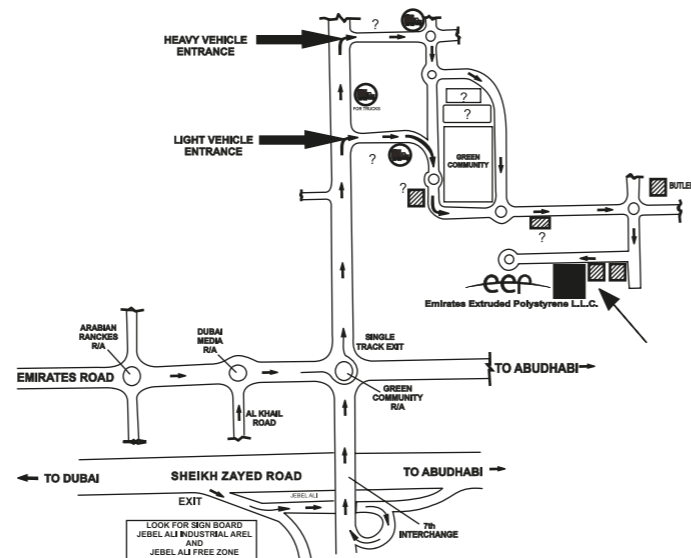


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الإمارات اكستروديد بوليستيرين ذ.م.م.
EMIRATES EXTRUDED POLYSTYRENE L.L.C.
E-FOAM INSULATION SYSTEM

SAVE ENERGY FOR FUTURE GENERATION
E-Foam INSULATION SYSTEM
The quality that you can trust



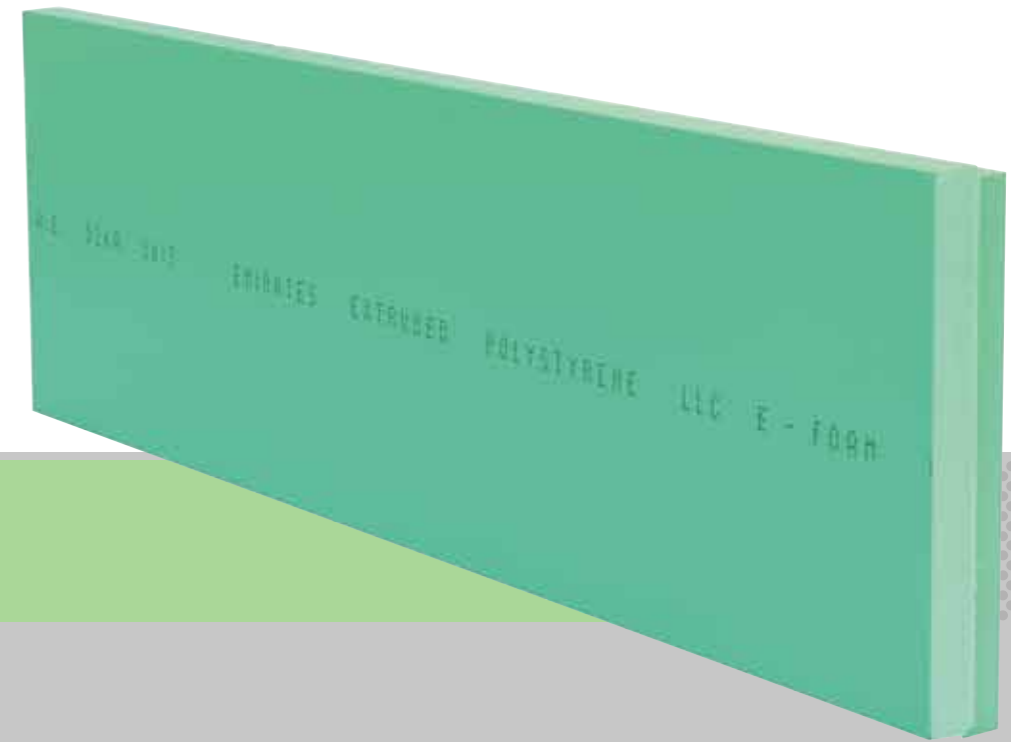
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EMIRATES EXTRUDED POLYSTYRENE L.L.C.

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EMIRATES EXTRUDED POLYSTYRENE L.L.C.
E-FOAM INSULATION SYSTEM



E-FOAM COMPLETE THERMAL
INSULATION SYSTEMS
FOR BUILDINGS
Registered trade mark

Emirates Extruded Polystyrene Insulation (E-Foam INSULATION)
The Energy Saving System For Hot and Cold Seasons

إحدى شركات

DUBAI INVESTMENTS INDUSTRIES
دبي للاستثمار والصناعة
مملوكة بالكامل من دبي للاستثمار
Wholly Owned by DUBAI INVESTMENTS

About us

Emirates Extruded Polystyrene LLC is a joint venture company of Dubai Investments Industries and Farha Group of Cloisall. The EEP plant located in Dubai Investment Park is The latest plant in the Middle East. Specialized in manufacturing of extruded polystyrene boards under the brand name E-Foam INSULATION. Some of our brands are E-Foam Roof Fix, E-Foam Floor Fix and E-Foam Wall Fix, These products ply a major role in the field of energy conservation programs well as satisfying the need to contribute to the achievements of selfsufficiency of energy in the United Arab Emirates as well as other Gulf Countries in the field of construction material sector.

