

Universal Bench System

The Universal Bench System now includes options with board sections in wood, steel or recycled plastic. It offers very cost effective modular seating by using standard board sections which can be straight, mitred for corners, or curved in eight different radii.

Board sections can also be manufactured in non-standard radii and lengths, at additional cost, making the possibilities almost endless. Each board section consists of a pair of 145mm wide boards in wood or recycled plastic, or three 150mm wide boards in steel.

To make costing simpler all the standard sizes of board sections are the same price, in each material and thickness.

A wide range of interesting and organic shapes can be made by combining standard board sections to make circles, part circles, squares, horseshoes, ovals, snakes and more complex arrangements, limited only by the scope of your imagination!

Stainless
Steel
Products

Size Two Sections



The standard frames are of three types: intermediate frames, end frames and corner frames. Intermediate frames and corner frames have wider head-plates to take two sets of boards. End frames are inset by 50mm from the end of the board section when linear arrangements are specified.

Frames can be finished in Acrylic Coating, Street-Tough finish or made from stainless steel.

Stainless steel frames are in satin polished grade 316 and are suitable for higher profile enhancement schemes.

Acrylic Coated and Street-Tough finished frames can be specified in a wide range of colours (please see below).

Because of the often substantial size of an assembled bench unit, and the need for a flat ground surface if they are to be bolted down, (which is rarely achieved) these bench units are easiest to install if specified with extended legs to concrete in.

Curved board sections are also used in our picnic sets.

(see pages 56 - 57)

Wooden Boards



Lakeland Tables and Size One Sections

- Boards 32 x 145mm or 45 x 145mm finished
- Standard straight board sections are 1000mm long
- Standard mitred corner board sections are 1200mm long
- Boards available in iroko, seasoned American oak, or treated softwood
- See pages 77 -78 for timber specifications and finishes
- Legs 60 x 3mm circular hollow, (76 x 2mm in stainless)
- Seat height 482mm, seat width 336mm
- Supplied with extended legs (for concreting in), as standard. Also available with circular pedestal base flanged legs (for bolting down). Pedestal base flanges have two securing holes
- Pedestal base option can be bolted down with K1 rawl bolts, see page 29
- Supplied as separate boards and frames, requiring assembly
- Frames finished in either Acrylic Coating or Street-Tough finish in black as standard (see page 82), or in grade 316 satin polished stainless steel. Eleven other standard colour options are available at no extra cost (see page 85). Also available in any other B.S. or RAL colour at additional cost.

Size one Sections with stainless steel frames





Size Two Complete Circle



Mitred Corner Sections

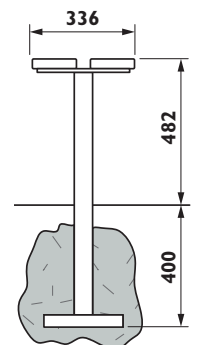
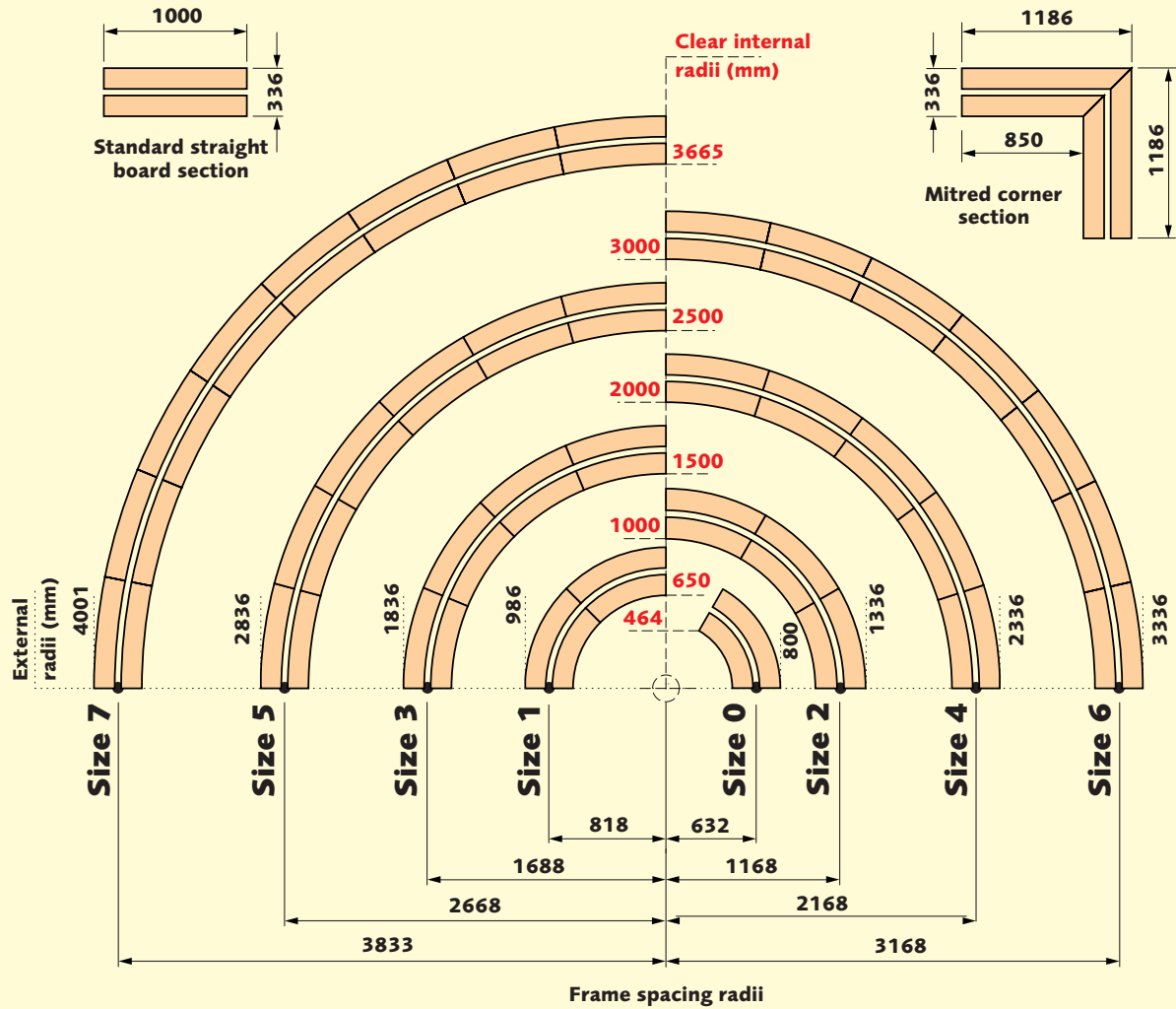
Universal
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'Horseshoe' arrangement

