DESIGN & INNOVATION SINCE 1946

RailRoad SEATING & TABLES

Public realm furniture design & innovation from Furnitubes

UK MADE

Furnitubes®
**SmartSpace** is an innovative approach to public realm furniture, whereby products are designed and can be arranged to meet the varying and changing requirements of outdoor spaces. RailRoad is the latest addition to the **SmartSpace** family.
The ultimate in flexible seating design

As the name suggests, RailRoad is inspired by train tracks, and model train sets to be more precise - a series of straight and curved raised platforms that can be joined to form continuous seating runs, and can also be used independently for a coordinated suite of products across a scheme. In between the scale of a full size rail track and a model railway, this simple idea has been designed and engineered by Furnitubes’ in-house design team and is precision-manufactured to ensure inter-changeability of seating assemblies. This integral flexibility provides a vast range of seating configuration options - from straight line seating, to circular layouts, other geometric patterns and also flowing organic forms - all achievable with standard components. This approach means that bespoke configurations can be supplied at very much standard prices. Furthermore, there are 3 styles in the range, each suiting different environments.

RailRoad EDGE
Square-form timbers define the sharp visual characteristics of the EDGE family - a popular choice on contemporary architectural developments. The support posts are in a complementary open-ended box fabricated in plate steel that gives a very heavy duty and robust aesthetic.

RailRoad LOOP
The side profile of the bench slat is reminiscent of a lollipop stick, hence the abbreviated LOOP name given to this family. The rounded-end slats offer a greater degree of comfort for the sitter and with a central circular support post is visually softer than other options.

RailRoad DELTA
Angled-back slat ends and a complementary profile to the under-seat support characterises the refined aesthetics of the DELTA family within the RailRoad range. The rounded leading edge to the bench slats also provides comfortable long term seating provision.

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. Wherever you see our UK Made logo you can be assured that the product is manufactured in the UK.
Design principles and built-in features

RailRoad is based on a simple series of inter-changeable straight and curved modules, which are designed to be joined to create seamless runs of continuous seating. The design is based around a standard module that comfortably accommodates 2 people, with the start and end units also including small extension sections at one end. Just like with a model train track, straights and curves can be mixed to create interesting configurations. A double-end unit offers a small independent seating solution to complement longer assemblies. Double width seating and complementary planters, which can be added at any point along a seating run, are the latest additions to the range.

Seating features:
- A choice of 3 timber profile & seat support combinations
- 3 standard radii for curved versions
- Armrest & tablet options
- Backrests including internal (inward-facing seating) & external (outward-facing seating) on curved modules
- Chaise-longue additions to straight benches

Planter features:
- Can be added at the start / end or within a seating run
- A choice of 4 lengths and 2 height options
- Straight and curved seating units can be joined to planters
- Use in conjunction with any seat support type (but only square-ended ‘Edge’ timbers)
- Can also be used as independent planters
RAILROAD SEATING RANGE

Standard dimensions: **straight 2-person module**

- 1300mm - Mid Module
- 1615mm - Start + End Modules
- 1950mm - Double-End (Independent) Seat / Bench

**Key:**
- Blue lines indicate alignment of under-seat and backrest supports
- Shaded boxes indicate standard armrest positions

End modules have an extension with 5 additional timbers on one side and are reversible

Standard dimensions: **curved 2-person module**

- 2-person segment angle

**Standard radius options:**

<table>
<thead>
<tr>
<th>Centre line radius:</th>
<th>Centre line diameter:</th>
<th>2-person segment angle:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1250mm</td>
<td>2500mm</td>
<td>60 deg</td>
</tr>
<tr>
<td>2500mm</td>
<td>5000mm</td>
<td>30 deg</td>
</tr>
<tr>
<td>3750mm</td>
<td>7500mm</td>
<td>20 deg</td>
</tr>
</tbody>
</table>

- 1300mm - Mid Module
- 1615mm - Start + End Modules
- 1950mm - Double-End (Independent) Seat / Bench

Left hand end modules have an extension with 5 additional timbers on the left hand side

Right hand end modules have an extension with 5 additional timbers on the right hand side

Note: dimensions are arc lengths along centre lines and are common to all seat radii options (segment angles vary with radius)
RAILROAD EDGE: STRAIGHT BENCHES & SEATS

RAILROAD EDGE GENERAL SPECIFICATION
Steel frame & seat supports for bolt-down surface fixing, hot dip galvanised, with iroko timber seat and backrest slats

OPTIONS:
- Extended depth supports for in-ground installation
- Armrests - all-steel or steel with iroko top
- Tablet - 350mm wide, steel with iroko top
- Chaise longue backrest addition (straight benches only)
- Polyester powder coated steelwork to any RAL reference
- Timbers with UV protective finish
- Double width seating platforms (straight seating only)

STRAIGHT BENCHES (NO BACKRESTS)

2-PERSON MODULES
Start modules, 1615mm long
Mid modules, 1300mm long
End modules, 1615mm long

INDEPENDENT BENCHES
1950mm long
3250mm long

STRAIGHT SEATS WITH BACKRESTS

2-PERSON MODULES
Start modules, 1615mm long
Mid modules, 1300mm long
End modules, 1615mm long

INDEPENDENT SEATS
1950mm long
3250mm long

MODEL ILLUSTRATED:
RRBES7 S + RRBES7 E (3250mm long)
# Railroad Edge: Curved Benches & Seats

