



ALAMDAR
VAPO THERM

ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



ALAMDAR
VAPO THERM

PRESENTATION ALAMDAR VAPO THERM CO. LTD.

COMPANY OVERVIEW

ALAMDAR-VAPOTHERM CO., LTD. is a Saudi Company. Specializing in the Production and Trading of Rigid Polyurethane / Polyisocyanurate Thermal Insulation Boards & Pipes since 1976. The modern production plant of 12392 m² is situated in the new industrial area on AL KHARJ ROAD – RIYADH. SAUDI ARABIA. The Production capacity of the two laminating machines exceeds 1,140,000 m² annually, based on one shift & 60,000 linear meter pipes. Production of the Polyurethane / Polyisocyanurate Rigid Thermal Insulation Boards is based on research of many years and on the practical know how with the application of millions square meters in the field of roof-and wall insulation.



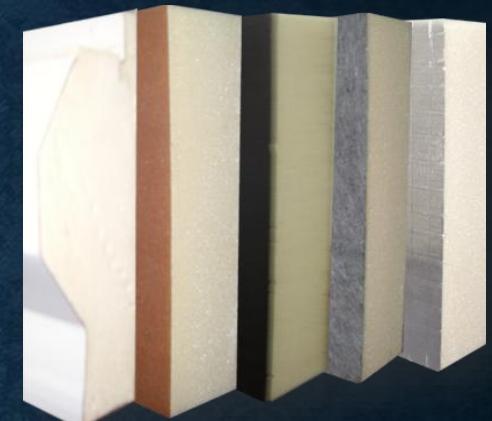
Products



POLYISOCYANURATE BOARDS



POLYURETHANE PIPES



POLYURETHANE BOARDS



FOAM FOR FLOWERS

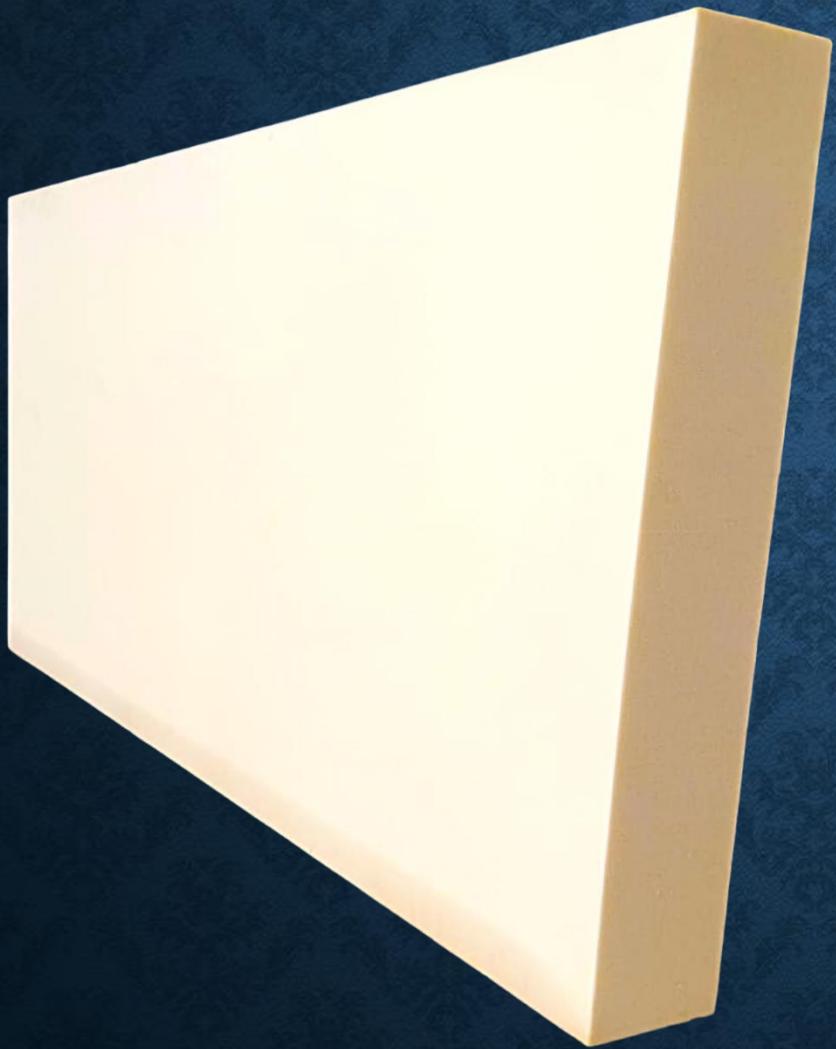


BLOCKS DIFFERENT SIZE



POLYISOCYANURATE PIPE

WITHOUT FACING PIR/PUR FOAM

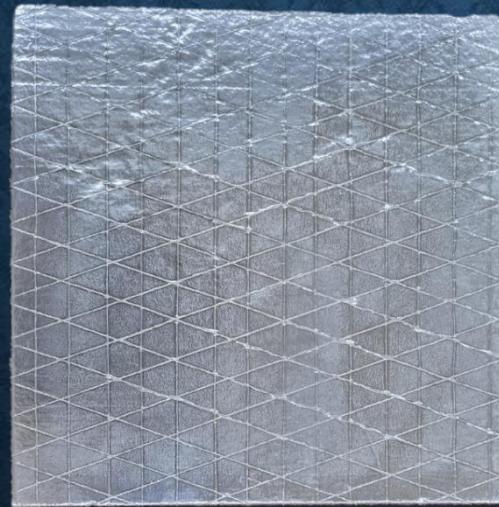
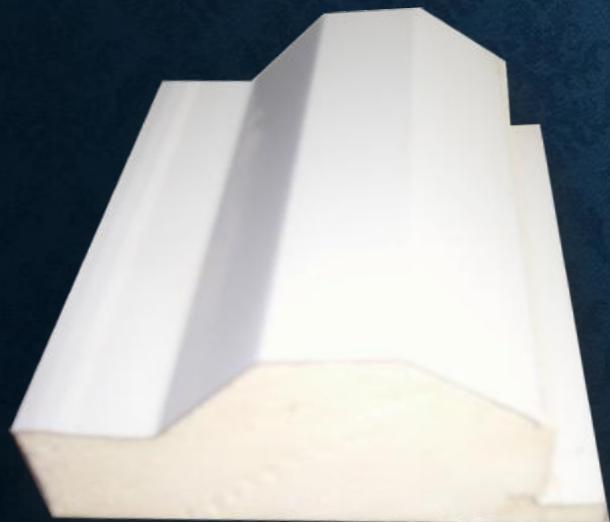


شركة علمدار فابو تيرم المحدودة

متخصصون في إنتاج العوازل الحرارية بجميع أنواعها



RIGID POLYURETHANE AND POLYISOCYANURATE THERMAL INSULATION BOARDS



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

ALAMDAR POLYURETHANE (PUR) BOARDS FOR WALL, ROOF & FLOOR

Alamdar Vapotherm Co. started production of Rigid **Polyurethane** Thermal Insulation Panel Boards in 1976 at its factory oriented in Riyadh, with annual capacity of 1,400,000 square meters of panel boards for one shift.

Polyurethane having the lowest Thermal Conductivity of all the known building Thermal Insulation Materials, is the most cost effective in climatic conditions of Saudi Arabia.

Alamdar Vapotherm Panel Boards are available with different facings: like

a) Polyethylene coated Glass Fiber tissue.	d) Asphalt Felt.
b) Kraft Paper - Plain or Polyethylene coated.	e) Reinforce Aluminum Foil with kraft paper.
c) Bituminous Paper.	f) Without Facing.

The Panel Boards are manufactured in any densities in the range of 32 kg. / M³, of which the following three are the most common:

- a) 32 - 35 kg / M³ density usually for Wall insulation.
- b) 35 - 40 kg / M³ density usually for Roof insulation.
- c) 50 - 60 kg / M³ density usually for Floor insulation.

The wide array of choices in facings and densities, make **Alamdar Vapotherm Polyurethane** Panel Boards, the most versatile in application in various situations prompted by design considerations - such as - both Conventional and Inverted Roofing Systems, External and Internal Wall Insulation, etc.

The Panel Boards are supplied in thicknesses ranging from 20 mm to 120 mm, width being 610 mm and in lengths from 900 mm to 4000 mm. (Tolerances ± 3 mm)

For the installing contractor Alamdar Vapotherm also supplies Can't Strips for use at the joining of horizontal roof with vertical parapets or upstands to provide slope for the waterproofing membrane.

FIXING:

- (i) Hot Bitumen
- (ii) Mechanical : By Self Trapping Screw.

TEST SATISFY:

Comply ASTM C- 1289 & ASTM C 591

HH - I - 530 A

HH - I - 1972

DIN, BS, SASO

This Data may be changed improved or modified by ALAMDAR VAPOTHERM, in accordance with the Client's requirements, availability of raw material, without advance notice.

ALAMDAR POLYICOYANURATE (PIR) BOARDS FOR ROOF AND WALL

Alamdar Vapotherm Co. started production of Rigid **Polyisocyanurate** Thermal Insulation Panel Boards in 1976 at its factory oriented in Riyadh, with annual capacity of 1,400,000 M³ of panel boards for one shift.

Polyisocyanurate having the lowest Thermal Conductivity of all the known building Thermal Insulation Materials, is the most cost effective in climatic conditions of Saudi Arabia.

Alamdar Vapotherm Panel Boards are available with different facings: like

1. Polyethylene coated Glass Fiber tissue.	2. Asphalt Felt.
3. Kraft Paper - Plain or Polyethylene coated.	4. Reinforce Aluminum Foil with kraft paper.
5. Without Facing	

The Panel Boards are manufactured in any densities in the range of 32 KG / M³, of which the following three are the most common:

- a) 32 - 35 kg / M³ density usually for Wall, Roof insulation.
- c) 45 - 50 kg / M³ density usually for Floor insulation.
- d) 55 - 60 kg / M³ density usually for Pipe Stand without facing.

The wide array of choices in facings and densities, make **Alamdar Vapotherm Polyisocyanurate** Panel Boards, the most versatile in application in various situations prompted by design considerations - such as - both Conventional and Inverted Roofing Systems, External and Internal Wall Insulation, etc.

The Panel Boards are supplied in thicknesses ranging from 20 mm to 120 mm, width being 610 mm and in lengths from 900 mm to 4000 mm. (Tolerances ± 3 mm)

For the installing contractor Alamdar Vapotherm also supplies Cannot Strips for use at the joining of horizontal roof with vertical parapets or upstands to provide slope for the waterproofing membrane.

FIXING:	TEST SATISFY:
(i) Hot Bitumen (ii) Mechanical: By Self Trapping Screw.	Comply ASTM C- 1289 & ASTM C 591 HH - I - 530 A HH - I - 1972 DIN, BS, SASO

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TYPICAL PROPERTIES: COMPLY WITH ASTM C-1289 & ASTM C-591



**TYPICAL PROPERTIES: COMPLY WITH ASTM C-1289 & ASTM C-591
FOR ALL THECKNESSES AND TYPES OF FACING**

Dimensions	TEST METHOD	BOARDS FOR WALL, ROOF & FLOOR AND (BLOCK FOAM)		
THECKNESS	ASTM	20 MM ----- UP TO 120 MM		
Density	ASTM D-1622	32 - 35 Kg / M ³	45 - 50 Kg / M ³	50 - 60 Kg / M ³
Compressive Strength	ASTM D- 1621	1.8 – 2.1 Kg / M ² 180 – 210 KPA	2.98 – 3.10 Kg / CM ² 298 – 310 KPA	3.1 – 4.5 Kg / CM ² 310 – 450 KPA
Flexural Strength	ASTM C 203	275 -285 KPA	290 - 300 KPA	300 - 400 KPA
K – Value	ASTM C- 177 ASTM C- 518	0.022 W / M K° AT 24°C	0.022 W / M K° AT 24°C	0.025 W / M K° AT 24°C
Water Absorption	ASTM D -2842 ASTM C209	Max1.0 % by volume	Max1.0 % by volume	Max1.0 % by volume
Rate of Burning	ASTM E -84 ASTM D -1692	(Within Specified Limit)	(Within Specified Limit)	(Within Specified Limit)
Closed Cell Content	ASTM D 2856	95%	95%	95%
Dimensional Stability	ASTM D 2126	@ - 25C < 0.1% Volume change @ + 100 °C < 0.5% Volume change	@ - 25 °C < 0.1% Volume change @ + 100 °C < 0.5% Volume change	@ - 25 °C < 0.1% Volume change @ + 100 °C < 0.5% Volume change
Water Permeability	ASTM C- 355 ASTM E- 96	0.5 - 1.5 perm inch	0.5 - 1.5 perm inch	0.5 - 1.5 perm inch
Working Temperature		140°C for long period 220°C for short period	140°C for long period 220°C for short period	140°C for long period 220°C for short period
VOC				PASS
BIOLOGICAL CHEMICAL RESISTANCE	Unaffected by moulds Fungus and Vermin, it is resistance to most of Oils, Greases, Solvents, Dilute and Alkaline.			

