



**STYRENE  
INSULATION  
INDUSTRY**

Manufacturer of Insolite  
Established 1995



**AL REYAMI GROUP**

*What's Different is Growth*

# Insolite





## DIRECTOR MESSAGE:-

Insolite, the flagship product of SII has proved to be a revolutionary breakthrough in thermal insulation. Insolite has since its launch made a remarkable contribution by helping in conservation of energy and boosting efficiency.

SII manufactures Expanded Polystyrene in varied densities and size for various insulation purposes like: roofs, walls, floors, deep freeze rooms, cold display cabinets, refrigeration vehicles, prefabricated houses, partitions, hot & cold water lines, sound insulation, moulded pipe insulation for air conditioning, expansion joint, Hourdis and void formers, packaging and boxes. Apart from this, Insolite can be used for making decorative display models also.

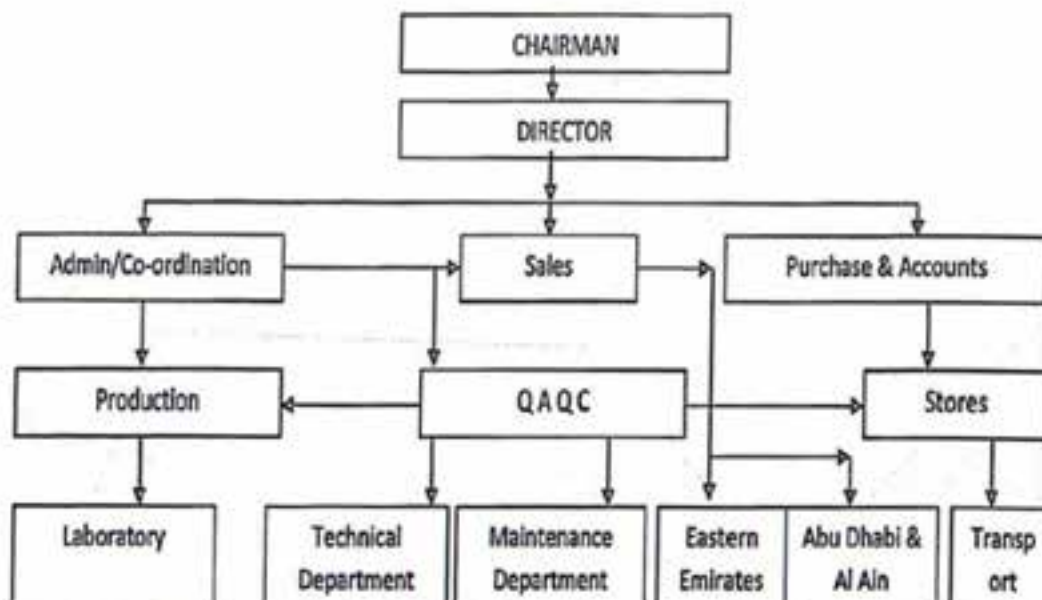


## OUR QUALITY POLICY

We at Styrene Insulation Industry are committed to continually improve our processes to maintain high quality standards for enhancing our customer satisfaction by delivering high quality Polystyrene Products that meet statutory requirements and setting new standards to give the industry a new outlook with our revolutionary insulation products.

We shall constantly strive to improve our facility and skills to meet customer requirements on time every time.

## ORGANIZATION CHART OF THE COMPANY







## Introduction

The harsh Gulf climate makes energy conservation through insulation vital. Expanded Polystyrene products offer superior thermal insulation and are used in a wide range of applications.

Styrene Insulation Industry (SII) started producing Expanded Polystyrene (EPS) Injection and Block Moulded Polystyrene under the brand name Insoite was established 1995. Its state-of-the-art factory in Abu Dhabi is manned by a technically trained team of 100 employees, and managed by a group of experts.

### Better Energy Conservation with High Quality Insulation

Insoite is a revolutionary product that conserves energy and boosts efficiency. It is manufactured in a variety of sizes and densities to be used for a range of insulation purposes including roofs, walls, floors, cold stores, prefabricated houses, hot and cold water lines, expansion joint, Haurdis and void formers etc.

We Believe In ...  
Quality, Commitment, Professionalism and Customer Satisfaction.

# What do we do

## What is EPS

Expanded Polystyrene is a German invented insulation material which is light weight, has good mechanical strength, low water absorption properties, and is resistant to most chemical and micro-organism attack.

Manufacturing process of Insolute Expanded Polystyrene. Styropore is converted into blocks and moulded parts in three stages: Pre-expansion, Intermediate ageing and Moulding.

### Pre-expansion

The raw material is heated with steam in foaming units to  $80^{\circ}\text{C}$  –  $110^{\circ}\text{C}$ . The apparent density drops from around  $630\text{Kg}/\text{M}^3$  ( $39\text{pcf}$ ) to around  $10\text{ Kg}/\text{M}^3$  ( $0.625\text{ pcf}$ ). To make packages and other types of mouldings Styropore is re-expanded to  $18\text{-}30\text{Kg}/\text{M}^3$  ( $1.12 - 1.87\text{pcf}$ ).

Prefoaming converts the compact Styropor beads into foam beads with small closed cells.

### Intermediate Aging

As the foamed particles cool, blowing agent and steam condense inside the cells producing a vacuum which should be equalized by air diffusing into the cells. This imparts greater mechanical stability to the beads, as well as additional foaming power. This process takes place in ventilated silos where the beads also dry.

### Moulding

The cavity of the foaming mould is filled pneumatically with pre-foamed material. Steam is used to soften and expand the beads which are compressed and forced against the mould wall until they fuse. The resultant block is cooled by spraying water and applying a vacuum.

This technique can be used to make large blocks, boards or mouldings of almost any shape or size.







# Environmentally Friendly



## CFC Free

Application of Insolite for Inverted Membrane Roofs  
High compressive strength and low water absorption make Insolite panels ideal for the thermal insulation of inverted membrane roofs. They can be covered with a concrete slab to enable adequate ballasting and protection from U.V. radiation, rain and storms.

## Description

An Insolite panel is made from closed-cell Polystyrene through the injection process. Individual panels have a density of 32-35Kg/M<sup>3</sup>, 38-44Kg/M<sup>3</sup>. Panels are 1000 x 500 mm thick with 25 - 100 mm peripheral step.



## Resistance to Chemicals and Outdoor Exposure

Insolite panels are resistant to chemicals, solvents and aging like the Polystyrene from which it is derived. Additionally, they are immune to water and aqueous solutions of salts, most acids, and alkalis. Bonding the panel with emulsion, contact adhesive and bitumen will not affect its physical properties.

## Installation

Insolite panels can be worked with conventional wood working tools. They can be bound together with hot bitumen and dispersion-type structural or special adhesives. Instructions for use and safety precautions relating to the adhesives must be observed.

## Stability

Unlike other insulation panels, Insolite is stable in high temperatures and does not warp.





# What products do we have

## Insolite Block Inserts

Insolite Block Inserts are manufactured by an injection process in a mould. Insolite block Inserts can be manufactured in various densities and with different style such as Plain Inserts, Inserts with "U" groove, Inserts with "V" groove on both sides and Inserts with "U" and "V" groove as per client's requirement. Insolite Block Inserts are available in the following sizes:



### Available Standard Size:

- 400 X 200 X 60 mm
- 400 x 200 x 160mm
- 412 x 200 x 160mm
- 412 x 200 x 100mm
- 400 x 200 x 110mm

Insolite is manufactured from high quality fire retardant /non fire retardant raw material (as per requirement)

### Advantages of Insolite Board:

- Very high Thermal Insulation property
- Very high compressive strength
- No chemical or side effect
- CFC Free & ECO Friendly
- Zero ODP & GWP <5
- Light weight
- No absorption of water & humidity
- In case of combustion does not result in toxic gases
- Easy to transport & install
- It does not lose insulation property
- Very high durability
- Fire resistance

### Standards:

- The physical & Technical properties are tested to the requirement of ASTM C 578
- ISO 9001-2008 Quality Management system for the Quality Assurance

#### Block Insert 60mm

Property	Standard	Unit	Reading
APPARENT DENSITY	ASTM D 1622	Kg/m <sup>3</sup>	25-26
THERMAL CONDUCTIVITY Mean temperature 35°C and 60% RH	ASTM C 518	W(m.k)	0.0365-0.0377
COMPRESSIVE RESISTANCE @ 10 deflection	ASTM D1621	Kpa	104-192
FLEXURAL STRENGTH	ASTM C 203	Kpa	240-385
WATER ABSORPTION	ASTM C272	Volume%	3.0-0.86
DIMENSIONAL STABILITY	ASTMD 2126	%	≤2.0
OXYGEN INDEX	ASTM D 2863	Volume%	≥24
CLASSIFICATION TYPE			TYPE II 22

\*This data is offered as a service to our customer and is subject to change. Refer our DCL test report for precise figure.

#### Block Insert 100mm

Property	Standard	Unit	Reading
APPARENT DENSITY	ASTM D 1622	Kg/m <sup>3</sup>	25-26
THERMAL CONDUCTIVITY Mean temperature 35°C and 60% RH	ASTM C 518	W(m.k)	0.0365-0.0377
COMPRESSIVE RESISTANCE @ 10 deflection	ASTM D1621	Kpa	104-178
FLEXURAL STRENGTH	ASTM C 203	Kpa	240-382
WATER ABSORPTION	ASTM C272	Volume%	3.0-0.70
DIMENSIONAL STABILITY	ASTMD 2126	%	≤2.0
OXYGEN INDEX	ASTM D 2863	Volume%	≥24
CLASSIFICATION TYPE			TYPE II 22

\*This data is offered as a service to our customer and is subject to change. Refer our DCL test report for precise figure.

#### Block Insert 160mm

Property	Standard	Unit	Reading
APPARENT DENSITY	ASTM D 1622	Kg/m <sup>3</sup>	25-26
THERMAL CONDUCTIVITY Mean temperature 35°C and 60% RH	ASTM C 518	W(m.k)	0.0365-0.0377
COMPRESSIVE RESISTANCE @ 10 deflection	ASTM D1621	Kpa	104-174
FLEXURAL STRENGTH	ASTM C 203	Kpa	240-372
WATER ABSORPTION	ASTM C272	Volume%	3.0-2.45
DIMENSIONAL STABILITY	ASTMD 2126	%	≤2.0
OXYGEN INDEX	ASTM D 2863	Volume%	≥24
CLASSIFICATION TYPE			TYPE II 22

\*This data is offered as a service to our customer and is subject to change. Refer our DCL test report for precise figure.



## Physical & Mechanical Properties of Block Insert

### Insolite Block Insert

Insolite is trade name for the expandable polystyrene products manufactured by Styrene Insulation Industry Abu Dhabi UAE. It has excellent thermal insulation properties and is high in compressive strength. Insolite block insert can be manufactured in various densities and with different styles.