**Curved Benches (No Backrests)**

<table>
<thead>
<tr>
<th>2-Person Modules</th>
<th>R1.25m C/L</th>
<th>R2.50m C/L</th>
<th>R3.75m C/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start module left hand</td>
<td>RRBES7 SL125</td>
<td>RRBES7 SL250</td>
<td>RRBES7 SL375</td>
</tr>
<tr>
<td>Start module right hand</td>
<td>RRBES7 SR125</td>
<td>RRBES7 SR250</td>
<td>RRBES7 SR375</td>
</tr>
<tr>
<td>Mid module</td>
<td>RRBES7 M125</td>
<td>RRBES7 M250</td>
<td>RRBES7 M375</td>
</tr>
<tr>
<td>End module left hand</td>
<td>RRBES7 EL125</td>
<td>RRBES7 EL250</td>
<td>RRBES7 EL375</td>
</tr>
<tr>
<td>End module right hand</td>
<td>RRBES7 ER125</td>
<td>RRBES7 ER250</td>
<td>RRBES7 ER375</td>
</tr>
</tbody>
</table>

**Independent Units**

| 1950mm long bench | RRBES7 125 | RRBES7 250 | RRBES7 375 |
| 3250mm long bench | RRBES7 SL125+ | RRBES7 SL250+ | RRBES7 SL375+ |

**Curved Seats with External Backrests**

<table>
<thead>
<tr>
<th>2-Person Modules</th>
<th>R1.25m C/L</th>
<th>R2.50m C/L</th>
<th>R3.75m C/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start module left hand</td>
<td>RRSES7 SL125E</td>
<td>RRSES7 SL250E</td>
<td>RRSES7 SL375E</td>
</tr>
<tr>
<td>Start module right hand</td>
<td>RRSES7 SR125E</td>
<td>RRSES7 SR250E</td>
<td>RRSES7 SR375E</td>
</tr>
<tr>
<td>Mid module</td>
<td>RRSES7 M125E</td>
<td>RRSES7 M250E</td>
<td>RRSES7 M375E</td>
</tr>
<tr>
<td>End module left hand</td>
<td>RRSES7 EL125E</td>
<td>RRSES7 EL250E</td>
<td>RRSES7 EL375E</td>
</tr>
<tr>
<td>End module right hand</td>
<td>RRSES7 ER125E</td>
<td>RRSES7 ER250E</td>
<td>RRSES7 ER375E</td>
</tr>
</tbody>
</table>

**Independent Units**

| 1950mm long bench | RRSES7 125E | RRSES7 250E | RRSES7 375E |
| 3250mm long bench | RRSES7 SL125E+ | RRSES7 SL250E+ | RRSES7 SL375E+ |

**Curved Seats with Internal Backrests**

<table>
<thead>
<tr>
<th>2-Person Modules</th>
<th>R1.25m C/L</th>
<th>R2.50m C/L</th>
<th>R3.75m C/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start module left hand</td>
<td>RRSES7 SL125N</td>
<td>RRSES7 SL250N</td>
<td>RRSES7 SL375N</td>
</tr>
<tr>
<td>Start module right hand</td>
<td>RRSES7 SR125N</td>
<td>RRSES7 SR250N</td>
<td>RRSES7 SR375N</td>
</tr>
<tr>
<td>Mid module</td>
<td>RRSES7 M125N</td>
<td>RRSES7 M250N</td>
<td>RRSES7 M375N</td>
</tr>
<tr>
<td>End module left hand</td>
<td>RRSES7 EL125N</td>
<td>RRSES7 EL250N</td>
<td>RRSES7 EL375N</td>
</tr>
<tr>
<td>End module right hand</td>
<td>RRSES7 ER125N</td>
<td>RRSES7 ER250N</td>
<td>RRSES7 ER375N</td>
</tr>
</tbody>
</table>

**Independent Units**

| 1950mm long bench | RRSES7 125N | RRSES7 250N | RRSES7 375N |
| 3250mm long bench | RRSES7 SL125N+ | RRSES7 SL250N+ | RRSES7 SL375N+ |
RAILROAD LOOP: STRAIGHT BENCHES & SEATS

RAILROAD LOOP GENERAL SPECIFICATION
Steel frame & seat supports for bolt-down surface fixing, hot dip galvanised, with iroko timber seat and backrest slats

OPTIONS:
- Extended depth supports for in-ground installation
- Armrests - all-steel or steel with iroko top
- Tablet - 350mm wide, steel with iroko top
- Chaise longue backrest addition (straight benches only)
- Polyester powder coated steelwork to any RAL reference
- Timbers with UV protective finish
- Square-ended ‘Edge’ timber slats
- Double width seating platforms (straight seating only)

STRAIGHT BENCHES (NO BACKRESTS)

2-PERSON MODULES
Start modules, 1615mm long
Mid modules, 1300mm long
End modules, 1615mm long

INDEPENDENT BENCHES
1950mm long
3250mm long

STRAIGHT SEATS WITH BACKRESTS

2-PERSON MODULES
Start modules, 1615mm long
Mid modules, 1300mm long
End modules, 1615mm long

INDEPENDENT SEATS
1950mm long
3250mm long

MODEL ILLUSTRATED:
RRBLR7 S + RRBLR7 E (3250mm long)

MODEL ILLUSTRATED:
RRSLR7 S + RRSLR7 E (3250mm long)
### Curved Benches (No Backrests)

#### 2-Person Modules
- **Start module left hand**
- **Start module right hand**
- **Mid module**
- **End module left hand**
- **End module right hand**

#### Independent Units
- **1950mm long bench**
- **3250mm long bench**

### Curved Seats with External Backrests

#### 2-Person Modules
- **Start module left hand**
- **Start module right hand**
- **Mid module**
- **End module left hand**
- **End module right hand**

#### Independent Units
- **1950mm long bench**
- **3250mm long bench**

### Curved Seats with Internal Backrests

#### 2-Person Modules
- **Start module left hand**
- **Start module right hand**
- **Mid module**
- **End module left hand**
- **End module right hand**