H/O

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ARAMCO VENDOR CODE 10011977

FOR ALL THECKNESSES AND TYPES OF FACING

DIMENSIONS	TEST METHOD ASTM	BOARDS FOR WALL, ROOF & FLOOR AND (BLOCK FOAM)			
THECKNESS		20 MM - UP TO 120 MM			
Density	D-1622	32 - 35 Kg / M ³	45 - 50 Kg / M ³	55 - 60 Kg / M ³	
Compressive Strength	D- 1621	1.8 – 2.1 Kg / M ² 180 – 210 KPA			
Flexural Strength	C 203	275 -285 KPA	290 - 300 KPA	300 - 400 KPA	
K – Value	C- 177 / C- 518	0.022 – 0.024 W / M K° 0.022 W / M K° AT 24°C			
Water Absorption	D-2842 / C209	≤ 1.0% by volume	≤ 1.0% by volume	≤ 1.0% by volume	
Rate of Burning	E-84 D-1692 Din 4102	Within Specified Limit Self-Extinguishing	Within Specified Limit Self-Extinguishing	Within Specified Limit Self-Extinguishing	
Closed Cell Content	D 2856	≥ 95%	≥ 95%	≥ 95%	
Dimensional Stability	D 2126	@ -25°C: < 0.1% Volume Change @ +100°C: < 0.5% Volume Change	@ -25°C: < 0.1% Volume Change @ +100°C: < 0.5% Volume Change	@ -25°C: < 0.1% Volume Change @ +100°C: < 0.5% Volume Change	
Water Permeability	C- 355 / E- 96	0.5 - 1.5 Perm Inch	0.5 - 1.5 Perm Inch	0.5 - 1.5 Perm Inch	
Working Temperature		-200°C to 150°C (Wider Range)			
	For Long-Term	140°C	140°C	140°C	
	For Short-Term	220°C	220°C	220°C	
VOC Emission	Internal Testing	Pass	Pass	Pass	
BIOLOGICAL CHEMICAL RESISTANCE	Alamdar Boards are Unaffected by moulds Fungus and Vermin, it is resistance to most of Oils, Greases, Solvents, Dilute and Alkaline.				

ARAMCO VENDOR CODE 10011977

PIR offers superior fire resistance, thermal stability, and moisture resistance. For applications requiring high safety and longevity (like industrial or fire-prone environments), PIR is the better choice.



EXTRUDED BLUE POLYSTYRENE STANDARD DATASHEET

Comply with ASTM C 578-2014

Property (Average)	Standard	Unit	Foam ND	Foam HD
Density (Min)	Din 53420 ASTM D- 1622	KG / M ³ lb. / ft ³	32-35 2-2.2	38-45
(1) Thermal Conductivity Fresh as Manufactured At 4.4c (40F) mean temperature of test	DIN 52612 & DIN 52616	W/MK BTUin/ft ² hr f	0.016 0.11	0.016 0.11
(2) Laboratory value at 10C (50F) mean. temperature of test	ASTM C177-76 OR ASTM C518-76	W/MK BTUin/ft ² hr f	0.027 0.19	0.025 0.17
(3) 5 years aged (Design) value at 24C (75F) mean. Temperature of test	ASTM C177-76 Or ASTM C518-76	W/MK BTUin/ft ² hr f	0.032 0.22	0.030 0.21
Compressive strength AT 10% deflection	DIN 53421 ASTM D-1621-73	KPA PSI	320 43	330-470 45-70
Water vapor diffusion Resistance factor	DIN 52615	M	100-225	100-225
Water vapor permeability	ASTM C - 355-64	Perm inch	0.4-0.6	0.4-0.6
Water Absorption by Submersion	DIN 53428 (4 days Submersion whole board) ASTM D- 2842	100% by Vol.	0.2	0.2
Dimensional stability	ASTM D- 2126	-	<0.2	<0.2
Linear Coefficient of Thermal Expansion and Contraction (Heat Soaking Conditions)		C-1 F-1	70-10 ⁻⁶ 39-10 ⁻⁶	70-10 ⁻⁶ 39-10 ⁻⁶
Flammability	DIN 4102	Building Material Class	B2	B2
Flame Spread	ASTM E 84	RATING	<5	<5



ALAMDAR EXTRUDED BLUE POLYSTYRENE FOAM

ALAMDAR-VAPOTHERM CO., LTD. proudly introduces Extruded Polystyrene (XPS) Panels to the Saudi market.:

- ✓ Superior mechanical strength
- ✓ Water vapor and absorption resistance
- ✓ Uniform density and dimensional stability
- ✓ High compressive strength and aging durability
- ✓ Immunity to pests, bacteria, and rodents



Engineered for quality and durability, our XPS panels provide reliable insulation solutions for modern construction.

SPECIFICATIONS: -

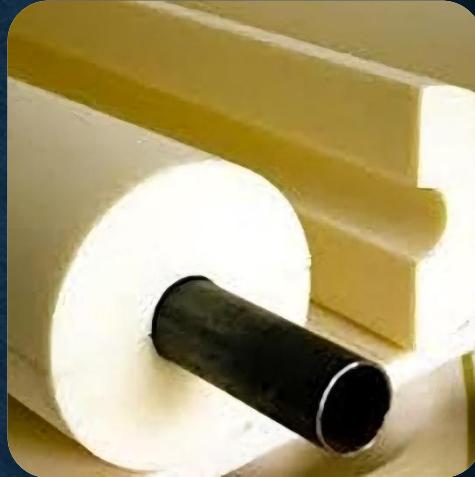
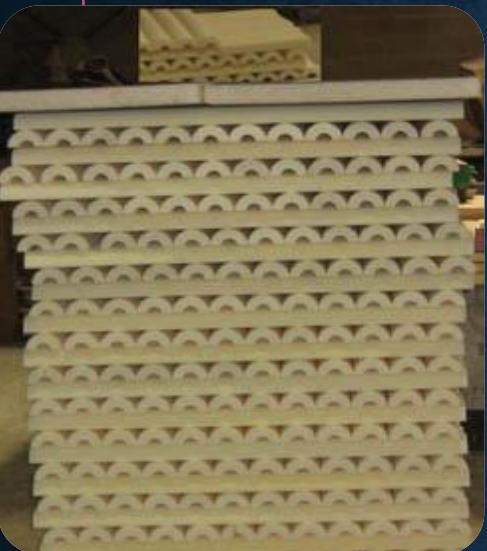
USED	1. For Cavity, Internal Wall, External Wall 2. For roof inverted and conventional style (Under or above waterproof)
THICKNESS	30, 40, 50, 60, 70, 75, 80, 90, 100 MM
EDGES	Rebated edges or straight edges
DIMENSION	Standard 1250mm x 60mm (Requested Lengths Available)
STORAGE & HANDLING	Should be stored in clean flat and kept way from open flame and other sources of ignition. When longer outdoor storage is forced, boards must be protected from ultraviolet light by covering with brightly colored plastic sheets properly anchored down against wind effect



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

RIGID POLYURETHANE AND POLYISOCYANURATE PIPE (PUR & PIR) WITH AND WITHOUT ALUMINUM FACING



ALAMDAR PUR PIPE INSULATION

Pipes are produced from Rigid Polyurethane Block foam. The Pipe sections are curved out in machines.

Any Diameter standard or not standard can be produced with or Without Aluminium Jacket. These Pipes Insulation Sections are manufactured according to German standards. ASTM, BS, ISO, SASO, ... Others.

Density:

32 - 60 KG / M³ (Maximum 80 Kg /M³)

32-35 KG/M³ (Optimum and most used).

Corrosion: Does not corrode or even promote corrosion on Steel or Copper piping

Fire Rating: - ASTM 1692 Self Extinguishing

- E- 84 (With Specified Limit)

Using: Used in wide range of Cooling, Chilling, Heating and Plumbing work with Optimum Service Temperature ranging from -50°C To 110°C.

BIOLOGICAL DETAILS



ALAMDAR PIR PIPE INSULATION

Alamdar Vapotherm Pipes are produced from Rigid Polyisocyanurate Block foam. The Pipe sections are curved out in machines.

Any Diameter standard or not standard can be produced with or Without Aluminium Jacket. These Pipes Insulation Sections are manufactured according to B₂ German standards. ASTM, BS, ISO, SASO, ... Others.

Density:

32 - 60 KG / M³ (Maximum 80 Kg /M³)

32-35 KG/M³ (Optimum and most used).

Corrosion: Does not corrode or even promote corrosion on Steel or Copper piping

Fire Rating: - ASTM 1692 Self Extinguishing

- E- 84 (With Specified Limit)

Using: Used in wide range of Cooling, Chilling, Heating and Plumbing work with Optimum Service Temperature ranging from -200°C To 150°C. (wider range)

BIOLOGICAL DETAILS:





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Pipes: In sections of various diameters with or without reinforced aluminum jackets

Dimensions	Test Method	SI Unit	SI Unit	SI Unit
Dia = ½" to 60"				
Normal Density	ASTM D 1622	32-35 KG/M ³	40-45 KG/M ³	60-70 KG/M ³
Compressive Strength 10% Deformation	ASTM D 1621	1.6-2.0 KPA 160-200 KN/M ²	2.2-3.5 KPA 220-300 KN/M ²	4.0-4.2 KPA 400-420 KN/M ²
Thermal Conductivity At 24°C Mean Test Temperature.	ASTM C 518 ASTM C 591-22	0.022 – 0.024 W/m. K (Slightly better)		
1. 6 Months Aged		1. 0.017 W/M° C	1. 0.017 W/M° C	1. 0.019 W/M° C
2. 10 Years Aged		2. 0.022 W/M° C	2. 0.022 W/M° C	2. 0.026 W/M° C
Tensile Strength	ASTM D 1623	1.50-2.00 KPA	1.50-2.00 KPA	2.00-7.00 KPA
Closed Cell Content	ASTM D 2856	92% - 95%	92% - 95%	92% - 95%
Fire Test	ASTM D 1692 ASTM E 84 Din 4102	Improved fire resistance, chars instead of burning	Improved fire resistance, chars instead of burning	Improved fire resistance, chars instead of burning
Working Temperature	1. For Prolonged Period 2. For Short Period	-200°C to 150°C (Wider Range) 220°C	-200°C to 150°C (Wider Range) 220°C	-200°C to 150°C (Wider Range) 220°C
Dimensional Stability at 70°C 7 Days	ASTM D 2126	Less than 1% Linear Change	Less than 1% Linear Change	Less than 1% Linear Change
Biological and Chemical Resistance	Alamdar Pipes are unaffected by moulds. Fungus and vermin and it are resistant to most oils, greases, solvent, dilute acids and alkalines.			



