عالم مواد البناء
WORLD BUILDING MATERIALS
حلول البناء والعزل

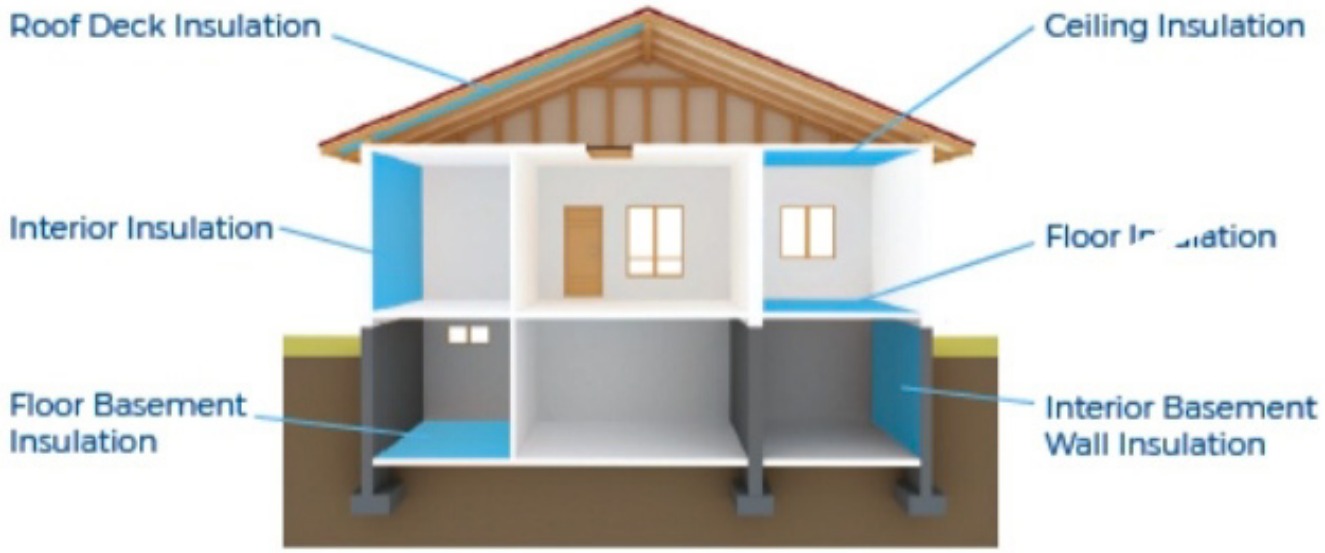
WBM FOAM
دابليو بي ام فوم

High Density Extruded Polystyrene Insulation Board

WBM-F Extruded Polystyrene Board ,resilient and robust construction material boasting high Compressive strength ,excellent resistance to water absorption and superior thermal insulation value The ideal product for use across a range of construction and building applications –both residential and Commercial .

It has a 100% closed cell structure are manufactured in accordance

With international standards specifications. WBM-F is the number one choice for home buiders Specifiers , architect and engineers .



WBM-FOMA Usage

-Underfloor Heating and Cooling systems

-Perimeter insulation

-Floors insulation

-Inverted Roofs insulation

-Wall insulation

-Interior and exterior wall insulation

-Industrial – residential –commercial Floor insulation

-Agricultural farms ,fish farms,wineries etc

- Sandwich Panels insulation

- Insulation under roads/ railways/airport runways and suspended concrete slabs

- Cold storage floor and wall insulation

- Refrigerated trucks for roads and rails

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Features and Benefits of WBM-FOAM Extruded Polystyrene insulation boards:

- Lightweight and easy to handle
- Enhances thermal efficiency, reducing energy cost
- Closed-cell extruded polystyrene foam
- Low moisture absorption
- High thermal resistance
- High compressive strength
- Durable and sturdy for long lasting applications
- High compressive strength
- Long term retained R-values
- Lebanese made and manufactured
- Environmentally friendly
- Saves Energy and Money
- Meets requirements of International standards (ASTM C 578 & DIN 4102)

Acid inorganic (week or strong)	**Excellent**
Acid organic strong	**Good**
Bases	**Excellent**
Alcohols , including isopropyl alcohol	**Excellent**
Methyl ethyl ketone	**Not recommended**
Ploy glycols , including propylene glycol	**Excellent**
Hydrocarbons	**Not recommended**
Salts	**Excellent**
Insecticides	**Not recommended**
Mineral oil USP	**Excellent**
Turpentine	**Not recommended**
Kerosene	**Poor**
Gasoline	**Not recommended**
Fruit juices	**Good**

WBM-FOAM

property	standard	units	value
Density	**ASTM D 1622**	**Kg/m³**	**32.79**
thermal conductivity laboratory value at 70 C (158 F)	DIN 52612 DIN 52616	W/m.k BTU in/h.ft².F	0.03056 0.212
compressiv strength perpendicular to board surface	ASTM D 2842-10	kpa ≥104	2com61
compressiv strength @10% deformation	ASTM D1621-25	Psi	46.5
water absorption Method b	ASTM C272-01	%by VOI ≥0.3	0.07
Initial Thermal Resistance Thickness(29.66mm) Thickness(25.4mm)	ASTM C518-10 ASTM C578-16	k.m2/w	0.97 0.83
Thermal Resistance (90d @60 C condition)	ASTM C518-10 ASTM C578-16	k.m2/w ≥0.81	0.97 0.83
water vapour permeance	ASTM E96-10	Ng/pa.s.m2 86≥	44.8
Dimensional Stability 70 C,97%RH,7days Length Width Thickness Volume	ASTM C303-07	% change 2.0≥ 2.0≥ 2.0≥ -	 0.14 0.28 0.32 0.10
Dimensional Stability -40 C,Ambient HR,7days Length Width Thickness volume	ASTM C303-07	% change 2.0≥ 2.0≥ 2.0≥ -	 0.09 0.04 0.23 0.40
Flexural Stregth Maximum flexural stress(MD/XD)	ASTM D2126-01	≥276	1004/496
Limiting Oxygen Index For sustained candle -like burning	ASTM D2863-06a	% ≥24	24.4
property	**standard**	**units**	**Average value**
Fire Classification	DIN 4102	Building Material Class	B2
Length	1025mm 2500mm	Width	600mm
Edge Profile	Straight edge (SE) Shiplap edge (SL)	surface Pattern	plain Glossy(P) Embossed(E) Grooved(G)

Nb:Fire Classification B1 Abailable on Request