#### Independent Units
- **1950mm long bench**
- **3250mm long bench**

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**MODEL ILLUSTRATED:**
- RRBLR7 SL125 + RRBLR7 ER125 (3250mm long c/l)
- RRSLR7 SL125E + RRSLR7 ER125E (3250mm long c/l)
- RRSLR7 SL125N + RRSLR7 ER125N (3250mm long c/l)

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RAILROAD DELTA: STRAIGHT BENCHES & SEATS

RAILROAD DELTA GENERAL SPECIFICATION
Steel frame & seat supports for bolt-down surface fixing, hot dip galvanised, with iroko timber seat and backrest slats

OPTIONS:
• Armrests - all-steel or steel with iroko top
• Tablet - 350mm wide, steel with iroko top
• Chaise longue backrest addition (straight benches only)
• Polyester powder coated steelwork to any RAL reference
• Timbers with UV protective finish
• Square-ended ‘Edge’ timber slats
• Double width seating platforms (straight seating only)

STRAIGHT BENCHES (NO BACKRESTS)

2-PERSON MODULES
Start modules, 1615mm long
Mid modules, 1300mm long
End modules, 1615mm long

INDEPENDENT BENCHES
1950mm long
3250mm long

STRAIGHT SEATS WITH BACKRESTS

2-PERSON MODULES
Start modules, 1615mm long
Mid modules, 1300mm long
End modules, 1615mm long

INDEPENDENT SEATS
1950mm long
3250mm long

MODEL ILLUSTRATED:
RRBDA7 S + RRBDA7 E (3250mm long)

MODEL ILLUSTRATED:
RRSDA7 S + RRSDA7 E (3250mm long)
RAILROAD DELTA: CURVED BENCHES & SEATS

CURVED BENCHES (NO BACKRESTS)

2-PERSON MODULES

Start module left hand  
Start module right hand  
Mid module  
End module left hand  
End module right hand

INDEPENDENT UNITS

1930mm long bench  
3250mm long bench

CURVED SEATS WITH EXTERNAL BACKRESTS

2-PERSON MODULES

Start module left hand  
Start module right hand  
Mid module  
End module left hand  
End module right hand

INDEPENDENT UNITS

1930mm long bench  
3250mm long bench

CURVED SEATS WITH INTERNAL BACKRESTS

2-PERSON MODULES

Start module left hand  
Start module right hand  
Mid module  
End module left hand  
End module right hand

INDEPENDENT UNITS

1930mm long bench  
3250mm long bench

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**RAILROAD ADD-ON OPTIONS**

**Standard armrests**
Constructed from robust 80mm wide steel plate, standard armrests can be fitted between any two timber slats on a bench or seat, although aligning them with bench platform supports and at midpoints between will ensure comfortable spacings. There is one style specifically designed for use with benches (although these can also be used with seats if preferred), and another for seats with backrests. Armrests can be easily retro-fitted if required.

**Timber-topped armrests**
The addition of a timber slat to a steel armrest aids its use, improves comfort and looks good. The timber rail extends beyond the front of the steel armrest support, thereby providing a good grip area for less able-bodied people in particular to assist when lowering themselves onto or lifting off from the seats. A timber armrest is also warmer to the touch. At 110mm wide, the flat timber is suitable for placing small items such as a coffee cup onto.

**Tablet surfaces**
It is increasingly common for people to carry a small laptop or tablet device, and to use them in the outdoor environment. At 350mm wide, the tablet (a small side table) is a useful addition to a bench, suitable for placing not only computer devices onto, but also food and drink, a book or newspaper. When using a tablet it is not advisable to use armrests in standard positions as the gaps between would be too narrow for comfortable seating.

570mm - gap between armrests

540mm - gap between armrests

950mm - gap between tablets

1300mm pitch
2-person module

1300mm pitch
2-person module

1300mm pitch
2-person module
RAILROAD ADD-ON OPTIONS

Backrests
All standard 2-person bench modules are designed to accommodate backrests, meaning they can be fitted at the outset or retro-fitted after installation if the need for a backrest is determined later. Backrests align with the bench supports, and are therefore inset from the ends of bench platforms. On long seat assemblies, backrests can be continuous or with gaps, and even staggered to both sides to provide dual aspect seating. All of the different backrest options (straights and external / internal curves of all radii) can be adjoined to provide a continuous back support. Shown here are various layouts and the terminology that we use to ensure that the correct backrests are provided in the correct positions.

Curved external backrests
When the backrest is on the outside of a curved seat we refer to this as an external backrest, with people facing inwards towards the centre point of the seat radius.

Curved internal backrests
When the backrest is on the inside of a curved seat we refer to this as an internal backrest, with people facing outwards away from the centre point of the seat radius.

Combined curved external & internal backrests
On wave layout seating, a continuous backrest on one side requires both external & internal backrests, joined at the change of direction junction on the bench, all of which is achievable with standard components.
Relax, put your feet up!
All RailRoad straight benches can be fitted with a chaise longue backrest, allowing users to put their feet up to relax and enjoy the outdoors, especially in the summer months. Chaise longue backrests can be fitted at any position along a bench, although we would recommend aligning them on the segment divisions as shown below to maximise the amount of useful seating space. Longer assemblies obviously give room to really stretch out and also for back-to-back arrangements.
Double platforms and back-to-back seating

At 1400mm wide, double width benches are large enough to be considered as small platforms that people can sit in the middle of, as well as around the edges. For safe handling the platform itself is divided into 2 sub-assembled parts, each essentially the same as the standard width platform, and available with all the same add-on options, including backrests, armrests and tablet surfaces. Double width platforms are also offered in the same 3 styles - Edge, Loop and Delta - as for standard seating, with the steel supports designed as complementary double width versions. Benches and seats can be used as independent units and joined together to form longer runs, and also combined with planters in an endless array of configuration options. As with all RailRoad range products, modularity and interchangeability comes as standard.