Available Standard Size:	Available Grooves
<ul style="list-style-type: none"><li>• 400 X 200 X 60 mm</li><li>• 400 x 200 x 160mm</li><li>• 412 x 200 x 160mm</li><li>• 412 x 200 x 100mm</li><li>• 400 x 200 x 110mm</li></ul>	<ul style="list-style-type: none"><li>• Plain insert (no groove)</li><li>• Insert with U groove</li><li>• Insert with V groove</li><li>• Insert with U &amp; V groove.</li></ul> <p>* As per availability</p>

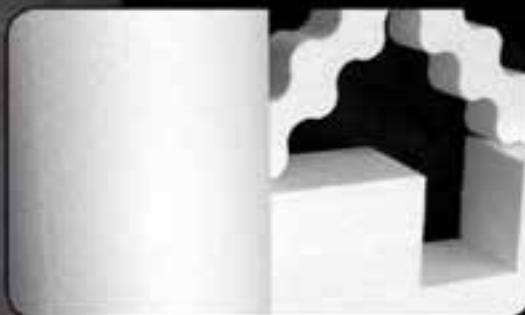
#### Advantages of Insolite Board:

- Very High Thermal Insulation property
- Very high compressive strength
- No chemical or side effect
- CFC Free & ECO Friendly
- Zero ODP & GWP <5
- Light weight
- No absorption of water & humidity
- In case of combustion does not result in toxic gases
- Easy to transport & install
- It does not lose insulation property
- Very high durability
- Fire resistance

#### Standards:

- The physical & Technical properties are tested to the requirement of ASTM C 578
- ISO 9001-2008 Quality Management system for the Quality Assurance





## Insolite Block Sheets

Insolite is trade name for the expandable polystyrene products manufactured by Styrene Insulation Industry Abu Dhabi UAE. Insolite block are of two types, one fire retardant & other non-fire retardant. It can be cut into pieces of any desire size & shape. Thickness can be cut from 5mm to 1 meter as per requirement.

Available Standard Size:	Available Thickness:	Available Densities:
LENGTH - 404 309 250 207 WIDTH - 124 129 129 129 HEIGHT - 102 104 104 104	5 mm to 1250mm	8 to 44 kg/m <sup>3</sup>

### Advantages of Insolite sheets:

- Very high Thermal insulation property
- No chemical or side effect
- CFC Free & ECO Friendly
- Zero ODP & GWP <5
- Light weight
- No absorption of water & humidity
- In case of combustion does not result in toxic gases
- Easy to transport & install
- It does not lose insulation property
- Very high durability

### Insolite Arches & Cornice:

We are manufacturing arches & cornice according to the engineering drawings of the building with the required sizes.

### Advantages of Arches & Shape

- Saving money in comparison to other material
- Easy Install
- Easily removable
- Saving time & Labour cost

### Standards:

- The physical & Technical properties are tested to the requirement of ASTM C 578
- ISO 9001-2008 Quality Management System for the Quality assurance

## Insolite Block & Sheet

### Physical & Mechanical Properties Of Insolite Block & Sheet

Properties	TESTING STANDARD	Unit	INSOLITE 12	INSOLITE 16	INSOLITE 20	INSOLITE 22	INSOLITE 28	INSOLITE 32	INSOLITE 38
			SW12	SW16	SW20	SW22	SW28	SW32	SW38
APPARENT DENSITY	ASTM D 1622	Kg/m <sup>3</sup>	12-14	16-18	20-22	22-26	28-30	32-35	38-44
THERMAL CONDUCTIVITY Mean temperature 35°C and 60% RH	ASTM C 518	W(m.k)	0.0473-0.0482	0.0398-0.0419	0.0378-0.0394	0.0365-0.0377	0.0355-0.0377	0.0354-0.0356	0.0345-0.0356
COMPRESSIVE RESISTANCE @ 10 deflection	ASTM D1621	Kpa	35-76	69-116	90-152	104-189	104-204	173-206	276-328
FLEXURAL STRENGTH	ASTM C 203	Kpa	70-205	173-214	208-271	240-299	240-390	345-388	414-695
WATER VAPOUR PERMENANCE	ASTM E 96	Perm	5.0-4.3	5.0-4.0	3.5-2.3	3.5-2.2	3.5-2.0	2.5-1.5	2.5-1.4
WATER ABSORPTION	ASTM C272	Volume %	4.0-3.9	4.0-3.2	3.0-2.09	3.0-1.51	3.0-1.42	2.0-0.69	2.0-0.67
DIMENSIONAL STABILITY	ASTMD 2126	%	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0
OXYGEN INDEX	ASTM D 2863	Volume %	≥24	≥24	≥24	≥24	≥24	≥24	≥24
CLASSIFICATION TYPE			TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE II	TYPE IX	TYPE XIV
			12	15	18	22	22	29	38

\*This data is offered as a service to our customer and is subject to change. Refer our OCL test report for detailed figures.



## Insolite Blocks and sheets

Insolite is trade name for the expandable polystyrene products manufactured by Styrene Insulation Industry Abu Dhabi UAE. Insolite block are of two types, one fire retardant & other non-fire retardant. It can be cut into pieces of any desire size & shape.

Available Standard Size:	Available Thickness:	Insolite is manufactured from high quality fire retardant/Non fire retardant raw material (as per customer request). Available Densities: 6 to 44 kg/m <sup>3</sup>
LENGTH- 404 309 250 207 WIDTH - 124 129 129 129 HEIGHT - 102 104 104 104	5 mm to 1250mm	

### Advantages of Insolite Board:

- Very high Thermal insulation property
- Very high compressive strength
- No chemical or side effect
- CFC Free & ECO Friendly
- Zero ODP & GWP <5
- Light weight
- No absorption of water & humidity
- In case of combustion does not result in toxic gases
- Easy to transport & install
- It does not lose insulation property
- Very high durability

### Standards:

- The physical & Technical properties are tested to the requirement of ASTM C 578
- ISO 9001-2008 Quality Management system for the quality assurance





## Insolite Board

Insolite is trade name for the expandable polystyrene products manufactured by Styrene Insulation Industry Abu Dhabi UAE. It has excellent thermal insulation properties and is high in compressive strength. Insolite board have a mould. Each Insolite board has individual densities varying from 25 to 44 kg/m<sup>3</sup>.

Available Standard Size:	Insolite is manufactured from high quality fire retardant /non fire retardant raw material (as per requirement)
1m x 0.5m x 50mm	
1m x 0.5m x 65mm	
1m x 0.5m x 75mm	
1m x 0.5m x 100mm	

### Advantages of Insolite Board:

- Very high Thermal insulation property
- Very high compressive strength
- No chemical or side effect
- CFC Free & ECO Friendly
- Zero ODP & GWP <5
- Light weight
- No absorption of water & humidity
- In case of combustion does not result in toxic gases
- Easy to transport & install
- It does not lose insulation property
- Very high durability
- Fire resistance

### Standards:

- The physical & Technical properties are tested to the requirement of ASTM C 578
- ISO 9001-2008 Quality Management system for the Quality Assurance



## Insolite Board

### Physical & Mechanical Properties of Insolite Board

Properties	TESTING STANDARD	Unit	INSOLITE 28	INSOLITE 32	INSOLITE 38
			5W28	5W32	5W38
APPARENT DENSITY	ASTM D 1622	Kg/m <sup>3</sup>	28-30	32-35	38-44
THERMAL CONDUCTIVITY Mean temperature 35°C and 60% RH	ASTM C 518	W(m.k)	0.0356-0.0377	0.0347-0.0356	0.0345-0.0356
COMPRESSIVE RESISTANCE @ 10 deflection	ASTM D1621	Kpa	104-204	173-248	276-328
FLEXURAL STRENGTH	ASTM C 203	Kpa	240-390	345-470	414-695
WATER VAPOR PERMANENCE	ASTM E 96	Perm	3.5-2.1	2.5-1.5	2.5-1.4
WATER ABSORPTION	ASTM C272	Volume%	3.0-1.42	2.0-0.69	2.0-0.67
DIMENSIONAL STABILITY	ASTMD 2126	%	≤2.0	≤2.0	≤2.0
OXYGEN INDEX	ASTM D 2863	Volume%	≥24	≥24	≥24
CLASSIFICATION TYPE			TYPE II	TYPE IX	TYPE XIV
			22	29	38

\*This data is offered as a service to our customer and is subject to change. Refer our DCL test report for precise figure





## Insolite Vegetables and Dates Boxes



Insolite Industry, Abu Dhabi, UAE. Moulded containers and covers made from Insolite heavy sterility against bacterial contamination and maintains a low temperature for a very long time depending on storage and exposure time to outside temperature.



## Fish Boxes

Insolite Fish Boxes maintain low temperatures for a very long time depending on storage and exposure time to outside temperatures.

25 kg Capacity Size:		
	External	Internal
Length	99.5 cm	94.2 cm
Height	30.0 cm	24.0 cm
Width	40.0 cm	34.0 cm
15 kg Capacity Size:		
	External	Internal
Length	70.0 cm	64.3 cm
Height	23.0 cm	16.3 cm
Width	36.0 cm	30.3 cm
10 Kg Capacity Size		
	External	Internal
Length	49.5 cm	45.0 cm
Height	19.5 cm	15.0 cm
Width	39.5 cm	35.0 cm
2 Kg Capacity Size		
	External	Internal
Length	36.3 cm	32.4 cm
Height	26.8 cm	23.0 cm
Width	17.0 cm	13.8 cm



## Architectural Moldings | Shapes

Extensive range of molding designs are available. Customised design can be tailored to suit your needs (minimum order quantities can be apply). Molding are supplied in any lengths. Contains no Ozone depleting C.F.C's. Compliment to all styles of houses.



Styro Architectural Moldings provide you with a product of superior strength and durability against the elements and are more durable than comparable cementitious finished mouldings.

Styro Architectural Moldings make an easy "do it yourself" installation



Styro Building products offer design versatility that is more cost effective and site efficient than many traditional Fibre Cement or Timber alternatives.





# LICENSES & CERTIFICATES

# CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality  
hereby attests that the product(s)

## Rigid Cellular Polystyrene Thermal Insulation

(Details as per the attached Scope of Certification)

manufactured by:

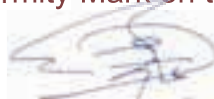
**STYRENE INSULATION INDUSTRY LLC**

**P.O. Box 9459, Mussafah, Abu Dhabi, U.A.E.**

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

## ASTM C 578:18

Accordingly, DCLD hereby authorizes the above manufacturer  
to affix the DCL Product Conformity Mark on the above-mentioned product(s).



ARIF AL MARZOOQI

Certification and Quality Control of Products Section Manager  
Dubai Central Laboratory Department-Dubai Municipality



Certificate No: CL06020008  
Valid Until: 29/06/2024



Current Issue Date: 30/06/2023  
Original Issue Date: 25/01/2006



The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.  
This Certificate is an electronic document subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.

OPEN-DATA

DM-DCLD-F-IC-2031 Rev 22

## DUBAI CENTRAL LABORATORY DEPARTMENT

### DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

#### SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL06020008

**Certificate Issued To:** **STYRENE INSULATION INDUSTRY LLC**  
P.O. Box 9459, Mussafah, Abu Dhabi, UAE

**Applicable Standard Specification:** **ASTM C 578 – 18** – Standard Specification  
for Cellular Rigid Polystyrene Thermal  
Insulation

**Applicable Specific Rules:** **DM-DCLD-RD-DP 21-2106 (IC)** “Specific Rules  
for Certification of  
Rigid Cellular Polystyrene Thermal Insulation as  
per ASTM C 578 –  
18 through Factory Assessment”.

