



Universal  
Bench  
System

## Universal Bench System

A very cost effective modular seating system using standard board sections of wood or steel which can be straight, mitred for corners, or curved in eight different radii.

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!

Board sections can be manufactured in non-standard radii and lengths too, at additional cost, making the possibilities almost endless. Each board section consists of a pair of 145mm wide boards in wood or three 100mm wide boards in steel.

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



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 page 90).

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 66 - 68)



# Wooden Boards

- 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 82 & 85 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 71
- Supplied as separate boards and frames, requiring assembly
- Frames finished in either Acrylic Coating or Street-Tough finish in black as standard (see page 87), or in grade 316 satin polished stainless steel. Eleven other standard colour options are available at no extra cost (see page 90). Also available in any other B.S. or RAL colour at additional cost



Size One Sections with stainless steel frames

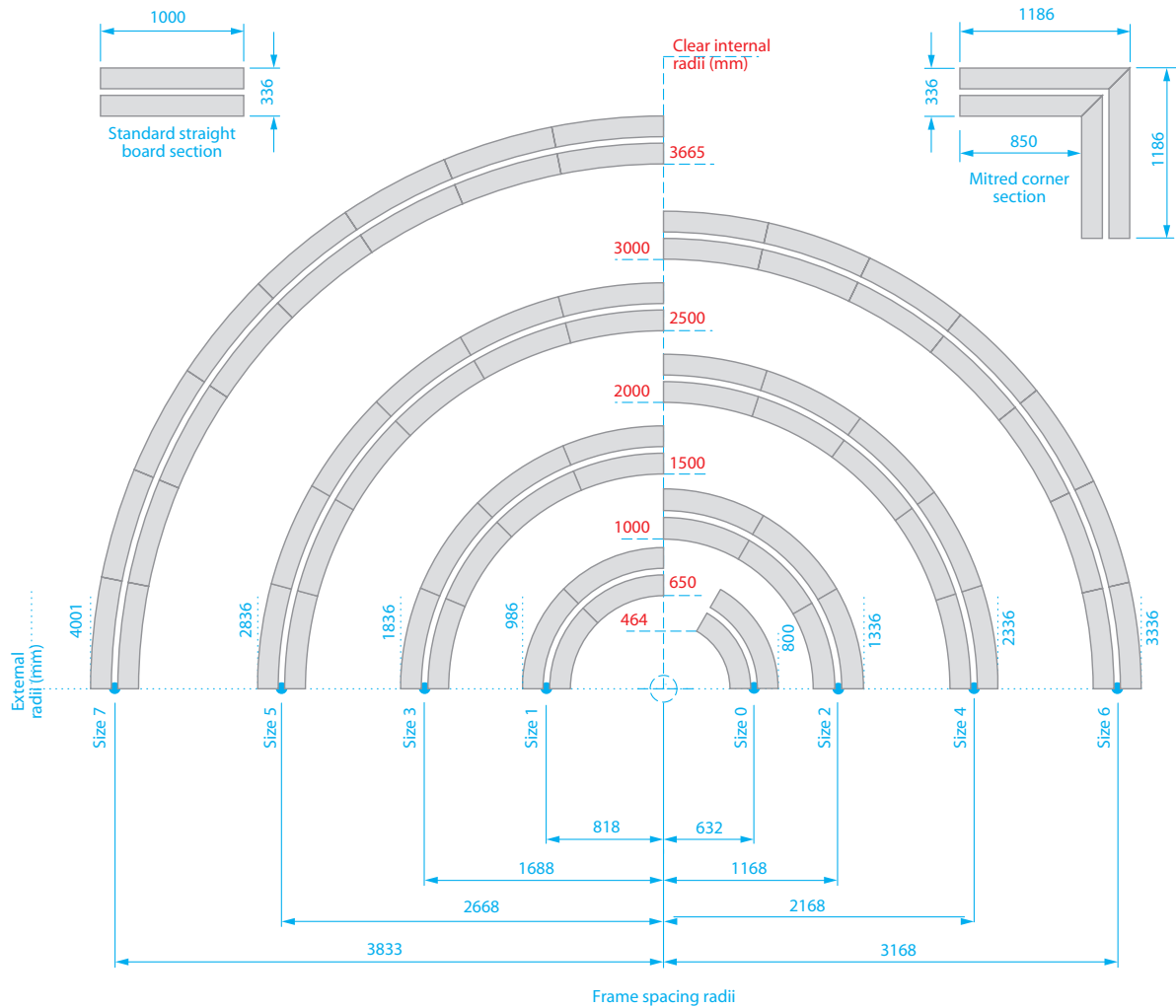
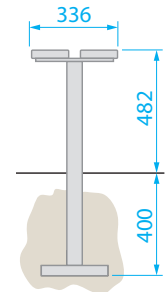




Size Two Sections

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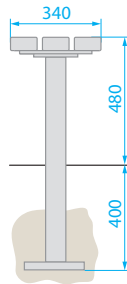
### Wooden Board Curved Section Dimensions

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

# Steel Boards

Our Universal Bench steel board sections are incredibly robust and enable attractive curved seating to be installed in urban environments where vandalism is a problem. Since they can be painted in infinite combinations, they can also be used to introduce a real splash of colour.

Because of the strength of the steel board sections the frame spacings are wider than those used for the wooden 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 90). 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 71
- Delivered with board sections assembled with legs to bolt on



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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





Universal Bench Size Four Sections