



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



PRESENTATION ALAMDAR VAPOTHERM 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.



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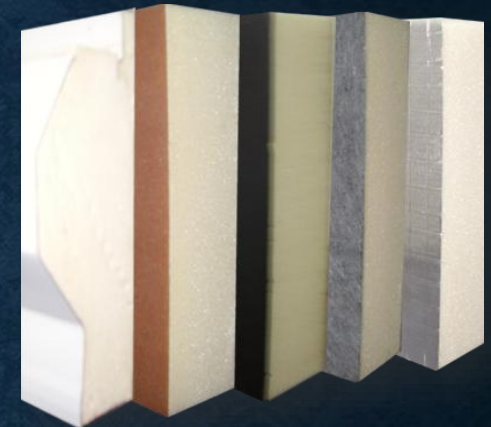
Products



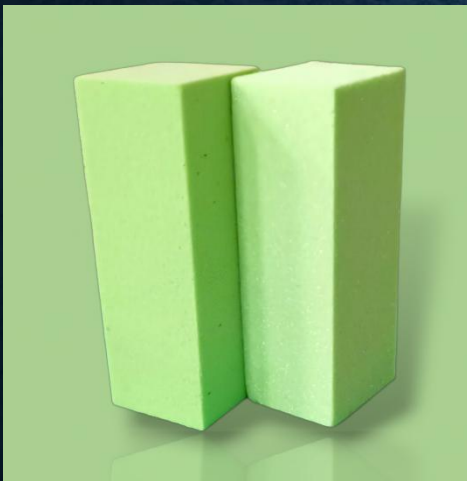
POLYISOCYANURATE BOARDS



POLYURETHANE PIPES



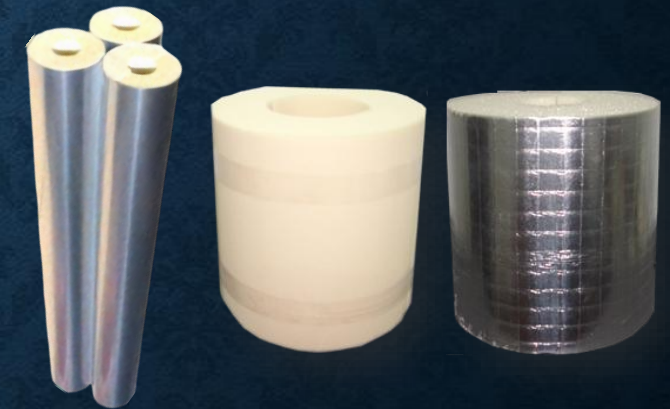
POLYURETHANE BOARDS



FOAM FOR FLOWERS

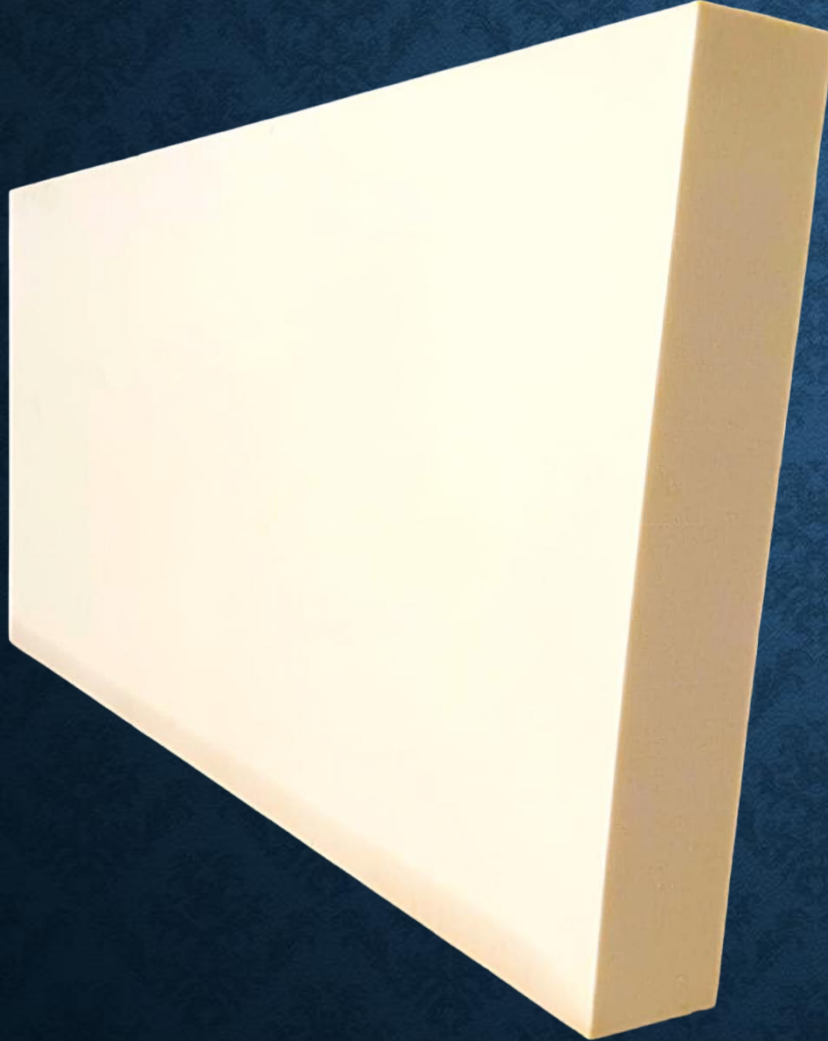


BLOCKS DIFFERENT SIZE



POLYISOCYANURATE PIPE

WITHOUT FACING PIR/PUR FOAM

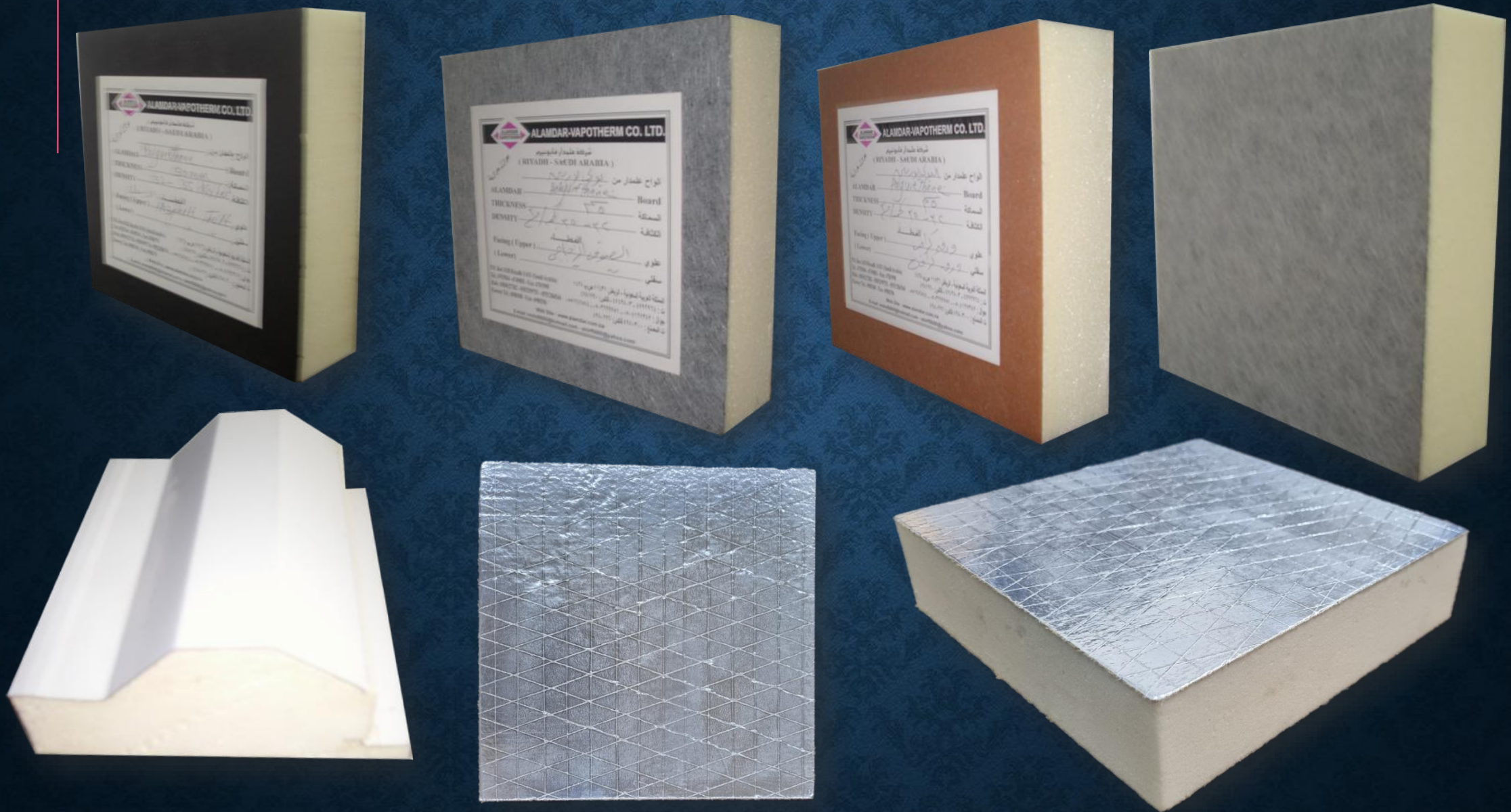


شركة علمدار فابوتيرم المحدودة

متخصصون في إنتاج العوازل الحرارية بجميع أنواعها



RIGID POLYURETHANE AND POLYISOCYANURATE THERMAL INSULATION BOARDS



ALAMDAR-VAPOTHERM CO. LTD.

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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 \pm 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

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ALAMDAR POLYISOCYANURATE (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 M² 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 \pm 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:

- (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

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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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Email : info@alamdar.com.sa OR alamdarvap@gmail.com

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	2.8 - 3.10 Kg / CM ² 280 – 310 KPA	3.1 – 4.0 Kg / CM ² 310 – 400 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	0.022 W / M K° AT 24°C	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.

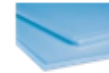


ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



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	DIN 52612 & DIN 52616	W/MK BTUin/ft ² hr f	0.016 0.11	0.016 0.11
At 4.4c (40F) mean temperature of test				
(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. 100% by Vol.	0.2 <1.00	0.2 <1.00
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



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ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

