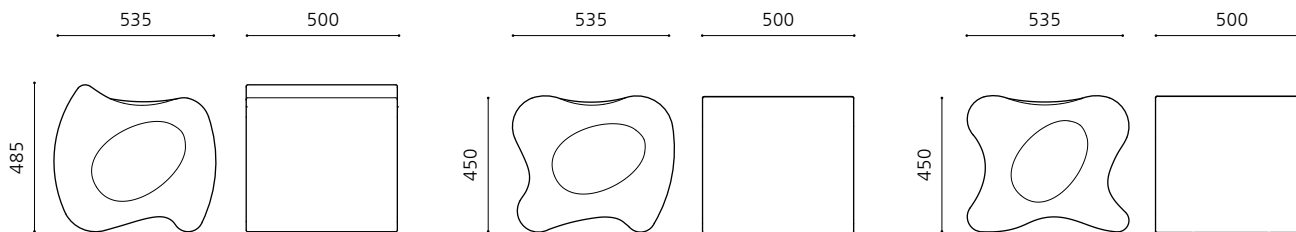
Drakon is an exciting, unique and new range of seating blocks exclusive to Furnitubes - based on a concept of large scale dragon's teeth. Available in 3 complementary but subtly different forms, Drakon offers a softer more sculptural aesthetic compared with square-faced seating units such as the Blyth 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 dished 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

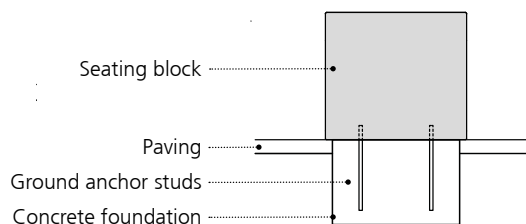
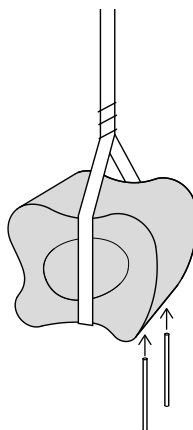
Concrete seating block and ground anchors

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.

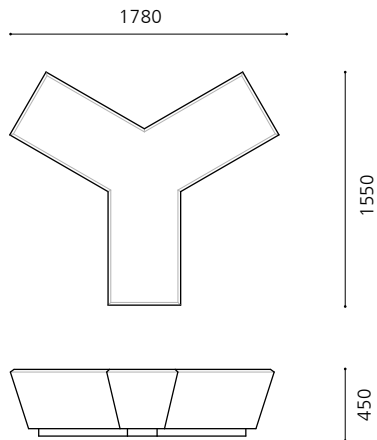
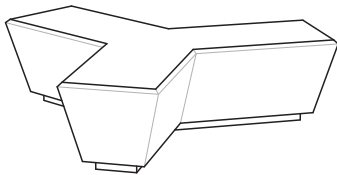
COSMOS RANGE

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

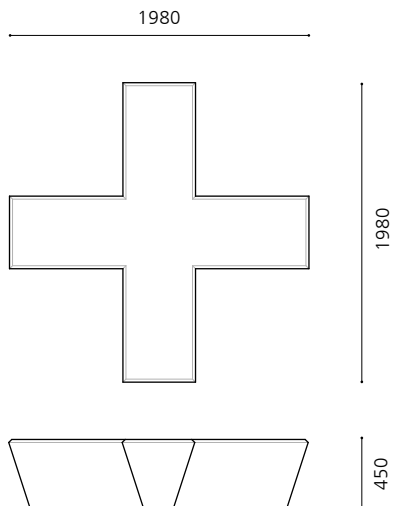
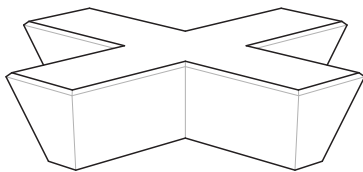
Weight: 975kg

COSMOS3

Freestanding concrete bench

OPTIONS

- Range of standard concrete mixes & finishes



COSMOS QUAD-ARM

1980mm x 1980mm x 450mm high

Weight: 1300kg

COSMOS4

Freestanding concrete bench

OPTIONS

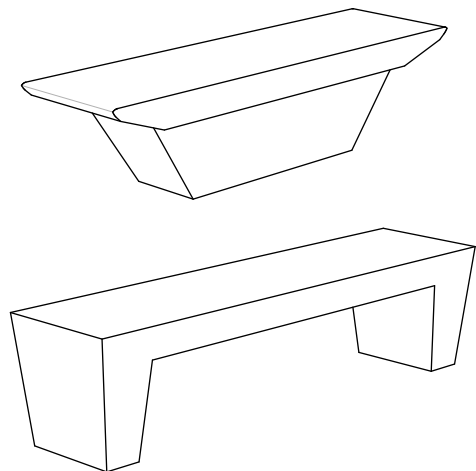
- Range of standard concrete mixes & finishes

