

إدارة مختبر دبي المركزي  
Dubai Central Laboratory Department (DCLD)

شهادة مطابقة للمنتج  
CERTIFICATE OF PRODUCT CONFORMITY

|                        |                                                                                                     |                        |
|------------------------|-----------------------------------------------------------------------------------------------------|------------------------|
| Certificate number:    | CL08020044                                                                                          | رقم الشهادة:           |
| Issued to the Product: | Rigid Cellular Polystyrene Thermal Insulation<br>Details as per the attached Scope of Certification | تم منح الشهادة للمنتج: |
| Manufactured by:       | EMIRATES EXTRUDED POLYSTYRENE                                                                       | مصنع من قبل:           |
| Address:               | Plot No. 598-119, Dubai Investment Park, Dubai, UAE                                                 | العنوان:               |

تم تقييم المنتج وفقاً لمرجع إدارة مختبر دبي المركزي رقم (IC) DM-DCLD-RD-DP21-2001 "الأحكام العامة لنظام بلدية دبي لمنح شهادة مطابقة المنتج من قبل طرف ثالث من خلال تقييم المصنع" والأحكام الخاصة ذات الصلة، وتم الإقرار بناءً عليه بأنه مطابق للمواصفة القياسية:

The product has been assessed in accordance to DCLD Document Reference 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 C 578:18

وطبقاً لذلك، تفوض إدارة مختبر دبي المركزي الشركة المصنعة المذكورة أعلاه بوضع علامة المطابقة المنتج على المنتج/المنتجات المذكورة أعلاه  
Accordingly, DCLD hereby authorizes the above manufacturer to affix the DCL Product Conformity Mark on the above-mentioned product(s)

|                      |            |                       |
|----------------------|------------|-----------------------|
| Original Issue Date: | 27/03/2008 | تاريخ الإصدار الأولي: |
| Current Issue Date:  | 27/03/2024 | تاريخ الإصدار الحالي: |
| Valid until:         | 26/03/2025 | صالحة لغاية:          |



ARIF AL MARZOOQI  
for/ Certification and Quality Control of Products Section Manager  
Dubai Central Laboratory Department-Dubai Municipality



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.

OPEN-DATA

DM-DCLD-F-IC-2031 Rev 23

**DUBAI CENTRAL LABORATORY DEPARTMENT**  
**DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION**  
**FOR CERTIFICATE NO. CL08020044**

**Certificate Issued To:** EMIRATES EXTRUDED POLYSTYRENE LLC  
Plot 598-119, Dubai Investment Park, Dubai, UAE

**Applicable Standard Specification:** ASTM C 578: 2018 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation

**Applicable Specific Rules:** DM-DCLD-RD-DP21-2106 (IC) - Certification of rigid cellular polystyrene thermal insulation as per ASTM C 578: 2018

| S/N | PRODUCT DESCRIPTION                                                                                                | BRAND NAME | PRODUCT DETAILS                                                                          |
|-----|--------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------|
| 1.  | Rigid Cellular Extruded Polystyrene Thermal Insulation Board (XPS)<br>(See Note 4)<br><br>CFC Free<br>(see Note 3) | E-FOAM     | Size: 1250 x 600 mm<br><br>Thickness: 25-100 mm<br><br>ASTM Type VI<br>(as per Table 1)  |
|     |                                                                                                                    |            | Size: 1250 x 600 mm<br><br>Thickness: 25-100 mm<br><br>ASTM Type VII<br>(as per Table 1) |

*Note 1: This document forms an integral part of the Certificate of Product Conformity bearing the same certificate number.*

*Note 2: The above products shall bear the DCLD Conformity Mark (applied on each product or on the packaging).*

*Note 3: CFC Free as per declaration from the company, in accordance with the 2023 Al Sa'fat Dubai Green Building System.*

*Note 4: The product is an insulation for flat roofs covered by concrete used in conjunction with external roof waterproofing systems.*

*Note 5: As applicable, other properties in the product standard specification which were excluded in the specific rules as approved by the certification body authorized personnel are to be verified by the end user of the product (if needed).*

**DUBAI CENTRAL LABORATORY DEPARTMENT**  
**DCLD-CQPS PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION**  
**FOR CERTIFICATE NO. CL08020044**

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

| SN | PROPERTIES                                                                                                  | TYPE XII      | TYPE X        | TYPE XIII     | TYPE IV       | TYPE VI       | TYPE VII      | TYPE V        |
|----|-------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1  | <b>COMPRESSIVE RESISTANCE @</b><br>yield or 10% deformation, which<br>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<br>mm thickness, @ mean temp. 35°C<br>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,<br>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<br>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<br>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><br>(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, volume %                                                                         | <b>24</b>     | <b>24</b>     | <b>24</b>     | <b>24</b>     | <b>24</b>     | <b>24</b>     | <b>24</b>     |
| 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: 2018*

**Original Issue Date:** 27 March 2008

**Current Issue Date:** 27 March 2024

**Valid Until:** 26 March 2025



for/ **MANAGER**

**CERTIFICATION AND QUALITY CONTROL OF PRODUCTS SECTION**