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	<p>Should be stored in clean flat and kept way from open flame and other sources of ignition.</p> <p>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</p>



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

المملكة العربية السعودية - الرياض - طريق الخرج - المدينة الصناعية الثانية - تلفون: +٩٦٦ ١١ ٤٩٨ ٠٢٩٦ - +٩٦٦ ١١ ٤٩٨ ٠٢٠٠

Website: www.alamdar.com.sa - Email: info@alamdar.com.sa & alamdarvap@gmail.com

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

Alamdor 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

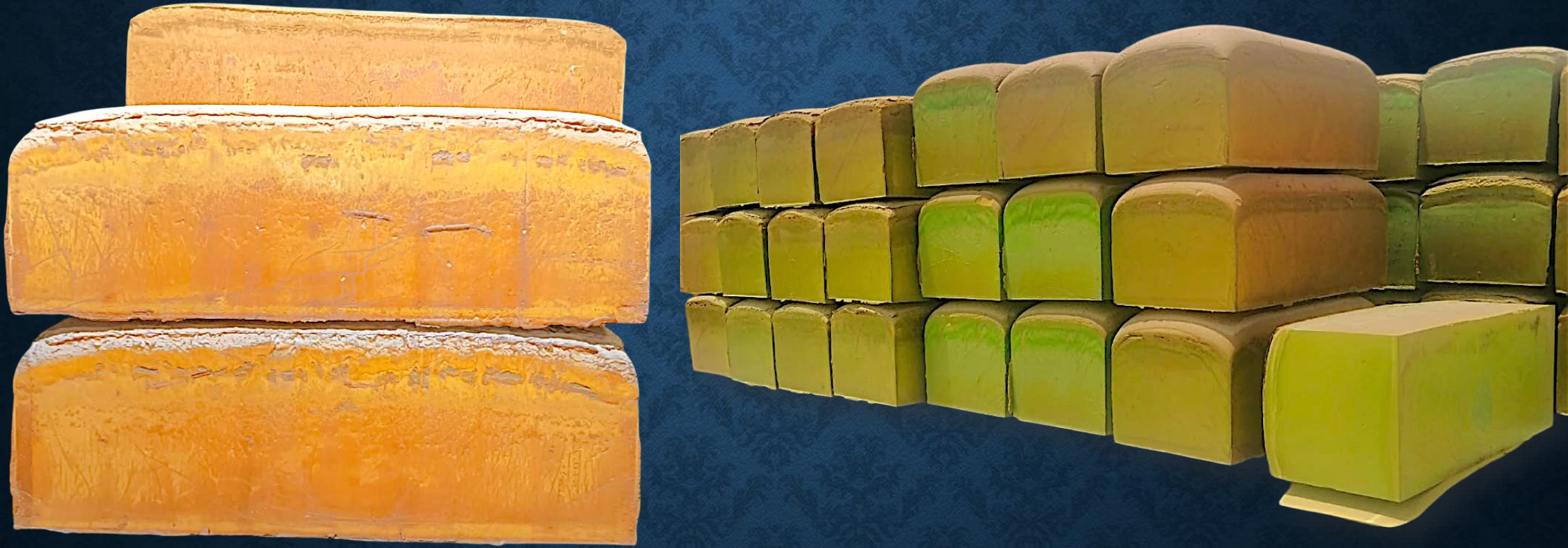
Dimensions	Test Method	SI Unit	SI Unit	SI Unit
Dia = ½" to 60"				
Normal Density	ASTM D 1622	32-35 KG/M³	40-45 KG/M³	60-70 KG/M³
Compressive Strength 10% Deformation	ASTM D 1621	1.6-2.0 KPA 160-200 KN/M²	2.2-3.5 KPA 220-300 KN/M²	4.0-4.2 KPA 400-420 KN/M²
Thermal Conductivity At 24°C Mean Test Temperature. 1. 6 Months Aged 2. 10 Years Aged	ASTM C 518 ASTM C 591-22	0.022 – 0.024 W/m. K (Slightly better)		
		1. 0.017 W/M° C	1. 0.017 W/M° C	1. 0.019 W/M° C
		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	Alamdor 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/M³	40-45 KG/M³	60-70 KG/M³
Compressive Strength 10% Deformation	ASTM D 1621	1.6-2.0 KPA 160-200 KN/M²	2.2-3.5 KPA 220-300 KN/M²	4.0-4.2 KPA 400-420 KN/M²
Thermal Conductivity At 24°C Mean Test Temperature. 1. 6 Months Aged 2. 10 Years Aged	ASTM C 518	0.022-0.026 W/m. K		
		1. 0.017 W/M° C	1. 0.017 W/M° C	1. 0.019 W/M° C
		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
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	Alamdor 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



ALAMDAR
VAPOTHERM

شركة علمدار فابوتيرم المحدودة ALAMDAR-VAPOTHERM CO., LTD.

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

**القوم الطبيعي (الفلين)
((منتج جديد))**

ولأول مرة بأسواق المملكة

At its factory situated in the 2ND industrial area, Alamdor 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.

تقوم شركة علمدار فابوتيرم بمصنعها بالمدينة الصناعية الثانية منذ عام ١٩٨٥م بإنتاج الفلين (القوم) الصناعي الذي يستعمل في ألواح الزهور بغرض غرس الزهور المجففة والصناعية لعمل بوكيهات من الورد وأشجار الزينة ولقد تم إمداد كثير من محلات الزهور بتلك النوعية الممتازة بكثافات مختلفة حسب طلب العميل.

