

# 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:

**STYRO INSULATION MATERIAL INDUSTRY L.L.C.**

**Industrial Area No. 11, Sharjah, 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



Certificate No: CL05020005  
Valid Until: 30/06/2021



Current Issue Date: 01/07/2020  
Original Issue Date: 11/12/2005



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. CL05020005**

**Certificate Issued To:** **STYRO INSULATION MATERIAL INDUSTRY**  
Industrial Area No. 11, Sharjah, UAE

**Applicable Standard Specification:** ASTM C 578: 2018 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation

**Applicable Specific Rules:** DM-DCLD-RD-DP21-2106 (IC) “Specific Rules for Certification of Rigid, Cellular Polystyrene Thermal Insulation (ASTM C 578: 2018) Through Factory Assessment”.

No.	Product Description	Brand Name	Product Details		
			Size	Thickness	Type
1.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO 380 (29-38) kg/m <sup>3</sup> STYRO 380 B (29-38) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type IX</b> <i>(As per Table 1)</i>
2.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO 460 (38-46) kg/m <sup>3</sup> STYRO 460 B (38-46) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type XIV</b> <i>(As per Table 1)</i>
3.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO 290 (22-29) kg/m <sup>3</sup> STYRO 290 B (22-29) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type II</b> <i>(As per Table 1)</i>

DUBAI CENTRAL LABORATORY DEPARTMENT  
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION  
FOR CERTIFICATE NO. CL05020005

4.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO 220 (18-22) kg/m <sup>3</sup> STYRO 220 B (18-22) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type VIII</b> <i>(As per Table 1)</i>
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO Graypor 220 (18-22) kg/m <sup>3</sup>			
5.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO 180 (15-18) kg/m <sup>3</sup> STYRO 180 B (15-18) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type I</b> <i>(As per Table 1)</i>
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO Graypor 180 (15-18) kg/m <sup>3</sup>			
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet CFC Free <i>(see Note 3)</i>	STYRO 180 D (15-18) kg/m <sup>3</sup>			

DUBAI CENTRAL LABORATORY DEPARTMENT  
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION  
FOR CERTIFICATE NO. CL05020005

6.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet  CFC Free <i>(see Note 3)</i>	STYRO 150 (12-15) kg/m <sup>3</sup>  STYRO 150 B (12-15) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type XI</b> <i>(As per Table 1)</i>
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet  CFC Free <i>(see Note 3)</i>	STYRO Graypor 150 (12-15) kg/m <sup>3</sup>			
7.	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet  CFC Free <i>(see Note 3)</i>	STYRO 500 (min 46) kg/m <sup>3</sup>  STYRO 500 B (min 46) kg/m <sup>3</sup>	Various Sizes	4 mm up to 1300 mm	<b>ASTM Type XV</b> <i>(As per Table 1)</i>

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

*Note 2: The above products shall bear the DCL Conformity Mark (applied on each product or on the packaging).*

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

DUBAI CENTRAL LABORATORY DEPARTMENT  
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION  
FOR CERTIFICATE NO. CL05020005

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	35	69	90	104	173	276	414
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	0.53	0.60	0.64	0.67	0.71	0.71	0.73
3	<b>THERMAL CONDUCTIVITY</b> , max, W/m <sup>2</sup> °K @ 35°C and 60% RH	0.0482	0.0419	0.0394	0.0377	0.0356	0.0356	0.0347
4	<b>FLEXURAL STRENGTH</b> , min, kPa	70	173	208	240	345	414	517
5	<b>WATER VAPOR PERMEANCE</b> of 25.4 mm thickness, max, perm	5.0	5.0	3.5	3.5	2.5	2.5	2.5
6	<b>WATER ABSORPTION</b> by total immersion, max volume %	4.0	4.0	3.0	3.0	2.0	2.0	2.0
7	<b>DIMENSIONAL STABILITY</b> (change in dimension), max, %	2.0	2.0	2.0	2.0	2.0	2.0	2.0
8	<b>OXYGEN INDEX</b> , min, volume %	24	24	24	24	24	24	24
9	<b>DENSITY</b> , min, kg/m <sup>3</sup>	12	15	18	22	29	38	48

NOTE: The Above Specification Values are Extracted from Table 1 of ASTM C578: 2018

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*Original Issue Date:* 11 December 2005

*Current Issue Date:* 01 July 2020

*Valid Until:* 30 June 2021



**ARIF HUSAIN AL MARZOOQI**

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department