

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:

OHANA INDUSTRIES LLC

PO BOX 6584, NATIONAL INDUSTRIES PARK, JAFZA 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



001-CB-PRD

Certificate No: CL19020679 01
Valid Until: 15/05/2021



Current Issue Date: 16/05/2020
Original Issue Date: 16/05/2019



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. CL19020679 (REV.01)

Certificate Issued To: OHANA INDUSTRIES LLC
PO Box 6584, National Industries Park, Jafza 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 Thermal Block Insert CFC Free (see Note 3)	OHANA	Size: 400 x 200 mm Thickness = 60 mm Density=25 kg/m ³ (min) (See Note 4) (ASTM Type II as per Table1)
2	Rigid Cellular Expanded Polystyrene Thermal Block Insert CFC Free (see Note 3)	OHANA	Size: 400 x 200 mm Thickness = 110 mm Density=25 kg/m ³ (min) (See Note 4) (ASTM Type II as per Table1)
3	Rigid Cellular Expanded Polystyrene Thermal Sheet CFC Free (see Note 3)	OHANA	Size: 1000 x 500 mm Thickness = 50 mm Density=15 kg/m ³ (min) (ASTM Type 1 as per Table1)

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4	Rigid Cellular Expanded Polystyrene Thermal Sheet CFC Free (see Note 3)	OHANA	Size: 1000 x 500 mm Thickness = 50 mm Density=18 kg/m ³ (min) (ASTM Type VIII as per Table1)
5	Rigid Cellular Expanded Polystyrene Thermal Sheet CFC Free (see Note 3)	OHANA	Size: 1000 x 500 mm Thickness = 50 mm Density=29 kg/m ³ (min) (ASTM Type IX as per Table1)
6	Rigid Cellular Expanded Polystyrene Thermal Sheet CFC Free (see Note 3)	OHANA	Size: 1000 x 500 mm Thickness = 50 mm Density=12 kg/m ³ (min) (ASTM Type XI as per Table1)
7	Rigid Cellular Expanded Polystyrene Thermal Sheet CFC Free (see Note 3)	OHANA	Size: 1000 x 500 mm Thickness = 50 mm Density=38 kg/m ³ (min) (ASTM Type XIV as per Table1)

Note1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Note2: The above product shall bear the DCL Conformity Mark.

Note 3: CFC 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: The revision of this Scope of Certification covers the new expiry date and supersedes the one issued last 16 May 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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ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager
Dubai Central Laboratory Department