RailRoad EDGE DOUBLE WIDTH

Square-form timbers define the sharp visual characteristics of the EDGE family. Platform supports are a closed-end steel box fabrication (these are open-ended on the standard width units) that gives a very heavy duty and robust aesthetic, and most often supplied in a galvanised only finish, which is popular on municipal schemes in particular.

RailRoad LOOP DOUBLE WIDTH

The rounded-end profile of the bench slats, combined with circular support posts are the distinctive features of the LOOP version of the RailRoad. The slats offer a greater degree of comfort for the sitter and a visually softer appearance than for other options making the design suited to sites where people sit for longer.

RailRoad DELTA DOUBLE WIDTH

Gently angled-back edge slats and a complementary profile to the under-seat support characterises the refined aesthetics of the DELTA version of the RailRoad range. The extra span of the platform necessitates the addition of a central vertical plate that isn’t used on the standard width seating.
RailRoad in the round
Curved seating, and circular arrangements in particular, are an increasingly popular choice on many landscape schemes. Inward facing curves offer greater sociability compared with linear seating, and outward facing seating is often used to encircle a prominent feature on a site, such as a specimen tree. The modular design of the RailRoad range is ideal for circular arrangements and we offer 3 standard diameters - 2.5m, 5m and 7.5m (all measured on the seating platform centre line). These sizes all divide up to give common module lengths based on a 2-person segment. Varying the combinations of Start, End and Mid Modules (and Double-Ends on some layouts) gives a wide variety of circular options, including fully enclosed circles, horseshoes with a single opening and circles with gaps for access into the central area. Part-circles can also be achieved by reducing the number of component seating modules. The extensive range of options shown comprise standard modules throughout, meaning that circular seating from the RailRoad range can be supplied at very competitive prices compared with bespoke designs. Internal or external backrests (or a mix of both) are compatible with all models and further options include armrests and tablet surfaces.

Note: Seating arrangements that contain End Modules include an extension section to one end, which adds approximately 300mm to the centre line length of a 2-person segment. If there is an armrest at the end of the 2-person segment the extension can serve as a narrow perch-type seat. Without any armrests this area is a seamless extension of the main seating platform. Seating capacities as shown do not include for any additional seating provided by the extension area.
RAILROAD CIRCULAR SEATING

ENCLOSED CIRCLES
Full circular arrangements are ideal around site features such as trees, where users sit facing outwards and access to the central area is not needed.

HORSESHOES
Circular arrangements with a single gap allow access to the central space and are popular as exterior teaching areas in school grounds.

OPEN CIRCLES (NARROW GAPS)
Narrow gaps in circular arrangements are suitable for occasional access to the central area. The gaps serve to visually break up large volumes of seating.

OPEN CIRCLES (WIDE GAPS)
Wider gaps allow wheelchair access to the central area, making these arrangements the most versatile in terms of their use.

Ø2.50m CIRCLE C/L (SEAT C/L RADIUS 1.25m)

- 1 x Start Module
- 2 x Mid Modules
- 1 x End Module
- Seats 8 people
- Gap = 1275mm

- 2 x Start Modules
- 2 x End Modules
- Seats 8 people
- Gaps = 465mm

- 2 x Double End Modules
- Seats 4 people
- Gaps = 1275mm

Ø5.0m CIRCLE C/L (SEAT C/L RADIUS 2.50m)

- 1 x Start Module
- 8 x Mid Modules
- 1 x End Module
- Seats 20 people
- Gap = 1645mm

- 4 x Start Modules
- 4 x End Modules
- Seats 16 people
- Gaps = 560mm

- 3 x Start Modules
- 3 x End Modules
- Seats 12 people
- Gaps = 1645mm

Ø7.5m CIRCLE C/L (SEAT C/L RADIUS 3.75m)

- 18 x Mid Modules
- Seats 36 people

- 1 x Start Module
- 14 x Mid Modules
- 1 x End Module
- Seats 32 people
- Gap = 1760mm

- 6 x Start Modules
- 6 x End Modules
- Seats 24 people
- Gaps = 590mm

- 5 x Start Modules
- 5 x End Modules
- Seats 20 people
- Gaps = 1300mm
Seating with a twist
As with circular seating, wave-form / serpentine shapes are a popular choice for external seating provision, and are often employed in double aspect situations, where sitters can choose which way to view their surroundings. From just 3 standard radius options, a wide variety of wave forms can be offered by introducing changes of direction to the individual modules at different points - creating a visual range from gentle waves to accentuated peaks and troughs. The examples shown opposite all use common modular seats in a single arrangement, meaning the pattern has a distinct visual geometry. Different radius seating modules can be joined to form more organic layouts.

As across the entire RailRoad range, there are 3 styles of seating offered - Edge, Loop and Delta - all of which are available with a range of optional add-on features, such as armrests, tablet surfaces and backrests.

Note: Seating arrangements that contain End Modules include an extension section to one end, which adds approximately 300mm to the centre line length of a 2-person segment. If there is an armrest at the end of the 2-person segment the extension can serve as a narrow perch-type seat. Without any armrests this area is a seamless extension of the main seating platform. Seating capacities as shown do not include for any additional seating provided by the extension area.
### Alternate Directions
Changing the direction of adjacent curved seating modules results in a low profile wave layout, which provides a subtle variation to straight seating, without taking up too much space. All layouts shown provide 4 seating places.

### 2-Segment Direction Changes
Adjacent curved seats paired in the same direction accentuate the form of the wave, creating a more distinct S-shape layout, particularly on the tight radius models. These compact layouts provide a minimum of 8 seating places for good social seating provision.