NO.	PRODUCT DESCRIPTION	BRAND NAME	PRODUCT DETAILS		
			Size	Thickness	Type
1.	Rigid Cellular Expanded Polystyrene Thermal Block Insert CFC Free (see Note 3)	INSOLITE	400 X 200 mm	60 mm, 75 mm, 100 mm, 110 mm, and 160 mm	ASTM Type II Density: 25 kg/m <sup>3</sup> (min) (see Note 4) (as per Table 1)
2.	Rigid Cellular Expanded Polystyrene Thermal Block Insert CFC Free (see Note 3)	INSOLITE	400 X 200 mm	110 mm 60 mm	ASTM Type IX (As per Table 1)
3.	Rigid Cellular Expanded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	INSOLITE	1000 x 500 mm	50, 65, 75, 100 mm	ASTM Type IX (as per Table 1)



## DUBAI CENTRAL LABORATORY DEPARTMENT

### DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

#### SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL06020008

4.	Rigid Cellular Expanded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	INSOLITE	1000 x 500 mm	50, 65, 75, 100 mm	ASTM Type XIV (as per Table 1)
5.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free (see Note 3)	INSOLITE	Various Sizes	10 mm to 1000 mm	ASTM Type XI (as per Table 1)
6.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free (see Note 3)	INSOLITE	Various Sizes	10 mm to 1000 mm	ASTM Type I (as per Table 1)
7.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free (see Note 3)	INSOLITE	Various Sizes	10 mm to 1250 mm	ASTM Type II (as per Table 1)

## DUBAI CENTRAL LABORATORY DEPARTMENT

### DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME

#### SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL06020008

**TABLE 1. (EXPANDED)**  
**PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR**  
**POLYSTYRENE THERMAL INSULATION**

SN	PROPERTIES	TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV	TYPE XV
1	<b>COMPRESSIVE RESISTANCE</b> @ yield or 10% deformation, which occurs first, min kPa	<b>35</b>	<b>69</b>	<b>90</b>	<b>104</b>	<b>173</b>	<b>276</b>	<b>414</b>
2	<b>THERMAL RESISTANCE</b> of 25.4 mm thickness, @ mean temp. of @ 35°C and 60% RH min, K-m <sup>2</sup> /W	<b>0.53</b>	<b>0.60</b>	<b>0.64</b>	<b>0.67</b>	<b>0.71</b>	<b>0.71</b>	<b>0.73</b>
3	<b>THERMAL CONDUCTIVITY,</b> max, W/m·K @ 35°C and 60% RH	<b>0.0482</b>	<b>0.0419</b>	<b>0.0394</b>	<b>0.0377</b>	<b>0.0356</b>	<b>0.0356</b>	<b>0.0347</b>
4	<b>FLEXURAL STRENGTH,</b> min, kPa	<b>70</b>	<b>173</b>	<b>208</b>	<b>240</b>	<b>345</b>	<b>414</b>	<b>517</b>
5	<b>WATER VAPOR</b> <b>PERMEANCE</b> of 25.4 mm thickness, max, perm	<b>5.0</b>	<b>5.0</b>	<b>3.5</b>	<b>3.5</b>	<b>2.5</b>	<b>2.5</b>	<b>2.5</b>
6	<b>WATER ABSORPTION</b> by total immersion, max volume , %	<b>4.0</b>	<b>4.0</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>
7	<b>DIMENSIONAL STABILITY</b> (change in dimension), max, %	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>
8	<b>OXYGEN INDEX,</b> min, volume %	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>
9	<b>DENSITY,</b> min, kg/m <sup>3</sup>	<b>12</b>	<b>15</b>	<b>18</b>	<b>22</b>	<b>29</b>	<b>38</b>	<b>48</b>

NOTE: The Above Specification Values Are Extracted From Table 1 OF ASTM C578-18|

**DUBAI CENTRAL LABORATORY DEPARTMENT**  
**DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION**  
**FOR CERTIFICATE NO. CL06020008**

Remarks:

NOTE 1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

NOTE 2: The above product shall bear the DCL Conformity Mark.

Note 3: CFC Free as per declaration from the company, in accordance with the 2023 Al Sa'fat Dubai Green Building System – 2nd Edition.

NOTE 4: Minimum density required by Dubai Municipality for block insert.

Original Issue Date : 25/01/2006

Current Issue Date : 30/06/2023

Valid Until : 29/06/2024



**ARIF AL MARZOOQI**

**MANAGER**

**CERTIFICATION AND QUALITY CONTROL OF PRODUCTS SECTION**





# Certificate

This is to Certify that

**STYRENE INSULATION INDUSTRY LLC**

**STYRENE INSULATION INDUSTRY, MUSSAFAH, M 42,  
PLOT NO. 102, 103, 111, 112, ABU DHABI,  
UNITED ARAB EMIRATES**

has been found in Compliance with requirements of  
**Quality Management System**

**ISO 9001:2015**

for the following scope:

**MANUFACTURER AND SUPPLY OF EXPANDABLE  
POLYSTYRENE BY INJECTION MOULDING AND  
BLOCK MOULDING FOR THERMAL INSULATIONS**

Certificate No. : QMS/020189/0121

Original Certificate Date : 02-January-2021

Issue Date : 02-January-2021

Expiry Date : 01-January-2024

To check this certificate status visit:

["http://uasl.uk.com/certifiedorganization.html"](http://uasl.uk.com/certifiedorganization.html)

Authorised Signature

**Quality Control Certification**

UK Office: 1929, Chynoweth House,  
Trevissome Park, Truro-TR48UN, Cornwall, UK

India Office: 2nd Floor, Aman Market,  
Narela Mandi, Delhi - 110 040, India



"Quality Control Certification (QCC)" accredited by "UASL, England, UK". This certificate remains the property of "QCC" to whom it must be returned on request.

# INDUSTRIAL LICENSE

## رخصة صناعية

License No	IN-1000470	رقم الرخصة	حالة الرخصة
License Status	Production	إنتاج	حالة الرخصة
Legal Form	Limited Liability Company	شركة ذات مسؤولية محدودة	النظام القانوني
ADCCI No			عضوية قترية
First Issue Date	19/11/1995 تاريخ أول إصدار	Enviroment No, 226	الرقم البيئي
Issue Date	21/11/2021 تاريخ الإصدار	PCR No. -	السجل المركزي للتوريد
Expiry Date	20/11/2024 تاريخ الانتهاء	Trade Name No, IN-1000470	رقم الاسم التجاري
Trade Name	Styrene Insulation Industry L.L.C.	مطابقين لصناعة العزل ذ.م.م	الاسم التجاري
Location	Abu Dhabi - Mussaffah - M-42 - (102, 103, 111, 112)		موقع المنشأة

Owner(s) Partner(s)	اسم صاحب المنشأة / الشركاء
#	المالك / الشركاء Owners / Partners
1	نورة خليفة جاسم Noura Khalifa Jasem
2	وفاء راشد مبارك سيف الريامي Wafa Rashid Mubarak Saif Alreyami
3	فاطمة راشد مبارك الريامي Fatima Rashed Mubarak Alriyami

Activities	النشاط
Activity	#
1 Plastic Tableware, Kitchenware and Toilet Articles Manufacturing	1 صناعة المستلزمات البلاستيكية للمائدة والمطابخ وأدوات المراحيض أو التزيين
2 Semi-Manufactures of Plastic Products Manufacturing	2 صناعة منتجات لدائن نصف مصنعة
3 Plastic Bottles and Similar Containers Manufacturing	3 صناعة القوارير والعبوات البلاستيكية المماثلة
4 Conversion of plastics or rubber waste to granulates	4 تحويل النفايات اللدائنية أو المطاطية لجعلها في شكل حبيبات

Products	المنتجات
Product	#
1 Disposable Plastic Tableware	1 أواني بلاستيكية ذات الإستعمال الواحد
2 polystyrene Insulating Sheets	2 ألواح العزل الحراري من البوليسترين
3 Polystyrene Packing Rolls	3 لفات التغليف من البوليسترين
4 Polystyrene Block Insert	4 عزل بلاستيكي داخلي للعلبوق الإسمنتي
5 Polystyrene Vegetable Boxes	5 صناديق خضار من البوليسترين
6 Styrene Granules (Recycled)	6 حبيبات من الستيرين (معاد تدويرها)

Official Email

styrene@emirates.net.ae

البريد الإلكتروني الرسمي

Official Mobile Number

Styrene Insulation Industry

رقم الهاتف المحمول الرسمي







تقديرًا للإنجازات الصناعية والإلتزام بتحقيق متطلبات الجائزة

فقد قررت لجنة التحكيم منحه

جائزة الشيخ خليفة للصناعة لعام ٢٠٠٠ للسادّة

سماحة المهندس العزيز

للإلتزام بهم بأعداد وتطبيق الحد الأدنى لخطط تطوير الأداء

بحسب برنامج الجائزة

محمد بن طهون آل نهيان

رئيس مجلس إدارة المؤسسة العامة للصناعة





# *Certificate of Appreciation*

*Dubai Central Laboratory Department (DCLD) of Dubai Municipality  
hereby awards this Certificate to*

**STYRENE INSULATION INDUSTRY**  
*Abu Dhabi, United Arab Emirates*

*for their continued support and cooperation with the programs of Dubai Municipality for improving the quality of  
construction in the Emirate of Dubai, by producing products that comply with the relevant  
Dubai Municipality Regulations.*



**ENGR. HAWA ABDULLA BASTAKI**  
*Director of Dubai Central Laboratory Department  
Dubai Municipality*



*Issued on: 03-October-2011*



# APPROVALS

STYRENE INSULATION INDUSTRY ABU DHABI, U AE Tels 071 2 5511160 Fax : - 071 2 5511870 Email : [srii@insulation.ae](mailto:srii@insulation.ae)



## PROJECT REFERENCE LIST

<u>Contractors Name</u>	<u>Project</u>	<u>Client</u>
<b><u>Abu Dhabi Projects</u></b>		
1. Al Ghaflly General Contracting Co.	40 LCH at Al Shawmakh, Abu Dhabi.	Public Works Department, Abu Dhabi
2. Al Ghaflly General Contracting Co.	40 LCH at Baniyas, Abu Dhabi.	Public Works Department, Abu Dhabi
3. Al Ghaflly General Contracting Co.	100 LCH at Al Rahba, Abu Dhabi.	Public Works Department, Abu Dhabi
4. Al Jaber Est.	40 LCH at Al Shawmakh, Abu Dhabi.	Public Works Department, Abu Dhabi
5. Eastern Ltd Engineering & Contracting, SO LCH at Al Rahbah, Abu Dhabi.	Public Works Department, Abu Dhabi	
6. Al Ghaflly General Contracting Co.	GIC Contract 2 B/2000 at Mussafah, General Industrial Corporation, Abu Dhabi	
7. Gulf Contractors Co.	GIC Contract 2 B/2000 at Mussafah, General Industrial Corporation, Abu Dhabi	
8. Dhabi Contracting.	GIC Contract 2 B/2000 at Mussafah, General Industrial Corporation, Abu Dhabi	
9. Impregilo Rizzani De Eccher.	Grand Mosque for H.H. Sheikh Zayed Bin Sultan Al Nahyan the II, Abu Dhabi	Public Works Department, Abu Dhabi
10. NUROL L.L.C	Abu Dhabi TRIP Al Salam Street	Bridges & Tunnels at IP-44 Al Salam Street
11. Al Futaim Carillon (Abu Dhabi)	Al Muneera, Al Raha Beach Development	Al Raha Beach, Abu Dhabi
12. Al-Futaim Carillon (Abu Dhabi)	ICHQ (Invest Council Head QTR)	Salam Street, Abu Dhabi
13. Pivot Eng'g & Gen. Cont.Co	Golf Club II P-660	Umm Al Near, Abu Dhabi

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14. S. Mokbel & Partner	Housing Compound & PO 701	Khalifa Park, Abu Dhabi
15. Saif Bin Darwish	Island City Development, Abu Dhabi	Abu Dhabi
16. Al Naboodah Contracting LLC	Navy Compound, Al Falah	AL Sowrah, Abu Dhabi
17. Samsung & Saif Bin Darwish Joint Venture	Upgrading Al Salam Street Ring Road Tunzel	Al Salam Street Abu Dhabi
<i>(Supply 1<sup>st</sup> Phase - Grand Mosque for their super structure, Dome, Roofing, Internal walls and basement). (For supply 2<sup>nd</sup> Phase - To supply for Roofing and Wall insulation, 180,000 square meter - Styrene Insulation Industry's 'INSOLITE' has been specified).</i>		
18. Dome General Contracting.	3 D housing system for 800 houses in Public Works Department, Abu Dhabi }	Abudhabi
19. NPC Arabtec (Joint Venture)	195-NPC-ATC JV-Nation Tower Abudhabi	Abudhabi
20. Fibrex Construction Division Group	Al Reef Villa Behind Abudhabi Airport	Abudhabi
21. Fibrex Construction Division Group	Deer Field	Abudhabi
22. National Project and Construction LLC	P-197 MER 39555 Sea Palace Development Project	Abudhabi
23. Dome General Contracting	Al Raha Gardens Attached Housing	Abudhabi
24. Express Insulation Materials Co	Shah Gas Development Al Ruwais	Abudhabi
<i>(Supply of Expanded polystyrene Insulation panels for load bearing walls (2 storied), Partition walls (2 storied), Flooring and Roofing for 800 villas).</i>		