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Pipes: In sections of various diameters with or without reinforced aluminum jackets

Dimensions	Test Method	SI Unit	SI Unit	SI Unit
Dia = ½" to 60"				
Normal Density	ASTM D 1622	32-35 KG/M ³	40-45 KG/M ³	60-70 KG/M ³
Compressive Strength 10% Deformation	ASTM D 1621	1.6-2.0 KPA 160-200 KN/M ²	2.2-3.5 KPA 220-300 KN/M ²	4.0-4.2 KPA 400-420 KN/M ²
Thermal Conductivity At 24°C Mean Test Temperature.	ASTM C 518	0.022-0.026 W/m. K		
1. 6 Months Aged		1. 0.017 W/M° C	1. 0.017 W/M° C	1. 0.019 W/M° C
2. 10 Years Aged		2. 0.022 W/M° C	2. 0.022 W/M° C	2. 0.026 W/M° C
Tensile Strength	ASTM D 1623	1.50-2.00 KPA	1.50-2.00 KPA	2.00-7.00 KPA
Closed Cell Content	ASTM D 2856	92% - 95%	92% - 95%	92% - 95%
Fire Test	ASTM D 1692 ASTM E 84 Din 4102	Flame speed as specified limit (With specified limit)	Flame speed as specified limit (With specified limit)	Flame speed as specified limit (With specified limit)
Working Temperature	1. For Prolonged Period 2. For Short Period	-50°C To 110°C 220°C	-50°C To 110°C 220°	-50°C To 110°C 220°
Dimensional Stability at 70°C 7 Days	ASTM D 2126	Less than 1% Linear Change	Less than 1% Linear Change	Less than 1% Linear Change
Biological and Chemical Resistance	Alamdar Pipes are unaffected by moulds. Fungus and vermin and it are resistant to most oils, greases, solvent, dilute acids and alkalines.			

BLOCKS WITH DIFFERENT SIZES' AND COLORS



POLYURETHANE & POLYISOCYANURATE BLOCKS WITH DIFFERENT DIMENSIONS.

FOAM FOR FLOWERS



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

FOAM FOR FLOWERS



*Wet Foam (Sponge)
New Product
For The First Time
In K.S.A*

**الفوم الطبيعي (الفلين)
(منتج جديد)**

وأول مرة بأسواق المملكة

At its factory situated in the 2ND industrial area, Alamdar Vapotherm Co., since 1985 Produces Artificial foam that is to be used in planting dried and artificial Flowers in planters. Flowerpots and in making Flower bouquets as well as decoration trees. Many flower shops were supplied by such excellent quality of foam in different thickness as per Customer's request.

Alamdar Vapotherm Co., Today, has the pleasure to introduce its new product for the first time in GCC'S market from its factory in Riyadh to K.S.A. markets, the Natural Foam (Sponge). It is to be used for planting natural and dry flowers.

تقوم شركة عالمدار فابوثيرم بتصنيعها بالمدينة الصناعية الثانية منذ عام ١٩٨٥ م بإنتاج الفلين (الفوم) الصناعي الذي يستعمل في أحواض الزهور بغرنن الزهور المجففة والصناعية لعمل بوكيهات من الورود وشجار الزينة ولقد تم إمداد كثير من محلات الزهور بتلك النوعية الممتازة بكلفهات مختلفة حسب طلب العميل.

واليوم تفخر شركة عالمدار فابوثيرم بان تقدم منتجها الجديد لأول مرة بدول الخليج بتصنيعها بالرياض إلى أسواق المملكة من مادة الفلين (الفوم) الطبيعي والذي يستعمل لغرس الزهور الطبيعية والمجففة .

تمتاز هذه المواد بقابليتها لامتصاص كمية كبيرة من الماء والاحتفاظ بتلك المياه في وجود مادة السماد والتي تقوم بتنمية الزهور لاحتفاظ بضارتها لأطول فترة ممكنة.

Such new material has got the ability of absorbing huge quantities of water and holding it in the presence of fertilizer which is nourishing the flower to maintain its bloom and freshness as long as possible.

The new product is available now in different sizes and shapes as per customer's request.

تتوارد تلك المواد بشكال وأحجام مختلفة داخل عبوات وذلك حسب طلب العميل.

Alamdar Wet Foam



Brick Shape

Art. No. 113: 23 x 11 x 8 cm



Cylinder Shape

Art. No. 114: Ø 8 x 8 cm



Heart Shape

Art. No. 115: 27cm
116: 20cm



Wet
Foam
Powder
For
Plants

Art. No. 127



Spherical Shape

Art. No. 117: Ø 3cm	118: Ø 5cm	119: Ø 7cm
120: Ø 9cm	121: Ø 12cm	122: Ø 16cm
123: Ø 20cm		

Grower Products

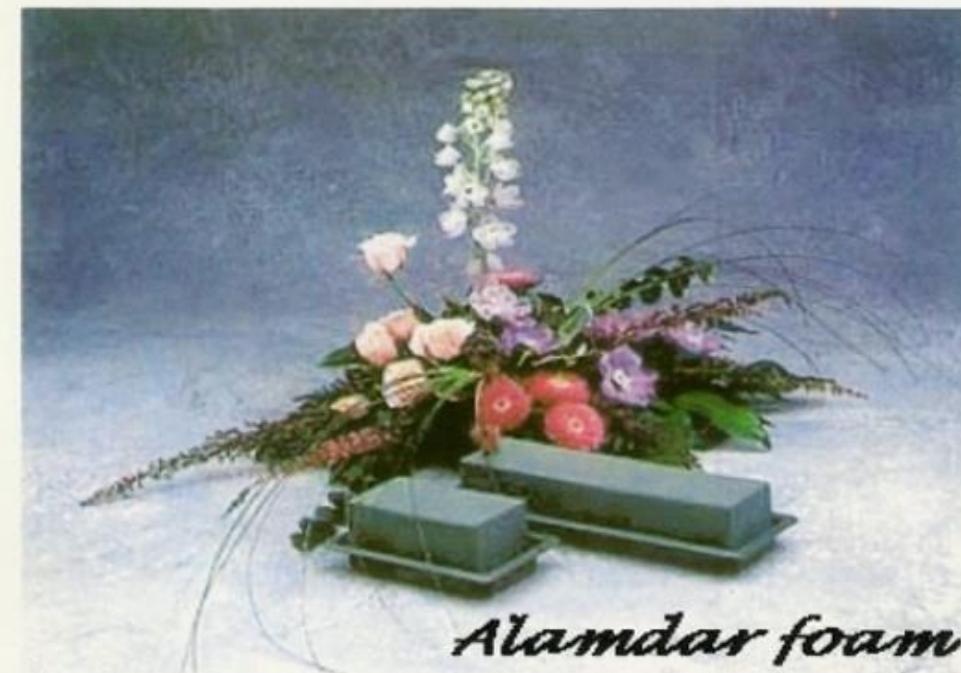
Art. No. 124: 50 Units per sheet	250 x 500 x 45 mm (400Units)
125: 104 Units per sheet	250 x 500 x 45 mm (832Units)
126: 162 Units per sheet	250 x 500 x 45 mm (1296Units)

Potting



Alamdar Vapotherm Co., Ltd.

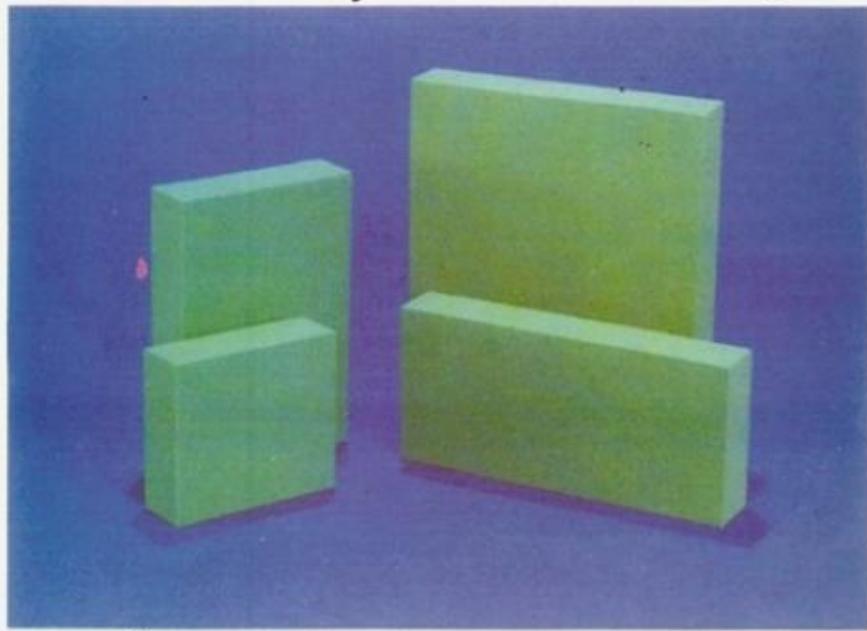
Foam For Natural Flowers



Alamdar foam



Alamdar vapotherm Co., Ltd.



Alamdar Dry Foam
Brick Shape

Art. No.:

- 100 Size 33 x 23 x 18 CM
- 101 Size 23 x 11 x 8 CM
- 102 Size 20 x 10 x 8 CM



Cylinder Shape

Art. No.:

- 103 Size 55 x 8 CM
- 104 Size 8 x 8 CM
- 105 Size 8 x 5 CM



Solo Ring Shape

Art. No.:

- 106 Size 17 CM
- 107 Size 20 CM
- 108 Size 25 CM
- 109 Size 30 CM



Spherical Shape

Art. No.:

- 110 Size 09 CM
- 111 Size 12 CM
- 112 Size 16 CM



HORDI POLYSTYRENE

PHYSICAL PROPERTIES

1- Thermal conductivity: Thermal conductivity varies with density, temperature, cell gas.

2- Deformation temperature: Expanded polystyrene will soften at high temperature (ma.. Approx.. 80° C in short term load) but if it is bonded with other material for instance Hot Bitumen the limited becomes more than 100°c.

3- Water vapor diffusion (diffusion resistance factor): Expandable polystyrene fairly permeable to water vapor. The extremely high diffusion resistance factor is metal foil. At densities 16 kg/m³ water vapor transmission (WVT) of about 0.07 kg/m², 24 Hrs are obtained with 50 mm samples, (at higher density low values will be obtained.)

4-Water uptake on immersion (water resistance properties/ water absorption): When 50 mm³ of expanded polystyrene immersed in water for 7 days (at 20°C) water absorbed was 2% by weight (all faces being saw cut) is reduced by the use of floating floors laid on a resident expanded polystyrene board.



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

HORDI POLYSTYRENE

5- Dimensional stability (linear thermal expansion): It has a high linear thermal expansion about 5070 MK-1 (greater compared and steel, glass, masonry, wood about 5 - 12 MK-I) or according ASTM B6 6A4 the value of coefficient of linear thermal expansion was 72.10.6 mm/mm.

6- Effects of weather / light stability: U.V. and other actinic radiation eventually affect the polystyrene (because of yellowing and deterioration). These should be protected from long direct sun exposure. Used indoors are not affected by U. V.

7- Fire Retardant: Expanded polystyrene board contains a flame retardant additive to inhibit ignition from small fire source but they are classified as material according to DIN 4102. This material should not be exposed to open flame or other ignition source on site during storage or installation and use.

8- Heat of Combustion: The heat of combustion of expandable polystyrene is approx. 40 MJ/KG

9- MECHANICAL PROPERTIES

(Compression, shear, flexural, tensile) Mechanical Properties, Of Expanded Polystyrene Varies With Density.



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SPECIALIZED IN ALL INSULATION MATERIALS

HORDI POLYSTYRENE

10- DIELECTRIC PROPERTIES

The dielectric constant (Permittivity) have a value 1.04 for density 30 Kg/m³ method BS 2067, 1953 Claus 7 (1 MHZ) if density reduced the value will approach that of air (1.0).