### 3-Segment Direction Changes
Groups of 3 curved seat modules in the same direction give a pronounced wave dynamic. Each layout shown below is a continuous seat that will accommodate at least 12 people and makes a significant visual statement on any site. These seats are ideal for busy sites where people take time to enjoy their surroundings. Tighter radius modules give the impression of two adjoined half circles, whereas the more relaxed curves create elongated S-shapes.

#### C/L Radius 1.25m Modules
- **3510 x 1025mm o/a**
- 1 x Start Module
- 1 x End Module
- **Seats 4 people**

- **5255 x 1950mm o/a**
- 1 x Start Module
- 2 x Mid Modules
- 1 x End Module
- **Seats 8 people**

- **5700 x 3200mm o/a**
- 1 x Start Module
- 4 x Mid Modules
- 1 x End Module
- **Seats 12 people**

#### C/L Radius 2.50m Modules
- **3475 x 865mm o/a**
- 1 x Start Module
- 1 x End Module
- **Seats 4 people**

- **5970 x 1370mm o/a**
- 1 x Start Module
- 2 x Mid Modules
- 1 x End Module
- **Seats 8 people**

- **8060 x 2165mm o/a**
- 1 x Start Module
- 4 x Mid Modules
- 1 x End Module
- **Seats 12 people**

#### C/L Radius 3.75m Modules
- **3425 x 815mm o/a**
- 1 x Start Module
- 1 x End Module
- **Seats 4 people**

- **6030 x 1150mm o/a**
- 1 x Start Module
- 2 x Mid Modules
- 1 x End Module
- **Seats 8 people**

- **8455 x 1705mm o/a**
- 1 x Start Module
- 4 x Mid Modules
- 1 x End Module
- **Seats 12 people**

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**RAILROAD GEOMETRIC SEATING ISLANDS**

**Ovals & triangles**
Circular enclosures - utilising common modules throughout - are popular seating layouts in many landscape schemes but so much so are now considered quite ordinary. With the RailRoad there is the option of mixing the module types to create more unusual layouts. Shown here is an oval comprising modules of 2 different radii, and a triangular arrangement achieved by adding straight line modules between the curves - all using standard modules, meaning these more distinctive arrangements cost no more than the equivalent-sized circles.

**OVAL**
4 x R1.25m Curved Mid Modules
4 x R2.5m Curved Mid Modules
**Seats 16 people**
4450mm x 3540mm o/a

**TRIANGLE**
3 x Straight Mid Modules
6 x R1.25m Curved Mid Modules
**Seats 18 people**
4500mm x 4330mm o/a

**Wavy-edged islands**
Re-orientating selected modules in the opposite direction to the predominant curve creates a wavy-line edge to these seating arrangements. The figure of eight layout lends itself to perhaps 2 internal specimen trees - one in each lobe, and similarly the triangular version could accommodate 3 internal trees. Curved seating in general, and alternating the orientation of seating in particular, creates more semi-private spaces that encourages use of the seating, as people sitting alongside each other can face in slightly different directions.

**FIGURE OF EIGHT**
10 x R1.25m Curved Mid Modules
**Seats 20 people**
5700mm x 3200mm o/a

**WAVY-EDGED TRIANGLE**
12 x R1.25m Curved Mid Modules
**Seats 24 people**
5700mm x 5370mm o/a
**RAILROAD GEOMETRIC SEATING ISLANDS**

**Propellers**
These layouts combine double width straight seats on each arm of the propeller, joined by curved modules in the centre to give three seating orientations. The central gap is relatively small, meaning these layouts would suit placement around features such as a column, or perhaps a street clock. The geometry of the propeller allows multiple forms to be used together to create even larger scale honeycomb-type arrangements.

**PROPELLER**
- 3 x Straight Double Width End Modules
- 3 x R1.25m Curved Mid Modules
- **Seats 18 people**
- 5100mm x 4420mm o/a (Ø5090mm)

**PROPELLER EXTENDED**
- 3 x Straight Double Width End Modules
- 6 x R2.5m Curved Mid Modules
- **Seats 24 people**
- 6350mm x 5500mm o/a (Ø6525mm)

**Open eyes**
Straight line continuous seating might be considered fairly monotonous, offering only a single aspect (or double if back-to-back) that may have to be 'broken' where there are site features in the way. By adding curved modules the seating can divert around existing site features and also presents a far more visually interesting seating solution. When used in a back-to-back arrangement as shown on the examples here, the seats are an unusual variation to a circular tree seat, that would be suited to a linear street layout as it takes up much less space than a full circle.

**OPEN EYE**
- 2 x Straight Double Width End Modules
- 6 x R1.25m Curved Mid Modules
- **Seats 20 people**
- 6980mm x 2400mm o/a

**OPEN EYE EXTENDED**
- 2 x Straight Double Width End Modules
- 8 x R2.5m Curved Mid Modules
- **Seats 24 people**
- 8230mm x 2740mm o/a
**Endless possibilities**

Just like with a model train track, the layout options with RailRoad seating are almost endless, with all straight and curved modules being interchangeable. Backrests can be fitted in long runs or just to selected modules, and armrests and tablets can be fitted at any point along the seating run. Whilst the example layout shown here is unlikely to be a serious proposition for any site, it demonstrates the flexibility offered by the RailRoad seating range. The only model train track components not scaled up for the RailRoad range are points, buffers and signals!
RAILROAD ORGANIC LAYOUTS

If you have a requirement for a site-specific layout, our designers are happy to visualise the configuration for you. Simply let us know the approximate overall area that you have available, the forms and features that you are interested in, and leave the rest to us.

Key: basic bench modules on example configuration shown:

- **SS**: Straight Start
- **SM**: Straight Mid
- **SE**: Straight End
- **CM 1**: Curved Mid, 1.25m c/l radius
- **CM 2**: Curved Mid, 2.50m c/l radius

All aboard the RailRoad!

