

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

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 C578 - 2018

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



for / ENGR. AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality



eiaci
مركز الاعتمادات العالمية للاعتماد
Emirates International Accreditation Centre
CB-003-PRD

Certificate No: CL06020008
Valid Until: 29/06/2020



Current Issue Date: 30/06/2019
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.

**DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

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

Certificate Issued To:	STYRENE INSULATION INDUSTRY 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 ³ (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	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)
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)

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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)

NOTE1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

NOTE2: The above product shall bear the DCL Conformity Mark.

NOTE 3: CFC Free as per declaration from the company, in accordance with the 2017 Al Sa'fat Dubai Green Building Evaluation System.

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

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

S N	PROPERTIES	TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV	TYPE XV
1	COMPRESSIVE RESISTANCE @ yield or 10% deformation, which occurs first, min kPa	35	69	90	104	173	276	414
2	THERMAL RESISTANCE of 25.4 mm thickness, @ mean temp. of @ 35°C and 60% RH min, K-m ² /W	0.53	0.60	0.64	0.67	0.74	0.71	0.73
3	THERMAL CONDUCTIVITY, max, W/m-K @ 35°C and 60% RH	0.0482	0.0419	0.0394	0.0377	0.0356	0.0356	0.0347

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4	FLEXURAL STRENGTH , min, kPa	70	173	208	240	345	414	517
5	WATER VAPOR PERMEANCE of 25.4 mm thickness, max, perm	5.0	5.0	3.5	3.5	2.5	2.5	2.5
6	WATER ABSORPTION by total immersion, max volume, %	4.0	4.0	3.0	3.0	2.0	2.0	2.0
7	DIMENSIONAL STABILITY (change in dimension), max, %	2.0	2.0	2.0	2.0	2.0	2.0	2.0
8	OXYGEN INDEX , min, volume %	24	24	24	24	24	24	24
9	DENSITY , min, kg/m ³	12	15	18	22	29	38	48

NOTE : THE ABOVE SPECIFICATION VALUES ARE EXTRACTED FROM TABLE 1 OF ASTM C578-18

Original Issue Date : 25 January 2006

Current Issue Date : 30 June 2019

Valid Until : 29 June 2020



ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department