

# 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



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

Certificate No: CL05020005  
Valid Until: 30/06/2020



Current Issue Date: 01/07/2019  
Original Issue Date: 11/12/2005

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.  
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**DUBAI CENTRAL LABORATORY DEPARTMENT  
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION  
FOR CERTIFICATE NO. CL05020005**

<b>Certificate Issued To:</b>	<b>STYRO INSULATION MATERIAL INDUSTRY</b> Industrial Area No. 11, Sharjah, UAE
<b>Applicable Standard Specification:</b>	ASTM C 578 – 18 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation
<b>Applicable Specific Rules:</b>	DM-DCLD-RD-DP 21-2106 (IC) “Specific Rules for Certification of Rigid, Cellular Polystyrene Thermal Insulation (ASTM C 578 – 18) 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>

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4	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet  CFC Free <i>(see Note 3)</i>	STYRO 220 (18-22) kg/m3 STYRO 220 B (18-22) kg/m3	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/m3			
5	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet  CFC Free <i>(see Note 3)</i>	STYRO 180 (15-18) kg/m3 STYRO 180 B (15-18) kg/m3	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/m3			
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet  CFC Free <i>(see Note 3)</i>	STYRO 180 D (15-18) kg/m3			

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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: In compliance with clause 701.01 (1) of the 2017 AL SA'FAT – DUBAI GREEN BUILDING EVALUATION SYSTEM.*

**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	<i>35</i>	<i>69</i>	<i>90</i>	<i>104</i>	<i>173</i>	<i>276</i>	<i>414</i>
2	<b>THERMAL RESISTANCE</b> of 25.4 mm thickness, @ mean	<i>0.53</i>	<i>0.60</i>	<i>0.64</i>	<i>0.67</i>	<i>0.71</i>	<i>0.71</i>	<i>0.73</i>

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	temp. of @ 35°C and 60% RH min, K-m <sup>2</sup> /W							
3	<b>THERMAL CONDUCTIVITY</b> , max, W/m-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 C578-18**

*Original Issue Date : 11 December 2005*

*Current Issue Date : 01 July 2019*

*Valid Until : 30 June 2020*

**ARIF HUSAIN AL MARZOOQI**

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department