If you have a requirement for a site-specific layout, our designers are happy to visualise the configuration for you. Simply let us know the approximate overall area that you have available, the forms and features that you are interested in, and leave the rest to us.

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Case study: University of Leicester Brookfield Campus

Brookfield - a satellite site to the central campus - is a recent acquisition that the University of Leicester is developing to offer supplementary and upgraded teaching facilities and office accommodation for support staff. The site comprises a mixture of historic buildings and distinctive late twentieth century constructions with enclosed courtyards. One of these courtyards is the first area to be redeveloped at Brookfield, designed to offer an external rest and relaxation area, or even be used as a meeting space when the weather is suitable, by the Estates Management team staff from the surrounding offices. When selecting seating for the scheme, landscape architects Barry Chinn Associates truly embraced the modular concept of RailRoad, so much so that the setting out of the perimeter planting beds was dictated by the seating sizes. Three separate seats were supplied, each comprising different radii modules that introduce a refreshing informality to the courtyard, especially compared to the very linear layout of the space previously. The seating is further enhanced by the addition and informal placement of backrests, armrests and tablet surfaces, which are useful for placing paperwork, laptops, or simply a coffee on. Unusually, the seating combines straight-cut ‘Edge’ timbers with the round post ‘Loop’ seat supports.
Case study: Research Triangle Park, North Carolina, USA
The Research Triangle Park (RTP) is one of the most prominent high-tech research and development parks in the United States, centred on the three hub cities of Raleigh, Durham, and Chapel Hill, and their research universities. RTP was created in 1959 by state and local governments, academic establishments and local businesses and is now home to over 200 companies employing 50,000 workers, including the second largest IBM operation in the world, and GlaxoSmithKline’s largest R & D centre, all within 10 square miles of pine forest setting. Although buildings and roadways divide and traverse the park, expanses of the original forest remain, providing an attractive outdoor environment for the staff to use at break times and even for informal meetings. RailRoad seating was chosen for one such area as its inherent flexible design allows endless configuration options that could be arranged around the trees and other existing site features. The Loop version - with its round-ended timber slats and circular post supports - visually complimented the environment, and was the simplest of the RailRoad styles to supply with extended legs to allow in-ground installation on the undulating ground. The steelwork was finished in a vibrant green, to contrast with the deeper tones of the pines. Letterform cycles stands spelling ‘EAT’ were installed near to the seating, with other words placed elsewhere around the park.
RAILROAD SCHEME DESIGN

Key to modules:

CS 1  Curved Start, 1.25m c/l radius
SS  Straight Start
SM  Straight Mid
CM 1  Curved Mid, 1.25m c/l radius
CM 2  Curved Mid, 2.50m c/l radius
CE 1  Curved End, 1.25m c/l radius
SE  Straight End
Straight line seating

RailRoad Inline is designed as a cost effective alternative to the original RailRoad product range for independent and continuous run straight line only seating. Timber slats on the seat platform and backrest are re-orientated to run in line with the seat length, meaning less machining, eradicating the need for a full length steel support chassis, and with supports at a wider span. As with RailRoad there are 3 styles of seat supports - Edge, Loop and Delta - each with the ends of the timber slats machined in a complimentary profile. Seat assemblies are supplied as starter, mid and end modules to allow long lines of visually seamless continuous seating, with backrests, armrests and tablet surfaces all available as optional extras on all models. Even more effective seating solutions are offered by the RailRoad Inline narrow width bench options.

RailRoad In-line seating

Refer to our RailRoad Inline-specific e-brochure at the link below for details and examples of the full range of standard options offered within the range.

https://issuu.com/furnitubes/docs/furnitubes_e-038-01-16_railroad_inl?e=1460965/32526874
RAILROAD NARROW BENCHES

Compact, cost effective benches
At around 700mm wide, the standard width RailRoad seating platforms offer a generous seating area, allowing people to perch on both sides at the same time. This width also allows for backrests to be added within the overall width of the seat. Where only benches (seating without backrests) are required, and / or there are budgetary constraints, the RailRoad Narrow Bench range is an alternative solution.

STANDARD BENCH
allows perch seating from both sides

NARROW BENCH
suits one person on each part at any one time

All 3 standard RailRoad styles - Edge, Loop and Delta - are offered in straight versions and 3 curved sizes in the RailRoad Narrow Bench range of products. The design principles and geometry remain as for the standard width bench, allowing all the same inter-changeability and configuration layout options, including:
- Straight lines
- Circles - enclosed, open and horseshoes
- Wave-forms
- Organic combinations of any of the above
RAILROAD NARROW BENCHES

RAILROAD NARROW BENCHES GENERAL SPECIFICATION
Steel frame & seat supports for bolt-down surface fixing, hot dip galvanised, with iroko timber seat slats

OPTIONS:
- Extended depth supports for in-ground installation (not Delta)
- Armrests - all-steel or steel with iroko top
- Tablet - 350mm wide, steel with iroko top
- Polyester powder coated steelwork to any RAL reference
- Timbers with UV protective finish
- Square-ended ‘Edge’ timber slats with Loop & Delta supports

www.furnitubes.com  tel: 020 8378 3200
## Railroad Narrow Straight Benches

### Railroad Loop Straight Narrow Bench

**2-Person Modules**
- Start modules, 1615mm long
- Mid modules, 1300mm long
- End modules, 1615mm long

**Independent Benches**
- 1950mm long
- 3250mm long

**Model Illustrated:**
- RRBLRN S + RRBLRN E (3250mm long)

### Railroad Delta Straight Narrow Bench

**2-Person Modules**
- Start modules, 1615mm long
- Mid modules, 1300mm long
- End modules, 1615mm long

**Independent Seats**
- 1950mm long
- 3250mm long

**Model Illustrated:**
- RRBDAN S + RRBDAN E (3250mm long)

### Railroad Edge Straight Narrow Bench

**2-Person Modules**
- Start modules, 1615mm long
- Mid modules, 1300mm long
- End modules, 1615mm long

**Independent Benches**
- 1950mm long
- 3250mm long

**Model Illustrated:**
- RRBESN S + RRBESN E (3250mm long)

---

Ref: S-648-01-16

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RAILROAD NARROW CURVED BENCHES