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25. Al Jaber Building LLC (Al Jaber Group)	Al Jaber Building Division 2080 Villas at Faleh Community	
26. Al Futtaim Cerflon (Abudhabi) LLC	Project for Al Muneera	Al Raha Beach Development
27. Arabtec Construction LLC	ADNEC-PH2(Hotel)	
28. Abdullah Ali Hussain Water Proofing co LLC	Habsham	
29. Al naboodah Cont Group LLC	Baymoonah Street	
30. Ghantoot Group (Ghantoot Top & Gen cont Est)	Abudhabi Court House Building	
31. Commadore Contracting Co.LLC	CJ 185 A	Abudhabi
32. ETA(Emirates Technical Associates)	01644- Al Rawdha Palace Swimming Pool	Abudhabi
33. Dowe General Contracting WLL	E-117,(Five villa Project)	
<u>Al Ain Projects.</u>		
1. Al Darmaky & Ali Moosa & Sons	276 villas at Al Dhahar, Al Ain.	Public Works Department, Al Ain.
2. National Transport & Contracting Co.	264 villas at Al Dhahar, Al Ain.	Public Works Department, Al Ain.
3. Al Ghaffy General Contracting Co.	94 LCH at Umm Ghafa. Al Ain.	Public Works Department, Al Ain.
4. Al Jaber Est.	Al Ain Hospital Project, Al Ain.	Public Works Department, Al Ain.
5. Al Jaber Est.	30 LCH at Grayah, Al Ain.	Public Works Department, Al Ain.

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6. Al Jaber Est	40 LCH at Remah, Al Ain.	Public Works Department, Al Ain.
7. Al Jaber Est	100 LCH at Al Yahar, Al Ain.	Public Works Department, Al Ain.
8. Al Jaber Est	100 LCH at Hayfya, Al Ain.	Public Works Department, Al Ain.
9. Naef & Bin Harmal	Commercial Flats at Al Muwaji	Public Works Department, Al Ain
10. Dhafra Int'l Projects group	Military Works-233/2010	Al Ain

#### Dubai Projects

1. Ba Haleeba.	Awir Project, Dubai.	
2. Emirates Precast Concrete.	Emirates Tower.	
3. Engineering Contracting Co.	1370 villas, Emmar Hill development.	Emmar, Dubai.
4. Construction & Reconstruction Eng. Co.	240 villas, Emmar Hill development	Emmar, Dubai
5. Al Huda Contracting Co.	210 villas, Emmar Hill development.	Emmar, Dubai.
6. Al Oraba Contracting Co.	70 government villas at Hatta	Dubai Municipality.
7. United Precast Concrete.	829 villas, Arabian Ranches development Emmar, Dubai.	
8. BASF the Chemical Company	Al Falah Ready-mix Concrete	Masdar City Abu Dhabi
9. Pax-Kent International (SF MARINA)	a) Fujairah Int Marine Club-Ext'n. Of Pontoons b) China Harbour: Al Khan Lagoon, Sharjah c) Between the Two Bridges	RAK

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10. Target Marine		
11. Catic the Chinese Co	a) Anchor Marina Palm Jumeirah b) Village Center Marina Palm Jumeirah	Dubai
12. Tricon Trading and Contracting Co LLC	Rotana Suites, Fujairah Cleveland clinic	Fujairah Sharjah

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Record Reference: MUS/AAH/DTF/

Date: 14 November 2016 3-19381

### Document Transmittal Form

**Project Details:**

Project Name: New Al Ain Hospital

Client/Employer: SEHA / Musanada

The Engineer: ICME & Obermeyer (IFO)

Trans No: AAH-MUS-TRN-18700-SA

Musanada's Project Number: HC-2-07-53040-00-C

PMC: Allen & Shariff Corporation (ASC)

Contractor: Arabtec Construction - San Jose JV (ASJ)

Rev No: N/A


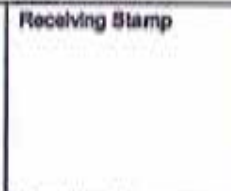
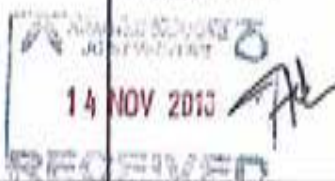
**Subject :**

**Material Submittal**

<b>Type:</b> (Tick Applicable)	<input type="checkbox"/> Technical Data	<input type="checkbox"/> Guarantee	<input type="checkbox"/> Certificate	<input type="checkbox"/> Test Result
	<input type="checkbox"/> Schedules/ Programmes	<input type="checkbox"/> Report	<input type="checkbox"/> Statutory Issues (NOC)	<input checked="" type="checkbox"/> Others - MSF
<b>Attachment</b>	<input type="checkbox"/> Samples	<input type="checkbox"/> Drawings	<input type="checkbox"/> Catalogue	<input type="checkbox"/> CD's
<b>Purpose of Issue</b> (Tick Applicable)	<input type="checkbox"/> FOR INFORMATION	<input checked="" type="checkbox"/> FOR FURTHER ACTION	<input type="checkbox"/> FOR RECORD	<input type="checkbox"/> FOR REVIEW

**Detail :**

Please find enclosed herewith IFO's comments for MSF No. 1059 regarding Expanded Polystyrene (EPS) for Main Hospital Substation.

<b>1. Submitted by &amp; Signature:</b>   Simon Ashworth Resident Engineer ICME & Obermeyer - JV	<b>2. Received by &amp; Signature:</b>  Hasher Al Azezi Acting Senior Project Manager Building & Project Management Musanada	<b>Receiving Stamp</b>  
<b>3. Issued By &amp; Signature:</b>  Hasher Al Azezi Acting Senior Project Manager Building & Project Management Musanada	<b>4. Received by &amp; Signature:</b>  Zaher Salman Contractor's Representative Arabtec & San Jose - JV	<b>Receiving Stamp</b>  
<b>Reference Document: (Attach if any relevant documents)</b>		<b>Work Location: (if applicable)</b> New Al Ain Hospital

**Comments (if Any):**

**Distribution:**

☐ Musanada ☐ PMC ☐ Engineer ☐ Contractor

*Note: This document provides information or clarification only. If the Contractor considers the provided information as change to the original Contract, then the Contractor has to obtain the required approval as established in the Condition of Contract.*

*Hasher*



MATERIAL SUBMITTAL (MSF)

Part A & B: Project & Record Information & Discipline

Project Name	New Al Ain Hospital	MSF Ref. No	1059
Employer	SEHA/Musanada	MSF Rev. No	00
PMC	Allen & Shariff	MSF Issue Date	25-10-2016
Engineer	IPO		
Contractor	Arabtec - Sanjose J.V		
Discipline:	<input checked="" type="checkbox"/> Civil <input type="checkbox"/> Structural <input type="checkbox"/> Architecture <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> MEP <input type="checkbox"/> Others		

Part C: Details

Description:	Expanded Polystyrene (EPS) for Main Hospital Substation	List of Attachments:
Proposed Material:	SW 32 - Expanded Polystyrene	<input checked="" type="checkbox"/> Material Submittal Cover Page <input type="checkbox"/> Technical Submittal Checklist <input checked="" type="checkbox"/> Product Technical Documentation <input type="checkbox"/> Country of Origin Certificate <input type="checkbox"/> International Certification <input checked="" type="checkbox"/> Product Technical Catalogue <input type="checkbox"/> Schedule of Locations <input type="checkbox"/> List of all included features <input type="checkbox"/> List of Exclusions <input type="checkbox"/> List of Disposables/Consumables <input checked="" type="checkbox"/> Sample Tag Form <input checked="" type="checkbox"/> Compliance Sheet <input type="checkbox"/> Copy of related Specification <input type="checkbox"/> Copy of related BoQ <input checked="" type="checkbox"/> Copy of related Drawings <input checked="" type="checkbox"/> Previous test results <input checked="" type="checkbox"/> Samples with Sample Tag <input type="checkbox"/> Copy of Vendors Approval <input type="checkbox"/> Copy alternative material approval <input checked="" type="checkbox"/> Others: (Specify.....)
Specified Material:	Not Specified	
Spec/BoQ/Drawing Ref:	No specification available	
Justification of Alternative Material:	Proposed as a backup source to the previous approved EPS material submitted via MSF-1142.	
Estimate Compliance Approval:	None	
Manufacturer/Local Supplier:	Manufacturer/ Supplier: Styrene Insulation Industry	
Other Remarks:	This material has been proposed as an alternative to the previous approved EPS material submitted via MSF-1142.	

We hereby declare that the material submitted herewith has been reviewed in detail and in accordance with the Contract Documents except as otherwise stated here above.

	Discipline Engineer	QA/QC Section	Technical Manager	MEP Section	Project Manager
Name	Hazem / Senthil Shafik Kumar	Assem Al Khawajah	John Kostasalos		
Designation	Sr. Struct. / Tech. Engr.	QA/QC Manager	Technical Manager	N/A	N/A
Signature					
Date	14/10/16	24/10/16	25/10/16		

Part D: Employer/ Engineer Response:

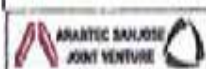
Employer/ Engineer's Response	<p>IFC design drawings indicate a raised floor system instead of the proposed Expanded Polystyrene &amp; concrete slab system, however the proposed system could be technically acceptable subject to local authorities approval.</p> <p>Contractor shall submit substitution request to obtain final approval.</p> <p>Method statement to be submitted separately including jointing of slabs as EPS to mitigate uncontrolled cracking.</p> <p>Refer to structural calculations DSF 903 for design related comments.</p>
Approval	<input type="checkbox"/> A: Approved <input checked="" type="checkbox"/> B: Approved with Comments <input type="checkbox"/> C: Revise & Resubmit <input type="checkbox"/> D: Rejected

Note (1): Employer's/Engineer's approval is for conformance with information given and design concept expressed in Contract Documents. Approval does not authorize changes to Contract Documents. Employer's/Engineer's approval does not relieve the Contractor from his contractual obligation to ensure conformance to all Contract Documents. Any deviations, to the Contract Documents found subsequent to Employer's/ Engineer's approval are to be corrected by the Contractor at no extra Cost/Time to the Employer.