This brochure provides the technical information about E-Foam insulation system like E-Foam Roofs Fix, E-Foam Floor Fix and E-Foam Wall Fix and their applications with particular emphasis on climatic conditions of the Middle East in general and GCC in Particular.



E-FOAM

Insulation System

Need for thermal insulation

Continuously increasing energy cost and accessibility problems emphasize the need for immediate energy conservation even in the oil rich countries. An efficient way of saving energy is to improve the thermal insulation of buildings to protect the heat transfer. This is particularly important in hot climates where the power demand to cool the homes, offices and shopping complexes is very high. In addition to the need for energy saving, high insulation standards are justified by improved comfort levels and increased building life.

About the product description

Extruded Polystyrene foams is used in many parts of the world under widely differing climatic conditions. for example, extruded polystyrene has been successfully used in the Middle East at ambient temperatures of more than +40 degree centi grade. E-Foam insulation is manufactured by a continuous extrusion process which makes a characteristic closed grain structure giving the product its unique physical properties. Extruded polystyrene rigid foams has a high resistance to water absorption and mechanical properties. The manufacturing process combined with the intrinsic qualities of the static component thermo plastic material gives extruded polystyrene predictable long term performance and high insulating value.

Our standard brand E-Foam Insulation system carries the proper usage as E-Foams Roof fix roofs application E-Foam wall fix for wall application and E-Foam floor fix for floor application.

Product Range and Technical Data

Product	Description	Major Application	Board Dimensions
E-Foam Roof Fix	Extruded polystyrene rigid foam with skin. It is available with and without shi lap edge treatment. Other thicknesses available upon request	Thermal Insulation Board for roofs, Density of roof Fix is 32-35 Kg/m ³ For upside down roof below the gravel protecting/Roof concrete	Roof-fix with shi lap edges Thickness: 30,40,50,60,70,80, 100mm Width : 600mm(covering dimension) Length : 1250mm (covering dimension) Other Thicknesses will be available upon request
E-Foam Wall Fix	Extruded polystyrene rigid foam with skin. It is available with and without tongue and groove edge treatment	Thermal insulation board for : -Walls,Tile Backing -Core material for sandwich panels. -Low temperature space. -Density of Wall Fix is 30-32 Kg/m ³ use between internal standard wall/ external brick wall	Wall-fix with tongue and or butt edges Thickness:30,40,50,60,70,80, 100 mm Width : 600 mm Length : 2500mm/1250mm Other thicknesses will be available upon request
E-Foam Floor Fix	Extruded polystyrene rigid foam with skin with high density and high compressive strength. it is available with or without shi lap edge treatment.	Floors cold store Parking decks Density of Floor Fix is 40-45 Kg/m ³ Below The floor concrete slab/ damp proof membrane	Floor-fix Thickness: 30,40,50,60,70,80, 100 mm Width : 60 mm Length : 1250mm Width : shi lap edges

Properties of E-Foam Insulation System

Propert (Average)	Test Standard	Units	Type VI		Type VII		
Density	ASTM D-1622 DIN 53420	kg/m ³ lbs/ft ³	30-32 1.9-2.0	32-35 2.0-2.3	35-40 2.3-2.6	40-45 2.6-2.9	45-47 2.9-3.0
Thermal Conductivity max @ 35° C & 60 % of RH	ASTM C 158 DIN 2612/52616	W/m.K Btu.in/ft ² .hr.°F	0.0303 0.2101	0.0303 0.2101	0.0303 0.2101	0.0303 0.2101	0.0303 0.2101
Thermal Resistance of 25.4 mm Thickness @ mean temp of 24±1 °C min	ASTM C 158 DIN 2612/52616	(m ² .k)/W	0.88	0.88	0.88	0.88	0.88
Compressive Strength @ Yield or 10% Deformation, min kPa	ASTM D 1621 DIN 53421	kPa psi	276 40	300 44	414 60	414 60	414 60
Flexural Strength min kPa	ASTM C 203	psi	414	414	517	517	517
Water Vapour Permeance of 25.4 mm Thick max	ASTM E 96	perm/in	1.1	1.1	1.1	1.1	1.1
Water Absorption by total immersion, max	ASTM C 272 DIN 53428	% by Vol	0.3	0.3	0.3	0.3	0.3
Dimentional Stability change in dimention , max %	ASTM D 1622	%	2	2	2	2	2
Oxygen Index min volume %	ASTM C 2863	%	24	24	24	24	24
Capillarity	-----	-----	-----	-----	-----	-----	-----
Fire Classifications	DIN 4102	Building Material Class	B1	B1	B1	B1	B1

Difficult to Ignite