

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

SCOPE OF CERTIFICATION – REVISION 01

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 ³ (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 ³ (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 ³ (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 ³ (min) (ASTM Type II as per Table 1)

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5	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 38 (White)	Various Sizes & Thickness Density--=29 kg/m ³ (min) (ASTM Type IX as per Table 1)
6	Rigid Cellular Expanded Polystyrene Insulation Sheet CFC FREE (see Note 3)	GPS 48 (White)	Various Sizes & Thickness Density--=38 kg/m ³ (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 ³ (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 ³ (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 ³ (min) (see Note 4) (ASTM Type II as per Table 1)

*-newly added

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.

NOTE 5: This supersedes the Scope of Certification issued on 28 January 2020.



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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	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	0.71	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 C578-18



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Original Issue Date : 28 January 2016

Current Issue Date : 22 June 2020

Valid Until : 27 January

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager
Dubai Central Laboratory Department