



PR791 issued: 30th September 2010

New Plumbing Wallcharts on Bending Copper Tube

Plumbing colleges are invited to take advantage of a new resource from the UK Copper Board: a set of two wallcharts that describe in simple terms how to set out and make bends with copper tube. The new resources have been extremely well received, with plumbing lecturers already requesting extra copies.

The first wallchart covers measuring for 90° bends and adding a second 90° bend while the second wallchart covers single and double offsets. Both have been specially designed for use in the classroom or plumbing workshop.

The wallcharts, which are A1-sized posters, are aimed specifically at colleges teaching City and Guilds plumbing courses and copies can be obtained by contacting the UK Copper Board at copperboard@copperdev.co.uk.

A pdf version of the wallcharts can be downloaded from the UK Copper Board website and used as a handout if so desired.

Copies of the first set of wallcharts, covering copper tube and fittings standards and an introduction to pipe sizing, are still available on request.

Notes to the editor:

The UK Copper Board was established in 1993 as part of a European campaign to promote the use of copper as the professional's choice when installing plumbing and heating systems.

The Board works in close association with tube and fitting manufacturers throughout the UK and Europe, and is supported by the International Copper Association and the European Copper Institute.

Bending Copper Tube	Bending Copper Tube
<p>Half-hard (R250) and annealed (R220) copper tube can be used to form bends. Hard drawn (R290) is not suitable for bending.</p> <p>For a simple 90° bend</p> <ol style="list-style-type: none"> Establish the bending mark position. Measure the end-to-centre length required and add $\frac{1}{2} \times OD$. Place a pen mark on the tube, see Figure 1a. <p>For a second bend</p> <ol style="list-style-type: none"> Determine the centre-to-centre length. Measuring off this length from the inside to the back of the required bend, see Figure 1b. Mark the tube. <p>Figure 2 illustrates how to accurately position the bending mark in the machine for 90° bends. When more than one bend is required on a length of tube you must remember to check whether the bends will align correctly in the same plane prior to pulling the second bend.</p> <p>For more information see the Installation Tip <i>Bending Copper Tubes – By Machine</i> by Brian Curry of Leam Plumbing Ltd on the UK Copper Board website.</p> <p>UK Copper Board www.ukcopperboard.co.uk <small>Supporting the National Copper Development Association</small></p>	<p>Half-hard (R250) and annealed (R220) copper tube can be used to form bends. Hard drawn (R290) is not suitable for bending.</p> <p>Offsets</p> <p>When bending single or double offsets you can use a 600mm folding rule to determine a suitable angle for the bends. Figure 3 shows how to stagger the ends of the rule to obtain the desired angle.</p> <ol style="list-style-type: none"> Subtract the offset size required from 600mm. Close the rule to this length. Bend to the angle formed, using the rule as a guide. <p>In our example the offset required is 75mm and $600 - 75 = 525$mm.</p> <p>Establishing the bending mark for the second bend of a double offset:</p> <ol style="list-style-type: none"> Align the first bend parallel to a 'straight edge' with the inside edge of the tube the required distance from the straight edge. Ensure that the position of the bending mark is in line with the straight edge. Reposition the tube in the bender so that the bending mark forms a tangent to the former. Pull the second bend parallel to the first, see Figure 4. <p>For more information see the Installation Tip <i>Bending Copper Tubes – By Machine</i> by Brian Curry of Leam Plumbing Ltd on the UK Copper Board website.</p> <p>UK Copper Board www.ukcopperboard.co.uk <small>Supporting the National Copper Development Association</small></p>
<p>New copper plumbing wallchart</p>	

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