Alamdor 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.

واليوم تفخر شركة علمدار فابوتيرم بأن تقدم منتجها الجديد لأول مرة بدول الخليج بمصنعها بالرياض إلى أسواق المملكة من مادة الفلين (القوم) الطبيعي والذي يستعمل لغرس الزهور الطبيعية والمجففة.

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.

تمتاز هذه المواد بقابليتها لامتصاص كمية كبيرة من الماء والاحتفاظ بتلك المياه في وجود مادة السماد والتي تقوم بتغذية الزهور للاحتفاظ بنضارتها لأطول فترة ممكنة.

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

تتواجد تلك المواد بأشكال وأحجام مختلفة داخل عبوات وذلك حسب طلب العميل.

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

المملكة العربية السعودية - الرياض : ١١٤٣١ - ص.ب : ١٤٣٨ هاتف : ٤٧٩٢٩٩٤ - ٤٧٨١٩٩٠ - ٤٧٤٩٨٠٣ - فاكس : ٤٧٧٠٩٨٧ قرار ترخيص رقم ١٠٢٤ في ١٤٢٠/٧/٢٢
Riyadh: 11431 - P.O. Box: 1428 SAUDI ARABIA Tel.: 4792964 - 4781990 - 4749803 - Fax: 4770987 Lic.No.1024 Date 22/7/1420H

جسوال : ٥٤١٢٧٣٨٢

Alamdar Wet Foam



Brick Shape

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



Cylinder Shape

Art. No. 114: Ø 8 x 8 cm



Wet Foam Powder For Plants

Art.No. 127



Heart Shape

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



Spherical Shape

Art. No.	117: Ø 3cm	118: Ø 5cm	119: Ø 7cm
	120: Ø 9cm	121: Ø12cm	122: Ø16cm
	123: Ø20cm		

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



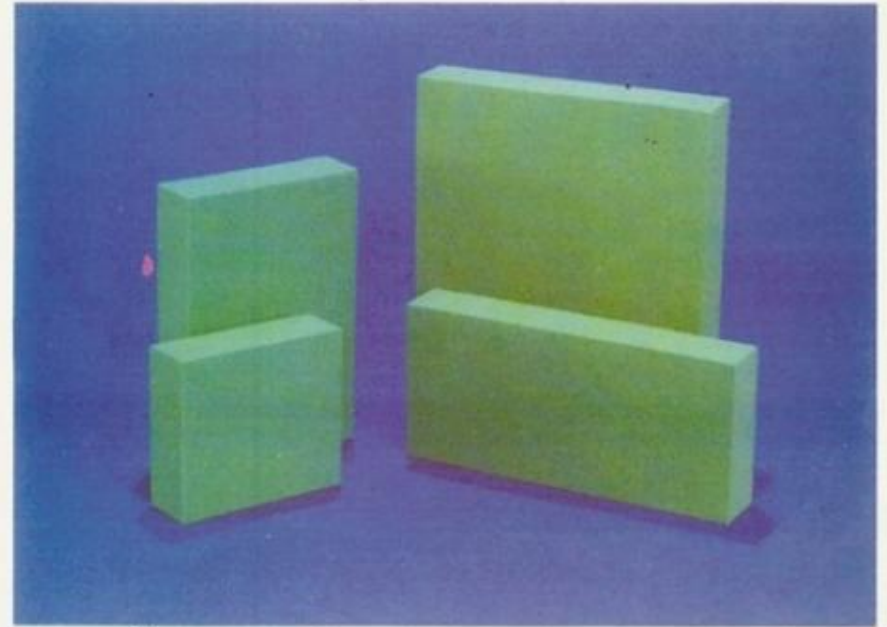
Alamdar Vapootherm Co., Ltd.
Foam For Natural Flowers



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.



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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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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 Anhydrite) 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



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HORDI POLYSTYRENE

TYPICAL PHYSICAL PROPERTIES OF EXPANDED POLYSTYRENE FOAM

Property	Standard	Unit					
Moulded density	DIN 53420 ASTM D 1622	Kg/m ³ lb/f ³	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	W/m. K	0.034	0.033	0.032	0.031	0.030
	ASTM C177-76 or ASTM C518-76	Btu.in/ft .h.°F	0.24	0.235	0.22	0.21	0.20
Compressive strength at 10% deflection	DIN 53421	kPa	70-115	100-160	140-210	180-255	225-305
	ASTM D1621-73	psi	10-14	13-18	15-21	25-33	38-43
Flexural strength	DIN 53423	kPa	170-220	240-300	325-400	410-490	490-590
	ASTM C203	psi	25-30	32-38	40-50	55-75	75-92
Tensile strength	DIN 18164	kPa	160-240	225-325	260-415	375-510	450-600
	ASTM D1623	psi	16-20	17-21	18-22	23-27	27-30
Shear strength	DIN 53427	kPa	95-120	120-150	150-190	190-220	220-250
	ASTM D732	psi	18-22	23-25	26-32	33-37	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 submerssion	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	85	85	85	85
		°C	75-80	80-85	80-85	80-85	80-85
Continuous service temperature in air		°C	-180+85	-180+85	-180+85	-180+85	-180+85
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.



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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

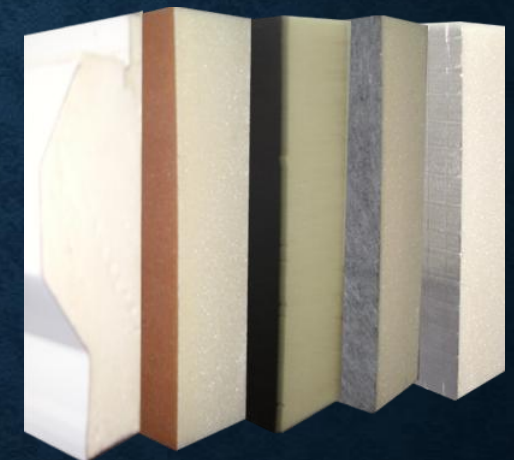
2- Strength, you can walk on it.

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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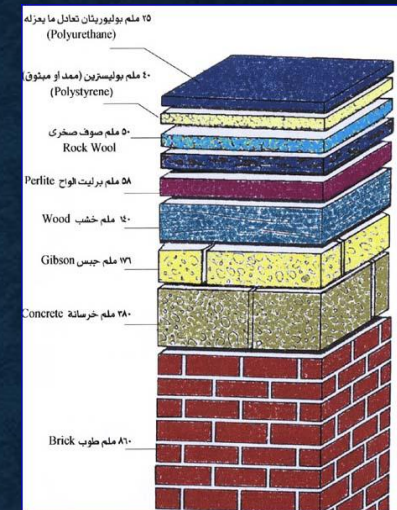


FAQ

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.

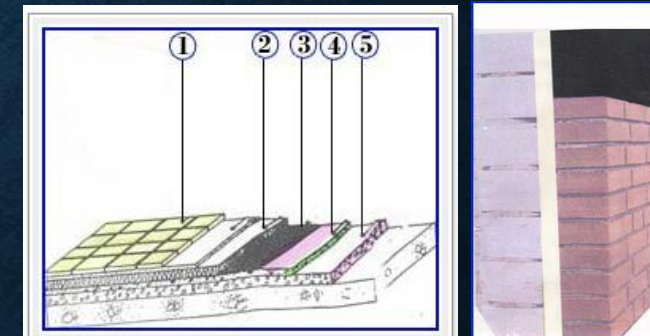


4- How To Fix Pipe Insulation?