For Employer/ Engineer:

	For Engineer	For Musanada
Name	Rajesh Panade	
Designation	Sr. Structural Engineer	
Signature		
Date	14 NOV 2016	14 NOV 2016



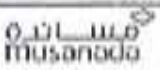

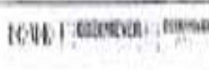
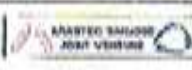

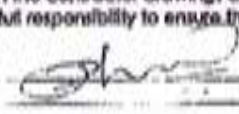
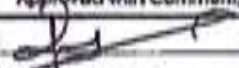



### Material Submittal Attachments

S.No	Description
1	Material Submittal Form
2	Sample Tag Form
3	Relevant Shop Drawings
4	Compliance Statement
5	Technical data Sheet
6	Test Reports
7	Company Profile
8	License and Certificates
9	Previous Project List
10	Previous Material Approvals

# - SAMPLE TAG FORM



   	
<b>SAMPLE TAG FORM</b>	
Ref: ASL-STP-AAH-010 <span style="float: right;">Rev. 00</span> <span style="float: right;">Form Issue Date: 24-11-2014</span>	
Client: SEHA / MUSANADA <span style="float: right;">Engineer: IPO JV</span> The Employer: MUSANADA <span style="float: right;">Contractor: ASJ JV</span> PMC: ASQ <span style="float: right;">Project Name &amp; Location: NEW AL AIN HOSPITAL</span>	
Material Detail: Expanded Polystyrene (EPS) for Main Hospital Substation New Description: Expanded Polystyrene (EPS) for Main Hospital Substation Spec. Ref.: BOQ Ref.: Draw. Ref.: Block No.: Level: Element:	Disposition: <input checked="" type="checkbox"/> Civil <input type="checkbox"/> Architectural <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> MEQ <input type="checkbox"/> Other (state)
Material Submittal No.: 1050-01 Method Statement No.: ITP No.: Checklist No.:	<div style="text-align: center;">  </div>
Sketch attached to show the location(s) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Attached Test Certificates <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Contractor Statement</b> We certify that the material submitted herewith is a specimen of the material which to be used in the areas described above, and in compliance with the contractor drawings and specification except as otherwise stated on the related Material Submittal Form. We undertake full responsibility to ensure that the material delivered at site is same as the approved sample. <div style="text-align: center;">  </div>	
Received by Engineer on:	Date: Time: Signed by:
<b>Engineer's Inspector's Comments:</b>  	
<b>Witnessed 1st Test Results (if any):</b> Retained comment on detail sheet <input type="checkbox"/> Passed <input type="checkbox"/> Failed <input type="checkbox"/> N/A	
Ref: Report No: Testing Lab Representative Signature:	
<b>Engineer's Final Comments &amp; Decision: The Work Is:</b> <div style="display: flex;"> <div style="width: 150px;"> <input type="checkbox"/> A - Approved  <input checked="" type="checkbox"/> B - Approved with Comment  <input type="checkbox"/> C - Revise and Resubmit  <input type="checkbox"/> D - Rejected  <input type="checkbox"/> E - Approved with Comment/Resubmit         </div> <div>           Remarks:         </div> </div>	
Engineer:  <span style="float: right;">Signature: RP</span> Contractor:  <span style="float: right;">Signature: RP</span>	Date: 14 NOV 2015 Date:

Note: XXXX: Contractor's Abbreviation; B: Discipline (C for Civil, E for Electrical & M for Mechanical); RPR: Form Serial Number; XX: Revision Number; dd/mm/yyyy: day/month/year

MSB TMT - Sample tag form -STP Rev.1



200x200x200mm



**INSOLITE**  
PRODUCTS OF  
**STYRENE INSULATION**  
**INDUSTRY**

Company  
The Insolute, P.O. Box 949  
4000 West 10th Avenue, New York  
New York 10019-0949  
www.insolute.com  
Made in U.S.A.



Reference No / رقم المرجع: MTS C 191		UAE ARMED FORCES COMMAND OF MILITARY WORKS		القوات المسلحة لإدارة الإمارات العربية المتحدة إدارة الأعمال العسكرية	
Date / التاريخ: 25-Sep-13		MATERIAL SUBMITTAL			
ENIW-11021-C002-MTS-C-191		Full Document Reference: C002		11021	
CONSTRUCTION OF OFFICERS VILLAS AT ABU DHABI GATE PROJECT - (FIRST PHASE)					
K & A		To: NAEI GENERAL CONTRACTING EST		From: 11021	
SUBMITTAL TITLE: 100 MM THICK EXPANDED POLYSTYRENE FOR EIFS					
Zone: ZONE A & ZONE B		F. Level: Buildings		Facility	
CSI ID: 0A00-S.O.A.G.M.S.M		WBS ID: Architectural		Discipline	
Alternative (attach support documents) / بديل (الرجاء إرفاق الداعمات): <input type="radio"/> Complies with Contract documents / يتوافق مع وثائق العقد		<input type="radio"/> Does not comply / لا يتوافق مع وثائق العقد		Consolidance / Sample	
Ref to BOQ / Specs / Drawings / رقم جدول الكميات / المواصفات / المخططات		Full Description / Specs / Details / الوصف الكامل / المواصفات / التفاصيل		Ser.	
Spec Ref: 07 21 00		100 MM THICK EXPANDED POLYSTYRENE FOR EIFS DENSITY 20-22 KG/M3		20	
		Manufacturer: STYRENE INSULATION INDUSTRY			
certifies that all information issued under this Submittal has been reviewed and verified and found to be in compliance with the Contract documents unless noted as "Alternative" above					
Date: 25-Sep-13		Signature: [Signature]		Name: Rebl Ellos	
SUBMITTAL REVIEW & COMMENTS					
As per M/S Terraco recommendations in the approved Material submittal density of EPS shall be 20-22 kg/m3 as attached, the proposal here is 20-22 kg/m3 only.					
Resident: [Signature]		Signature: [Signature]		Name: [Name]	
Date: 28.09.13		Signature: [Signature]		Name: [Name]	
Manager Comments: (to be filled ONLY if the escalation box above to the relevant person is ticked)					
Submittal was reviewed for the EPS system shall be initiated by M/S Terraco.					
Date: 29.9.13		Signature: [Signature]		Name: [Name]	
Code D = REJECTED		Code C = REVISE & RESUBMIT		Code B = NO OBJECTION AS NOTED	
Code A = NO OBJECTION		Code A = NO OBJECTION		Review Status (by Final Approval)	
FOR THE CONTRACTOR		Signature: [Signature]		Name: [Name]	
Date: [Date]		Signature: [Signature]		Name: [Name]	



## Engineering Management Office at Al Barsha

## FAX MESSAGE

To: M/s. Styrene Insulation Industry

Fax No: 02-5511570

Tel No: 02-5511166

Mob No: 052-9853895

Attn: Mr. Anwar Alam Khan

Ref No: 411v/EMO/SJ/MV/037/fx

Date: 20.12.2012

Pages: 1 + Attachments

Ref: Baniyas Residential Development (411) Villas - Abu Dhabi

**Sub: Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet - Insolite 32-35 kg/m<sup>3</sup> Density in Conformance to ASTM C 578 - 11 (Type IX)**

Material Submittal No: BRD/411V/MS/C/012 (Supplier - 2), Rev. 02  
Status : Approved with Comments

Reference is made to the Conditional approval of the product offered by you for this project by the consultants. A copy is enclosed for your reference purposes.

Notwithstanding the approvals, M/s. Styrene, at all times shall conform to the regulatory and for Arabtec requirements and consistently maintain the quality of the product.

The thermal conductivity value of 0.0354 W/m.K meets Estidama requirements for overall u-value of 0.32 W/m<sup>2</sup>.K; although all other properties should mandatorily conform to ASTM C 578-11.

This approval shall not relieve you from conforming to any contractual obligations that would be required by approving authorities. Please keep us posted on the latest requirements for any compliances.

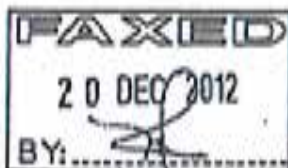
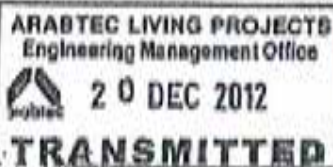
This is for your kind information and necessary understandings.

Regards,



Ahmad Al Qaq  
Engineering Manager

CC: IK, NQ, ZA, PP, AH, SJ, ABM, file



ENGINEERING MANAGEMENT OFFICE

Tel: 04-4227404, Fax: 04-4227402; e-mail: emo@arabtecuae.com







# MATERIAL SUBMITTAL FORM

CONTRACT NO. P-007611000  
 CONTRACT TITLE Baniyas Residential Development (411 Villas) - Abu Dhabi  
 CONTRACTOR M/s. Arabtec Construction LLC  
 SUBCONTRACTOR P.O. Box - 3399, Dubai, U.A.E

MS NO. BRD/411V/MS/C/012 (Supplier-2)  
 REVISION NO. 02  
 REVISION DATE 29/11/2012  
 TITLE Substructure/Superstructure works  
 DISCIPLINE Civil

Material Description Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet - Insolite 32-35 kg/m<sup>3</sup> density in conformance to ASTM C578-11 (Type IX)  
 Manufacturer Address M/s. Styrene Insulation Industry P.O. Box. 9459, Abu Dhabi, UAE  
 Location: 100mm thick (abutting internal faces of stub walls in substructure) and 110mm thick (abutting external faces of concrete elements in superstructure).  
 Spec. ref.:  
 B.O.Q. ref.:  
 Date Material required on site:

Catalogue Ref. Enclosed alongwith supplier's letter.  
 Supplier Address M/s. Styrene Insulation Industry P.O. Box. 9459, Abu Dhabi, UAE  
 Production Period: 2 Weeks  
 Delivery Ex-works: 2 Weeks  
 Total Delivery time: 4 Weeks  
 Expected date of delivery to site:

## DELIVERY METHOD

☒ Overland ☐ Sea Freight ☐ Air Freight ☐ Other

## CONTRACTOR'S COMMENTS:

The material is resubmitted enclosing the Estidama wall u-value calculator for a thermal conductivity of expanded polystyrene of 0.036 W/m.K (Overall u-value = 0.295 W/m<sup>2</sup>.K). The submitted product (Insolite 32-35 kg/m<sup>3</sup> rigid cellular expanded polystyrene thermal insulation sheet) with thermal conductivity of 0.0354 W/m.K (u-value = 0.306 W/m<sup>2</sup>.K) is less than Estidama values (Overall u-value = 0.32 W/m<sup>2</sup>.K) and meets project requirements.

If alternative material submitted, attach full comparison to that specified.

## ATTACHMENTS/ENCLOSURES

☒ Catalogues ☐ Drawings ☒ Samples ☐ Others

Contractor's Authorised Signature:

Date 11/12/2012

## ENGINEER'S COMMENTS:

- No objection.
- random site sample to be tested.
- Use to be walked within 48 hours of delivery to site.
- Material from different sources should not be used in a villa.

SHIP & DELIVERY		
DATE	BY	REMARKS
01/12/12	YAR	Emp.
14/12	YAR	Arch.
YAR	YAR	St. Engg.
		M. Engg.
		E. Engg.
		<input type="checkbox"/> I. Des.