11- CHEMICAL PROPERTIES

Expanded polystyrene is unaffected by mildly acid or. alkaline building materials (Portland cement, lime or Anliydrite) it is however soluble in many organic solvents and used paints, adhesives, wood preservatives pasting - agent etc.

12- BIOLOGICAL PROPERTIES

Expanded polystyrene is not attacked by fungi, soil bacteria.

13- ACOUSTIC PROPERTIES

Air born sound transmission is normally reduced by the used of massive construction and consequently expanded polystyrene has little to offer. Impact sound transmission



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

HORDI POLYSTYRENE

TYPICAL PHYSICAL PROPERTIES OF EXPANDED POLYSTYRENE FOAM

Property	Standard	Unit	16	20	24	30	35
Moulded density	DIN 53420 ASTM D 1622	Kg/m3 lb/f3	16 1.0	20 1.25	24 1.5	30 1.87	35 2.19
Thermal Conductivity							
Laboratory value at 10°C (50°F) mean temperature of test	DIN 52612 or DIN 52616 ASTM C177-76 or ASTM C518-76	W/m. K Btu.in/ft .h.°F	0.034 0.24	0.033 0.235	0.032 0.22	0.031 0.21	0.030 0.20
Compressive strength at 10% deflection	DIN 53421 ASTM D1621-73	kPa psi	70-115 10-14	100-160 13-18	140-210 15-21	180-255 25-33	225-305 38-43
Flexural strength	DIN 53423 ASTM C203	kPa psi	170-220 25-30	240-300 32-38	325-400 40-50	410-490 55-75	490-590 75-92
Tensile strength	DIN 18164 ASTM D1623	kPa psi	160-240 16-20	225-325 17-21	260-415 18-22	375-510 23-27	450-600 27-30
Shear strength	DIN 53427 ASTM D732	kPa psi	95-120 18-22	120-150 23-25	150-190 26-32	190-220 33-37	220-250 37-40
Water vapour diffusion resistence factor	DIN 4108		20-50	30-70	30-70	40-100	40-100
Water vapour permeability	ASTM C355	perm.in.	1.2-3.0	1.1-2.8	0.9-2.5	0.6-1.5	0.5-1.2
Water absorption by submersion	ASTM C272	% by Vol.	2.5	2.5	2.0	1.0	1.0
Capillarity	-----	-----	none	none	none	none	none
Coefficient of thermal expansion	ASTM D696	in.(in.)(F)	0.000035	0.000035	0.000035	0.000035	0.000035
Dimensional stability under heat, short term	based on DIN 53424	°C	95	95	95	95	95
Dimensional stability under heat, long term	based on DIN 18164	°C	85 75-80	85 80-85	85 80-85	85 80-85	85 80-85
under 5kPa load under 20 kPa load		°C	-180+85	-180+85	-180+85	-180+85	-180+85
Continuous service temperature in air		°C					
Oxygen Index	ASTM D 2863	%	30.4	30.4	30.4	30.4	30.4

CHARACTERISTICS

1. Polyurethane is highly effective insulation, and this makes it the most material for insulation in the world. Its thermal insulation is 0.020 to 0.023 W/M Centigrade. Thickness is less than the material mentioned. Its insulation is more effective than polystyrene. 50 mm of Polyurethane gives more insulation than given by 78 mm of polystyrene.
2. Closed cell...
3. Is high duty for temperature that reaches 220° for short periods, and 110° for long periods. (High temp. resistance). In case of using the INVERTED (Thermal in insulation over waterproofing layer) Polyurethane Boards Bears high temperature around and temperature of building roof. In summer, temperature reaches 50 – 55°, but surface temperature direct to sun is higher. Due to its high duty for temperature, the value of thermal insulation is not affected too much by this temperature.
4. For fire Resistance, Polyurethane is self-extinguishing. If the source of flame stopped, the consistency of boards will remain unchanged besides its high duty for temperature.
5. Polyurethane Boards" are anti-acid, chemicals, bacteria, parasites and strong solvents.
6. Stability is excellent. are anti-acid, chemicals, bacteria, parasites and strong solvents.
7. Water Absorption reaches a little more than 1 % for boards without facing in spite of that, boards don't keep water more than 4 – 5 days. Range of water evaporation is very high 2.5 times than polystyrene.
8. Polyurethane Boards are covered (both sides) with material resisting for ultraviolet rays, water absorption and humidity.
9. Guarantee 30-35 years.



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



FAQ

1- What is the Polyurethane?

They are made of Rigid Polyurethane, the world's No.1 commercially available Thermal Insulator with K (Thermal Conductivity), 0.022W /M°K. Lower the K value, more efficient the insulation. Hence by using minimum possible thickness, you can get maximum possible insulation efficiency. Our boards are produced keeping in mind the unique local climatic conditions, they suit the precise requirements of your building.



2- Why polyurethane?

Simple to install, self extinguishing, resistant to chemicals, acids, solvents, fungus and vermin.

Extremely easy to install and we shall deliver to your site every where?

With strong compressive strength which can take heavy mechanical traffic.

1- Easy to cut, strong compressive

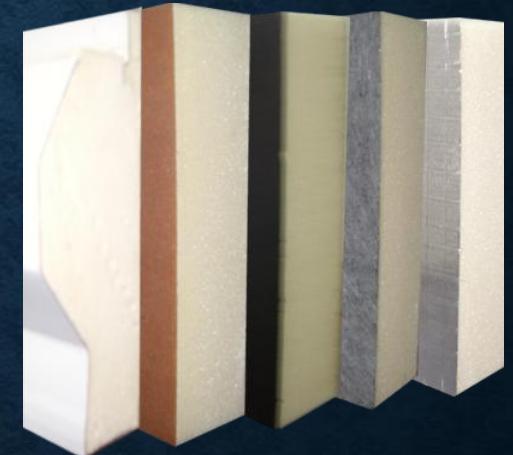
2- Strength, you can walk on it.

3- Easy to install.

4- Stand hot Bitumen

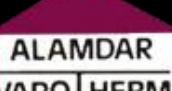
5- Stable Dimensional stability

Extremely economically priced. and above all Alamdar Vapotherm Thermal insulation boards are 100% Saudi product, being locally produced since 1977.



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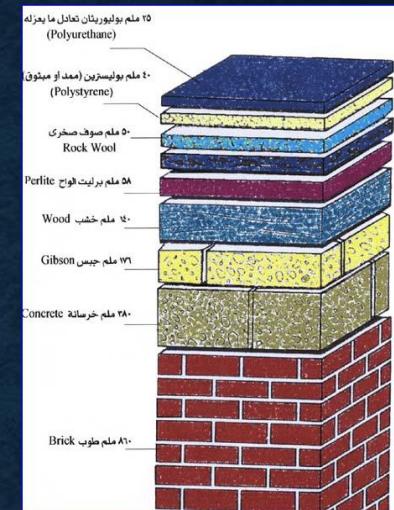


FAQ

3- What is the difference between polyurethane & other insulation materials?

Comparison between Insulation Materials example:

25mm polyurethane equivalent to 40mm polystyrene equivalent to 50mm Rockwood & soon.

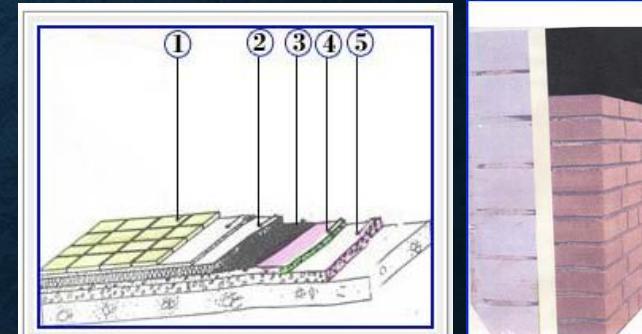


4- How To Fix Pipe Insulation?



5- How To Fix Insulation In Roof Insulation With Polyurethane?

- 1) Sand cement roofing tiles (white) (20x20x2cm)
- 2) Mortar bed (2 cm)
- 3) Elastomeric waterproofing on bituminous primer
- 4) Polyurethane foam insulation (5 cm)
- 5) Concrete slab (12 cm)



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Gallery

Photos installation Of Thermal Insulation



ALAMDAR-VAPO THERM CO. LTD.

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Gallery

Photos installation Of Thermal Insulation



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



Gallery

Photos installation Of Thermal Insulation



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ALAMDAR
VAPO THERM

Approval

Ministry of Housing Approval

ALAMDAR
VAPO THERM

ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

الرقم: ٢٨٧٥
التاريخ: ٢٢/٧/٢٠٢٢
الرقم: ٥٥



المملكة العربية السعودية

ج.إ.م

الإدارة العامة للإشراف ومتابعة المشاريع
مشغلي سوق المقاولات

ال الموضوع: اعتماد شركة عالمدار لمشروع إسكان عنيزة
بمنطقة القصيم.

المسئول عن العمل: مكتب الرأي للإشرافات الهندسية
عن.ب: ٩١٥٤٨ ، الرياض: ١١٦٤٣ ، الملف: ١٤٥٠٩٦٩٨ ، الفاكس: ١٤٥٦٧٦٢٤
السلام عليكم ورحمة الله وبركاته،

إشارة إلى خطابكم رقم (٦٥) ص لـ (٢٠١٢) وتاريخ (١٤٢٣/٧/١٤) بشأن اعتماد عينات العزل الحراري للأسقف لمشروع إسكان عنيزة بمنطقة القصيم.
وبعد دراسة خطابكم ومعرفتكم من قبل المختصين بالوزارة نفيدكم باعتماد شركة عالمدار

فايبرينيوم لتوريد الواح البوليسترين مع مراعاة الآتي:

- ١- السماكة لا تقل عن ٥ سم.
- ٢- الكثافة لا تقل عن ٢٥ كجم/م٣.
- ٣- التنفيذ طبقاً لأصول الصناعة وتعليمات الشركة المنتجة وتعليمات المهندس المشرف.
- ٤- شهادة مطابقة لما تم توريد موثقة من الشركة التجارية.
- ٥- مراعاة المواصفات الفنية وجدول المكتبات وتعليمات جهاز الإشراف وما ورد في خطاب إشرافي

