

Hot water copper pipe must be fabricated by an approved manufacturer with an ISO certification and shall have a minimum of 10 years experience in their manufacturing field.

Carrier pipe used shall be of the following standard:-

- (a) Pipe size up to 28mm OD shall be Half Hard Copper Tube to BS EN 1057 Class X (Previously BS 2871 Part 1 Table X).
- (b) Pipe size from 35mm OD to 159mm OD shall be Hard drawn Copper Tube to BS EN 1057 Class X (Previously BS 2871 Part 1 Table X).

The insulation must be machine injected polyurethane foam with a minimum density of 50kg/m³ and an environmental friendly gas shall be used as blowing agent. Below are the properties for the polyurethane foam:-

- (a) Thermal Conductivity, K-value : **0.017Kcal/m.h °C**
- (b) Density : **50kg/m³**
- (c) Blowing agent used : **R141b gas (cfc free)**

The minimum insulation thickness shall be as follows:-

- (a) Up to 67mm OD pipe : **25mm**
- (b) 76mm OD to 108mm OD pipe : **30mm**
- (c) 159mm OD pipe : **45mm**

The jacket shall be galvanised steel spiral external lockseamed with a minimum thickness of 0.5mm thick.

Brand offered shall be "Ricwil".

Samples must be submitted for approval and manufacturer's certificate must be submitted 1 week after delivery of each batch of pipes.