## STATUS

☐ Approved ☒ Approved with comments ☐ Not Approved revise and resubmit ☐ Rejected as comments

Project Director

Date

Estidama Consultant

Date

Resident Engineer

Date

10/12/12

navi 13 29/11/12








		<b>MATERIAL APPROVAL REQUEST</b>		MAR NO: DCIC-TSMAR-213,660.1
BOROUGE 3 PROJECT		RUWAIS, UAE	CIVIL WORKS OF PO UNITS AND BUILDINGS	CONTRACTOR CODE: 3588-1Z-MR-P300845
		ABU DHABI POLYMERS COMPANY LIMITED (BOROUGE 3) شركة أبو ظبي للبلاستيك المحدودة (بروج)		COMPANY CODE: P3-SY-106-00845
 <b>ORASCOM CONSTRUCTION INDUSTRIES</b>				

<b>Item</b>	<b>INSOLITE (EXPANDED POLYSTYRENE INSULATION BOARD)</b>  -new dimension proposed (3m x 0.58m x 50mm) -for gypsum internal drywall perimeter lining
<b>Source/Manufacturer</b>	M/S STYRENE INSULATION INDUSTRY, ABU DHABI, UAE
<b>Supplier</b>	M/S AL REYAMI INTERIORS, ABU DHABI, UAE

### CONTENTS

Exhibit	
1	- Data Sheet
2	- Certificates
3	- Test Reports
4	- Previous Approval (Borouge Approval Attached)

[15 MAY 2012]

 <b>Technimont</b>  <b>SAMSUNG ENGINEERING</b>  <b>Borouge</b> <small>Engineering - Construction - Services</small>	<b>DOCUMENT TRANSMITTAL</b>	<b>TSS-OCI-P3-T-1335</b>
	<b>PO UNIT</b> <b>BOROUGE 3 PROJECT - RUWAI, U.A.E</b>	<b>Sheet 1 of 1</b>
<b>T&amp;J Ltd.</b> <b>(Technimont &amp; Samsung Joint Venture)</b>	<b>DATE</b> <b>17-MAY-2012</b>	

<b>From:</b> T&J Ltd. Mr. S.H. Lee General Construction Manager Tel : +971 2 6097809 E-mail : shlee@samsung.com	<b>To :</b> ORASCOM Construction Industry Attention to : Mr. Harris Cullis Project Manager Tel : 02-6764818 E-mail : hcullis@contract.com
---	---

<b>Subject:</b> REPLY TO OCIG-TSS-P3-T-1427 - MATERIAL APPROVAL REQUEST - INSOLITE (EXPANDED POLYSTYRENE INSULATION BOARD)
--

<b>The following documents are:</b>					
Original/s	Copy/s	CD/s			
<b>Type of Document/s:</b>					
Drawing/s	Specification/s	Procedure/s	Method Statement/s	Calculation/s	Invoice/s
Plan/s	Regulation/s	Other/s: Specify			
<b>Transmitted For:</b>					
For Approval	For Information	For Resubmit	For Comment/s	For Construction	For Excavation & Procurement
<b>Internal Distribution:</b>					
Admin	HSE	QA/QC	Civil Const.	Piping Const.	Mech. Const.
Welding	MCG	HVAC	Elec. & Instr.	Painting & Installation	Struc.
Building	PEM	IT	Planning	SM	CM

SN	Document/Drawing Number	Document/Drawing Title	Rev.	Status	No. of Copy/s	Sheet No/s
1	3583-LZ-MR-P300845	MATERIAL APPROVAL REQUEST - INSOLITE (EXPANDED POLYSTYRENE INSULATION BOARD)	L	A	1	11

**Remarks:**  
 T&J approved this Material Approval Request; however this approval shall not relieve any of OCIG's responsibilities to follow Borouge 3 / T&J specifications/requirements and is subject by the COMPANY

<b>ACKNOWLEDGEMENT RECEIPT:</b>		Kindly acknowledge the receipt of listed documents by return of this form, and duly emailed, to: seetoc@samsung.com
Recipient: _____	Date: _____	

Best regards

  
**S.H. Lee**  
 General Construction Manager  
 T&J Ltd.

(1) Status Code : NA = Not Accepted; AC = Accepted with Comment; A = Accepted; CR = Commented & Resubmit; H = Hold;  
 FI = For Information; FR = For Review; FC = For Comments; FA = For Approval; Q = For Construction;  
 N = For Detail Engineering; P = For Design Development



		<b>MATERIAL APPROVAL REQUESTS (MAR)</b>		CONTRACTOR CODE: <b>3583-LZ-MR-P300845</b>	
<b>BOROUGE 3 PROJECT</b>		RUWAI, UAE	CIVIL WORKS OF PO UNITS AND BUILDINGS	MAR NO: BCI-TSI-MAR-313 Rev.1	15-MAY-12
		<b>ABU DHABI POLYMERS COMPANY LIMITED (BOROUGE 3)</b> شركة أبو ظبي للبلاستيك المحدودة (بروج)		COMPANY CODE: <b>P3-SY-106-00845</b>	
<b>SUBCONTRACTOR:</b>		<b>ORASCOM CONSTRUCTION INDUSTRIES</b>			

<b>APPROVAL REQUESTED FOR</b>	INSOLITE (EXPANDED POLYSTYRENE INSULATION BOARD)
<b>MANUFACTURER/SUPPLIER</b>	M/S AL REYAMI INTERIORS, ABU DHABI, UAE
<b>CATALOGUE REF</b>	M/S STYRENE INSULATION INDUSTRY, ABU DHABI, UAE
<b>SAMPLES</b>	
<b>MATERIAL DESCRIPTION:</b>  INSOLITE (EXPANDED POLYSTYRENE INSULATION BOARD)  -new dimension proposed (2m x 0.58m x 50mm) -for gypsum internal drywall perimeter lining	
<b>ATTACHMENTS:</b> 1 Data Sheet 2 Certificates 3 Test Reports	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>BOROUGE 3-PO PROJECT</b>  <b>DOCUMENT TSI REVIEW STATUS</b>  <input checked="" type="checkbox"/> ACCEPTED  <input type="checkbox"/> ACCEPTED (WITH COMMENTS)  <input type="checkbox"/> REJECTED  <input type="checkbox"/> FOR INFORMATION          BY: <u>AE- [Signature]</u>          DATE: <u>17/5/2012</u> </div>
<b>WHERE TO BE USED:</b> Insulation board for gypsum internal drywall perimeter lining	
<b>RELEVANT DRAWINGS AND SPECIFICATIONS:</b> Borouge General Specification BGS-AU-057 Rev. B3	
<b>FOR SUBCONTRACTOR:</b>  PREPARED BY: <b>MAGDY SHOHDY</b> (QC MANAGER)      DATE: <b>15-May-12</b> SIGNATURE: <u>[Signature]</u>	
<b>FOR TSI:</b> <input type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED SUBJECT TO <input type="checkbox"/> NOT ACCEPTED	
<b>COMMENTS:</b>  	
NAME: _____ DATE: _____ SIGNATURE: _____	



# GASCO HABSHAN-5

PROCESS PLANT PROJECT NO. 5239  
EPC

RETURN TO JV TRANSMITTAL



Agreement No. 13523909

To: Mr. Fausto Chiaruttini,  
JV Site Manager  
JGC-Tecnimont Joint Venture  
PO Box: 114784,  
Abu Dhabi, UAE

From: Essam Bahnassi  
Senior Project Manager  
(Company Representative)  
Habshan-5 PP Site Office  
Abu Dhabi - U.A.E.

PMTc Transmittal No: 5239-T-G(S)/J(S)-0568

Date: 03 Mar 2011

In response to JV Transmittal: 5239-TN-J(S)/G(S)-0621

Date: 22 Feb 2011

Document No.

MAR-A-K-210

Document Title

MAR for Waterproofing System for Building

Rev

1

Doc Class

1

PMTc  
Status  
Code

2

Tecnimont 5239 Habshan-5			
INTERNAL DISTRIBUTION			
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PROJECT NO. : HABSHAN-5 PROCESS PLANT  
PROJECT NO. : 5239  
AGREEMENT NO. : 13523909



# MATERIAL APPROVAL REQUEST (MAR)

MAR NO. : M A R - A - K 2 1 0 REV NO. : 1 DATE : 1 0 - F E B - 1 1

Field Material Regulation Item (FMR Item)

Non-Engineered / Non-Critical Items (MAR)

## Proposed Material and Vendor Details :

No.	Description of Material	Manufacturer & Country	Vendor/Supplier/Stockist & Country
<b>Waterproofing System for Buildings</b>			
1	Farm Concrete (Actab)	M/s. Advanced Concrete Technology - U.A.E	M/s. Awatco Co. LLC - U.A.E
2	Primer (Bitumen Based Polyprime SB)	M/s. Henkel Polybit Industries Ltd - U.A.E	M/s. Awatco Co. LLC - U.A.E
3	Bitumen Based Water Proofing Membrane (Bituplus-E & Bituplus-G)	M/s. Henkel Polybit Industries Ltd - U.A.E	M/s. Awatco Co. LLC - U.A.E
4	Expanded Polystyrene Insulation Board (Insolite Board)	M/s. Styrene Insulation Industry - U.A.E	M/s. Awatco Co. LLC - U.A.E
5	Geotextile Membrane (Geo Fabrik)	M/s. Geo Fabrik Industries LLC - U.A.E	M/s. Awatco Co. LLC - U.A.E
6	IGAS-Block (Bituminous Sealant)	M/s. Sika - U.A.E	M/s. Sika - U.A.E
7	Galvanized Steel Flashing	M/s. Awatco Co. LLC - U.A.E	M/s. Awatco Co. LLC - U.A.E
8	Stainless Steel Nail	M/s. Awatco Co. LLC - U.A.E	M/s. Awatco Co. LLC - U.A.E

## Specification Requirement / Details

As per specification DGS 2020 004

## Location and Use (Site & Unit Details)

GASCO - IGD - HABSHAN 5 PROCESS PLANT PROJECT- WATER PROOFING SYSTEM FOR BUILDINGS

## Compliance with Specification / Technical Requirements

As per specification DGS 2020 004

## Attachments :

No.	Material Sample		Material Brochure of Manufacturer		Test Certificate / Other Documents
	Yes	No	Yes	No	
1	✓	✓	✓	✓	ATTACHED
2	✓	✓	✓	✓	ATTACHED
3	✓	✓	✓	✓	ATTACHED
4	✓	✓	✓	✓	ATTACHED
5	✓	✓	✓	✓	ATTACHED
6	✓	✓	✓	✓	ATTACHED
7	✓	✓	✓	✓	ATTACHED
8	✓	✓	✓	✓	ATTACHED

## Notes / Comments

## For Kharafi National Co. L.L.C

Prepared by Eng. Dept : MAHMOUD MAHDI Date: 10-02-11 Signature:

Reviewed by QC Dept : P. M GANESAN Date: 10-02-11 Signature:

Approved by PCM : RAJUL PANT Date: 10-02-11 Signature:

## For JGC / Technovent

Accepted ☐ Accepted with comment ☒ Not accepted ☐

Comments : 1. Applicant should give 10 years warranty for complete system as per 17.1.3 of DGS  
2. Mfr / Manufacturer compliance certificate shall be provided to each component.  
3. Work shall be carried out strictly as per approved method of application.

Name : S. S. A. Date: 14/02/2011 Signature:

## For GASCO

Approved ☐ Accepted with comments ☒ Not accepted ☐




Comments : PLEASE SEE ATTACHED COMMENT SHEET.

Name : RENE BAGUINAT Date: MARCH 3, 2011 Signature:

**GASCO - IGD HABSHAN-5 PROCESS PLANT PROJECT - EPC Phase**  
**CONSOLIDATED DOCUMENT REVIEW COMMENTS**

COMMENT SHEET No. MAR-A-K-210 Rev.1 - Cam Rev.A					
Document No : MAR-A-K-210		Rev : 1		Description: WATER PROOFING SYSTEM FOR BUILDINGS	
Transmittal No : 5239-TN-V(S)(S)-0621		Date : 22/02/11		PMTC Response Coordinator : Rene Bayle	
Document Status Code : 2		Code 1 - Document Rejected. Code 2 - Comment as Noted. X		Code 3 - No Comments Code 4 - Information Only	
COMPANY Comments / Date: 03 Mar 2011 (Identify Section/Paragraph)		CONTRACTOR Reply / Date:		COMPANY Decision / Date:	
1	Mandatory to furnish to the COMPANY a ten (10) warranty against a roofing system failure. Refer to 13.1.4 for Warranty.				
2	<u>Expanded Polystyrene Insulation Board (Insolite Board):</u> Company requires EPC to use moulded density between 32-35 kg/m3 of Insolite Board as shown in the catalogue.				



