

Where Insulation Meets Aesthetics

INPANEL[®]
POLYISOCYANURATE BOARDS

DESIGN COMFORT INSULATION



PIR THE WONDER PRODUCT

- It is used in the construction of HVAC ducting system, under-deck insulation, wall insulation, roof insulation, cold storages and false ceiling.
- It is environment friendly (CFC, HCFC Free, Zero ODP, Low GWP), closed cell rigid foam insulation core, 'sandwiched' between flexible facings like - FSK, Aluminium Foil or Kraft Paper. It has cellular structure consisting of more than 90% closed cells.

FACINGS

- Rigid Pir foam thermal insulation boards are laminated / faced with flexible FSK, Aluminium Foil or Kraft Paper.

STANDARD DIMENSIONS

Thickness (mm)	Width (mm)	Length (mm)
15 to 75	1200	1200 to 4000

TECHNICAL DATA

Chemical Composition	Rigid pir foam (Polymer) based on special grade Methylene Di-Phenyl Di-Isocyanate (MDI) & Polyol chemical systems.
Fire Properties	Fire propagation: Class 0, according to BS 476 part 6 & part 7 Surface spread of flame: Class 1, according to BS 476 part 7 Smoke development index: Class A, according to ASTM E-84
Temperature Range	-40°C to 150°C
Overall Foam Density	45 (±10%) Kg/m ³
Initial Thermal Conductivity	0.023 W/m.K (at 10 deg. Mean Temp.) (Max)
Compressive Strength	115 KN/m ² (Min)
Water Absorption (By Volume)	0.5% (Max)
Water Vapour Transmission (Permeability)	8.5 ng/Pasm (Max)
Closed Cell Content	90% (Min)
Horizontal Burning	25 mm (Max)
Dimensional Stability	2% (at 100°C) (Max)

REMARKS: MATERIAL FOUND SATISFACTORY AS PER IS: 12436, PIR-1.

ENVIRONMENTAL AND BIOLOGICAL COMPLIANCE

Environmental & Green Building Compliance	CFC & HCFC free, Zero ODP, Low GWP, Asbestos & Odour Free, corrosion and chemical resistant
Biological Compliance	Fungal & bacterial resistant, Anti Rodent

THERMAL RESISTANCE (R-VALUE)

Thickness (mm)	R-Value (m ² .K/W)	R-Value (hr*ft ² *°F/Btu)
15	0.65	3.70
20	0.86	4.93
25	1.08	6.17
30	1.3	7.40
35	1.52	8.64
40	1.73	9.87
45	1.95	11.10
50	2.17	12.34
75	3.26	18.50

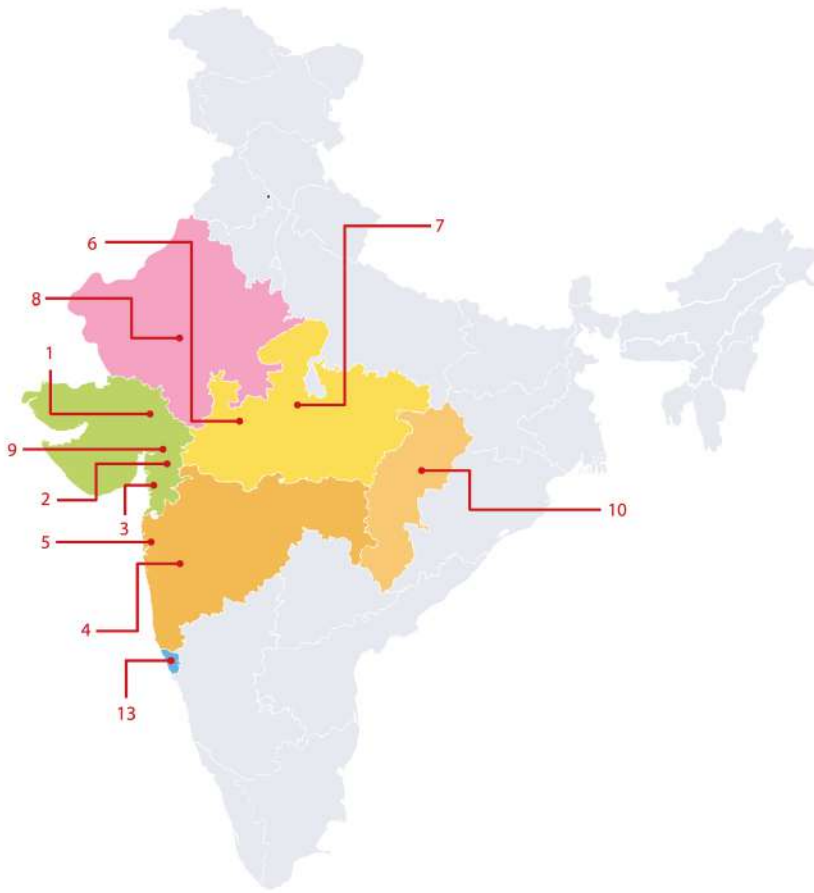
APPLICATIONS

- Under Deck Insulation
- HVAC Ducting System
- False Ceiling
- Residential
- Commercial
- Hospital
- Hotels
- Cold Storage
- Clean Rooms
- Industries
- Food Processing
- Shopping Malls
- Auditorium
- Theatres



FEATURES

- Green Building Requirements Compliant
- Fire Resistance – Class '0'
- Lower Smoke Index
- CFC And HCFC Free
- Lower U-Value
- Higher R-Value
- Lower K-Value
- Zero ODP
- Low GWP
- Cleanable & Hygienic
- Low Water Vapour Transmission
- Anti Rodent
- No Fungus Growth
- Uniform Density
- Closed Cell Structure
- Excellent Thermal And Dimensional Stability
- No Corrosion
- Light Weight
- Space Saving
- Low Handling Cost
- Low Structural Support Requirement
- Fine Aesthetic
- High Compressive Strength
- Low Installation Time Required
- Lower Thermal Conductivity Of PIR Insulation
- High Energy Cost Savings



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