

# 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:

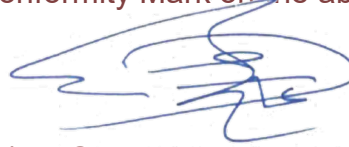
**GALAXY POLYSTYRENE LLC**

**P.O. Box 60448, Dubai Industrial City-Phase 3, Dubai, UAE**

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: CL16020315  
Valid Until: 27/01/2022



Current Issue Date: 28/01/2021  
Original Issue Date: 28/01/2016



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. CL16020315

**Certificate Issued To:**

**GALAXY POLYSTYRENE LLC**

P.O. Box 60448, Dubai Industrial City-Phase 3, Dubai, UAE

**Applicable Standard Specification:**

ASTM C 578 – 18 – 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 as per ASTM C 578 – 18 Through Factory Assessment".

No.	Product Description	Brand Name	Product Details
1	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 15 (White)	Various Sizes & Thickness Density=12 kg/m <sup>3</sup> (min) (ASTM Type XI as per Table 1)
2	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 18 (White)	Various Sizes & Thickness Density=15 kg/m <sup>3</sup> (min) (ASTM Type I as per Table 1)
3	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 22 (White)	Various Sizes & Thickness Density=18 kg/m <sup>3</sup> (min) (ASTM Type VIII as per Table 1)
4	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 29 (White)	Various Sizes & Thickness Density=22 kg/m <sup>3</sup> (min) (ASTM Type II as per Table 1)
5	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 38 (White)	Various Sizes & Thickness Density=29 kg/m <sup>3</sup> (min) (ASTM Type IX as per Table 1)

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6	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 48 (White)	Various Sizes & Thickness Density=38 kg/m <sup>3</sup> (min) (ASTM Type XIV as per Table 1)
7	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 60 (White)	Various Sizes & Thickness Density=48 kg/m <sup>3</sup> (min) (ASTM Type XV as per Table 1)
8	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPSG 22 (Grey)	Various Sizes & Thickness Density=18 kg/m <sup>3</sup> (min) (ASTM Type VIII as per Table 1)
9	Rigid Cellular Expanded Polystyrene Thermal Block Insert CFC FREE (see Note 3)	GPSIN 29 (White)	Size: 400 x 200 Thickness = 60, 110 and 160 mm Density=25 kg/m <sup>3</sup> (min) (see Note 4) (ASTM Type II as per Table 1)

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 (applied on each product or on the packaging).

NOTE 3: CFC & HCFC 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.



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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·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



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*Original Issue Date* : 28 January 2016

*Current Issue Date* : 28 January 2021

*Valid Until* : 27 January 2022

ARIF HUSAIN AL MARZOOQI  
Products Conformity Assessment Section Manager  
Dubai Central Laboratory Department