Wooden Board Curved Section Dimensions

Standard Size	Clear internal radius (mm)	Total internal circumference (mm)	Total external circumference (mm)	No. of board sections per complete circle	No. of degrees per section	Board length per section - Internal (mm)	Board length per section - External (mm)
0	464	2915	5027	6	60	455	791
1	650	4084	6195	8	45	488	745
2	1000	6283	8394	12	30	508	682
3	1500	9424	11535	16	22.5	576	707
4	2000	12566	14677	20	18	616	721
5	2500	15708	17819	24	15	642	730
6	3000	18850	20960	28	12.86	664	738
7	3665	23028	25139	32	11.25	709	774



Recycled Plastic Boards

In response to many requests over the past few years we are now able to offer 50mm thick recycled plastic curved board sections. What has made this possible is the availability of recycled plastic wide enough for us cut the boards out of, currently only available in black. The recycled plastic looks particularly good with stainless steel frames.

The sizes and dimensions available are the same as for wooden boards as illustrated opposite, except that it is not possible to make sizes 0 and 1.

In certain circumstances, particularly if vandals use an accelerant such as petrol, this material may catch fire and burn.

Size Two Sections

- Boards 50 x 145mm finished
- Legs 60 x 3mm circular hollow, (76 x 2mm in stainless)
- Seat height 482mm, seat width 336mm
- Supplied with extended legs (for concreting in), as standard. Also available with circular pedestal base flanged legs (for bolting down). Pedestal base flanges have two securing holes
 - Pedestal base option can be bolted down with K1 rawl bolts, see page 29
 - Supplied as separate boards and frames, requiring assembly
 - Frames finished in either Acrylic Coating or Street-Tough finish in black as standard (see page 82), or in grade 316 satin polished stainless steel. Eleven other standard colour options are available at no extra cost (see page 85). Also available in any other B.S. or RAL colour at additional cost.

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Recycled Plastic Benefits

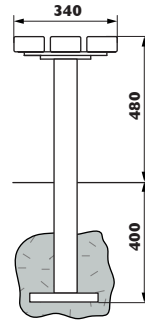
- Ecologically attractive
- Long lasting and durable
- Knot and splinter free
- No painting required
- Water resistant, rot free
- Maintenance free
- Comfortable to sit on
- Through coloured



Size Two Sections

Steel Boards

Again, customer demand has led us to develop these all steel board sections for the Universal Bench System. Specifying any of the twelve standard colours available enables a real splash of colour to be added to play areas. Combining a selection of colours is also possible, creating amazing effects. The board sections have to be rolled from 5mm thick box section, so are over-engineered. Because of the strength of the steel board sections the frame spacings are wider than those used for the wooden or recycled plastic boards, so there are fewer board sections per circle, as shown on the table below. It is not possible to make sizes 0 and 1.

