

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:

Aspen Polystyrene Industry
Industrial Area No. 6, 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: CL05020004
Valid Until: 15/09/2020



Current Issue Date: 16/09/2019
Original Issue Date: 24/10/2005

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. CL05020004

Certificate Issued To:	ASPEN POLYSTYRENE INDUSTRY Industrial Area No. 6, Sharjah, U.A.E.
Applicable Standard Specification:	ASTM C 578 – 18 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation
Applicable Specific Rules:	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 Sheet CFC Free (See Note 3)	ASPEN	Various Sizes	1250 mm (max)	ASTM Type XI (as per Table 1)
2	Rigid Cellular Expanded Polystyrene Sheet CFC Free (See Note 3)	ASPEN	Various Sizes	1250 mm (max)	ASTM Type I (as per Table 1)
3	Rigid Cellular Expanded Polystyrene Sheet CFC Free (See Note 3)	ASPEN	Various Sizes	1250 mm (max)	ASTM Type II (as per Table 1)
4	Rigid Cellular Expanded Polystyrene Sheet CFC Free (See Note 3)	ASPEN	Various Sizes	1250 mm (max)	ASTM Type IX (as per Table 1)

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5	Rigid Cellular Expanded Polystyrene Sheet CFC Free <i>(See Note 3)</i>	ASPEN	Various Sizes	1250 mm (max)	ASTM Type XIV <i>(as per Table 1)</i>
6	Rigid Cellular Expanded Polystyrene Sheet CFC Free <i>(See Note 3)</i>	ASPEN	Various Sizes	1250 mm (max)	ASTM Type XV <i>(as per Table 1)</i>

**TABLE 1: PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR
EXPANDED 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

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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

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.

Original Issue Date : 24 October 2005

Current Issue Date : 16 September 2019

Valid Until : 15 September 2020

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager
Dubai Central Laboratory Department