ولكم تحياتي،

المشرف على الإدارة العامة للإشراف

ومتابعة المشاريع

المهندس / عبدالله بن عواد العنزي

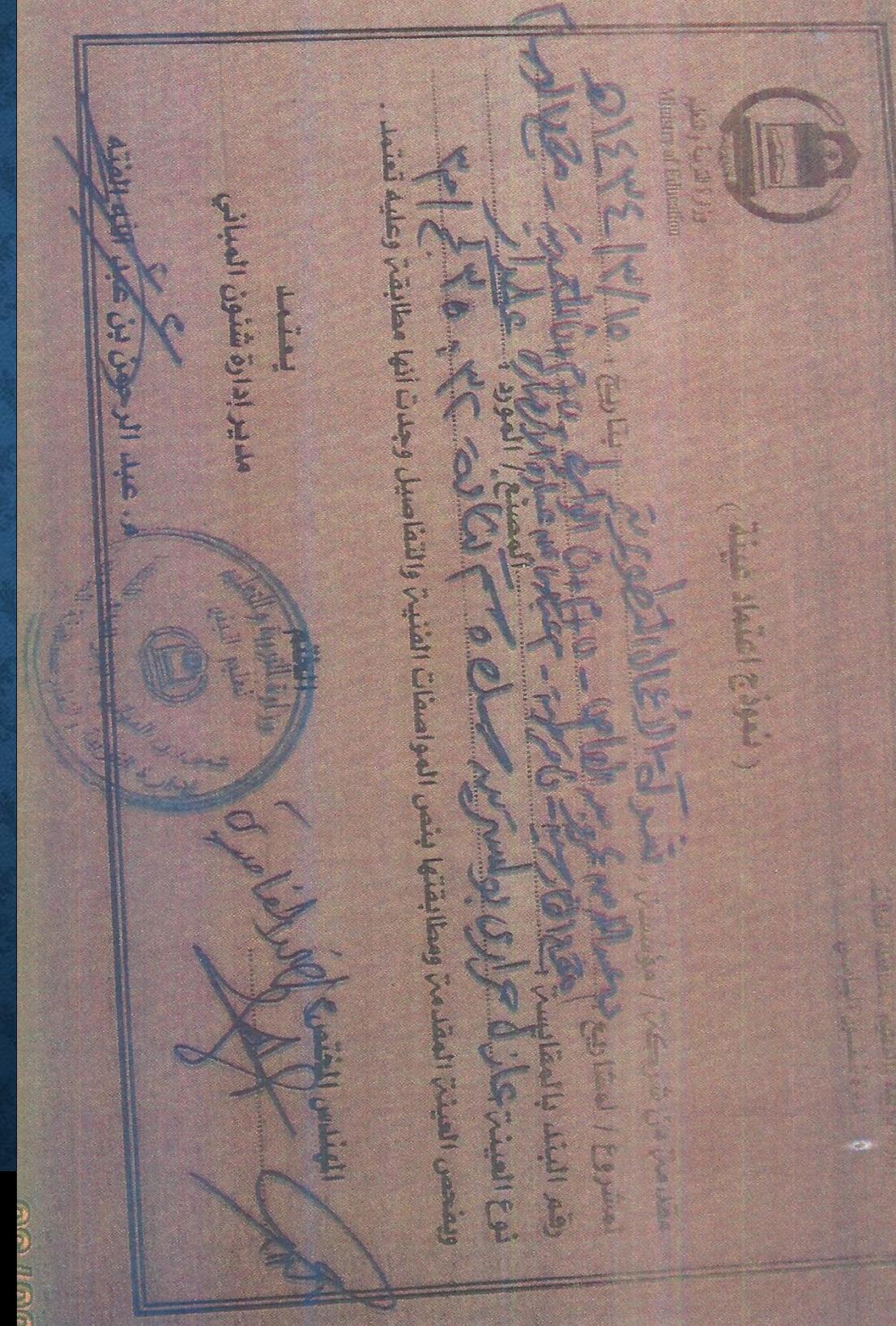
Approval

Ministry of Education Approval



ALAMDAR-VAPOTHERM CO. LTD.

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Approval

Ministry of Social Affairs Approval



ALAMDAR-VAPOTHERM CO. LTD.

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٣ : لا يستلم النموذج من المقاول حتى يتم إستيفاء كافة البيانات والملفقات و تطابق مع متطلبات المشروع التعاقدية قبل الرفع للوزراء

٤: لا يكتب على هذا الاعتماد أي، التمامات قاتنة على العنوان تحمل مقدمة العنوان.

Approval

**SABIC
Approval**

ALAMDAR
VAPO THERM

ALAMDAR-VAPO THERM CO. LTD.

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**SABIC AL-MATRAFAIH
SECONDARY INFRASTRUCTURE AND HOUSING PROJECT
DOCUMENT TRANSMITTAL**

سabic

To:	Mr. Ashraf Essam - Project Manager Al-Rashid Trading and Contracting Co.		
From:	Mr. Mohammed Sulaiman Al-Alweet - Project Manager		
Reference:	Contract No. EPC-LS-16-SABIC-015-IK - Package - 3		
Subject:	Thermal Insulation for Pecast Works in House Construction Package 2 (Option 1: Alamdar Polyisocyanurate Boards -50mm thk 35kg/m3) (Option 2: Saptex Polyisocyanurate Insulation -50mm thk 35kg/m3)		
Originator Reference:	SIH-RTC-T-17-30210	Date:	9-May-17
Recipient Reference:	RTC-SIH-T-17-30303	Date:	7-May-17
Discipline:	MECHANICAL	<input type="checkbox"/> Attachment CD/DVD	<input type="checkbox"/> Response Required

DOCUMENT TYPE:

<input type="checkbox"/> Manual	<input type="checkbox"/> Procedures	<input type="checkbox"/> Forms	<input checked="" type="checkbox"/> Materials	<input type="checkbox"/> Reports/Calculation	<input type="checkbox"/> Drawings	<input type="checkbox"/> Document	
<input type="checkbox"/> Vendor Documents/Drawings	<input type="checkbox"/> Statements/Work Instructions	<input type="checkbox"/> Certificates	<input type="checkbox"/> Others (specify)				

DOCUMENT STATUS:

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Approved with Comments	<input type="checkbox"/> Reviewed	<input type="checkbox"/> Reviewed with Comments
<input type="checkbox"/> Not Approved	<input type="checkbox"/> Re-Submit	<input type="checkbox"/> Action	<input type="checkbox"/> Others (specify)

REMARKS:

See Comments Attached in Transmittal : SIH-RTC-T-17-20233

NOTE:

Employer's/Engineer's review, comment, approval or agreement is to satisfy themselves with general concepts and arrangements proposed by Contractor in the document. However, compliance with such comments does not relieve Contractor from its obligations under the CONTRACT and JOB SPECIFICATION. Deviation from CONTRACT and/or JOB SPECIFICATION should be identified by Contractor to Employer's/Engineer's attention for approval in a separate letter.

Approved by:



10 MAY 2017

Mr. Mohammed Sulaiman Al-Alweet
Project Manager

Received by: (Please acknowledge receipt by stamping/signing & returning a copy of this Transmittal)

Name: _____ Signature: _____

Ahmed Ahmed

Abd

Stamp with Date: SABIC Al-Matrafah Housing Project Sabic - Al-Jubail Industrial City
10 MAY 2017
RECEIVED
CSP 461495 DOCUMENT CONTROL UNIT

Approval

SABIC
Approval



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

SABIC AL-MATRAFAIH SECONDARY INFRASTRUCTURE AND HOUSING PROJECT DOCUMENT TRANSMITTAL			
To:	Mr. An Xiaodong - Project Manager Beijing Construction Engineering Group Co. Ltd		
From:	Mr. Abdullah Ghanem. Al-Shahrani - Project Manager		
Reference:	Contract No. EPC-LS-16-SABIC-018-IK - Package - 6		
Subject:	MATERIAL APPROVAL REQUEST FOR THERMAL INSULATION FROM ALAMDAR-VAPOTHERM CO.LTD. C/O QANBAR DYWIDAG		
Originator Reference:	SIH-BCG-T-18-60779	Date:	10-Jan-18
Recipient Reference:	BCG-SIH-T-17-60886	Date:	09-Jan-18
Discipline:	CIVIL	<input checked="" type="checkbox"/> Attachment CD/DVD	<input type="checkbox"/> Response Required
DOCUMENT TYPE:			
<input type="checkbox"/> Manual <input type="checkbox"/> Procedures <input type="checkbox"/> Forms <input checked="" type="checkbox"/> Materials <input type="checkbox"/> Reports/Calculation <input type="checkbox"/> Drawings <input type="checkbox"/> Vendor Documents/Drawings <input type="checkbox"/> Statements/Work Instructions <input type="checkbox"/> Certificates <input type="checkbox"/> Others (Specify)			
DOCUMENT STATUS:			
<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved with Comments <input type="checkbox"/> Reviewed <input type="checkbox"/> Reviewed with Comments <input type="checkbox"/> Not Approved <input type="checkbox"/> Re-Submit <input type="checkbox"/> Action <input type="checkbox"/> Others (specify)			
REMARKS:			
See attached Comments			
NOTE:			
Employer's/Engineer's review, comment, approval or agreement is to satisfy themselves with general concepts and arrangements proposed by Contractor in the document. However, compliance with such comments does not relieve Contractor from its obligations under the CONTRACT and JOB SPECIFICATION. Deviation from CONTRACT and/or JOB SPECIFICATION should be identified by Contractor to Employer's/Engineer's attention for approval in a separate letter.			
Approved by:			
 Abdullah Ghanem. Al-Shahrani Project Manager			
Received by: (Please acknowledge receipt by stamping/initialing & returning a copy of this transmittal)			
Name:	Signature:	Stamp with Date:	
			

SABIC AL-MATRAFAIH HOUSING PROJECT
BEIJING CONSTRUCTION
ENGINEERING GROUP
CO. LTD. KSA

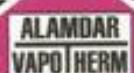
شركة عالمدار فابو تيرم المحدودة

متخصصون في إنتاج العوازل الحرارية بجميع أنواعها



Approval

SABIC
Approval



ALAMDAR-VAPOTHERM CO. LTD.

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SABIC AL-MATRAFAIH SECONDARY INFRASTRUCTURE AND HOUSING PROJECT				
REVIEW COMMENT SHEET				
Originator Reference :	SIH-BCG-T-18-60779		Date:	10-Jan-18
Recipient Reference	BCG-SIH-T-17-60886		Date:	09-Jan-18
Transmittal Subject:	MATERIAL APPROVAL REQUEST FOR THERMAL INSULATION FROM ALAMDAR-VAPOTHERM CO.LTD. C/O QANBAR DYWIDA			
Discipline	CIVIL		Comments by	CONTRACTOR reply
Sl. No.	Document/Drawings No.	PMT Comments	Comments by	Page
1	1/ MATERIAL REQUEST FOR APPROVAL IN LUTATION FRC 1 ALAMDAR- VAPOTHERM CO. LTD. C/O QANBAR DYWIDAG	APPROVED	MHM	1 + 1 *PMT ACCEPTANCE Code

Masroor Hussain

Lead QA/QC

Masroor

* Company's approvals, authorizations, agreements and Reviews shall not relieve CONTRACTOR of its obligations under CONTRACT.

Approval

**SABIC
Approval**



ALAMDAR-VAPOTHERM CO. LTD.

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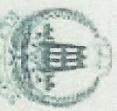


SABIC AL-MATRAFAH
SECONDARY INFRASTRUCTURE AND HOUSING PROJECT

REVIEW/COMMENT SHEET

SABIC

Originator Reference:	SIH-RTC-T-17-20233	Date:	9-May-17		
Recipient Reference:	RTC-SIH-T-17-20321	Date:	7-May-17		
Transmittal Subject:	Thermal Insulation for Pecast Works in House Construction Package 2 (Option 1: Alamdar Polyisocyanurate Boards -50mm thk 35kg/m ³) (Option 2: Saptex Polyisocyanurate Insulation -50mm thk 35kg/m ³)				
Discipline	CIVIL				
EMPLOYER Action Lead:	Khurshid Alam	CONTRACTOR Resolution Lead:	Page 1+1		
SI	Document/Drawings No.	Employer Comments	Comments by Contractor	Employer Resolution	Employer Acceptance Code
1	1490-MAT-GEN-CIV-0010-A-0	Both the supplier as mentioned are not in AVL Contractor shall arrange the material by Sabic approved Vendor.	MAK		3
2		R Value of the material is not mentioned.	MAK		3
Remarks					
Mohammed Khurshid Alam					
* Company's approvals, authorizations, agreements and Reviews shall not relieve CONTRACTOR of its obligations under CONTRACT.					



نحو ارسال

TRANSMITTAL FORM

INSTRUCTION OF HOSPITAL @ KING FAISAL NAVAL BASE-MEADAH

9

DATE: 10/11/2015

CONTRACT NO. 3/3/4/36

A - Thermal Insulation - M T - 13 NEW SUBMITTAL
 RE-SUBMITTAL

SPECIFICATION SEC. NO.

OR APPROVAL OF THE FOLLOWING ITEMS:

ITEM OF ITEM SUBMITTED	NO. OF COPIES	MANUFACTURER OR CONTRACTOR CATALOGUE ADDRESS & TEL NO.	SPEC PARA NO.	DRAWING SHEET NO.	SIGNATURE OF REVIEWER	ACTION CODE
1. Insulation	2	ALAMDAR				B
2. SCS	1	VAPOTHERM Co.				B
3. SCS & lacm	1					

NOTION FOR USE & PROOF CONFORM
TO SPEC.