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



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Gallery

Photos installation Of Thermal Insulation



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Gallery

Photos installation Of Thermal Insulation



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Approval

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19. JAN. 2012 12:05

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NO. 395 P. 1

المملكة العربية السعودية

الهيئة العامة للإسكان

الإدارة العامة للإشراف ومتابعة المشاريع

الرقم: ١٤٢

التاريخ: ١٤٢٢/٩/٤

المرفقات: ١

الموضوع: الموافقة على خطة العزل الحراري للأسقف
لمشروع إسكان صامطة بمنطقة جازان

(صورة)

المكرم/ دار المشاريع الهندسية للاستشارات الهندسية

الاستشاري المشرف على مشروع إسكان صامطة بمنطقة جازان

ص. ب. ٣٩٩١٤ الرياض: ١١٤٨٩ الهاتف: ٢٧٢٦٤٤٤ الفاكس: ٢٧٢٢٥٥٥

السلام عليكم ورحمة الله وبركاته

أشارة إلى خطابكم رقم ١٨٤٧/ص م/ ٢٠١١ وتاريخ ١٤٢٢/٣/٢٧هـ بشأن طلب موافقة الهيئة على اعتماد العزل الحراري للأسقف في مشروع الإسكان في صامطة.

وبعد الإطلاع ودراسة ما تضمنه خطابكم المشار إليه أعلاه من قبل المختصين في الهيئة ومطابقتها بالمواصفات المتعاقد مع المقاول بناءً عليها.

نفيدكم بموافقة الهيئة العامة للإسكان على اعتماد مورد ثاني لتوريد العزل الحراري للأسقف بألواح البوليسترين الرغوي المبثوق بسمك ٥ سم وكثافة ٣٥ كجم/م^٣ للأسقف والمنتجة من شركة علمدار فابوتيريم المحدودة.

على أن يتم مراعاة الآتي:

- ١- يلتزم المقاول بتوريد وتنفيذ طبقة العزل الحراري بكامل الدقة وبحسب تعليمات وتوجيهات الشركة المنتجة ومطابقاً للمواصفات الفنية وأصول الصناعة وجدول الكميات وتعليمات المهندس المشرف.
 - ٢- يلتزم المكتب الاستشاري بدقة الاستلام ومتابعة المراحل المختلفة أثناء عملية التنفيذ وإجراء الاختبارات الفنية اللازمة لذلك عند استلام كل مرحلة.
 - ٣- يتم تقديم عدد (٢) نموذج مجسم للاعتماد قبل بدء التنفيذ.
- نأمل إبلاغ المقاول بذلك علماً بأن موافقة الهيئة هذه لا تعفي أي من المقاول أو الاستشاري من التزاماتهم التعاقدية.

ولكم تحياتي

مساعدة المدير الفني
وقد وقع الأستاذ
المهندس / إبراهيم بن عبد الله الوهيبي

صورة لمكتب معالي المحافظ
صورة لمكتبها

صورة للإدارة العامة للإشراف ومتابعة المشاريع (المهندس/ أحمد العتيبي) الأساس

صورة بالفاكس للمهندس / أحمد ضاري ف. ٧٣١٣٥١١٥

صورة للمقاول ف. ٥٥٥٥٥٣

صورة للمبادر

صورة للاستشاري بالفاكس

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الرقم : ٢٨٧٥
التاريخ : ٢٠١٢/٧/٢٦
المرفقات : ١١٢٤٢



المملكة العربية السعودية

وزارة الإسكان

الإدارة العامة للإشراف ومتابعة المشاريع
مشاريع المقسطع الأيـمـط

الوحد : اعتماد شركة علمدار لمشروع إسكان عنيزة
بمنطقة القصيم .

المهندس مهسن / مكتب الرأي للاستشارات الهندسية
ص.ب : ٩١٥٤٨ الرياض : ١١٦٤٢ الهاتف : ٠١٤٥٠٩٦٩٨ الفاكس : ٠١٤٥٦٧٦٢٤
السلام عليكم ورحمة الله وبركاته ، ، ،

إشارة إلى خطابكم رقم (٦٥ ص ك / ٢٠١٢) وتاريخ ١٤٢٣/٧/١٤هـ بشأن اعتماد عينات العزل
الحراري للأسقف لمشروع إسكان عنيزة بمنطقة القصيم .
وبعد دراسة خطابكم ومرفقاته من قبل المختصين بالوزارة نفيدكم باعتماد شركة علمدار
غابوتيوم لتوريد الواح البوليسترين مع مراعاة الآتي :
١- السماكة لا تقل عن ٥ سم .
٢- الكثافة لا تقل عن ٣٥ كجم/م^٣ .
٣- التنفيذ طبقاً لأصول الصناعة وتعليمات الشركة المنتجة وتعليمات المهندس المشرف .
٤- شهادة مطابقة لما تم توريده موقعة من الفرقة التجارية .
٥- مراعاة المواصفات الفنية وجداول الكميات وتعليمات جهاز الإشراف وما ورد في خطاب إستشاري
المشروع .

ولكم تحياتي ، ، ،

المشرف على الإدارة العامة للإشراف

ومتابعة المشاريع

المهندس / عبدالله بن عواد العنزي

Approval

Ministry of Education Approval

SOLE AGENT:
Al-Alamdar Co. Ltd
Industry & Contrac
Head Office:
Saudi Arabia
Tel.: 479 2964 - 47
Fax: 478 1990
Mobile: 0504127382 - 0503299751 - 0551286544
P.O. Box 1428 Riyadh 11431
Web Site : www.alamdar.com.sa
E-mail: mohd5000@hotmail.com - shir5000@yahoo.com

250 MIC
اعتماد بولي ايثلين (عسار)

وزارة التربية والتعليم
وكالة الوزارة للمباني
الإدارة العامة للتربية والتعليم بمنطقة الشرقية (بنين)
إدارة شؤون المباني
عينة ملصقة على بولي ايثلين مت (مكررة)
نموذج اعتماد عينة "عسار"
(العينة معتمدة)

بفحص العينة المقدمة ومطابقتها بنص المواصفات الفنية والمخططات والتفاصيل وجدت انها
مطابقة ، وعليه تعتمد لمشروع تفت له المصانع جتات بالغبية بتدات
بالقربة العليا دجج النزع العلوي عينة النور المتوسطة عينة جوهرة الجيد
(مع مراعاة التقيد بما ذكر بخطط الاعتماد من تفصيلات وتوصيات)

