

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



Certificate No: CL15020250
Valid Until: 29/07/2021



Current Issue Date: 30/07/2020
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 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:	DM-DCLD-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 to 1000mm	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)
7	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet (Grey) CFC Free (see Note 3)	CTP-20			ASTM Type VIII (as per Table 1)

- 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.

DUBAI CENTRAL LABORATORY DEPARTMENT DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION FOR CERTIFICATE NO. CL15020250

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

Original Issue Date : 30 July 2015

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