

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,

hereby attests that the product(s)

EXPANDED POLYSTYRENE THERMAL INSULATION

(Details as per the attached Scope of Certification)

manufactured by:

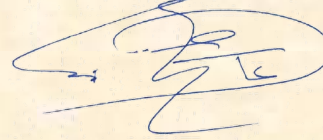
STYRO INSULATION MATERIAL INDUSTRY

P.O. Box 29272, 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 C578-16

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



for / ENGR. AMIN AHMED AMIN

Director, Dubai Central Laboratory Department

Dubai Municipality

Verify:



Certificate No: CL05020005

Valid Until: 30 June 2019



Current Issue Date: 01 July 2018

Original Issue Date: 11 December 2005

DM-DCLD-F-IC-2031 REV 13

The attached Scope of Certification bearing the same Certificate No. 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 P.O. Box 29272, Sharjah, UAE
Applicable Standard Specification:	ASTM C 578 – 16 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation
Applicable Specific Rules:	RD-DP 21-2106 (IC) “Specific Rules for Certification of Rigid, Cellular Polystyrene Thermal Insulation (ASTM C 578 – 16) Through Factory Assessment”.

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

DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

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4	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO 220 (18-22) kg/m ³ STYRO 220 B (18-22) kg/m ³	Various Sizes	4 mm up to 1300 mm	ASTM Type VIII <i>(As per Table 1)</i>
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO Graypor 220 (18-22) kg/m ³			
5	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO 180 (15-18) kg/m ³ STYRO 180 B (15-18) kg/m ³	Various Sizes	4 mm up to 1300 mm	ASTM Type I <i>(As per Table 1)</i>
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO Graypor 180 (15-18) kg/m ³			
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO 180 D (15-18) kg/m ³			

DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

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6	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO 150 (12-15) kg/m ³ STYRO 150 B (12-15) kg/m ³	Various Sizes	4 mm up to 1300 mm	ASTM Type XI <i>(As per Table 1)</i>
	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO Graypor 150 (12-15) kg/m ³			
7	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade <i>(see Note 1)</i> and CFC Free <i>(see Note 2)</i>	STYRO 500 (min 46) kg/m ³ STYRO 500 B (min 46) kg/m ³	Various Sizes	4 mm up to 1300 mm	ASTM Type XV <i>(As per Table 1)</i>

Note 1: Minimum acceptable oxygen index as per ASTM C578 is 24%, however, the fire Safety Requirements shall be aligned with UAE Fire and Life Safety Code of Practice 2017 by maximum 31-12-2018, otherwise the certificate will be suspended or withdrawn.

Note 2: In compliance with clause 701.01 (1) of the 2017 AL SA'FAT – DUBAI GREEN BUILDING EVALUATION SYSTEM.

Note 3: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Note 4: The above products shall bear the DCL Conformity Mark (applied on each product or on the packaging)

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	COMPRESSIVE RESISTANCE @ yield or 10% deformation, which occurs first, min kPa	35	69	90	104	173	276	414
2	THERMAL RESISTANCE of							



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	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	0.71	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
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 C578-16

Original Issue Date : 11 December 2005

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ARIF HUSAIN AL MARZOOQI

Head of Products Conformity Assessment Section
Dubai Central Laboratory Department