Note: lengths for curved modules correspond with equivalent straight benches, with lengths measured along bench centre line

<table>
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<tr>
<th>MODEL ILLUSTRATED:</th>
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<tr>
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RAILROAD EDGE CURVED NARROW BENCH

### 2-PERSON MODULES

- **Start module left hand**
- **Start module right hand**
- **Mid module**
- **End module left hand**
- **End module right hand**

<table>
<thead>
<tr>
<th>Length</th>
<th>Module 1</th>
<th>Module 2</th>
<th>Module 3</th>
<th>Module 4</th>
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<td>RRBNESN ER125</td>
<td>RRBNESN M125</td>
<td>RRBNESN EL125</td>
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### INDEPENDENT BENCHES

- **1950mm long**
- **3250mm long**

<table>
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<td>RRBNESN M125</td>
<td>RRBNESN EL125</td>
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RAILROAD LOOP CURVED NARROW BENCH

### 2-PERSON MODULES

- **Start module left hand**
- **Start module right hand**
- **Mid module**
- **End module left hand**
- **End module right hand**

<table>
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<td>3250mm</td>
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<td>RRBLRN ER125E</td>
<td>RRBLRN M125E</td>
<td>RRBLRN EL125E</td>
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### INDEPENDENT BENCHES

- **1950mm long**
- **3250mm long**

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<td>RRBLRN M125E</td>
<td>RRBLRN EL125E</td>
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RAILROAD DELTA CURVED NARROW BENCH

### 2-PERSON MODULES

- **Start module left hand**
- **Start module right hand**
- **Mid module**
- **End module left hand**
- **End module right hand**

<table>
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<td>RRBDA1N ER125N</td>
<td>RRBDA1N M125N</td>
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### INDEPENDENT BENCHES

- **1950mm long**
- **3250mm long**

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RAILROAD TABLES

Tables for a coordinated scheme
RailRoad tables are designed to complement the seating range, with heavy duty iroko timber slats fixed to tough galvanised steel support structures. The table top platform is mounted on a choice of 3 support options - to match the Edge, Loop and Delta seating units. Tables are offered in a length of 1950mm to comfortably accommodate 3 people on each side, or even 4 people at a slight squeeze. This length corresponds with all standard ‘independent’ seating options from the RailRoad range, meaning tables can be used with the standard benches, with or without backs, and also the narrow bench versions, which is a popular combination for picnic sites. Two table widths are offered, with the wider versions recommended for outdoor dining provision.

EXAMPLE TABLE & SEATING SET:
Table: RailRoad Edge supports with standard table top
1950mm long x 825mm wide
Bench: RailRoad Edge Narrow independent benches
1950mm long x 450mm wide

- Adequate width for short term use in picnic situations
- Smaller overall width takes up less space

EXAMPLE TABLE & SEATING SET:
Table: RailRoad Edge supports with wide table top
1950mm long x 930mm wide
Bench: RailRoad Edge independent bench
1950mm long x 700mm wide

- Generous width tables and seating
- Backrest is an optional extra on wide benches
- Ideal for outdoor restaurant dining areas

www.furnitubes.com  tel: 020 8378 3200
RAILROAD TABLES

Steel frame & seat supports for bolt-down surface fixing, hot dip galvanised, with iroko timber slats

RAILROAD EDGE
RRTE 825
1950mm long x 825mm wide table
RRTE 930
1950mm long x 930mm wide table

RAILROAD LOOP
RRTL 825
1950mm long x 825mm wide table
RRTL 930
1950mm long x 930mm wide table

RAILROAD DELTA
RRTD 825
1950mm long x 825mm wide table
RRTD 930
1950mm long x 930mm wide table

OPTIONS (ALL MODELS):
- Extended depth supports for in-ground installation (not Delta)
- Through socket in table top for parasol
- Polyester powder coated steelwork to any RAL reference
- Timbers with UV protective finish
International Bomber Command Centre (IBCC)
The IBCC near Lincoln has been created to provide a world-class facility to serve as a point for recognition, remembrance and reconciliation for Bomber Command. The centrepiece to the site is the Memorial Spire designed by Place Architecture, around which a series of walls record all of the Command servicemen who lost their lives during WWII. Between the walls are planters and bespoke back-to-back RailRoad seats, curved-on-plan with the seat slats set out radially from the centre of the spire. Manufactured with a combination of steel support framework in a powder coated grey finish and timber-slatted seats and backrests, the materials compliment the corten steel and gravel landscape pallete used on the site. The seats are shown here in the lead-up to and at the opening ceremony in October 2015.
Haberdashers’ Aske’s School for Girls
The Excelsior Building is a new addition to the impressive Haberdashers’ Aske’s School campus in Borehamwood, providing a new performance hall, mezzanine café, function room and general teaching spaces, together with courtyard improvements and roof top terraces. The courtyard comprises planted beds, with social spaces and pathways in a mix of resin-bound gravels and synthetic grass surfaces. To allow pupils to enjoy this new outdoor space a seating system was required that was sufficiently flexible to be able to follow the curves and angles of the planting beds, and RailRoad was the ideal choice. The Delta support version was selected, with site-specific features including square-cut RailRoad ‘Edge’ style timbers, a reduced width seating surface of 520mm (compared with 700mm of the standard specification and 450mm for the standard narrow width version benches) and the under-seat support platform supplied in stainless steel. In total over 60 linear metres of RailRoad was supplied, for 4 long curvi-linear seating runs and also some shorter independent straight units.
Coordinated planters with integrated seating