NOTION FOR THICKNESS & SPECIFIC
OF THE TYPE SHOWN IN CONTRACT DRAWING
IS USED BY THE APPROVING AUTHORITY (GDMW) ONLY.

CONFIRM THAT THE ABOVE SUBMITTED ITEMS HAVE BEEN REVIEWED IN DETAIL AND ARE CORRECT AND ARE CORRECT AND IN FULL
COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT EXCEPT AS OTHERWISE STATED HEREON.

NAME, SIGNATURE AND STAMP OF CONTRACTOR

RD:

ENGR. MOH'D. GASSIM AL-KHANJARI
DIRECTOR OF PRODUCTION - JEDDAH
NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY

23 NOV. 2015

ON CODES ARE GIVEN TO ITEMS SUBMITTED:
B=approved except as noted on drawing re-submission not required. C=approved as noted on submitted / drawings ref to attach sheet
R=disapproved see attach sheet. F=see comments on attach. G=returned without action see attach sheet
MS DOES NOT RELIEVE CONTRACTOR COMPLYING WITH ALL THE REQUIREMENTS OF THE DRAWINGS & SPECIFICATIONS

Ministry of Defense
Approval

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



Approval

Ministry of Interior
Approval



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



مركز المشروعات التطويرية

الملكية العربية السعودية
وزارة الداخلية
(٢٧٢)

الموضوع: اعتماد تأهيل شركة عالمدار.

السادة/ مكتب دار الهندسة (شاعر ومشاركه)

السادة/ مكتب الخدمات الاستشارية (سعود كونسلت)

السادة/ شركة الاتحاد الهندسي (خطيب وعلمي)

السلام عليكم ورحمة الله وبركاته

الإشارة: خطاب دار الهندسة رقم ١٢٧٧ GEN-١٤٣٠/١١/١٤ وتاريخ

الإفادة: اعتماد الشركة أعلاه كوكيل لصنع قطر للمواد العازلة (العزل الحراري) ضمن

قائمة الموردين لدى المركز.

المطلوب: الإطلاع وإكمال اللازم.

ولكم خياتنا،،

مساعد مدير إدارة الإشراف

م/ عبد اللطيف بن سعد الصفيان



Approval

Ministry of Health
Approval



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

Kingdom of Saudi Arabia

Ministry of Health

General Directorate for Project

Supervision on Execution Department



المملكة العربية السعودية
وزارة الصحة
الإدارة العامة للمشاريع
إدارة الإشراف على التنفيذ

الرقم : ٤٠١/٤١٢٧٤٢٦٧ التاریخ ١٤٢١/١١/١٤ هـ المشفوعات : *ر.خ.أ*

الموضوع: تأهيل منتجات شركة العلمدار للتجارة والصناعة

المحترم

٤٧٤٩٨٠٣: ف: ٤٧٨١٩٩٠ .١٤٢٨ ص.ب ١١٤٣١

السلام عليكم و رحمة الله و بركاته ..

إشارة إلى خطابكم رقم ٤٨١٦٧ و تاريخ ١٤٣١/٣/١٠ هـ المتضمن طلبكم تأهيل منتجات مصنوعكم من ألواح البوليسترين المبئوق الأزرق للعزل الحراري لمشاريع وزارة الصحة. نود أن نشكركم على إهتمامكم بالمشاركة بتقديم منتجاتكم لمشاريع الوزارة.

ونفيدكم بأنه تم الإطلاع على ملف المنتج و يمكنكم تقديم منتجاتكم لقاولي مشاريع الوزارة في حال مطابقتها لمواصفات الوزارة.

مع خالص التحية ولتقدير...

مدير إدارة الإشراف على التنفيذ

٤٨١٤٣١

المهندس/ عبد المنعم بن محمد المحسن

وزارة الصحة
Ministry of Health

Riyadh (11176) Tel. (4033992) Fax (40407997)

الرمز البريدي (١١١٧٦) هاتف (٤٠٣٣٩٩٢) فاكس (٤٠٤٠٧٩٧)

Approval

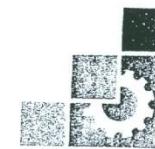
General Organization Technical and Vocational Training

ALAMDAR
VAPO THERM

ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

KINGDOM OF SAUDI ARABIA
Technical and Vocational Training Corporation
لجنة العينات



المملكة العربية السعودية
مؤسسة العاشرة للتغذى التقنى والمهنى
الادارة العامة للمشروعات والصيانة

رقم: / / ١٤٢٤
التاريخ: اعتماد عينات

اسم المشروع: استكمال معهد التدريب المهني بالجوف
المادة المقدمة: العزل الحراري للأسطح من النوع المبثق المقلل المسام سمك ٥

المحترمين

فاكس: ٤٦٢٤٩٣٣

بتاريخ ١٤٣٠/٨/٢٧ هـ

اسم المورد/المصنع: شركة علمدار
المكرمين/ مكتب الركن لاستشارات الهندسية

الرياض: ١١٤٨٤

ص: ١٧٣٥٧

بالإشارة إلى خطابكم رقم (٢٠٠٩/١٦٣٥)

بخصوص تقديمكم المواد أعلاه

نفيدكم بالتالي:

لامانع من اعتماد شركة علمدار لتوريد العزل الحراري من البوليسترلين المقلل المسام من النوع
المبثق سمك ٥ سم للأسطح كثافة ٣٥ كجم / م طبقاً للعينة المقدمة والمعتمدة مع ضرورة
الالتزام بالمواصفات والمخططات وجدالول الكمية وأصول الصناعة في التنفيذ وضرورة تقديم

نموذج كامل للأعمال العزل للأسطح موضح به الطبقات والمواد المستخدمة.

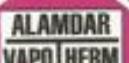
وتقبلوا تحياتي،،،

مساعد المدير العام للمشروعات والصيانة

عبد العزيز بن محمد العنقرى

Approval

Ministry of Housing Approvals



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

الرقم : ٨٠ ص ك / ٢٠١٢

التاريخ : ١٤٣٣ / ١٠ / ١٠ هـ

سنه الله

المحترمين

صورة مع التحية لسعادة المشرف على الادارة العامة للإشراف ومتابعة المشاريع

السادة / شركة الخريجي للتجارة والمقاولات

السلام عليكم ورحمة الله وبركاته

المشروع : إسكان عنزة بمنطقة القصيم
الموضوع : اعتماد عينات العزل الحراري
المرفقات: صورة خطاب الوزارة

إشارة إلى خطاب الوزارة الوارد إلينا رقم (٣٨٧٥) وتاريخ ١٤٣٣/٠٧/٢٦ هـ (مرفق صورة) والمتضمن
اعتماد عينات العزل الحراري لمشروع إسكان عنزة بمنطقة القصيم .

نفيدكم باعتماد شركة (علدار فابيتوم) لتوريد ألواح البوليسترين كعزل حراري على أن يراعي الالتزام
بالملاحظات المذكورة في خطاب الوزارة والإلتزام بالمواصفات الفنية وجداول الكميات للمشروع والكود السعودي
وأصول الصناعة أثناء التنفيذ بالموقع .

ولكم كل التحية والتقدير ،،،

المدير العام
المهندس / عبد الله صالح الجبرين



Approval

Aramco
Approved (Vender Code)



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

3/22/2016

Aramco Vendor Code New Letter.htm

From: Zahrani, Sultan A [sultan.zahrani.9@aramco.com]
Sent: 15/٢ ٠١:١٤ ٢٠١٦ [٢٠١٦-٠٢-١٥]
To: info@alamdar.com.sa
Subject: As requested

Dear sir,

ALAMDAR VAPOTHERM COMPANY LIMITED, with Vendor ID: 10011977 is approved for the following 9COMs:

9COM	Description
6000001930	PACKAGING; INCLUDES BOXES, CARTONS,
6000002543	INSULATION; PIPE; POLYURETHANE/POLVISOCY
6000002547	BOARD; INSULATION; THERMAL; POLYURETHANE

Best Regards,
Sultan Al Zahra

Supplier Registration & Qualification Unit
Industrial Development & Strategic Supply Department
Dhahran 31311 Saudi Arabia

Tel: +966 874 0522



Approval

Aramco Approval
Sinohydro Company



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

REQUEST FOR TECHNICAL APPROVAL

أرجاعي للراجحي
Saudi Aramco

<p>To: MOHAMMED G. AL-SHEHRI Company Representative SKPD/PSF/NGHPD Rm. 18, Bldg. 101, Aramco Office, Thuwal Jeddah, Saudi Arabia Attn: Mr. Mohammed G. Al-Shehri Sr. Project Engineer</p> <p>From: Branch of Sinohydro Corporation Company Ltd. P.O. Box 65659, Riyadh 12311, Kingdom of Saudi Arabia Tel: +966 11 803 0338 Fax: +966 11 462 2565</p>		<p>B.I. No. : 25-00034/004</p> <p>Contract No. : 6600037267</p> <p>Project Title : National Guard Family Compound(Central Spine)</p> <p>Location : Thuwal-Jeddah, Kingdom of Saudi Arabia</p>	<p>No. of Copy : 3</p> <p>Spec. Ref. : Section 07210</p> <p>Div. & Sec. No. : Part 2</p> <p>Drawing Ref. : N/A</p> <p>App. Standard SAMSISS/NSP : N/A</p>	<p>Submittal Code</p> <p>A <input type="checkbox"/> Architectural</p> <p>C <input checked="" type="checkbox"/> Civil</p> <p>S <input type="checkbox"/> Structural</p> <p>M <input type="checkbox"/> Mechanical</p> <p>E <input type="checkbox"/> Electrical</p> <p>I <input type="checkbox"/> Telecommunicatio</p> <p>0 <input type="checkbox"/> Others</p>
<input checked="" type="checkbox"/> New Submittal	<input type="checkbox"/> Resubmittal	<p>Reference Submittal No.</p> <p>RTA-C3-C-MS-528</p>	<p>Rev. No. : 0</p> <p>Date : 24/10/2016</p>	<p>Internal Reference No.</p> <p>(For Saudi Aramco Use Only)</p> <p>Review/Comments/Approval/Action</p>
		<p>Local Vendor Rep. Address & I.D. No.</p> <p>9COM</p>	<p>MFTR. NAME / PLANT I.D. NO.</p> <p>ALAMDAR VAPOTHERM COMPANY LIMITED</p>	<p>REVIEW TO IFC FOR THICKNESS REQUIRED</p>
		<p>Application: Materials to be used for cavity wall insulation system.</p>	<p>RECEIVED</p> <p>30 OCT 2013</p> <p>By</p> <p>P.300M</p>	<p>REVIEW TO IFC FOR THICKNESS REQUIRED</p>
		<p>Fitting Code</p>	<p>NATIONAL GUARD HOUSING PROJECT DIVISION</p> <p>Signature.</p>	<p>REVIEW TO IFC FOR THICKNESS REQUIRED</p>
		<p>For SAPMT Review and Approval</p>	<p>Signature.</p>	<p>REVIEW TO IFC FOR THICKNESS REQUIRED</p>
		<p>Prepared by:</p> <p>Reviewed by:</p>	<p>Approved by:</p> <p>Reviewed by:</p>	<p>Approved by:</p> <p>Reviewed by:</p>
		<p>Mr. M. Sakhawat Hossain</p> <p>Discipline Engineer</p>	<p>Mr. Saib Naveed</p> <p>Procurement Quality Control Supervisor</p>	<p>Mr. Hosseini Akhlaq</p> <p>PMT Material Specialist</p>
		<p>Date: 24/10/2016</p>	<p>Date: 2016.10.24</p>	<p>Date: 10/25/16</p>
		<p>Comments:</p> <p>Approval is only for general conformance with the contract documents. Such review does not relieve contractor for its responsibility under the terms of contractor nor authorized additional compensation.</p>	<p>No Objection <input type="checkbox"/></p> <p>No Objection as Noted <input checked="" type="checkbox"/></p> <p>Correct & Resubmit <input type="checkbox"/></p> <p>Rejected <input type="checkbox"/></p>	

