PROTEC COPPER TUBE EN 1057

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INTRODUCTION

PROTEC is a brand name for Wednesbury Polyethylene coated copper tube. The copper tube coated with Polyethylene is to British Standard EN 1057.
This Standard specifies the requirements for copper tubes in straight lengths to half hard, hard temper or coils in the annealed condition.
The tube is manufactured from phosphorus deoxidised (non arsenical) copper alloy CW024A and the plastic to BS 3412. Tube complying to these tables is suitable for hot and cold water services, gas services, sanitation and central heating. These plastic coated tubes will withstand temperatures up to 95°C (203°F) with occasional peaks up to 110°C (230°F). The plastic is tightly extruded on to the copper tube in a seamless and continuous run, it is durable and more effective than some other methods of protection against environments which may be aggressive to the copper tube.

The plastic coatings are applied in various colours to identify its use in service. Blue and green for water, yellow ochre for gas and white for central heating.

APPROVAL

Wednesbury tube EN1057 conforms to the requirements of the British Standards Institution and has earned the right to use the Kitemark as evidence of compliance of these tubes to the British Standard BS EN 1057 and have Registered Firm status to BS EN ISO 9001 : 2008 : FM 00452.

MARKING

Tube from 15mm to 108mm inclusive is marked 'Wednesbury STREAMLINE GB (Kitemark) EN 1057' at intervals of 1000mm. The copper tube is permanently die marked every 600mm in a similar manner together with the date of manufacture, to the relevant Label.

SPECIAL FINISHES	15	22	28	35	42	54	67	76	108	
Protec Green	•	•	•	•	•	•				
Protec Yellow	•	•	•							
Protec White	•	•	•	•	•	•	•	•	•	

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JOINTING

These tubes are suitable for connecting by means of capillary or compression fitting to BS EN 1254, silver brazing, bronze or autogenous welding. When jointing, cut the plastic and fold back (see photograph), make joint and return the plastic to its original position, cover split plastic and joint with an impervious plastic tape to give continuous protection.

BENDING

With the exception of hard temper, Protec tube can be bent with ease on bending machines or with internal springs. These machines must be specific for bending plastic coated copper tube which have special size formers to account for the increased diameter. Manufacturers of bending machines such as Hilmor, Tubela, Consort etc, are able to supply hand or free standing machines of this type. Bending by spring is normally limited to a maximum size of 22mm diameter. Internal springs are available for tube up to this size but tight radii bends are not advised.

Dimensions

Size of tube mm	Nominal Diameter Plastic mm	Nominal Thickness Plastic mm
15	17.00	1.00
22	24.00	1.00
28	30.00	1.00
35	38.00	1.50
42	45.00	1.50
54	57.00	1.50
67	71.00	2.00
76	80.00	2.00
108	112.00	2.00

Fold back to reveal copper.

Be sure not to aim the blowtorch directly at the plastic

When the joint is complete and cool, fold back the plastic coat and wrap the joint to give continuity of protection.

Wednesbury®

Oxford Street, Bilston, West Midlands WV14 7DS England - Telephone +44 1902 499700 - Telefax +44 1902 405838

E-mail sales@muellereurope.com

www.wednesburytube.com

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