

# CERTIFICATE OF PRODUCT CONFORMITY

*Dubai Central Laboratory Department (DCLD) of Dubai Municipality,*

*hereby attests that the product(s)*

**EXTRUDED POLYSTYRENE THERMAL INSULATION**

*(Details as per the attached Scope of Certification)*

*manufactured by:*

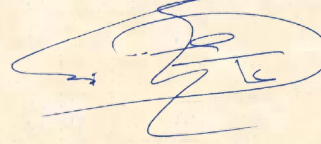
**EMIRATES EXTRUDED POLYSTYRENE LLC**

**P.O. Box 28807, Dubai Investment Park, Dubai, U.A.E.**

*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: CL08020044**

**Valid Until: 26 March 2019**



**Current Issue Date: 27 March 2018**

**Original Issue Date: 27 March 2008**

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 FOR CERTIFICATE NO. CL08020044

<b>Certificate Issued To:</b>	<b>EMIRATES EXTRUDED POLYSTYRENE LLC</b> P.O. Box 28807, Dubai Investment Park, Dubai, UAE
<b>Applicable Standard Specification:</b>	ASTM C 578-16 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation
<b>Applicable Specific Rules:</b>	RD-DP21-2106 “Specific Rules for Certification of Rigid, Cellular Polystyrene Thermal Insulation (ASTM C 578-16) Through Factory Assessment”.

S/N	PRODUCT DESCRIPTION	BRAND NAME	PRODUCT DETAILS
1	Rigid Cellular Extruded Polystyrene Thermal Insulation Board  Fire Retardant Grade (see Note 1) and CFC Free (see Note 2)	E-FOAM	Size: 1250 x 600 mm  Thickness: 25-100 mm  ASTM Type VI <i>(as per Table 1)</i>
			Size: 1250 x 600 mm  Thickness: 50-100 mm  ASTM Type VII <i>(as per Table 1)</i>

**Note 1: Minimum acceptable oxygen index as per ASTM C578 is 24%, however, the fire Safety Requirements shall be aligned with UAE Fire and Life Safety Code of Practice 2017 by maximum 31-12-2018, otherwise the certificate will be suspended or withdrawn.**

**Note 2: In compliance with clause 701.01 (1) of the Green Building Regulations and Specifications**

**Note 3: This document forms part of the Certificate of Product Conformity bearing the same certificate number.**

**Note 4: The above products shall bear the DCL Conformity Mark (applied on each product or on the packaging).**

## DUBAI CENTRAL LABORATORY DEPARTMENT DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

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TABLE 1 (EXTRUDED)  
PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR  
POLYSTYRENE THERMAL INSULATION

S N	PROPERTIES	TYPE XII	TYPE X	TYPE XIII	TYPE IV	TYPE VI	TYPE VII	TYPE V
1	<b>COMPRESSIVE RESISTANCE</b> @ yield or 10% deformation, which occurs first, min kPa	<b>104</b>	<b>104</b>	<b>138</b>	<b>173</b>	<b>276</b>	<b>414</b>	<b>690</b>
2	<b>THERMAL RESISTANCE</b> of 25.4 mm thickness, @ mean temp. 35°C and 60% RH min, K-m <sup>2</sup> /W	<b>0.77</b>	<b>0.84</b>	<b>0.65</b>	<b>0.84</b>	<b>0.84</b>	<b>0.84</b>	<b>0.84</b>
3	<b>THERMAL CONDUCTIVITY</b> , max, W/m-K @ 35°C and 60% RH	<b>0.0330</b>	<b>0.0303</b>	<b>0.0392</b>	<b>0.0303</b>	<b>0.0303</b>	<b>0.0303</b>	<b>0.0303</b>
4	<b>FLEXURAL STRENGTH</b> , min, kPa	<b>276</b>	<b>276</b>	<b>310</b>	<b>345</b>	<b>414</b>	<b>517</b>	<b>690</b>
5	<b>WATER VAPOR PERMEANCE</b> of 25.4 mm thickness, max, perm	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>
6	<b>WATER ABSORPTION</b> by total immersion, max volume %	<b>0.30</b>	<b>0.30</b>	<b>1.0</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>
7	<b>DIMENSIONAL STABILITY</b> (change in dimension), max, %	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>
8	<b>OXYGEN INDEX</b> , min,	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>

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	volume %							
9	<b>DENSITY</b> , min, kg/m <sup>3</sup>	<b>19</b>	<b>21</b>	<b>26</b>	<b>23</b>	<b>29</b>	<b>35</b>	<b>48</b>

**NOTE: THE ABOVE SPECIFICATION VALUES ARE EXTRACTED FROM TABLE 1 OF ASTM C578-16**

*Original Issue Date* : 27 March 2008

*Current Issue Date* : 27 March 2018

*Valid Until* : 26 March 2019



**ARIF HUSAIN AL MARZOOQI**

Head of Products Conformity Assessment Section  
Dubai Central Laboratory Department