اعضاء لجنة الفحص
الختم الرسمي
مدير ادارة شؤون المباني
م / سلام محمد سعيد العسليم

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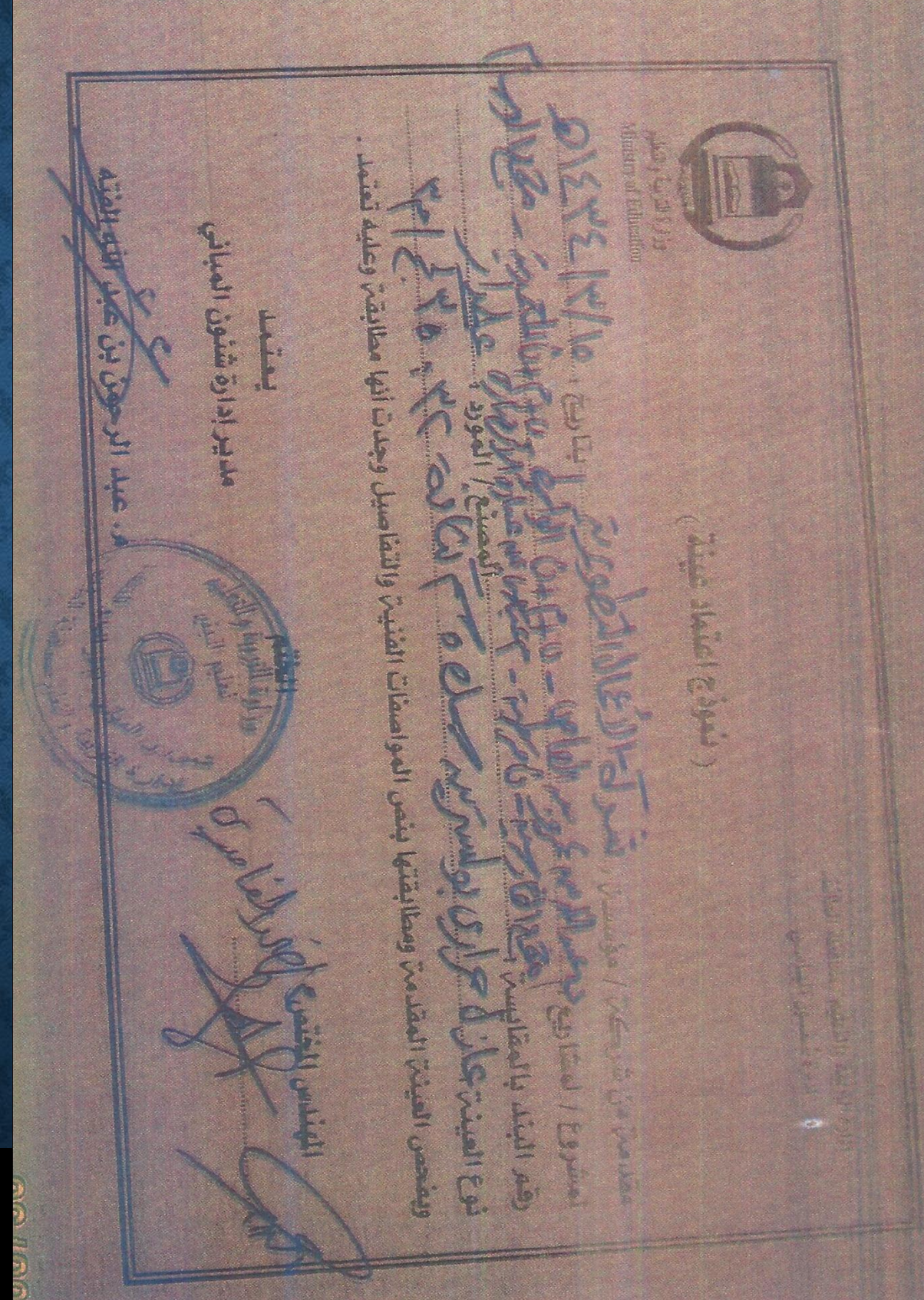
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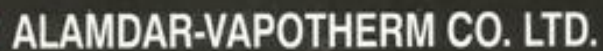
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Ministry of Social Affairs Approval



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١ : (بما) النموذج بالكمبيوتر **بالأكريليك** من قبل المراقول
 ٢ : يرقع مع النموذج صورة شهادات إجازة من للمقاول بشاريع بمختلفه
 ٣ : لا يستعمل النموذج من المقاول حتى يتم إستيعاب كافة البيانات والمراقبة وتطابق مع متطلبات المشروع التعاقدية قبل الرفع للوزارة
 ٤ : لا يترتب على هذا الإعتماد أي إستعانة قانونية على الوزارة تجاه مقبول الباطن.


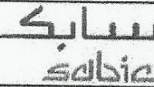



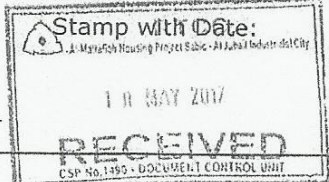
Approval

**SABIC
Approval**






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 RTCC		SABIC AL-MATRAFAH SECONDARY INFRASTRUCTURE AND HOUSING PROJECT		
DOCUMENT TRANSMITTAL				
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:		
				
				

Approval

**SABIC
Approval**

 SABIC AL-MATRAFAH 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/initials & returning a copy of this Transmittal)			
Name:	Signature:	Stamp with Date:	
			

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شركة علمدار فابوتيرم المحدودة

متخصصون في إنتاج العوازل الحرارية بجميع أنواعها

ALAMDAR
VAPOTHERM




Approval

SABIC Approval



ALAMDAR-VAPOTHERM CO. LTD.

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 SABIC AL-MATRAFAH 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 DYWIDAG			
Discipline	CIVIL		
Sl. No.	Document/Drawings No.	PMT Comments	Comments by
1	MATERIAL APPROVAL REQUEST FOR THERMAL INSULATION FROM ALAMDAR-VAPOTHERM CO. LTD. C/O QANBAR DYWIDAG	APPROVED	MHM
		CONTRACTOR reply	1 + 1
			*PMT ACCEPTANCE Code
Masroor Hussain		Lead QA/QC	

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



REVIEW / COMMENT SHEET

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 Pccast Works in House Construction Package 2 (Option 1: Alamdar Polyisocyanurate Boards -50mm thk 35kg/ m3) (Option 2: Sabtex Polyisocyanurate Insulation -50mm thk 35kg/ m3)					
Discipline	CIVIL	Page	1+1			
EMPLOYER Action Lead:	Khurshid Alam	CONTRACTOR Resolution Lead:				
Sl. No.	Document/Drawings	Employer Comments	Comments by	Contractor reply	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.						

RCS - to RTC

1. Approved. 2.Approved with Comments. 3. Re-submit. 4. Not Approved

1 of 1
RCS to RTC - 2

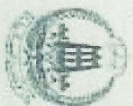
Approval

SABIC Approval

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS



INSTRUCTION OF HOSPITAL, @ KING FAYSAL NAVAL BASE, JEDDAH

نموذج الرسالة
TRANSMITTAL FORM

DATE: 11/11/2015
CONTRACT NO. 3/3/436
SPECIFICATION SEC. NO.

1. Taweeel For Contracting Co Ltd
A - Thermal Insulation - M7-13

RE-SUBMITTAL
☒ NEW SUBMITTAL

FOR APPROVAL OF THE FOLLOWING ITEMS:

☐ SHOP DWG ☐ CERTIFICATES ☐ EQUIP DATA ☐ DESIGN
☒ MATERIAL ☐ AS-BUILT DWG ☒ SAMPLES ☐ OTHERS

DESCRIPTION OF ITEM SUBMITTED	NO. OF COPIES	MANUFACTURER OR CONTRACTOR CATALOGUE ADDRESS & TEL. NO.	SPEC PARA NO.	DRAWING SHEET NO.	SIGNATURE OF REVIEWER	ACTION CODE
Thermal Insulation	2	ALAMDAR				B
Vapotherm Co.						B

ACTION FOR WORKS & ROOF CONFORM
with specs. depth, insulation
material and thickness of specific
as per shown in contract drawings.

Confirm that the above submitted items have been reviewed in detail and are correct and in full compliance with the requirements of the contract except as otherwise stated hereon.

NAME, SIGNATURE AND STAMP OF CONTRACTOR
#Moh. B. P. 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 refer to attach sheet re - submission required.
rate correspondence. E=disapproved see attach sheet. F=see comments on attached. G=returned without action see attach sheet

MS DOES NOT RELIEVE CONTRACTOR COMPL. WITH ALL THE REQUIREMENTS OF THE CONTRACT & SPECIFICATIONS.

Approval

Ministry of Defense
Approval

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

Approval

Ministry of Interior Approval

٤/٤٣/١

الرقم ٢٨٤٩ /

التاريخ ١١/١١/١٤٣٠ هـ

التوايح (٧) صفحات

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الملك عبدالعزيز آل سعود
وزارة الداخلية
(٢٧٢)

مركز المشروعات التطويرية

الموضوع: اعتماد تأهيل شركة علمدار.

السادة / مكتب دار الهندسة (شاعر ومشاركوه)
السادة / مكتب الخدمات الاستشارية (سعود كونسلت)
السادة / شركة الإتحاد الهندسي (خطيب وعلمي)

السلام عليكم ورحمة الله وبركاته

الإشارة: خطاب دار الهندسة رقم GEN-١٢٧٧ وتاريخ ١٤/١١/١٤٣٠ هـ.
الإفادة: اعتماد الشركة أعلاه كوكيل لمصنع قطر للمواد العازلة (العزل الحراري) ضمن قائمة الموردين لدى المركز.
المطلوب: الإطلاع وإكمال اللازم.