RISE + BRIDGE



Stand-alone concrete benches

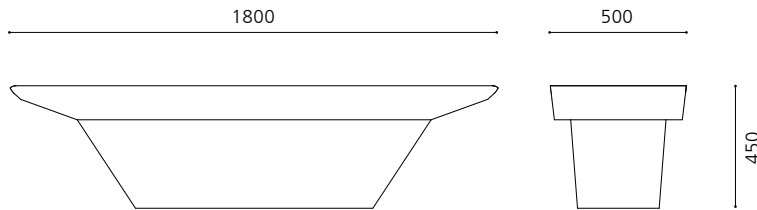
Rise and Bridge benches are economic stand-alone concrete seating units. They are straightforward in production terms and their tapered sides and reduced bulk compared with many other benches make for cost-effective seating solutions. Both benches are available only in the basic forms shown and generally 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

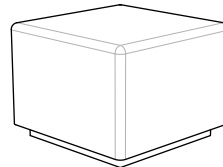
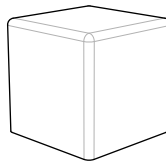
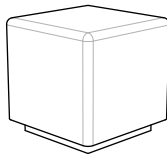
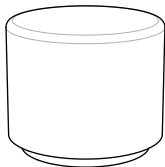
CORE RANGE

Core seating blocks and tables

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 available in a wide range of standard concrete colours and finishes, generally all with rounded edges for added comfort and to reduce the risk of chipping.

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.



COC600R

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

COS450R

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

COS650R

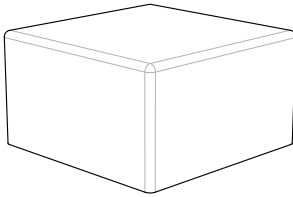
Square concrete seating block
600mm x 600mm x 450mm high
50mm x 50mm recess
Weight: 385kg

OPTIONS

- Range of standard concrete mixes and finishes



CORE RANGE

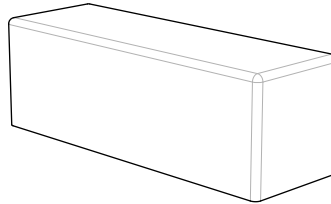


COS800

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

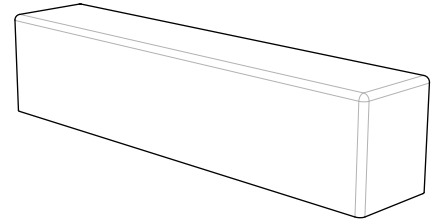


COR135

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

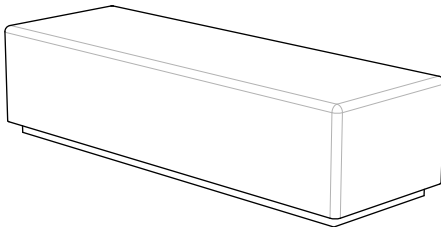
OPTIONS

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



COR200

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

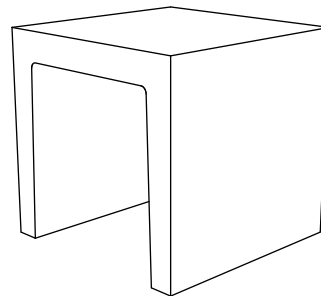


COR180

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



CONCRETE SEATING: STANDARD MIXES + FINISHES - WHITES

Colour / finish options

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

Acid etched finish

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

Dressed finish

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

Sealant

A matt 'consolidator' sealant is applied as standard to Dark Grey FCH1 mix.

Anti-graffiti coating

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

Samples

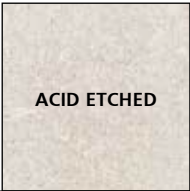
Swatches shown should be considered indicative only. Please contact us to obtain samples to ensure that you specify and order the desired colour mix and finish.

Standard colour options

White

Ref. FWH1

FWH1 comprises a mix of white cement and white limestone. Where the aggregates are revealed by etching, products take on a more grey / cream appearance.



ACID ETCHED

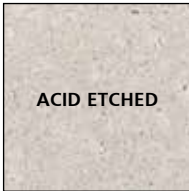


DRESSED

Light Grey

Ref. 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

Dark Grey

Ref. FCH1

FCH1 is a mix of grey cement, black sand and grey basalt aggregates. A waterproof matt sealant application is standard on all finishes.



ACID ETCHED

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 Britain.



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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