Planters are the latest addition to the RailRoad family, building on the popularity of the seating ranges to offer the specifier a wider range of fully coordinated products. As with the seating designs, modularity and flexibility are key, allowing products to be joined in an infinite number of layout combinations. RailRoad planters are amongst the most robust from our entire range - constructed in folded heavy section plate steel with the exterior finished in a tough polyester powder coated finish and a GRP-lined interior - they form a rigid, durable construction designed to stand the test of time. We have considered the sustainability of the planting as well, building in as standard the provision for a gravel drainage / reservoir base and a drainage outlet pipe that can be used or simply capped off if not required. As well as combining with seating, planters can also be used as independent units and are available in a variety of plan sizes and in two standard heights, to be flush with or higher than seating platform level. The robust timber top rim allows the edges of the planters to be safely used as short term perch seating.

RailRoad Planters

Refer to our planter-specific e-brochure at the link below for details and examples of both independent units and planters used in combination with RailRoad seating modules.

http://issuu.com/furnitubes/docs/furnitubes_railroad_planters_seat/1?e=1460965/33262515
RAILROAD SEATING & PLANTER LINEAR COMBINATIONS

Straight seating module + planter at start / end
Planters can be used at the start / end of a seating run. Cube planters might contain single large specimen plants, whereas troughs offer greater planting opportunities to make a more significant display.

Straight seating modules + planter in mid position
Placing a planter within a seating run serves to break it up into smaller segments, creating more private areas with planting between, which people who are not acquainted are more likely to use than if the seating is a single continuous line.

Straight seating modules + planter as corner unit
Where seats are arranged in L-shapes, the corner section between the two arms is not a very effective seating area. Placing a planter in this area is an ideal use for an otherwise redundant space, and also serves to provide separation between adjacent seats.

Straight seating module + planters at start / end position
If planters are used at both ends, the seating platform can simply bridge between them. With the weight and stability offered by the planters and their fill material, this type of assembly can generally be left freestanding.
Curved triangle
At 3.2m overall diameter, the smallest size RailRoad seating circle may be too large for some sites. Using 3 curved seating segments with cube planters creates a smaller and more unusual arrangement that suits placement around a tree or other feature.

Round-cornered triangle
A triangular layout is a distinctive variation on a circular enclosure, with trough planters that divide the assembly into smaller sections of seating. If one set of the seating pairs is removed the seating could be used as either inward or outward facing.

Ellipse
An ellipse is an alternative to a full circle and takes up less space, using cube planters at the points and curved seating segments between. An attractive shape in its own right, this layout is also suitable for setting out around a specimen tree.

Propeller
Trough planters at the end of each point offer the opportunity of significant planting, with the 3 sets of paired platforms providing curved seating between. The geometry of this layout even allows multiples to be linked together for further seating provision.
Case study: University of Leicester
Fielding Johnson Square lies at the heart of the University of Leicester main campus, flanked by three distinctive 1960s high rise buildings, including the Engineering Building - the first major construction by renowned British architect Sir James Stirling. Created on the site of a former car park, the square has become the university’s main public realm space and pedestrian crossroads, designed as an outdoor meeting place for staff, students and visitors. Earlier works included new paving, soft landscaping and lighting, powerpoints and WiFi infrastructure. The latest phase of works has introduced extensive seating and planter provision, all required to be freestanding so it can be moved around the square according to the space required for events such as Freshers’ week. Furnitubes’ RailRoad range of planters and seating was the ideal choice for this application, as modules can be joined together (and also readily disassembled) to create large stable structures without the need to permanently fix them to the ground. To aid manoeuvrability, planters were designed with higher-than-normal feet to allow access beneath for a low level pallet truck to quickly move the products around the site. In addition to the RailRoad range, other products supplied to the scheme include Hollo stools, bespoke Elements Goalpost table and bench picnic sets, and Arca dual compartment litter and recycling bins.
RAILROAD INSTALLATION

Standard bolt-down fixing
All benches, seats and tables are fitted with a base plate to all supports, pre-drilled for M10 or M12 ground anchors. Surface-mounted bolt-down installation suits sites where the ground is relatively level and where the existing substrate is of sufficient mass and stability to fix into or where new foundation blocks can be laid.

Alternative fixing methods
Where the ground slopes, a standard bolt-down installation may not be suitable, as seating and table top surfaces would echo the falls of the ground level. There are two alternative base / installation options that can be supplied on RailRoad Edge and Railroad Loop products, both of which enable horizontal surfaces to be installed true plumb even on sloping ground. For the RailRoad Delta range of products the tapered faces of the supports are less suited to below ground fixing as variable installation depths on adjacent supports would result in an inconsistent appearance; Delta products are therefore best suited to bolt-down installation onto level ground.

Below ground bolt-down (Edge & Loop)
Steel supports can be extended in depth, with a base plate for bolting down to a concrete foundation block set below the finished paving level, and at sufficient depth to allow paving to be overlaid. All steel supports are generally supplied at the same height, meaning foundation blocks must be set true plumb rather than at a constant depth below finished ground level. The main advantage of this method is that the product can be fairly easily removed without the need to break out a full concrete foundation.

Cast-in post support (Edge & Loop)
Steel supports can be supplied at extended lengths for setting into a concrete foundation block. This method is a relatively quick and easy installation, but removal of the product can be disruptive as the finished surface as well as the concrete have to be broken out and excavated.

Products for either of these installation methods are designed and manufactured to the dimensions to suit your site. Other site-specific details can be designed and supplied as required.
View or download other product e-brochures at the following link:
www.furnitubes.com/brochures