ولكم خيانتنا،،

مساعد مدير إدارة الإشراف

م/ عبد اللطيف بن سعد الصفيان



ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

Approval

Ministry of Health Approval

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM 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 للمشروعات
إدارة الإشراف على التنفيذ

الرقم: ٤٨١٦٧ / ٤٠١ التاريخ ١١ / ٤ / ١٤١٤ هـ المشفوعات: ملف غانيز

الموضوع: تأهيل منتجات شركة العمدار للتجارة والصناعة

المحترمين

السادة/شركة العمدار للتجارة والصناعة

ت: ٤٧٤٩٨٠٣ ف: ٠١ ٤٧٨١٩٩٠ ص.ب ١٤٢٨ الرياض ١١٤٣١

السلام عليكم ورحمة الله وبركاته...

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

ونفيدكم بأنه تم الإطلاع على ملف المنتج ويمكنكم تقديم منتجاتكم لمقاولي مشاريع الوزارة في حال مطابقتها لمواصفات الوزارة.

مع خالص التحية ولتقدير...

مدير إدارة الإشراف على التنفيذ

المهندس/عبد المنعم بن محمد المحسن

وزارة الصحة
Ministry of Health

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

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

مطابع صحة الشرقية ١٥-٧-١٠١

Approval

General Organization Technical and Vocational Training

KINGDOM OF SAUDI ARABIA
Technical and Vocational Training Corporation
لجنة العيّنات



المملكة العربية السعودية
مؤسسة العامة للتدريب التقني والمهني
الإدارة العامة للمشروعات والصيانة

المشروعات :

التاريخ : ١٤ / / ١٤٠٤ هـ

رقم :

اعتماد عيّنات

اسم المشروع : استكمال معهد التدريب المهني بالجوف

المادة المقدمة : العزل الحراري للأسطح من النوع المبثوق المقفل المسام سمك ٥ سم

اسم المورد/المصنع : شركة علمدار

المكرممين / مكتب الركن للاستشارات الهندسية

المحترمين

فاكس : ٤٦٢٤٩٣٣

الرياض : ١١٤٨٤

ص ب : ١٧٣٥٧

بتاريخ ١٤٣٠/٨/٢٧ هـ

بالإشارة إلى خطابكم رقم (٢٠٠٩/١٦٣٥)

بخصوص تقديمكم المواد أعلاه

نفيدكم بالتالي :

لامانع من اعتماد شركة علمدار لتوريد العزل الحراري من البوليسترين المقفل المسام من النوع

المبثوق سمك ٥ سم للأسطح كثافة ٣٥ كجم / م^٣ طبقا للعيّنة المقدمة والمعتمدة مع ضرورة

الالتزام بالمواصفات والمخططات وجداول الكميات وأصول الصناعة في التنفيذ وضرورة تقديم

نموذج كامل لأعمال العزل للأسطح موضح به الطبقات والمواد المستخدمة .

وتقبلوا تحياتي ، ، ،

مساعد المدير العام للمشروعات والصيانة

عبد العزيز بن محمد العنقري

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

Approval

Ministry of Housing Approvals

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

الرقم : ٨٠ ص ك / ٢٠١٢

التاريخ : ١٠ / ٨ / ١٤٣٣ هـ

سلمه الله

المحترمين

صورة مع التحية لمساعدة المشرف على الإدارة العامة للإشراف ومتابعة المشاريع
السادة / شركة الخرجي للتجارة والمقاولات

السلام عليكم ورحمة الله وبركاته

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

إشارة إلى خطاب الوزارة الوارد إلينا رقم (٣٨٧٥) وتاريخ ٢٦ / ٧ / ١٤٣٣ هـ (مرفق صورة) والمتضمن
اعتماد عينات العزل الحراري لمشروع إسكان عنيزة بمنطقة القصيم .

نفيدكم باعتماد شركة (عمدة فابتيوم) لتوريد ألواح البوليسترين كعازل حراري على أن يراعي الالتزام
بالملاحظات المذكورة في خطاب الوزارة والالتزام بالمواصفات الفنية وجدول 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

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 01:14 2016/٢
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,
6000002548	INSULATION; PIPE; POLYURETHANE/POLYISOCY
6000002547	BOARD; INSULATION; THERMAL; POLYURETHANE

Best Regards,

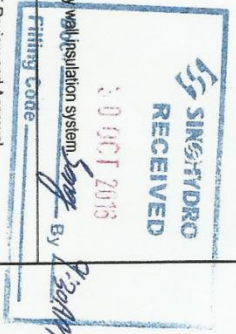
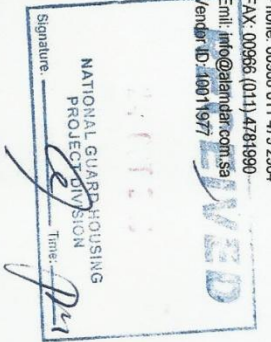
Sultan Al Zahrani

Supplier Registration & Qualification Unit
Industrial Development & strategic supply Department
Dhahran | 31311 | Saudi Arabia

Tel: +966 874 0522

سعودي أرامكو
Saudi Aramco



To: MOHAMMED G. AL-SHEHRI Company Representative SKPD/RPSC & NGHPD Rm. 18, Bldg. 101 Aramco Office, Thuwal Jeddah, Saudi Arabia Attn: Mr. Mohammed G. Al-Shehri Sr. Project Engineer From: Branch of SinoHydro Corporation Company Ltd. P.O. Box 65689, Riyadh, 12311, Kingdom of Saudi Arabia Tel: +966 11 803 0338 Fax: +966 11 462 2565		B.I. No. : 25-00034-0004 Contract No. : 6600037267 Project Title : National Guard Family Compound (Central Spine) Location : Thuwal-Jeddah, Kingdom of Saudi Arabia		No. of Copy : 3 Spec. Ref. : Section 07210 Div. & Sec. No. : Part 2 Drawing Ref. : N/A App. Standard SAMSSINSP : N/A		Submittal Code A <input type="checkbox"/> Architectural C <input checked="" type="checkbox"/> Civil S <input type="checkbox"/> Structural M <input type="checkbox"/> Mechanical E <input type="checkbox"/> Electrical I <input type="checkbox"/> Telecommunication O <input type="checkbox"/> Others	
New Submittal <input checked="" type="checkbox"/> Re-submittal <input type="checkbox"/>	Reference Submittal No. RTA-C3-C-MS-528	Rev. No. 0	Date 24/10/2016	Internal Reference No.		Inspection Level NI	
Brief Description BOARD: INSULATION: THERMAL: POLYURETHANE Polyisocyanurate insulation board with coated glass fiber mat facer.		9COM 60000002347	LOCAL VENDOR REF. ADDRESS & I.D. NO. MTR. NAME / PLANT I.D. NO. ALAMDAR VAPOTHERM COMPANY LIMITED Address: KING ABDEL AZIZ ROAD, P.O. Box: 1428, RIYADH- 11431, Saudi Arabia Phone: 00966 011 479 2964 FAX: 00966 (011) 4781990 E-mail: info@alamdarc.com.sa Vendor ID: 1001197				
Application: Materials to be used for cavity wall insulation system. By: <i>[Signature]</i> Fitting Code: _____ For SAPMT Review and Approval		 		(For Saudi Aramco Use Only) Review/Comments/Approval/Action DEFER TO IFC FOR THICKNESS REQUIRED			
Prepared by: <i>[Signature]</i> Mr. M. Sakhawati Hossain Discipline Engineer		Reviewed by: <i>[Signature]</i> Mr. Saqib Hameed Procurement Quality Control Supervisor		Approved by: <i>[Signature]</i> Mr. Zhao Jianlin Contractor Representative		Approval is only for general conformance with the contract documents. Such review does not relieve contractor for its responsibility under the terms of contract for not authorized additional compensation. <input type="checkbox"/> No Objection <input checked="" type="checkbox"/> No Objection as Noted <input type="checkbox"/> Correct & Resubmit <input type="checkbox"/> Rejected	
Date: 24/10/2016		Date: 2016.10.24		Date: 2016.10.24			
Reviewed by: <i>[Signature]</i> Mr. Hussam Akhtaq PMT Material Specialist		Reviewed by: <i>[Signature]</i> Mr. Mohammed G. Al-Shehri Sr. Project Engineer/SAPMT		Date: 10/25/16		Date: 10/24/16	