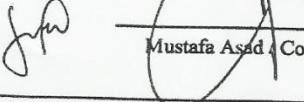
Approval

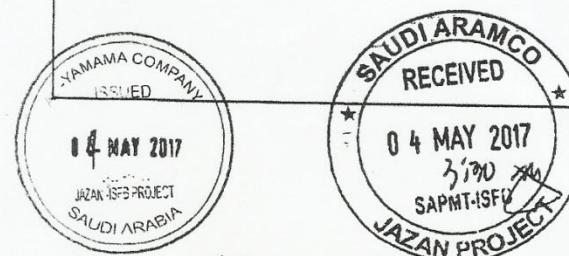
Aramco Approval
AL Yamama Company



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

 AL YAMAMA	SAUDI ARAMCO JAZAN - ISFB PROJECT CONTRACT NO.: 6600036947 B.I. NO.: BI-10-01055-0006	الجوف والمنطقة Saudi Aramco		
TO : Saudi Aramco - Jazan ISFB Project ATTN : Mr. Murad M. Zayer / Company Representative FROM : Mustafa Asad / Contractor Representative SIGNED BY :  Mustafa Asad / Contractor Representative	TRANSMITTAL NO. : ISFB-T-AY-SA-02371 TRANSMITTAL DATE : 04-May-17 RESPONSE REQUIRED : 18-May-17			
ISSUE CODE				
<input type="checkbox"/> Review <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Information <input type="checkbox"/> Material Issue <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Final Document				
DISCIPLINE : <input type="checkbox"/> Safety <input type="checkbox"/> Proj. Mngt. <input type="checkbox"/> Proj. Controls <input checked="" type="checkbox"/> Civil <input type="checkbox"/> Fire Protection <input type="checkbox"/> Arch'l/Landscaping <input type="checkbox"/> Electrical <input type="checkbox"/> Mechanical <input type="checkbox"/> HVAC <input type="checkbox"/> Interface <input type="checkbox"/> Risk Management <input type="checkbox"/> Cost <input type="checkbox"/> Structural <input type="checkbox"/> Laboratory <input type="checkbox"/> QA/QC <input checked="" type="checkbox"/> Procurement <input type="checkbox"/> Telecom <input type="checkbox"/> Laboratory				
DOC. TYPE : <input type="checkbox"/> Shop Drawing <input type="checkbox"/> As-Built Drawing <input checked="" type="checkbox"/> Material <input type="checkbox"/> Letter <input type="checkbox"/> Document				
SUBJECT : Technical Submittal for ALAMDAR Polyisocyanurate Board				
IN CASE OF "FOR APPROVAL" DOCUMENTS, PLEASE RETURN COPY OF TRANSMITTAL WITH YOUR APPROVAL STATUS IN CODE COLUMN USING FOLLOWING CODES:				
A : APPROVED R : APPROVED WITH COMMENTS F : ACKNOWLEDGED I/F : FOR INFORMATION / ACTION		B : APPROVED WITH MINOR COMMENT N : NOT ACCEPTABLE / REJECTED R/R : REVISE & RESUBMIT N.O. : NO OBJECTION		
This document have been reviewed for general conformance with the contract. Such review does not relieve the contractor of his responsibilities under the terms of the contract nor authorized additional compensation.				
DOCUMENT LIST				
SEQ.	DOC. NO.	REV. NO.	DOCUMENT TITLE	REVIEW RESULT
1	ISFB-T-AY-SA-0102	00	Technical Submittal for ALAMDAR Polyisocyanurate Board	
SA REMARKS: <ul style="list-style-type: none"> - Material specifications must be in compliance with GEN-E004, Section 07210 - ALAMDAR Polyisocyanurate board must meet the R13 requirement and contrain minimum thickness requirements. <p style="text-align: right;"> M/S Shihab</p>				





REQUEST FOR TECHNICAL APPROVAL

Approval

 Aramco Approval
 China Railway Company

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

TO:		Name: Mr. Tawfiq A. Al-Abdullahi		Position: Project Manager		Department: KAPSARC & Community Project Dept.		Location: Al-Khobar, KSA		Project Title: EXPAND DHAHARAN RESIDENTIAL COMMUNITY: RESIDENTIAL AREA - PACKAGE 4 DHAHARAN, KSA		SA ENGINEERING STANDARDS		SUBMITTAL CODE			
ATTN:		Name: Mr. Mohammad A.Al-Ajaji		Position: Sr. Project Engineer		Contract No. 660034661		Bl No. JO-10-013820-0006		MATERIAL DESCRIPTION		SA ENGINEERING PROCEDURES		E			
FROM:		Company: China Railway Construction Corporation		Address: P.O. Box 112634 Jeddah, 21371		Tel/Fax No.: 0122222222		E-mail: Zhang.Ning@ccccc.sa		RTA FOR POLYISOCYANURATE INSULATION		N/A		SA MATERIALS SPECIFICATION SYSTEM		I	
NEW SUBMITTAL		RESUBMITTAL		REF. SUBMITTAL NO.		REV. NO.		SA DUMMY P.O. NO.		FORM SA-175		NMR FORM		INSPECTION LEVEL			
SI #		Material Description		9COM CCC		MANUFACTURER NAME		VENDOR'S NAME		SAUDI ARAMCO VENDOR ID:		(FOR SAUDI ARAMCO USE ONLY)		"NOT INSPECTABLE"			
POLYISOCYANURATE INSULATION		AS PER ATTACHED BOQ		6000002547 ID# 10011977		ALAMDAR-VAPOTHERM CO LTD		ISAM KABBANI & PARTNERS (UNITECH) VID# 10013026		ALAMDAR-VAPOTHERM CO LTD VID# 10011977		KMA		REVIEW / COMMENT / APPROVAL / ACTION			
														<input checked="" type="checkbox"/> NO OBJECTION <input type="checkbox"/> NO OBJECTION AS NOTED <input type="checkbox"/> CORRECT & RESUBMIT <input type="checkbox"/> REJECTED			
Approval is only for general conformance with the contract documents. Such review does not relieve the CONTRACTOR for its responsibility under the terms of the CONTRACT nor authorized additional compensation																	
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Material Engineer		Project QA Manager		Project Manager		Sr. Project Engineer		Name: Sadeh M.A. Qahtani		Name: Sun Shangqiang		Name: Mohammad A.Al-Ajaji		Date: 26/12/16		Date: 26/12/16	
Name: Hongqi		Name: Hongqi		Name: Hongqi		Name: Hongqi		Date: 26/12/16		Date: 26/12/16		Date: 26/12/16		Date: 26/12/16		Date: 26/12/16	

024-1442 X/17

Approval

Aramco Approval
Khonaini International



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

COMMUNITY HOUSING PROJECTS DIVISION			
DOCUMENT TRANSMITTAL			
Transmittal No.:	TR-01382-8749/16	Date:	16-Oct-16
To:	HAISSAM TAKKUZ Project Manager Khonaini International Co. Ltd.	From:	YOUSSEF AL-ALI Senior Project Engineer Expand Dhahran Residential Community Project Division- Increment II
Document Type:	Technical Approval	Package:	Package 7
Aramco Reference No.:	KI7-972	Contractor Reference No.:	KICL-07-015
BI / JO. No.:	BI-10-01382	Project Title:	Expand Dhahran Residential Community
Description: RTA - Insulation Board Polyisocyanurate (PIR) - Alamdar Vapotherm			
Remarks: No Objection As Noted.			
Transmitted By		Received By	
Name:	Edmond G. Miranda	Name:	Joel N.
Date:	16-Oct-16	Date:	16 Oct 2016
Signature:		Signature:	

Saudi Aramco: Company General Use



Approval

Ministry of Higher Education Approval



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

Approval

Alehsa University Approval

ALAMDAR
VAPO THERM

ALAMDAR-VAPO THERM CO. LTD.

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MATERIAL APPROVAL SUBMITTAL FORM

PROJECT NAME: ADMINISTRATION BUILDING AND MOSQUE BUILDING

PROJECT No.: ABM

SUBJECT: Heat Insulation For Roof & Wall (Admin & Mosque. Buildings)

Submittal No.: M-CE-160 R1 Date Received: _____ Date Returned: _____

DISCIPLINE:	ARCH.	CIVIL	MECH.	HVAC	ELECT.	FURNITURE	OTHERS
Specs. Code & Ref.		B.O.Q. Code Ref.				Drawing No.	

Manufacturer	Supplier/Agent
Name: ALAMDAR	Name: ALAMDAR
Address: Riyadh KSA	Address: Riyadh KSA
Phone: 4792964	Fax: 4770987

Information submitted and attached:

Recent Test Result	<input checked="" type="checkbox"/>	Comparison Sheet	<input checked="" type="checkbox"/>
Technical Brochure	<input checked="" type="checkbox"/>	Samples	<input checked="" type="checkbox"/>
Manufacturer's Data & Specs.	<input checked="" type="checkbox"/>	Catalog	<input checked="" type="checkbox"/>
Shop Drawings	<input type="checkbox"/>	Compliance Sheet	<input type="checkbox"/>
(Contractor)	Engr. Awni	Engr. Moh'd. Al Bustanji	24-July-2010
	<i>24/7/2010</i>		Date
		P.M.	

Consultant's Comments & Recommendations: ① closed Cell extruded polystyrene is approved for thermal resistance.

② Prior to site work Submit study for the approved materials to show compliance with R-value mentioned in specification based on r
+ for Roof: → Typical detail ③ DWB TA-9A & R.C. items 9/7/1 & 8/7/3
+ for wall → approved T.O. AR-2059 See Attachment

Consultant *Never be late* Discipline Eng. *26/07/2010* P.M. Date *26/07/2010*

FOR FURTHER ACTION BY			
<input checked="" type="checkbox"/> For Information	<input type="checkbox"/> For Approval	<input checked="" type="checkbox"/> For Information	<input type="checkbox"/> For Approval
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMMITTEE'S COMMENT

RE: MMHE
26 JUL 2010

COMMITTEE'S DECISION

Approved Approved as noted Revise and submit Rejected

ZFP/PM KFU

Discipline Eng.	C.M.	P.M.	Discipline Eng.	Dep. Coordinator	Campus Coordinator

To: MMHE 24/7/106

Cc: Campus Director

Note:

This review does not relieve the contractor of his responsibilities under the terms of the contract nor authorize additional compensation.

RECEIVED

Approval

Al-Jouf University Approval



ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



Al-Jouf University

Kingdom of Saudi Arabia



Project: STUDENT HOUSING (H1-H2) AND MOSK

To: EWAN NORTH TRADING & CONT.

Ref: AJU-S-SN-A-H1H2-2015005

Att: /Project Manager

Date: 22-Mar- 2015

Subject: SUPPLIER & MATERIAL FOR INSULATION POLYSTERE.

With reference to your Submittal Ref# AR-ST/MT-002 dated on 19-March-2015, regarding the subject above mentioned, we hereby inform you that there is no objection from our side to approve this material from

- AL-ALMADAR

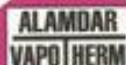
Best Regards

Architectural Department



Test certificate

EXTRUDED POLYSTYRENE FOAM Test Certificate



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

KINGDOM OF SAUDI ARABIA
SAUDI ARABIAN STANDARDS ORGANIZATION

GENERAL LABORATORY DEPT.