COMPANY	CONTRACTOR	SUBCONTRACTOR
		
Job No.: 032090	Agreement No.: 13524208	Contract No.: 573839
Project Title: Shah Gas Development Project		

## Drawing/Document Transmittal Form

TRN. No.	
Date:	

FROM: Mr. MOHAMED FARAG  
Project Manager - TARGET  
Address: P O Box 950  
Abu Dhabi, UAE  
Telephone: +97126715710  
Mobile: +971504109790  
Fax: +97126715610  
E-mail: mfarag.civil@targetabudhabi.com

TO: Mr. ALESSANDRO CURIO  
Construction - Project Manager  
SAIPEM Shah Site  
SAIPEM Abu Dhabi Branch  
Address: P O Box 47117, Abu Dhabi, UAE  
Telephone: +97126989898  
Mobile: +971552193977  
Fax: +97126989893  
E-mail: Alessandro.Curio@saipem.com

☐ First Submission

☐ Further Submission

Previous TRN Ref: "AHT-2-1-16-113"

Date: 10/04/2012

Sr. No.	Document No.	Rev.	Status	Copies	Approval Category
1	A MP02-0700-28-MAR-02C2a	82	75	10/04/2012	2
	B 700-2A-E-08082				
	C 700-2A-E-18082				

THIS SUBMITTAL IS INTENDED FOR (✓ Tick as applicable)


☒ APPROVAL / COMMENTS

☐ YOUR INFORMATION / RECORDS

☐ AS PER YOUR REQUEST

☐ YOUR NECESSARY ACTION

Kindly acknowledge receipt and return transmittal copy.

SUBCONTRACTOR	CONTRACTOR
Name: Mohamed Farag	Name:
Signature: 	Signature:
Position: Project Manager	Position:
Date: 22/09/2012	Date:

Legend: A: Company Document No., B: Saipem Document No., C: Construction Contractor Document No.

Form No. 230-2A-E-080801-FM-03, Rev. 02, Date: 06-04-2011





eni saipem

Job 002090  
Type BLS

Scope of Supply: ENG, PROD, CONSTR, RESOUR, COMM, TEST RUN

Description: SHAH DAS DEVELOPMENT PROGRAM 25°C  
PACKAGES 2 AND 3  
ASU DRIVES GAS DEVELOPMENT COMPANY  
LIMITED

Transmittal

From: Mr. Grandino Stefano  
CONTRACTOR Representative  
7th Floor, Suite Nos. 701/702 Dhaif Tower  
P.O. Box 47117, Abu Dhabi

Transmittal Number T-SM2-TAP2-0046

Transmittal Title

Transmittal Date 03/10/2012

Copies: SOFT COPY - (COMING)  
Reason for Transmittal 2 - COMMENTS AS NOTED

To: TARGET Engineering Construction Company  
LLC  
P.O. Box 960  
Abu Dhabi  
UAE Arab Emirates  
Attn: Mr. Mohamed Farag  
Project Manager

Received

Date

Signature

This document is the property of Eni and its contents are confidential. It is to be used only for the purposes for which it was issued. Any unauthorized use or disclosure is strictly prohibited.

Reference: 002090

Revision: 002090-01

For use only

Page 1 of 1



eni saipem

Job 000080

Type 3115

Scope of Supply ENCL. PROD. CONST. FREEDOM COMM. TEST RUN

Description SHAW GAS DEVELOPMENT PROGRAM GPC  
PACKAGES 2 AND 3  
ASU DESIGN GAS DEVELOPMENT COMPANY  
CLASAL LIMITED

Transmittal

Revision 1-5143 1102-05-001

SP Number

Title

110-24-6-10000000

110-24-6-10000000

ENC

ENC

Designing code

Supplier code

SHAW INTERNAL APPROVAL REQUEST FOR ROOF INSULATED PRODUCTION BOND TRAY TRUCK FOR BULKY PROFILES  
SHAW INTERNAL APPROVAL REQUEST FOR BOND FOR GALVANIZED AND WOODEN AND STEEL STRUCTURES  
APR-07-02-00000000  
APR-07-02-00000000



مركز أبوظبي لتطوير الغاز المحدودة  
Shah Gas Development (SGD) Project  
Comment Review Sheet (CRS)



6/1/11

6/1/11

COMPANY Doc. No.:  
MP02-0700-89-MAR-08081

CONTRACTOR Doc. No.:  
700-ZA-E-08081

Class: 2

Package

Description: MATERIAL APPROVAL REQUEST ALTERNATE  
PROPOSAL INSULATION BAORD 75MM THICK FOR ROOF  
WATERPROOFING

STATUS CODE:

1 - REJECTED

2 - COMMENTS AS NOTED

3 - ACCEPTABLE

4 - INFORMATION ONLY

Transmittal No.: 11/03/11 Date: 03/10/12

Orig. Transmittal No. T482-S42-TRN-0911 Date: 22/09/2012

Item Doc. Rev CONTRACTOR Comments

1 B2 Insulation must be installed as per manufacturers instruction

CONTRACTOR Originator:

Name: Paolo PALMA

Date: 03/10/2012

Signature:

CONTRACTOR Representative:




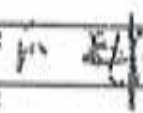
Name: Enrico FARINA


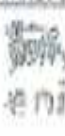


Date: 03/10/2012

Signature:

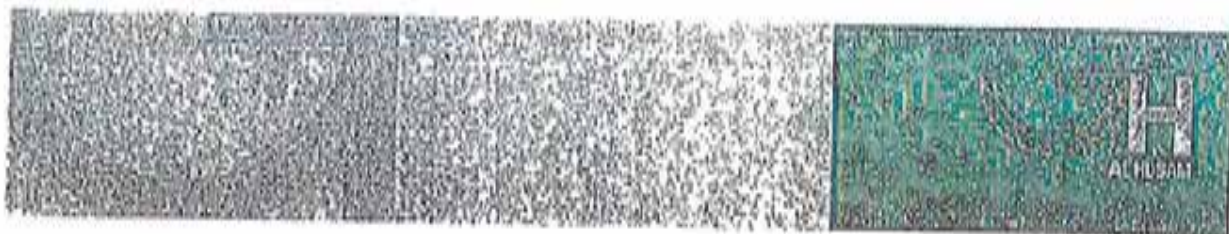


		<b>Project Engineering Department</b> On, W.L.L.																																																						
Agreement No. 11881705		Contract No. 072005																																																						
<b>Slab On Grade Level: 1st Floor</b>																																																								
<b>Material Approval Request</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>MAR. 14</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 15</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 16</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 17</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 18</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 19</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 20</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 21</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 22</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 23</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 24</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 25</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 26</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 27</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 28</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 29</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 30</td> <td>1</td> <td>100%</td> </tr> <tr> <td>MAR. 31</td> <td>1</td> <td>100%</td> </tr> </table>	MAR. 14	1	100%	MAR. 15	1	100%	MAR. 16	1	100%	MAR. 17	1	100%	MAR. 18	1	100%	MAR. 19	1	100%	MAR. 20	1	100%	MAR. 21	1	100%	MAR. 22	1	100%	MAR. 23	1	100%	MAR. 24	1	100%	MAR. 25	1	100%	MAR. 26	1	100%	MAR. 27	1	100%	MAR. 28	1	100%	MAR. 29	1	100%	MAR. 30	1	100%	MAR. 31	1	100%
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Material Approval Request		Status: <b>FOR</b> Date: <b>22.09.2012</b>																																																						
Description: Board 75 mm thick (Alternative proposed for Roof Waterproofing)		Rev. No: <b>21.10 Rev. 24.09.12</b>																																																						
Material Trade Name: <input type="checkbox"/> Listed <input checked="" type="checkbox"/> Proposed		Supplier: - Name: <b>Mr. Khaled Hammad Al-Faraj</b> Address: <b>Al-Faraj</b>																																																						
Contract Specification Details / Technical Specifications: <b>OGS-2020-004 Rev.1 Clause 13</b> <b>MP02-0230-20-ADD-020004 Clause 13.2.4</b>		Discipline: <b>CIVIL</b>																																																						
Location / Area of Use: <b>For Roof Waterproofing as shown on approved Project drawings.</b>																																																								
Provide Details of proposed materials: Please refer to enclosed Product data sheet																																																								
Attachments:																																																								
Specification Sheet	Yes <input checked="" type="checkbox"/> Detailed Data Sheet	Yes <input checked="" type="checkbox"/> Samples Submitted																																																						
Original Brochure	Yes <input checked="" type="checkbox"/> Recent Test Results	Yes <input checked="" type="checkbox"/> Other Supporting Documents Attached																																																						
Notes / Comments:																																																								
For Sub Contractor:	Name and Title: <b>Mohamed Farag - Project Manager</b>	Signature:																																																						
For BAAF EHS:	Name and Title: <b>Stefano Pasquini - PM Construction</b>	Signature:																																																						
<b>COMPANY APPROVAL / REVIEW CODES</b>																																																								
Approval Code- (1) <input type="checkbox"/> Rejected	Approval Code- (2) <input checked="" type="checkbox"/> Comments as Noted	Approval Code- (3) <input type="checkbox"/> Accepted																																																						
Review by: <b>PMO</b>	Name and Title: <b>DUNCAN LYLE-FARWILL</b> <b>PROJECT MANAGER BUILDINGS</b>	Signature: 																																																						
Approved by: COMPANY	Name and Title: <b>N. H. W. H. H.</b> <b>12.02.02</b>	Signature: 																																																						
COMMENTS:																																																								
Material to be installed as per manufacturer's instructions.																																																								
Legend: A- Company Document No., B- Supplier Document No., C- Construction Contractor Document No. Form No. 230-2A-E-089881-PM-04, Rev. 01, Date: 02-04-2011																																																								

																				
Job No.: 032090	Agreement No.: 13024209	Contract No.: 073639																		
Project Title: <b>Slush Gas Development Project</b>																				
<h2 style="margin: 0;">Material Approval Request</h2>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>MAR. No.</td> <td>A MP02-0700-00 MAR-080881</td> </tr> <tr> <td></td> <td>B 700-2A-E-000881</td> </tr> <tr> <td></td> <td>C 700-2A-E-000881</td> </tr> <tr> <td>Rev. No.</td> <td>B2</td> </tr> <tr> <td>Status</td> <td>ICR</td> </tr> <tr> <td>Date:</td> <td>22.09.2013</td> </tr> <tr> <td>See S/C Ref.</td> <td></td> </tr> </table>	MAR. No.	A MP02-0700-00 MAR-080881		B 700-2A-E-000881		C 700-2A-E-000881	Rev. No.	B2	Status	ICR	Date:	22.09.2013	See S/C Ref.					
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Rev. No.	B2																			
Status	ICR																			
Date:	22.09.2013																			
See S/C Ref.																				
<b>Material Description:</b>  <b>Insulation Board 75 mm thick (Alternate proposal) for Roof Waterproofing</b>																				
<b>Material Trade Name:</b> <input type="checkbox"/> Listed <input type="checkbox"/> Proposed		<b>Supplier: -</b> Name: Wa Express Insulating Material Address: Abu Dhabi																		
<b>Contract Specification Details</b>	<b>Technical Specifications:</b> DGS-2020-004 Rev.1 Clause13 MP02-0230-20-ADD-020004 Clause 13.2.4	<b>Discipline:</b> <b>CIVIL</b>																		
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<b>Notes / Comments:-</b>																				
<b>For Sub Contractor:</b>  <b>For SAIPEM:</b>	<b>Name and Title:</b> Mohamed Farag – Project Manager  <b>Name and Title:</b>	<b>Signature:</b>   <b>Signature:</b>																		
<b>COMPANY APPROVAL / REVIEW CODES</b>																				
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<b>Review by</b> <b>PMC</b>	<b>Name and Title:</b>	<b>Signature:</b>																		
<b>Approved by</b> <b>COMPANY</b>	<b>Name and Title:</b>	<b>Signature:</b>																		
<b>COMMENTS:</b>   																				
<small>Legend: A: Company Document No., B: Saipem Document No., C: Construction Contractor Document No.          Form No. 230-2A-E-089601-PM-04, Rev. B2, Date: 06-04-2011</small>																				

 SAIPM Suez Canal Authority	 SAIPM Suez Canal Authority	<b>CONSTRUCTION CONTRACTOR</b>  <b>FARAG</b> Farag Engineering Construction Co. W.L.L.				
Job No.: 032090	Agreement No.: 11024208	Contract No.: 073030				
Project Title: <b>Shah Gas Development Project</b>						
<b>Specification Comparison Sheet</b>	MAR Ref. No. 700-ZA-E-08088	Rev. B2 Date 22-09-2012				
Material Trade Name <b>Insulation Board 75 mm thick Roof Waterproofing</b>						
No	Specification Clause Reference	Requirements	Proposed Material Specification	Compliance		Remarks
				Yes	No	
	MP02-0230-20-ADD-020004 Clause 13.2.4	Insulation: Expanded polystyrene Insulation board 75mm thick to a density of 32-35kg M <sup>3</sup>	Insolite Moulded Expanded Polystyrene Board 75mm thick to a density 32 to 35 kg/m3 bonded to concrete whilst DUSEAL R is wet	✓		
Manufacturer / Supplier Quality Assurance System Details: Applicable <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/>						
Manufacturer / Supplier Applicable Quality Control Procedure: Applicable <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/>						
Details in Case Applicable:						
Details in Case Applicable:						
Reviewed by <b>Sub Contractor</b>	Name and Title Mohammed Farag – Project Manager		Signature 			
Notes from SAIPM:						
Reviewed by Saipem	Name and Title		Signature			





Ref : ALH/MUB/A-223/NA/KS/1067

Date: 02 Oct 2012

Page: 1 + Document

TO : M/S. ABU DHABI OIL COMPANY (ADOC),  
(JAPAN) ABU DHABI, UAE.