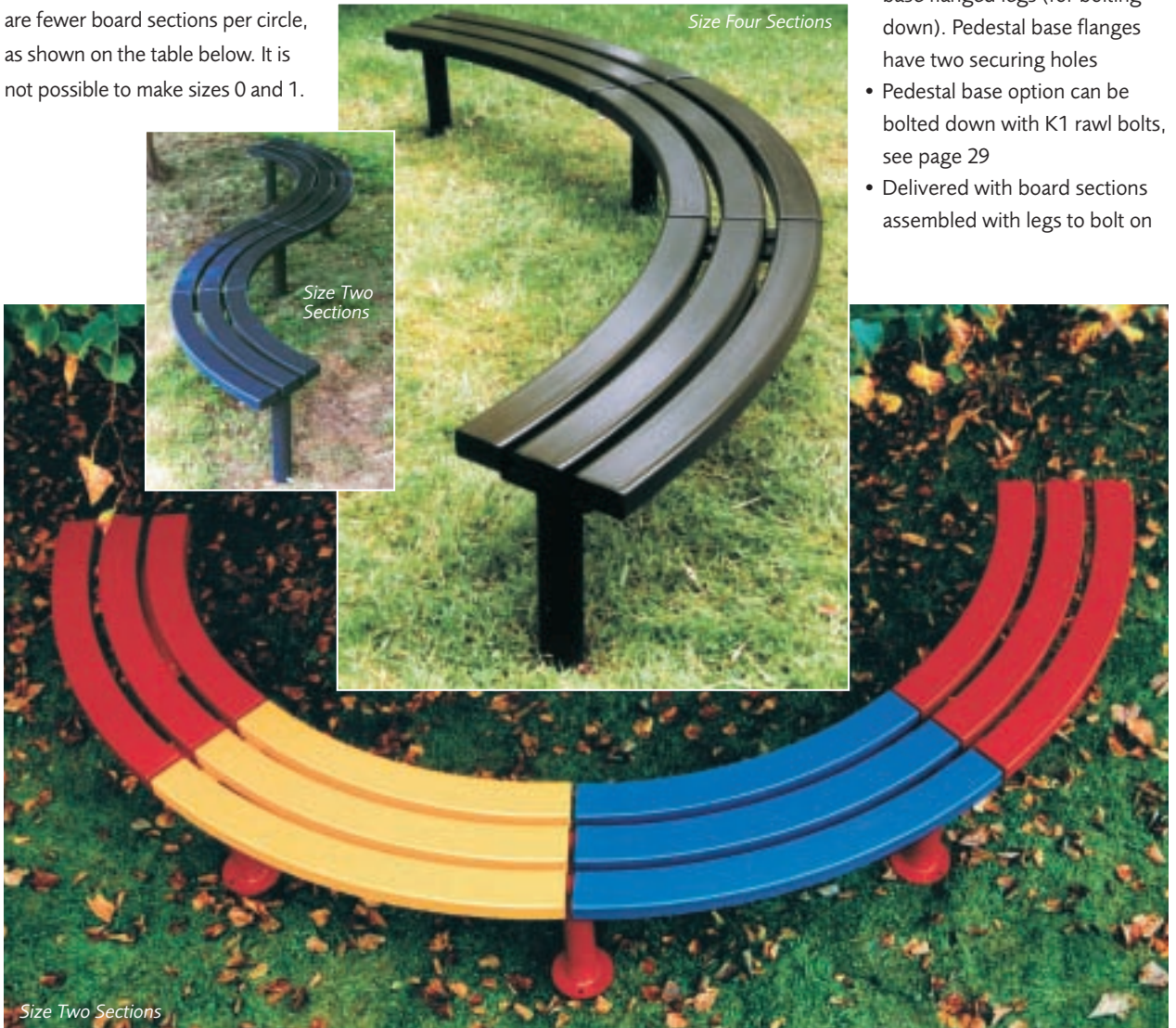


- Street-Tough finish as standard. Acrylic Coating available. Twelve standard colour options are available at no extra cost (see page 85). Also available in any other B.S. or RAL colour at additional cost.

- Slats 50 x 100 x 5mm hollow
- Legs 76 x 3mm circular hollow.
- Seat height 482mm, seat width 336mm
- Supplied with extended legs (for concreting in), as standard. Also available with circular pedestal

base flanged legs (for bolting down). Pedestal base flanges have two securing holes

- Pedestal base option can be bolted down with K1 rawl bolts, see page 29
- Delivered with board sections assembled with legs to bolt on



Steel board curved section dimensions

Standard Size	Clear internal radius (mm)	Total internal circumference (mm)	Total external circumference (mm)	No. of board sections per complete circle	No. of degrees per section	Board length per section - Internal (mm)	Board length per section - External (mm)
2	1000	6283	8419	8	45	765	1025
3	1500	9424	11561	10	36	927	1137
4	2000	12566	14703	12	30	1035	1211
5	2500	15708	17844	16	22.5	975	1108
6	3000	18850	20986	18	20	1042	1160
7	3665	23028	25164	22	16.36	1043	1140