HAYBASKET PLANTER

Tools Required to Make this Design:

Punching: Master Punch/Shear (or XL5+ Power Bender) fitted with 5mm punch block & pin
Riveting: Master RBR (or XL5+ Power Bender)
Bending: Master RBR (or XL5+ Power Bender)
Rolling: Master RBR (or XL5+ Power Bender)
Cutting: Master Punch/Shear (or XL5+ Power Bender)

SPECIAL NOTE – If you only have Practical Tools you can still make a similar looking item to this using 20mm x 3mm steel instead. Although this may require a slight adjustment to the bending dimensions accordingly. The rolling, bending and riveting can being done on the Practical RBR and the cutting and punching on the Practical Punch/Shear.

1 Back Support 710mm (X 1)

COMPONENT 1

Take a length of 914mm (3') of 25 x 5mm steel and, it is recommended, you first remove any excess oil, grease or scale with a cloth or abrasive paper (repeat this on all lengths used). Cut this down to 710mm and trim the corners.

Then, using the Design Sheet overleaf as a guide, mark the four hole positions at H1 and H2 plus the two bending points B1 shown on Component 1.

Next, set up the Master R/B/R tool for bending and put a 90° bend at points B1 and make sure both bends are in the same direction so that the resulting components appears as shown below.

Finally, set up the Master Punch/Shear tool, using a 5mm punch pin and block punch the four holes at H1 & H2.

2 Front Rolled Bar 914mm (X 1)

COMPONENT 2

Take another 914mm (3') length of 25 x 5mm steel and using the Design Sheet overleaf as a guide, mark the two hole positions H5 from the ends of the bar, then the two hole positions H3 and the five hole positions H4 from the centre of the bar and finally the two rolling points R1 shown on Component 2.

Then, using Template 2 as a general guide place the bar in the Master R/B/R tool and roll from one end to point R1 to form a quarter circle (see Template 3) and then repeat at the other end of the bar to point R1. Make sure the ends will fit on the outside of the Back Support - giving a finished 'rolled' length of approx. 670mm. Note - if you overbend, you can always place the length back in the Master R/B/R the other way round to straighten it.

3 Bottom Rolled Bar 914mm (X 1)

COMPONENT 3

Take another 914mm (3') length of 25 x 5mm steel and using the Design Sheet overleaf as a guide, mark the two hole positions H6 from the ends of the bar, then the two hole positions H7 and the five hole positions H8 from the centre of the bar and finally the two rolling points R2 shown on Component 3.

Again, using Template 2 as a general guide place the bar in the Master R/B/R tool and roll from one end to point R2 to form a quarter circle. Use Template 3 to make a subtle reduction to the curvature to ensure that the ends will fit on the outside of the Front Rolled Bar (giving a finished 'rolled' length of approx. 680mm). Repeat at the other end of the bar to point R2 and make any final adjustments to make sure that when you offer up the components as in Diagram 5 , the Bottom Rolled Bar lies on the outside, and is just touching the inner faces of the Front Rolled Bar and the Back support fits snugly inside the ends of the Front Rolled Bar.

if you overroll, you can always place the length back in the Master R/B/R the other way round to straighten it.

Next, punch 5mm holes at all hole positions H6, H7 and H8.

Finally, reassemble the components as shown in Diagram 5 and align Holes H1, H5, and H6 at each end and use a 19mm x 5mm rivet to rivet the joints at each end.

4 Outer Planter Supports

280mm (X 2)

COMPONENTS 4

Take a 914mm (3') length of 25 x 5mm steel and cut 2 x 280mm sections. Trim the corners.

These two 280mm lengths will form the Outer Planter Supports and will fit between points H3 & H7 on each side (refer to the assembly drawing below if unsure).

Next take these two shorter lengths and roll evenly in the Master R/B/R tool to fit between and on the inside of the Front and Bottom Rolled Bars at Holes H3 and H7 (the curvature will be similar to but not exactly the same as Template 3. Once the correct curve has been achieved, place in inside and mark any overlap of the corners of the Outer Plant Supports sit neatly behind the Front Rolled and Bottom Rolled Bars. Trim down accordingly.

Align the Support with the punched holes in the Front and Bottom Rolled Bars, mark the required hole positions and punch a 5mm hole top and bottom for both supports.