*Alh  
Fawket Sam*

ATTN : MR. HIDEYA UOZUMI  
MANAGER P.M. DEPT.

Project : EXTENSION OF MUBARRAZ SENIOR ACCOMMODATION AND  
MODIFICATION OF JUNIOR ACCOMMODATION  
[Contract no. ADOC/PM-10/CN-17]

Sub: Material Approval Request of Expanded Polystyrene Sheet

Dear Sir,

Reference to the above subject; please find attached 3 sets of copies of the Material Approval Request for the below mentioned material.

SLNO	Material Description	Ref. No	Rev
1.	Insolite Boards	ALH-A223-C-MA-108	0

This is for your kind review and approval.

Thanks and Regards,

*NABIE ABDEL SAMAD*  
MANAGEMENT  
Gen. Cont. Est.  
ABU DHABI, UAE  
NABIE ABDEL SAMAD  
PROJECT MANAGER



CC:

Mr. K. Fujino (Project leader)-ADOC  
Mr. N. Yoneda (Asst. Project Leader)-ADOC  
Mr. Badi El Akhal (Director) Mechanical Dept. & Projects -Al Husam

**COPY**

*ADOC COMMENTS*

*PLEASE SUBMIT THE SAMPLE  
OF MATERIALS.*

مجموعة الحسام  
Al Husam Group

P.O.Box 40888 Abu Dhabi, UAE T: +971 2 8455227 F: +971 2 8455228 E: alhusam@emirates.net.ae www.alhusamgroup.com Trade License: Abu Dhabi 1172889

# AL HUSAM GENERAL CONTRACTING EST.

SUBMITTAL REF: ALH-A233-C-MA-108 Rev-0

DATE: 02/11/2012

## MATERIAL APPROVAL FORM

Contract / Order /Letter of Intent Reference and Date	Contract No: ADOC/PM-10/CN-17 Dated : 29/09/2011	
Name of the Project	EXTENSION OF MUBARRAZ SENIOR ACCOMMODATION AND MODIFICATION OF JUNIOR ACCOMMODATION	
Name of Main Contractor	AL Husam General Contracting Est.	
Material	Specified	Proposed
50MM THK INTERLOCKING IMPRGNATED POLYSTYRENE SHEET	DRAWING NO. 1145101, REV-02	INSOLITE BOARDS - MOULDED EXPANDED POLYSTYRENE
Quantity	Location / Area	Remarks If Any
As Required	SENIOR AND JUNIOR ACCOMMODATION	Technical Details attached.
Name of Product / Manufacturer	STYRENE INSULATION INDUSTRY, UAE	
Name of Local Agent	STYRENE INSULATION INDUSTRY, UAE	
Proposal is for alternative materials please give reasons (s) for such alternative materials.	N.A	
Approved	If Approved any Condition	If rejected Reasons (s)
Stamp, Signature & Date	Stamp, Signature & Date	Stamp, Signature & Date

**SITE MANAGEMENT**  
AL Husam Gen. Cont. Est.  
PO BOX 108, ALJUBAIL, UAE

Signed & Stamped

For AL Husam General Contracting Est.



Process & Maintenance  
Department

Phone # 00971-2-6661100

Fax No. 00971-2-6671064  
e-mail:

## Document Transmittal Form

To: Al Husam Gen. Cont. Est.  
P.O.Box 40689  
Abu Dhabi  
U.A.E.

Date: 16-10-2012

Ref No: PM-2013-DT- 525

Attn: Mr. Nabil Samad

From: K. Fujino

*K. Zymla*  
Signed by

Subject: Extension of Mub Senior Accommodation and Modification of Junior Accommodation,  
Contract BW1AUC7/PM10/CR17

Please Receive the following Letters / Tender/ Drawings/ Documents/Materials

[illegible]

If there are any comments regarding above documents please inform us.

Remarks

RECEIVED  
17 OCT 2012

### Receiving Data

Receiver Name

Receiver's Sign \_\_\_\_\_



## TELEFAX MESSAGE

Date : 11.12.2012

Ref. No. : 0020-NBHH-ALF-SW-09-WB-6

FROM	Engr. Waad Butrus Project Manager	TO	Mr. Anwar Alam Khan Sales Executive
Project	Al Falah Community Development	Company	M/s. Styrene Insulation Industry.
Tel. No.	02-5636 370	Tel. No.	02-5511 166
Fax No.	02-5636 410	Fax No.	02-5511 570

PROJECT: AL FALAH COMMUNITY DEVELOPMENT EXTERNAL  
STORM WATER - DISCHARGE LINE & LAGOON  
NO. A290101/2011/C/073

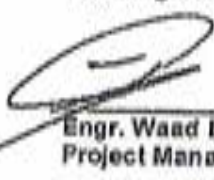
SUBJECT: APPROVED MATERIAL SUBMITTAL FOR POLYSTYRENE BOARD.

Dear Mr. Serkan,

With reference to the above mentioned subject, please find attached herewith M/s. Hyder response ref. MU000728/MA/DS/NBHH/03495 dated 09.11.2012 (copy attached), with conditional approval comments, which is self explanatory.

This is for your information and further necessary action.

Best Regards,

  
Engr. Waad Butrus  
Project Manager

Cc: Projects Director  
Memo File



Hyder Consulting Middle East Limited  
P.O. Box: 2774  
Abu Dhabi  
United Arab Emirates  
Tel: +971 (0) 2 633 3600  
Fax: +971 (0) 2 633 0743  
www.hyderconsulting.com

هايدر كونسولتينج ميديا ايست ليميتيد  
ص.ب. ٢٧٧٤  
أبو ظبي  
الإمارات العربية المتحدة  
الهاتف: +٩٧١ (٠) ٢ ٦٣٣ ٣٦٠٠  
فاكس: +٩٧١ (٠) ٢ ٦٣٣ ٠٧٤٣  
www.hyderconsulting.com

09<sup>th</sup> December 2012

NAEL& BIN HARMAL HYDRO  
EXPORT EST.(NBHH)  
Abu Dhabi, UAE

Our Ref: MU000728/MA/DS/NBHH/03495

For the attention of: Mr. Waad Butrus (PM)

Dear Sir,

**Project:** AL FALAH DEVELOPMENT – External Storm water Discharge line and Lagoon  
**Subject:** Material Submittal - Polystyrene Board (Insolite - 50 mm) for flexible RC Pipe Joints


We refer to your document No.ALF-NBH-SW-MTU-00007-SW Rev.00 dated 13<sup>th</sup> November 2012 enclosing Technical Material Submittal of Polystyrene Board manufactured and supplied by M/s Styrene Insulation Industry, to be used for flexible RC pipe joints.

We hereby approve the proposed material submittal with status "B" subject to:-

- Boards shall be pre-cut as required; cutting of boards on site is not permitted.

This is for your information and further action.

Yours sincerely

  
Mohammed Younes  
Project Director  
Hyder Consulting Middle East Limited



Cc: Fluor Middle East LTD  
Site File  
End: As noted above



Fluor Middle East LTD



KHALIFA PORT AND INDUSTRIAL ZONE PROJECT  
1001 - 250 - TAWEELAH ROAD DUALLING

شركة الموانئ والبنية التحتية  
ABU DHABI PORTS COMPANY

Material Submittal

PROJECT: TAWEELAH ROAD DUALLING

Client:	ABU DHABI PORTS COMPANY	Contractor:	HILALCO
Doc No:	1001-250-V4-0000-00042-002	Date:	20-Jan-10

☒ (2) As Specification ☐ Alternative

EXPANDED POLYSTYRENE (24-26 KG/M<sup>3</sup>)

☒ Sample Attached:

Specification Ref: - Drawing Ref: 1001-140-DH-MOUC-40084

EOQ Ref: - Standards Ref: ASTM D - 1622

Area / Location of Use: Dolphin Protection Slab Date Material Required on Site: 01-Feb-10

Supplier: Manufacturer: Locally Manufactured: ☒ Yes ☐ No

Styrene Insulation Industry: Styrene Insulation Industry Freight Time:

Address: U.A.E Address: U.A.E Shelf Time: Delivery Date: Ex stock

HILALCO DOCUMENT REVIEW

*[Signature]*  
Quality Assurance Manager  
*[Signature]*  
Office Engineer Review  
*[Signature]*  
Construction Manager

CONTRACTOR DOCUMENT REVIEW

<input checked="" type="checkbox"/>	CODE -1	Work may proceed.
<input type="checkbox"/>	CODE -2	Revise and Resubmit, Work may proceed subject to incorporation of
<input type="checkbox"/>	CODE -3	Revise and Resubmit, Work may not proceed.
<input type="checkbox"/>	CODE -4	Review not required, work may proceed.

ANY REVIEW, EDITING OR ACCEPTANCE BY EMPLOYER UNDER THIS CONTRACT WITH RESPECT TO ANY OF CONTRACTOR'S DOCUMENTS DOES NOT IMPLY ANY RE, OR DECISION TO BE AN APPROVAL OF ANY WORK OR AN ACCEPTANCE THAT THE CONTRACTOR'S DOCUMENTS MEET THE REQUIREMENTS OF THE CONTRACT, AS CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR PERFORMING THE WORKS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT.

PROJECT MANAGER

DATE

RESIDENT ENGINEER

DATE

KPZ 00021 00410 0073





Hilal Badi & Partners Contracting Company (WLL)

FACSIMILE TRANSMITTAL FROM +971-02-5623599

To: Styrene Insulation Industry Dubai	Date: 13 February 2010 Ref: AD476/LDV/9.1.1/347 /09
Tel: 02-5511166 Fax: 02-5511570 Attn: Mr. Nisar	Our Tel: 02-5623598 No. of Pages: 1

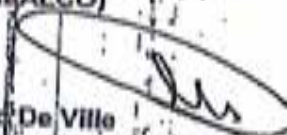
Contract Khalifa Port and Industrial Zone (KPIZ) Project  
No.1001-250 - Taweeleh road Dualling

Subject: Material Submittal Approved Code 1.

Please find attached the CODE 1 approval for your material submittal.

Thanking You

For Hilal Badi & Partners Contracting Co. (WLL)  
(HILALCO)

  
Luc De Ville  
Project Manager