

PHENOLIC FOAMS FOR HEATING AND VENTILATION APPLICATIONS

General Description

Closed cell phenolic foam is particularly suited for use as an insulation material for heating and ventilation (H & V) pipework and ducting inside buildings.

Closed cell foam is manufactured in two forms: discontinuous block and continuous laminate. Discontinuous block foam is manufactured by dispensing a phenolic resin, catalyst and blowing agent mix into a mould. Block sizes are typically 2.5m x 1m x 1 to 1.5m high. Following a period of cure, the blocks are cut into pipe sections, lags, slabs, etc. An appropriate facing can then be applied in a secondary process.

Continuous lamination involves the production of laminate by spraying the liquid foam mixture onto a moving facing. A top facing is introduced and the laminate cures as it passes through a conveyor press and heated ovens. It is then cut into the required panel size.

Pipe support blocks are manufactured from high density structural phenolic foam. Pipe support blocks and duct support blocks can be used wherever pipe/ductwork needs mechanical support and are compatible with the system of clips and hangers used in heating and ventilation industries.

Advantages

- Space saving: a closed cell phenolic foam offers the most thermally efficient insulation material available and therefore allows achievement of required insulation efficiency with the thinnest possible amount of material. This can be critically important for H & V applications where space in pipe runs, rises, ceiling voids, etc. is always at a premium.
- Class O fire rating in accordance with the Building Regulations 1992 Edition, Approved Document B, Appendix A12 (B).
- Factory applied Class O rated aluminium foil facings are available
- Exceptionally low smoke emission - less than 5% when tested in accordance with BS 5111 : Part 1.
- Non fibrous: this is particularly relevant for use in hospitals, food preparation areas and breweries.
- Manufactured under ISO 9002 Quality Management System.

Availability

Block Foam

Blocks

Slabs (Length 2440mm,1220mm,1000mm. Width 1200mm,1000mm,600mm,500mm).

Cut pipe sections, bends, radius to bevelled lags (to fit all standard steel pipes up to 610mm OD) and light gauge copper pipes up to 158mm OD in wall thickness up to 50mm.

Pipe sections and slabs are available either plain or with a Class O aluminium foil facing.

Laminates

THICKNESS: 20mm, 25mm, 30mm, 35mm, 40mm, 50mm

WIDTH: 600mm, 1200mm

LENGTH: 450mm, 500mm, 1000mm, 1200mm, 2440mm (other lengths are available on request)

Also available slotted (flat wrap) for use on high radius curved surfaces.