



15mm Pipe OD Phenolic Block - 15mm Insulation Thickness (15mm Copper)

Phenolic Pipe Insulation Blocks - Our Phenolic blocks are load bearing phenolic insulation blocks to provide a thermal insulation barrier between the pipe and the pipe clamp. They are made using a high density phenolic foam covered with an foil outer covering. They will provide a wide temperature resistance range (generally - 120 degrees to + 180 degrees) therefore offering energy efficiency savings for both heated and chilled pipe work systems. They are designed to have low flame spread and emissions. Our phenolic blocks are available in a wide variety of size variations to suit pipes in mild steel, stainless copper or plastic pipes.

When should I use a phenolic block? - Phenolic blocks should be used whenever pipes are being insulated and a thermal barrier is required between the pipe and the pipe clamp. They enable the required thickness of insulation to be maintained even around the pipe clips. They are used in a variety of commercial, industrial, retail and residential applications.

What pipe clamps should I use with Phenolic blocks? - Phenolic blocks are always used in conjunction with a pipe clamp or sometimes a split band clip. These clamp around the outside of the phenolic block encasing the pipe and then usually suspended using threaded rod attached to the threaded boss of the pipe clamp. You should generally use an unlined steel pipe clamp with phenolic blocks. To work out the size of the pipe clamp you need you need to add the phenolic insulation thickness onto the OD of the pipe which gives you the overall OD size clamp you need. Please remember to add the insulation thickness twice for both sides - its easy to just add it once and end up with the wrong size clamps! Sometimes - especially on larger sizes - you may wish to allow an small extra mm or so to compensate for any variations in the dimensions of the blocks. If you use the exact measurements and its on the upper extremes of the clip capacity they can be difficult to get the clamps on.

So for example you have a 22mm OD pipe with 20mm thickness insulation it would be;-

22mm Pipe OD+20mm Insulation+20mm insulation = 62mm total OD. Therefore you need a pipe clamp which will work with a 62mm OD capacity.

What size phenolic blocks should I use? - The inside size of the phenolic block should suit the outside diameter of the pipe you are installing. For example if you are using a 15mm OD Copper pipe you need a phenolic block which is 15mm inside diameter - ID.

What thickness phenolic blocks should I use? - The thickness - outer insulation thickness - of a phenolic block varies from 15mm upwards in 5mm or 10mm increments to generally up to 40mm thickness. The thickness you need depends on various factors including the environment it is being used in, the pipe contents and the temperature of the contents. On most projects a specification will have been provided by the mechanical consultants and this should be adhered to. Often the insulation thickness required will increase as the pipe sizes increase.

For example in the following is one specification that is sometimes used but as previously mentioned this varies depending on your application so you are advised use your mechanical engineers specification at all times. This information is intended as a general guide only.

Example:

15 to 28mm OD Pipe - 15mm Phenolic Block Insulation thickness

35 to 54mm OD Pipe - 20mm Phenolic Block Insulation thickness

67 to 108mm OD Pipe - 25mm Phenolic Block Insulation thickness