

Fosroc Nitof foam TIB

Extruded Polystyrene Thermal Insulation Boards.

Uses

Fosroc Nitof foam TIB provides high quality and effective insulation for roof & energy conservation in a wide range of industrial, commercial buildings, private dwellings

Advantages

- High resistance to heat flow, i.e. low thermal conductivity.
- High insulation value.
- Resistance to water vapour diffusion and water absorption.
- Long term durability.
- Uniform density distribution.
- Does not contain CFC/HCFC.
- High compressive strength compared to other insulation material.
- Light weight and easy to handle.
- Resistance to bacteria and microorganism growth.
- Non-toxic.
- Odourless and Non-irritant to skin

Standards compliance

- ASTM C 578 Type VI standard requirements for boards with thickness of 30 mm and above
- ASTM C 578 Type IV standard requirements for boards with thickness of 30 mm and below

Description

Fosroc Nitof foam TIB is Extruded Polystyrene (XPS) rigid thermal Insulation foam board having closed cell structure and is produced in a fully automated continuous extrusion process in accordance with international specifications and standards. Its unique properties of high compressive strength, higher R value and low water absorption makes it an ideal insulating material for roof. Contact Fosroc local office for U value calculations of the system built-up.

Fosroc Nitof foam TIB should be covered with a waterproofing membranes such as Fosroc Proofex ORG/OFB/ORF.

Properties

Heat Flow: Provides an excellent resistance to heat flow. There is no change in the K value (Thermal conductivity) of the material after prolonged usage and hence the heat flow into/out of the system remains intact.

Water Vapour: Closed cell structure, provides exceptional resistance to water permeability and will absorb less than 1 % water by volume.

Density: Has a uniformly high density and compressive strength, making it an ideal solution for over deck insulation of roof.

Fire: Tested as per DIN 4102 part 1 of Class B2.

Dimensional Stability: The regularity and homogeneity of cellular composition ensures good dimensional stability.

Application instructions

Substrate condition

The substrate must be dry, free of dust, grease, oil and contaminants. A dry substrate is necessary because the foam system can react with substrate moisture, which can result in insufficient adhesion, open cellular foam system, low cross-link density and integrity of the foam.

Application

Suitable polyethylene sheet to be installed on the RCC/Metal deck. Nitof foam TIB boards shall be installed loose laid with staggered joints. Boards to be covered with TPO membranes like Proofex ORG/OFB/ORF mechanically anchored to the substrate with suitable HD fasteners- Contact Fosroc local offices for details

Limitations

Do not proceed with application if substrate is below 15°C or is wet, if the surface temperature is <3°C above the dew point or if precipitation is imminent. Contact Fosroc office for advice

It should be noted that Fosroc Nitof foam TIB will turn yellow if exposed to UV/sunlight. This will not cause any negative effect on the physical properties of the product.

Fosroc Nitof foam TIB should be covered with a waterproofing membrane such as Fosroc Proofex ORG/OFB/ORF.

Pack Quantity

Available in thickness varying from 20mm/25mm/30mm/40mm & above.

Dimension of the board: 600mm x 1250mm.

Health and safety

Refer to appropriate Product Safety Data Sheet.

Storage

Fosroc Nitof foam TIB has a shelf life of 12 months if kept in a dry, air conditioned store between +5°C and +30°C in the original unopened containers.

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Properties

Test Parameter	Unit	Test method	Specifications			
			20mm	25mm	30mm	40mm above
Board thickness	mm					
Compressive Strength@10% Deflection, min	kPa (psi)	ASTM C1621	180 (26)	240 (35)	290 (42)	350 (51)
Equivalent Thermal Conductivity, maximum	W/m.K	ASTM C518	0.0289	0.0289	0.0289	0.0289
Flexural Strength min.	kPa	ASTM C203	345	345	414	414
Water Vapour permeance of 25.4mm thickness, maximum	ng/Pa.s.m ²	ASTM E96	63	63	63	63
Water Absorption by total immersion, maximum	% v/v	ASTM C272	0.3	0.3	0.3	0.3
Dimensional Stability (change in dimensions), maximum	%	ASTM D2126	2	2	2	2
Oxygen index minimum	% v/v	ASTM D2863	24	24	24	24
Density, minimum	kg/m ³	ASTM D1622	34	34	34	34
Flammability	Class	DIN 4102 Part 1	B2	B2	B2	B2
Surface Burning Characteristics	Class	ASTM E 84	A	A	A	A



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Important note :

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