5 Inner Planter Supports

350mm (X 5)

COMPONENTS 5

From the remaining 914mm (3') lengths and offcuts of 25 x 5mm steel cut 5 x 350mm sections. Trim the corners.

Repeat the same procedure for rolling the 5 inner supports (with slightly different curvature between positions H4 & H8) as you did for the Outer Supports. Also repeat the marking and punching procedure.

6 Assembly

Use the Nut and Bolts provided to assemble and hold the components together during the riveting process item as shown on the back page. Make any adjustments in any rolling curvature to the supports and once everything aligns correctly and is held, go round each joint and replace each nut & bolt with a 12mm x 5mm rivet and rivet in the Master RBR.

The two holes in the Back Support enable you to fix the Haybasket planter to a wall. You can then use a piece of heavy duty black or green polythene to act as a liner, or you can use Sphagnum Moss, Matting or other materials as you prefer, before adding compost and plants. For those with horses, you can of course use it as a hay feeder!

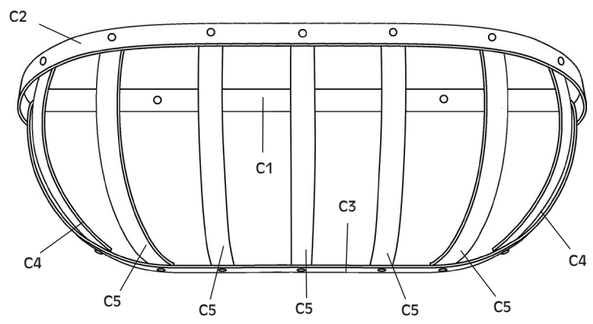
Design Pack
HAYBASKET PLANTER

DIFFICULTY RATING:	
EASY	✓
STRAIGHTFORWARD	
MORE COMPLEX	

Finishing

The finished item can now be painted in a wide variety of finishes (smooth, satin, hammer and metallic) either by aerosol or by brush application. Powder coating and plastic dip finishes can also be applied but these type of finishes are more for commercial/industrial scale finishing.

However, even with aerosol or paint finish you can make your finished item look professional. In this case we used paints from the Plasti-kote and Hammerite ranges – available from most DIY and Painting/ Decorating outlets. For best results, always follow instructions on the tin and make sure the metal is free of all scale, dirt, grease or rust.
Note – if you are using it as a hay feeder for horses make sure the coating used is non toxic.

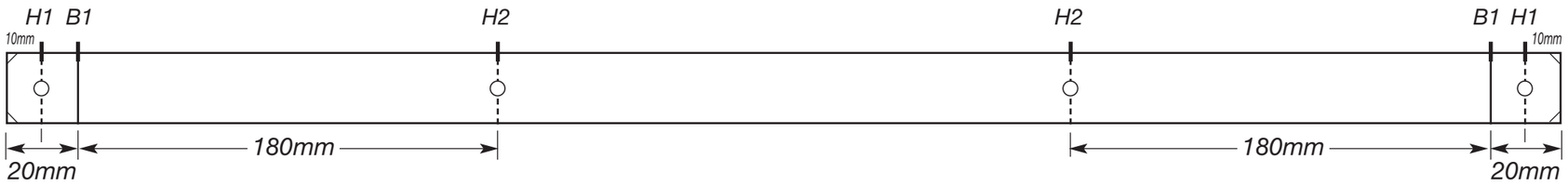


66 CLOUGH ROAD, HULL HU5 1SR • TEL: 01482 345067 • FAX: 01482 441141
email: info@jandcrwood.co.uk • www.metal-craft.co.uk

Issue No. 1
Dec '11

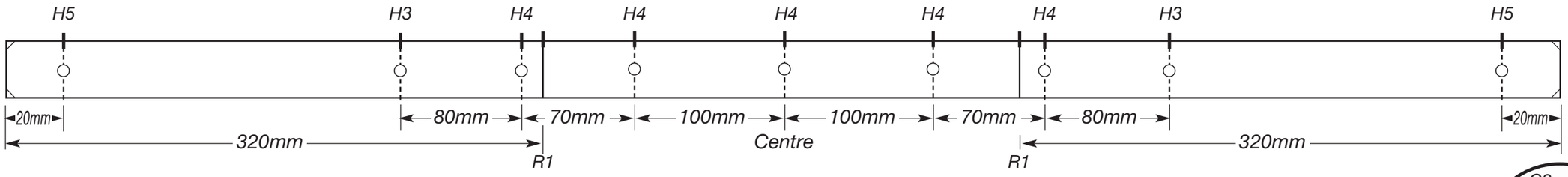
Design Pack: HAYBASKET PLANTER - DESIGN SHEET

