

## 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:*

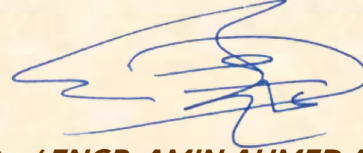
**ORIENTAL POLYSTYRENE PRODUCTS CO. L.L.C.**

**P.O. Box 144 Road No. 2, Rusayl Industrial Estate, Rusayl, Sultanate of Oman**

*have been assessed in accordance with DCLD Document Ref. No. 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: CL17020434**

**Valid Until: 04 March 2019**



**Current Issue Date: 05 March 2018**

**Original Issue Date: 05 March 2017**

F-IC-2031 REV 11

*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 – REVISION 01

### FOR CERTIFICATE NO. CL17020434

<b>Certificate Issued To:</b>	<b>ORIENTAL POLYSTYRENE PRODUCTS CO. L.L.C.</b> P.O. Box 144 Road no. 2, Rusayl Industrial Estate, Rusayl, Sultanate of Oman
<b>Applicable Standard Specification:</b>	ASTM C 578-18 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation
<b>Applicable Specific Rules:</b>	DM-DCLD-RD-DP21-2106 “Specific Rules for Certification of Rigid Cellular Polystyrene Thermal Insulation as per ASTM C 578-18 Through Factory Assessment”.

S/N	PRODUCT DESCRIPTION	BRAND NAME	PRODUCT DETAILS
1	Rigid Cellular Expanded Polystyrene Thermal Insulation Block Insert (see Note 1)  Fire Retardant Grade (see Note. 2)  and CFC Free (see Note 3)	ORI INSERT  Expanded Polystyrene (EPS)	Size: 400 x 200 x T mm  Thickness: 60 mm and 75 mm  ASTM Type II <i>(as per Table 1)</i>

Note 1: Minimum density required by Dubai Municipality for block insert.

Note 2: Minimum acceptable oxygen index as per ASTM C578 is 24%.

Note 3: In compliance with clause 701.01 (1) of the Green Building Regulations and Specifications

Note 4: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Note 5: The above products shall bear the DCL Conformity Mark (applied on each product or on the packaging).

Note 6: This supersedes the Scope of Certification issued on 05 March 2018.

**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



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**SCOPE OF CERTIFICATION – REVISION 01**

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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**

*Original Issue Date* : 05 March 2017

*Current Issue Date* : 17 January 2019

*Valid Until* : 04 March 2019

**ARIF HUSAIN AL MARZOOQI**

Head of Products Conformity Assessment Section

Dubai Central Laboratory Department