



Vardhamaan Insulation Limited

Manufacturer of Polyurethane Foam / Polyisocyanurate Foam Preformed Pipe Sections, Slabs, Pipe Support Round Type / Saddle Type, Coving Strip & Customized Articles.

An ISO 9001-2015 Certified Company

www.vardhmaninsulation.com

Preformed Pipe Sections

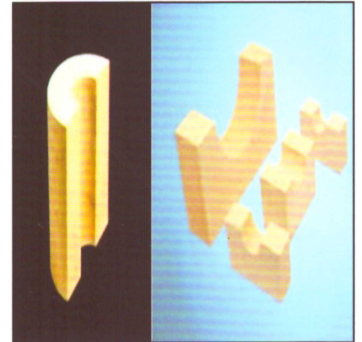
Polyurethane Foam (PUF) / Polyisocyanurate Foam (PIR) pipe sections are made in required density for pipe size ranging from 15NB to 500NB.

Polyurethane Foam (PUF) / Polyisocyanurate Foam (PIR) Aluminum foil laminated pipe sections eliminate the need for the installation of separate vapor barrier.



Pipe Support (Round type/Saddle type)

Polyurethane Foam pipe supports are made in 100kg/m³ density to 300kg/m³ density for the pipe size from 15NB to 500NB, substitute for conventional wooden supports available in various range of densities to suit the load requirements. These supports precisely match the pipe OD and the insulation thickness resulting in neat finish. Pipe supports of any size and shape can be made available to suit any requirement.



Coving Strip (Patti)

Hardened Polyurethane Coving is used in cold rooms to prevent temperature loss from corners. Such coving strip is easy to install, tougher than polystyrene, Cheaper in comparison with epoxy, light in weight as compared to plaster coving, can be painted as required and acts as insulating material as it is a cold insulation material.



Characteristics of Polyurethane Foam/ Polyisocyanurate Foam

Material has a closed cell structure	Does not permit water penetration. No wet rot. No dry rot.
Excellent 'K' value	Provides vastly superior insulation as compared to timber and other materials. No condensation at support point. So no drips, puddles OR energy wasted.
Wide density range possible	Higher densities enable higher loads without increase in surface area. No sawing and Shaping at site.
Pre-engineered at our factory	The support precisely matches pipe's OD. Installation time dramatically reduced.
Close dimensional tolerance	Pipe Support thickness precisely matches insulation thickness, resulting in neat finish at support location.

Supplied in assembled condition, complete with all metal attachment	Improved speed of installation. Joint-free in the load bearing area, even for larger diameters of pipe.
Special sizes, shapes and finishes	On request Non-standard sizes and shapes can be manufactured to suit specification. Supports can be supplied with factory applied coat of fire-resistive mastic, which also serves as a vapour barrier, on the exposed surface.
Service temperature range PUF Grade PIR Grade	-180 to+110°C -200 to+140°C
Fire resistance	Self-extinguishing

Advantages of Polyurethane Foam over Traditional Insulation materials

- **High Mechanical Strength**

1. Light in weight yet rigid & sturdy, structurally strong & dimensionally stable.
2. High compressive and flexural strength.

- **Economical**

1. Lowest 'K' value among insulating material.
2. High moisture resistance.
3. Permanent and long-lasting insulating.
4. Saving of electricity.

- **Easy To Apply**

1. Easy to handle and quick to install. It can be easily cut by saw or sharp knife.
2. Excellent adhesive properties are laminated to most rigid or flexible materials.
3. Does not soak, swell or buckle in moisture.

- **Longer Life**

1. High ageing resistance and does not attracts rodents and other pests.
2. Odourless and does not absorb odour. Unaffected by sea-water as does not harbor fungi, mildew or spores.

Typical Properties of Rigid Polyurethane Foam & PIR as per IS 12436-1988

Property	Unit	Result
Dimensional Stability at 100+/-2 °C	%	+/-2
Water vapor transmission (Max), PUF / PIR grade	Ng/pasm	5-5 / 8-5
Closed cell content	%	>85
Compressive strength at 10% deformation (Min)	kN/M2	115/205
Thermal conductivity at 50°C (Max)	W/m/m2 °C	0-03
Horizontal Burning (Max)		
PUF	mm	125
PIR grade	mm	25

Our Product Range

Product Code	Description	Size & features
VILPUF Pipe Section	Pipe sizes	1/2 " to 20"
	Pipe Section Length	0.5 Mtr / 1mtr / 2 Mtr
	Thickness	25 mm to 100 mm
	Standard Density (Other densities available on request)	36+/-2 Kg/M3
	Facing	Craft paper, Bituminous craft paper, aluminized foil (Other finishes also available on request)
VILPUF Slab	Size	1 Mtr * 0.5 Mtr
	Standard Thickness (other thickness available on request)	25 mm to 100 mm
VILPUF Support	Saddle / Round type	15NB to 500NB
	Standard size (other sizes available on request)	50mm/ 100mm
VILPUF Coving	Length	1 Mtr/ 2 Mtr
	Width	4"
	Standard Density	150+/-5 kg/M3
VILPIR Pipe Section	Pipe sizes	1/2 " to 20"
	Pipe Section Length	0.5 Mtr / 1mtr / 2 Mtr
	Thickness	25 mm to 100 mm
	Standard Density (Other densities available on request)	50+/-2 Kg/M3
	Facing	Craft paper, Bituminous craft paper, aluminized foil (Other finishes also available on request)
VILPIR Slab	Size	1 Mtr * 0.5 Mtr
	Standard Thickness (other thickness available on request)	25 mm to 100 mm



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