

# 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:

**CONCRETE TECHNOLOGY LLC**

**Al Jazeera, Al Hammra, Ras Al Khaima, 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



eiaci  
مركز الاعتمادات العالمية للاعتماد  
Emirates International Accreditation Centre  
CB-003-PRD

Certificate No: CL15020250  
Valid Until: 29/07/2019



Current Issue Date: 30/07/2018  
Original Issue Date: 30/07/2015

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-REVISION 01  
FOR CERTIFICATE NO. CL15020250**

**Certificate Issued To:** **CONCRETE TECHNOLOGY LLC**  
Al Jazeera, Al Hammra, Ras Al Khaima, UAE

**Applicable Standard Specification:** ASTM C 578-18 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation

**Applicable Specific Rules:** RD-DP21-2106 “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		
			DIMENSION	THICKNESS	TYPE
1	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White) CFC Free (see Note 3)	CTS-14	L=200mm to 4000mm W= 200mm to1000mm	30mm to 1200 mm	ASTM Type XI (as per Table 1)
2	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White) CFC Free (see Note 3)	CTS-16			ASTM Type I (as per Table 1)
3	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White) CFC Free (see Note 3)	CTS-20			ASTM Type VIII (as per Table 1)
4	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White) CFC Free (see Note 3)	CTS-26			ASTM Type II (as per Table 1)
5	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (White) CFC Free (see Note 3)	CTS-32			Type IX (as per Table 1)
6	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (Grey) CFC Free (see Note 3)	CTP-15			ASTM Type I (as per Table 1)

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7	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (Grey) CFC Free (see Note 3)	CTP-20					<b>ASTM Type VIII (as per Table 1)</b>
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- NOTE1:** This document forms part of the Certificate of Product Conformity bearing the same certificate number.  
**NOTE2:** The above products 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:** The revision was made due to the separation of Fire Safety requirements from Al Sa'fat Certification requirements.  
**NOTE 5:** This supersedes the Scope of Certification issued on 30 July 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
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



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8	OXYGEN INDEX, min, volume %	24	24	24	24	24	24	24
9	DENSITY, 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* : 30 July 2015

*Current Issue Date* : 04 April 2019

*Valid Until* : 29 July 2019

ARIF HUSAIN AL MARZOOQI  
Products Conformity Assessment Section Manager  
Dubai Central Laboratory Department