OP-05/F-4-37267

Approval

Aramco Approval SinoHydro Company

 ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.
SPECIALIZED IN ALL INSULATION MATERIALS

Approval

Aramco Approval
AL Yamama Company



ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

		SAUDI ARAMCO JAZAN - ISFB PROJECT CONTRACT NO.: 6600036947 B.I. NO.: BI-10-01055-0006			
TO : Saudi Aramco - Jazan ISFB Project ATTN : Mr. Murad M. Layer / 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/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 B : APPROVED WITH MINOR COMMENT R : APPROVED WITH COMMENTS N : NOT ACCEPTABLE / REJECTED F : ACKNOWLEDGED R/R : REVISE & RESUBMIT I/F : FOR INFORMATION / ACTION 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	R	
SA REMARKS: - Material Specifications must be in compliance with GEN-EC04, Section 07210 - ALAMDAR Polyisocyanurate board must meet the R13 requirement and contract document thickness requirements. 5/1/17					





CHINA RAILWAY CONSTRUCTION CORPORATION LTD

REQUEST FOR TECHNICAL APPROVAL

البرقاني ٩٥٥١١
Saudi Aramco



CR-1442 X117

TO: Name: Mr. Tawfiq A. Al-Abdulhadi Position: Project Manager Department KAPSARC & Community Project Dept. Location: AlKhobar, KSA		Project Title EXPAND DHAHRAN RESIDENTIAL COMMUNITY: RESIDENTIAL AREA - PACKAGE 4 DHAHRAN, KSA Location Contract No. 6600034661 BI No. JO-10-013820-0006		SA ENGINEERING STANDARDS A A C X S CIVIL M STRUCTURAL E PIPING/MECHANICAL O ELECTRICAL, HVAC Others INSTRUMENTATION		SUBMITTAL CODE A X C CIVIL S STRUCTURAL M PIPING/MECHANICAL E ELECTRICAL, HVAC O INSTRUMENTATION Others									
ATTN: Name: Mr. Mohammad A. Al-Ajaji Position: Sr. Project Engineer		MATERIAL DESCRIPTION RTA FOR POLYISOCYANURATE INSULATION		SA ENGINEERING PROCEDURES N/A		SA MATERIALS SPECIFICATION SYSTEM N/A									
FROM: Company: China Railway Construction Corporation Address: P.O. Box 112634 Jeddah - 21371 Tel/Fax No: E-mail: Zhang Ning@crcc.com.cn		CRCC-RTA-007-020 Rev. 1		DATA SHEETS / ISS Attached		SA MATERIALS SPECIFICATION SYSTEM N/A									
NEW SUBMITTAL RESUBMITTAL		REF. SUBMITTAL NO. CRCC-RTA-007-020		Rev. No. 1		FORM SA-175		NMR FORM		INSPECTION LEVEL "NOT INSPECTABLE"					
SI #		Material Description		9COM CCC		MANUFACTURER NAME		SAUDI P.O. NO.		FORM SA-175		NMR FORM		INSPECTION LEVEL "NOT INSPECTABLE"	
POLYISOCYANURATE INSULATION		6000002547		ALAMDAR-VAPOTHERM COLTD		ISAM KABBANI & PARTNERS (UNITECH) VID# 10013026		SAUDI P.O. NO.		FORM SA-175		NMR FORM		INSPECTION LEVEL "NOT INSPECTABLE"	
AS PER ATTACHED BOQ						ALAMDAR-VAPOTHERM COLTD VID# 10011977				FORM SA-175		NMR FORM		INSPECTION LEVEL "NOT INSPECTABLE"	
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Material Engineer		Project QA Manager		Project Manager		Project Manager		Project Manager		Project Manager		Project Manager		Project Manager	
Name: Honglei		Name: Saleh M Al-Qahani		Name: Sun Shangxing		Name: Sun Shangxing		Name: Sun Shangxing		Name: Sun Shangxing		Name: Sun Shangxing		Name: Sun Shangxing	
Date:		Date: 24/11/16		Date: 24/11/16		Date: 24/11/16		Date: 24/11/16		Date: 24/11/16		Date: 24/11/16		Date: 24/11/16	

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

NO OBJECTION ☒ NO OBJECTION AS NOTED ☐
CORRECT & RESUBMIT ☐ REJECTED ☐

28 APR 2016

Approval

Aramco Approval
China Railway Company

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

Approval

Aramco Approval Khonaini International



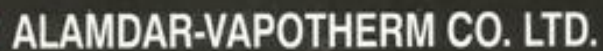
ALAMDAR-VAPOTHERM CO. LTD.

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:	YUSEF 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:	Yusef Al. Ali
Date:	16-Oct-16	Date:	16 Oct. 2016
Signature:		Signature:	

Saudi Aramco: Company General Use

Ministry of Higher Education Approval



SPECIALIZED IN ALL INSULATION MATERIALS

[illegible]

Approval

Alehsa University Approval

ALAMDAR
VAPOTHERM

ALAMDAR-VAPOTHERM CO. LTD.

SPECIALIZED IN ALL INSULATION MATERIALS

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					Phone: 4792964 Fax: 4770987				
Information submitted and attached:									
<input type="checkbox"/> Recent Test Result					<input type="checkbox"/> Comparison Sheet				
<input type="checkbox"/> Technical Brochure					<input type="checkbox"/> Samples				
<input type="checkbox"/> Manufacturer's Data & Specs.					<input type="checkbox"/> Catalog				
<input type="checkbox"/> Shop Drawings					<input type="checkbox"/> Compliance Sheet				
(Contractor) Engr. Awni					Engr. Moh'd. Al Bustanji				
Discipline Eng.					P.M.				
Date					24-July-2010				
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 ⑤ 2 DWR TA-9A & B.O.Q. item 9/7/1 & 8/7/3									
+ for wall → approved T.B. AR-DS9									
Consultant					See Attachment <input type="checkbox"/>				
Discipline Eng.					P.M.				
Date					26/07/10				
FOR FURTHER ACTION BY									
ZFP/PM					KFU				
<input checked="" type="checkbox"/> For Information <input type="checkbox"/> For Approval					<input checked="" type="checkbox"/> For Information <input type="checkbox"/> For Approval				
COMMITTEE'S COMMENT									
RE 26 JUL 2010									
COMMITTEE'S DECISION									
<input type="checkbox"/> Approved					<input checked="" type="checkbox"/> Approved as noted				
<input type="checkbox"/> Revise and submit					<input checked="" type="checkbox"/> Rejected				
ZFP/PM					KFU				
Discipline Eng.					Dep. Coordinator				
C.M.					Campus Coordinator				
P.M.									
To: MMHE									
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 24/7/10									

Approval

Al-Jouf University Approval

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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

KINGDOM OF SAUDI ARABIA
SAUDI ARABIAN STANDARDS ORGANIZATION

GENERAL LABORATORY DEPT.