Back Support x 1



COMPONENT No. 1 710mm

Front Rolled Bar x 1



COMPONENT No. 2 914mm

TEMPLATE No. 2

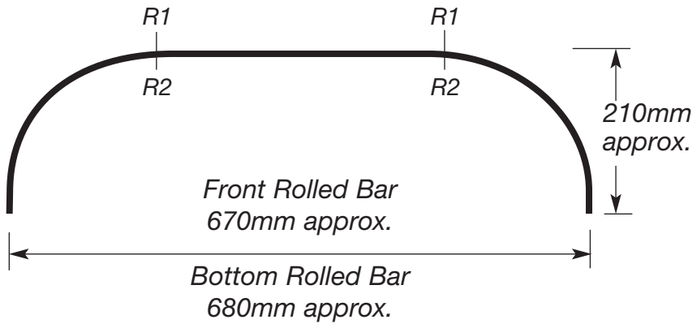
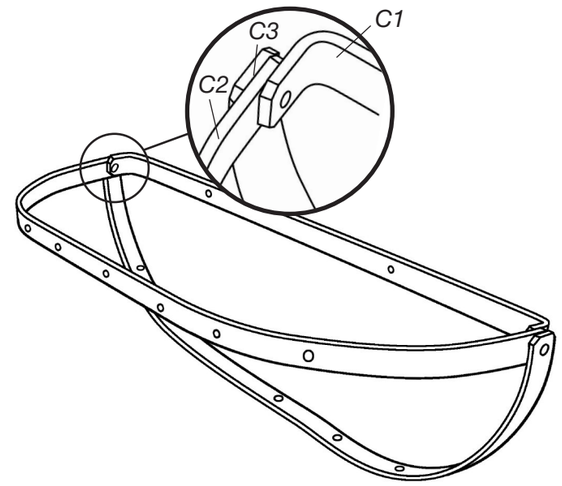
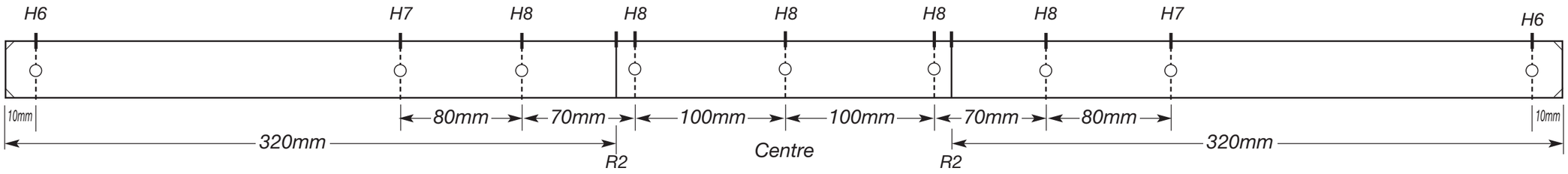


DIAGRAM 5



Bottom Roll Bar x 1



COMPONENT No. 3 914mm

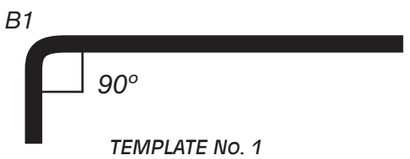
List of Materials Required:

6 x 914mm (3ft) Lengths of 25mm x 5mm Steel Strip [Re-Order Ref: MC040]

16mm x 5mm Nuts & Bolts [Re-Order Ref: MC063]

19mm x 5mm Rivets [Re-Order Ref: MC056L]

15mm x 5mm Rivets [Re-Order Ref: MC055L]



TEMPLATE No. 1

Design Pack: HAYBASKET PLANTER - DESIGN SHEET 2