رقم الصفحة: ١/١

المملكة العربية السعودية
الهيئة العربية السعودية للمواصفات والمقاييس

الادارة العامة للمختبرات

رقم التقرير	٠٩/٠١٠٣/٠٠١/١٠٩٤
تاريخ التقرير	١٤٣٠-٨-١٤
نوع العينة	عازل حراري من البوليسترين مبثق
مصدر العينة	شركة الطدار للتجارة والصناعة والمقاولات
رقم بيان الإستيراد	بدون

البيانات الإضافية	
البيان	البيان
نوع العينة	عازل بوليسترين مبثق
الصانع	شركة الطدار للتجارة والصناعة والمقاولات
اللون	أزرق فاتح
عدد العينات	١
السمك	٥٠ مم
بلد المنشأ	المملكة العربية السعودية
المصدر	صاحب العلامة

الإختبارات	اسم الاختبار	مفصل
١	اختبار الكثافة (كجم/م ^٣)	٣٤٠٠
٢	مقاومة الإنضغاط (كيلو بارساك)	٤١٨٠
٣	نسبة حجم امتصاص الماء %, الماء	٠,١٥
٤	التوصيل الحراري (وات/م.كلفن)	٠٠٠٢٨
٥	نسبة تغير الأبعاد %, الأبعاد	٠,٢٠
٦	نسبة زمن الإنضغاط %, زمان	٤,٥
٧	نفاذية بخار الماء (نيرم/بوصة)	٠,٥٦

المنفعة: بدون.

اسم الفنى المختص
سعد بن يحيى الشريف

م/أحمد بن ابراهيم الدبيان



هذا التقرير سري ويخص هذه العينة فقط ولا يعتبر شهادة مطابقة ويستعمل من الجهة الطالبة فقط مع عدم قبول الصورة غير المصدقة من الهيئة

ص.ب ٣٤٣٧ - ١١٤٧١ - برقا: قيادي - تلکس ٤٠٤٦١ - تفبيس س٤ - فاكس: ٤٤٨٩٣٦٩ - هاتف: ٤٤٨٩٢٣٥ - P.O Box 3437, Riyadh 11471 - Cable (GIASY) - Telex 401610 SASO SJ - Facs: 4489235 - Telephone 4489369

Test certificate

EXTRUDED POLYSTYRENE FOAM Test Certificate

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

AL HOTY - STANGER 	ALAMDAR VAPOTHERM CO. LTD	Date: 12/12/2016 Ref. No: 15/2239 Report No: PM16T354
XPS SHEET		
SUMMARY OF RESULTS		Page: 1 of 1

Sample Description : XPS SHEET – 50MM

Testing Date : 11-12-2016

Sampled by : Client

TEST RESULTS

TEST DESCRIPTION	STANDARD REQUIREMENT	AVERAGE RESULTS	REMARK
Density (kg/m ³)	35	36.396	PASS
Water Absorption (%)	0.3	0.21	PASS
Compressive Strength at 10 % Deflection (kPa)	414	700.51	PASS
Flexural Strength (kPa)	517	598.20	PASS
Thermal Resistance (K.m ² /W)	0.88	1.46	PASS
Dimensional Stability (%)	2.0	1.535	PASS

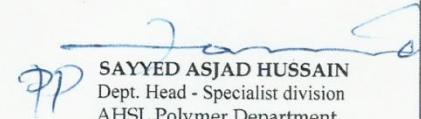
Note:

AHSL certifies that the above test was carried out in accordance with the Specific standard.

Tested by


Polymer Engineer
AHSL Polymer Department

Verified by:


SAYYED ASJAD HUSSAIN
Dept. Head - Specialist division
AHSL Polymer Department

This report relates only to the sample tested and shall only be reproduced in full with the written approval of AHS testing laboratory

F-5

AL HOTY STANGER LTD.CO.
INDEPENDENT LABORATORIES & MATERIALS TESTING

P.O.BOX 1122 AL-KHOBAR 31952 - TEL: (013) 889-1000 - 808-7517 FAX: (013) 898-1466
Jubail P.O. Box 467 - Tel: (013) 341-6791 Fax: (013) 341-0642 - Hofut P.O. Box 2752 - Tel: (013) 586-3210 Fax: (013) 587-1420 - Riyadh P.O. Box 7359 - Tel: (011) 478-4292 Fax: (011) 479-2058
Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax: (012) 666-6729 - Yanbu P.O. Box 20212 Tel: (01) 41 200 5400 Fax: (01) 41 200 5400

Test certificate

POLYISOCYANURATE Test Certificate Density 50

ALAMDAR
VAPO THERM

ALAMDAR-VAPO THERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

KINGDOM OF SAUDI ARABIA
SAUDI ARABIAN STANDARDS ORGANIZATION

GENERAL LABORATORY DEPT.

المملكة العربية السعودية
الهيئة العربية السعودية للمواصفات والمقيمين
الإدارة العامة للمختبرات

رقم التقرير : ٦ / ٠٣/٥٢١١٠
التاريخ : ١٤١٩/٠٣/٠٤
نوع العينة : عازل حراري

الشخص الظاهري :

ابولي ا لايبيوساديوريت [مظهر العينة]
شركة علمدار
رقم العينة ٥٠ * ٥٠ سم

نوع العينة
الصانع
حجم العينة

الاختبارات

النوع	المراجحة	النتائج	امثلة
الكتافة (كجم / م ^٣)	٥٠,٠٤	ASTM C1013-1985	١
مقاومة الفي躬 (كجم / سم ^٢)	٣,٥٦	HH-I-1972/2-1991	٢
متصاص الماء (حجم %)	١,٢٠		٣
descal بخار الماء (لكل انش)	١,٢٥		٤
ثبات الأبعاد (سم ، %)	١,١٥		٥
محتوى الخلية المختلفة (مل)	٩٨		٦
الاشتعال (ملم)	٣,٠		٧
العزل الحراري (عند ٤٤ درجة ، وات / متر كالفن)	٠,٠٢٩		٨

مدير مختبر قيطر الحوجة
عبدالعزيز

خالد بن عبد الله الحربي

مدير مختبر المولد العامة
عبد العزيز بن عبد الله الهيدان

عبد العزيز بن عبد الله الهيدان

هذا التقرير سري ويخص هذه العينة فقط ولا يعتبر شهادة مطابقة ويستعمل من الجهة الطالبة فقط مع عدم قبول الصورة غير المصدقة من الهيئة

ص.ب. ٣٤٣٧ الرياض ١١٤٧١ - برقم : قياسي - تلكس ٤٠٤٦٠ - فاكس : ٤٤٨٩٢٣٥ - هاتف : ٤٤٨٩٣٦٩
P.O Box 3437, Riyadh 11471 — Cable (GIASY) — Telex 401610 SASO SJ — Facs: 4489235 — Telephone 4489369

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Density 35



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SPECIALIZED IN ALL INSULATION MATERIALS



GENERAL LABORATORY DEPT.

المملكة العربية السعودية

الهيئة العربية السعودية للمواصفات والمقاييس

الادارة العامة للمختبرات

(سری)

با الاشارة الى : خطاب العينه رقم : بدون تاریخ : بدون مصدر العینه : شركة علمدار

٦ رقم التقرير : ٢١١٠ / ٤ / ٠٣ / ١٤١٩ التاريخ : ٠٣ / ٠٤ / ١٤١٩ نوع العينه : عازل حراري

الفحص الظاهري :

نوع العينة
المصنع
حجم العينة

بولي ا لابيسانتيوريت مظهر العينة
شركة علمدار
٥٠ * ٥٠ سم رقم العينة

رقم بيتومين من
الجانبين ٣

الاختيارات

ا ل ا خ ذ ب ا س م | م س ل

ASTM C1013-1985 HH-I-1972/2-1991	٣٤,٩٣ ٢,١٠ ١,٢٥ ١,٤٥ ١,٣٠ ٩٦ ٤,٠ ٠,٠٣	الكتافة (كجم/م ^٣) مقاومة الضغط (كجم/سم ^٢) متضاد الماء (حجم %) منتقل بخار الماء (لكل انش) شتات الابعاد (٧٠ من ، ٨٩٥ ، ٩٧ يوم) محتوى الخلية المخلقة الاشتعال (ملم) العزل الحراري (عند ٤٢ درجة مئوية / متراكف)
-------------------------------------	--	--

٥٦ بير مختبر دربوط الموحدة

شالون عبد الله الحمد

دبيس مفتاح الموارد العامة
الدوّل

عبد العزى بن عبد الله الهمدان

هذا التقرير سري ويخص هذه العينة فقط ولا يعتبر شهادة مطابقة ويستعمل من الجهة الطالبة فقط مع عدم قبول الصورة غير المصدقة من الجهة

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VAPO THERM

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تقرير اختبار



الهيئة السعودية للمعايير والجودة
Saudi Standards, Metrology and Quality Org.

2016/04/04 - 1437/06/26	:	تاریخ ادخال العینة	GDL-GM-4442	:	رقم الطلب
2016/04/10 - 1437/07/03	:	تاریخ البداية	10378	:	رقم العینة
2016/04/11 -	:	تاریخ الاتمام	شركة علدار فابوثيرم المحدودة	:	العميل
مختبر	:	مختبر	Toys	:	الموقع
مختبر المواد الخام	:	الغرض من الاختبار	عازل	:	نوع العینة
علامة الجودة	:	القسم	عازل ايزوسيفات	:	المنتج
Toys	:	الصيغ	1	:	عدد المعايير
شركة علدار فابوثيرم	:	بند العينة	بدون	:	رقم الخطاب الموارد
SAUDI ARABIA	:	القصص درجة حرارة	معظم بقدبدر	:	تصنيف القالب
24	:	الظروف البيئية	معظم بقدبدر	:	نوع العینار
الظروف العادي	:	الظروف البيئية	معظم بقدبدر	:	

طرق الاختبار	النتيجة	الاختبارات	م
BS EN 13051	PASS		مقدارمة الحرارة 1
BS EN 13051	20 mm		انتشار الدهب 2

المناشئة
بدون

مدير عام المختبرات

عبدالعزيز ناصر الصالح

عبدالعزيز ابراهيم الأحديب

سامي بن صالح السعيد

هذا التقرير سري ويخص هذه العينة فقط ولا يعتبر شهادة مطابقة ويستعمل من الجهة المطلبة فقط مع عدم قبول الصورة غير المصدقة من الهيئة



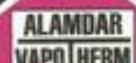
مدير المختبر

Phone: +966 1 452 0000 Fax: +966 1 4569885 Email: lab@saso.gov.sa
Address: P.O.Box 3437, Riyadh 11471, Kingdom of Saudi Arabia.

11/04/2016

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Arab Center
For Engineering Studies

المركز العربي
للدراسات الهندسية

TEST REPORT ON PIR BOARDS

Page 1 of 1

Owner	N.P.	Report No.	TMR16023251
ACES Client	AL AMDAR VAPOTHERM CO LTD	Date Reported	19-04-16
Contractor	N.P.	Sample No.	TMS16010098
Consultant	N.P.	Request No.	TMQ16006645
Project No.	-	Client Reference	Full payment in advance
Project Name	Private		

Sample Description	PIR Boards (Polyisocyanurate) With Aluminium Facing (Sample - 1)	Sampled By	Client's Rep.
Source / Supplier	N.P.	Sampling Date	28-03-16
Sample location	N.P.	Sampling Cert.	N.P.
Sample Reference	N.P.	Sampling Method	N.P.
RFI No.	N.P.	Sample Size	1 Sample
Test Method	Using The Guideline of ASTM E84 - 15	Sample Brt. In By	Client's Rep.
Test Method Var.	Nil	Date Received	11-04-16
Tested By	Glenn	Date Tested	14-04-16

Test Results:

Test	Test Result	Project specification
Flame Spread Index (FSI)	20	Max. 25
Smoke Development Index (SSI)	242	Max. 450

Remarks :- The test results related only to the specimen(s) tested

- The test results has satisfied the Project Specification.



0 0 0 3 5 1 8 2 6 9 .

Eng. Ghaleb Al-Zubi
Head of Materials Department



ص.ب ١٩٥٧٩، الدوحة، قطر هاتف: ١٤١: ٩٧٤ ٤٤ ٨٧٠ فاكس: ٩٧٤ ٤٤ ٨٧٠
P.O.Box : 19579, Doha, Qatar Tel: +974 44 870 141 Fax: +974 44 870 146
E-mail: acesdoha@aces-int.com www.aces-int.com



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