المملكة العربية السعودية
الهيئة العربية السعودية للمواصفات والمقاييس
الإدارة العامة للمختبرات

رقم الصفحة: ١/١

سري

رقم الخطب
تاريخ الخطب
بنون
١٤٣٠-٠٧-٥

رقم التقرير
تاريخ التقرير
نوع العينة
مصدر العينة
رقم بيان الاستيراد
٠٩/٠١/٠٣/٠٠١/٠١٠٩٤
١٤٣٠-٠٨-١٤
عازل حراري من البوليسترين المبثوق
شركة العمدار للتجارة والصناعة والمقاولات
بنون

البيانات الإيضاحية

البيان	الوصف
نوع العينة	عازل بوليسترين مبثوق
الصانع	شركة العمدار للتجارة والصناعة والمقاولات
اللون	أزرق فاتح
عدد العينات	١
السمك	٥٠ مم
بلد المنشأ	المملكة العربية السعودية
المصدر	صاحب العلاقة

الاختبارات

مسلّم	اسم الاختبار	النتيجة	المراجع
١	اختبار الكثافة (كجم/م³)	٣٤,٠	٠١-٥٧٨C ASTM
٢	مقاومة الإنضغاط (كيلو باسكال)	٤١٨,٠	٠١-٥٧٨C ASTM
٣	نسبة حجم امتصاص الماء %	٠,١٥	٩٩-١٥٥٥ SASO
٤	التوصيل الحراري (وات/م.كلفن)	٠,٠٢٨	٩٩-١٥٥٥ SASO
٥	نسبة تغير الأبعاد %	٠,٢٠	٠١-٥٧٨C ASTM
٦	نسبة زمن الإنضغاط %	٤,٥	٩٩-١٥٥٥ SASO
٧	نفاذية بخار الماء (بيرم/بوصة)	٠,٥٦	٠١-٥٧٨C ASTM

المنقشة بدون.

سفير مختبر المواد العازلة
م. أحمد بن إبراهيم الديان



اسم الفني المختص
سعد بن يحيى الشريف

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 - برقية: قياسي - تليكس ٤٠٤٦١٠ - تقييس م.ع - فاكس: ٤٤٨٩٢٣٥ - هاتف ٤٤٨٩٣٦٩
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AL HOTY - STANGER



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XPS SHEET

SUMMARY OF RESULTS

Date: 12/12/2016

Ref. No: 15/2239

Report No: PM16T354

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

Test Method Variation: None

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

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 - Hofuf P.O. Box 2752 - Tel: (013) 586-3210 Fax: (013) 587-1420 - Riyadh P.O. Box 7359 - Tel: (011) 478-4292 Fax: (011) 479-2056

Jeddah P.O. Box 8129 - Tel: (012) 660-1924 Fax: (012) 665-6742 - Yanbu P.O. Box 30312 - Tel: (041) 220-5405 Fax: (041) 220-5406

Test certificate

POLYISOCYANURATE Test Certificate Density 50

KINGDOM OF SAUDI ARABIA
SAUDI ARABIAN STANDARDS ORGANIZATION

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المملكة العربية السعودية
الهيئة العربية السعودية للمواصفات والمقاييس
الإدارة العامة للمختبرات

(سري)

بالإشارة الى : خطاب العينة
رقم : بدون تاريخ : بدون
مصدر العينة : شركة علمدار

رقم التقرير : ٦ / ٠٣ / ٠٥ / ٢١١٠
التاريخ : ١٤١٩ / ٠٣ / ٠٤
نوع العينة : عازل حراري

الفحص الظاهري :

نوع العينة	بولي ايسوساينوريك	مظهر العينة	ورق بيتومين من الجانبين
الصانع	شركة علمدار	رقم العينة	٤
حجم العينة	٥٠ * ٥٠ سم		

الاختبارات

اسم الاختبار	النتيجة	المراجع
١ الكثافة (كجم/م ^٣)	٥٠,٠٤	ASTM C1013-1985
٢ مقاومة الضغط (كجم/سم ^٢)	٢,٥٦	HH-I-1972/2-1991
٣ امتصاص الماء (حجم %)	١,٢٠	
٤ انتقال بخار الماء (لكل انش)	١,٢٥	
٥ شتات الأبعاد (٧٠ س ، ٩٥ ، ١٧ أيام)	١,١٥	
٦ محتوى الخلطة المخلقة	٩٨	
٧ الاشتعال (ملم)	٣,٠	
٨ العزل الحراري (عند ٢٤ س ، وات/متر كالفن)	٠,٢١	

مدير مختبر ضبط الجودة
عبد العزيز بن عبد الله الهيدان

خالد بن عبد الله الحربي

رئيس مختبر المواد 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 - برقياً : قباني - تليكس ٤٠٤٦١٠ - تقييس س ع - فاكس : ٤٤٨٩٢٣٥ - هاتف ٤٤٨٩٣٦٩
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POLYISOCYANURATE Test Certificate Density 35

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المملكة العربية السعودية
الهيئة العربية السعودية للمواصفات والمقاييس
الإدارة العامة للمختبرات

(سري)

بالإشارة الى : خطاب العينة
رقم : بدون
تاريخ : بدون
مصدر العينة : شركة علمدار

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

الفحص الظاهري :

نوع العينة	بولي ايسوساينوريث	مظهر العينة	ورق بيثومين من الجانبين
المانع	شركة علمدار	رقم العينة	٣
حجم العينة	٥٠ * ٥٠ سم		

الاختبارات

اسم الاختبار	النتيجة	المراجع
١ الكشافة (كجم / م ^٣)	٣٤,٩٢	ASTM C1013-1985
٢ مقاومة الضغط (كجم / سم ^٢)	٢,١٠	HH-I-1972/2-1991
٣ امتصاص الماء (حجم %)	١,٢٥	
٤ انتقال بخار الماء (لكل انش)	١,٤٥	
٥ شبات الابعاد (٧٠ س ، ٩٥ ، ١٧٠)	١,٣٠	
٦ محتوى الخلطة المغلفة	٩٦	
٧ الاشتعال (ملم)	٤,٠	
٨ العزل الحراري (عند ٢٤ س ، وات / متر كالفن)	٠,٠٢٣	

مدير مختبر ضبط الجودة
عبدالله بن عبد الله الحربي
خالد بن عبد الله الحربي

رئيس مختبر المواد العامة
عبدالله 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 - بريقاً : قياسي - تليكس ٤٠٤٦١٠ تقييس سرع - فاكس : ٤٤٨٩٢٣٥ - هاتف ٤٤٨٩٣٦٩
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تقرير اختبار



الهيئة السعودية للمواصفات والمقاييس والجودة
Saudi Standards, Metrology and Quality Org.

2016/04/04 - 1437/06/26	:	تاريخ ادخال العينة	GDL-GM-4442	:	رقم الطلب
2016/04/10 - 1437/07/03	:	تاريخ البداية	10378	:	رقم العينة
2016/04/11 -	:	تاريخ الاكتمال	شركة علمدار فابوتيرم المحدودة	:	العميل
مختبر المواد العامة	:	مختبر	Toys	:	الموقع
علامة الجودة	:	الغرض من الاختبار	عازل	:	نوع العينة
Toys	:	القسم	عازل ايزوسينات	:	المنتج
شركة علمدار فابوتيرم	:	الصنع	1	:	عدد الحاديات
SAUDI ARABIA	:	بلد المنشأ	بدون	:	رقم الخطاب الوارد
24	:	الخصائص درجة حرارة	مغطى بقصدير	:	تصنيف القطع B.C.D
الظروف العادية	:	الظروف البيئية	مغطى بقصدير	:	نوع العيار

طرق الاختبار	النتيجة	الاختبارات	م
BS EN 13051	PASS	مقاومة الحريق	1
BS EN 13051	20 mm	انتشار اللهب	2

المنافسة :
بدون



مدير عام المختبرات

عبدالعزیز ابراهيم الاحيدب

مدير المختبر

عبدالعزیز ناصر الصالح

مشرف الوحدة

سامي بن صالح المسعيد

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

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.

POLYISOCYANURATE Test Certificate

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Arab Center
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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

2 CH FP

ACES
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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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Mob: 00966 504127382 – 503299751 – 551286544

Email: info@alamdar.com.sa
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