



CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,
hereby attests that the product(s):

CELLULAR RIGID POLYSTYRENE THERMAL INSULATION

(Details as per the attached Scope of Certification)

manufactured by:

**GULF INSULATING MATERIALS MANUFACTURING
AND TRADING COMPANY**
P.O. Box: 1306 Al Farwaniyah, Kuwait

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 C 578 - 11

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark to the above-mentioned product(s).


ENGR. HAWA ABDULLA BASTAKI
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No. CL06020022
Valid Until: October 25, 2012

Current Issue Date: October 26, 2011
Original Issue Date: October 26, 2006

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this certificate.
This certificate is subject to the Terms and Conditions of the Product Certification System



**DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION Rev. 01
FOR CERTIFICATE NO. CL06020022**

Certificate Issued To: GULF INSULATING MATERIALS
MANUFACTURING AND TRADING COMPANY
P.O. Box: 1306 Al Farwaniah, Kuwait

Applicable Standard Specification: ASTM C 578-11 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation

Applicable Specific Rules: RD-DP21-2106 (IC) "Specific rules for certification of rigid, cellular polystyrene thermal insulation (ASTM C 578-11) through factory assessment".

No.	Product Description	Brand Name	Dimension	Product Details
1	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ESSCOFOAM CW (22-24)	Size: 2500 x 600 mm Thickness: 40 & 50 mm	Type X (as per Table 1)
2	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ESSCOFOAM CW (26-28)	Size: 2500 x 600 mm Thickness: 40 & 50 mm	Type IV (as per Table 1)
3	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ESSCOFOAM RF (32-35)	Size: 1250 x 600 mm Thickness: 25, 30, 40, 50, 60, 65, 75, 80, and 100 mm	Type VI (as per Table 1)
4	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ESSCOFOAM RF (38-42)	Size: 1250 x 600 mm Thickness: 40, 50, 60, 65, 75, 80 and 100 mm	Type VII (as per Table 1)
5	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ESSCOFOAM HD(48-50)	Size: 1250 x 600 mm Thickness: 50 mm	Type V (as per Table 1)

Note 1 : * Minimum acceptable oxygen index as per ASTM C578 is 24%

Note 2: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Note 3: The above products shall bear the DCL Conformity Mark (applied on each product or on the packaging).

Note 4: This supersedes the Scope of Certification issued on October 26, 2011

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

S N	PROPERTIES	TYPE XII	TYPE X	TYPE XIII	TYPE IV	TYPE VI	TYPE VII	TYPE V
1	COMPRESSIVE RESISTANCE @ yield or 10% deformation, which occurs first, min kPa	104	104	138	173	276	414	690
2	THERMAL RESISTANCE of 25.4 mm thickness, @ mean temp. of 24±1°C min, K-m ² /W	0.81	0.88	0.68	0.88	0.88	0.88	0.88
3	THERMAL CONDUCTIVITY , max, W/m·K @ 35°C and 60% RH	0.03295	0.0303	0.0392	0.0303	0.0303	0.0303	0.0303
4	FLEXURAL STRENGTH , min, kPa	276	276	310	345	414	517	690
5	WATER VAPOR PERMEANCE of 25.4 mm thickness, max, perm	1.5	1.5	1.5	1.5	1.1	1.1	1.1
6	WATER ABSORPTION by total immersion, max volume %	0.30	0.30	1.0	0.30	0.30	0.30	0.30
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	19	21	26	25	29	35	48

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

Original Issue Date : October 26, 2006
Current Issue Date : March 29, 2012
Valid Until : October 25, 2012



ARIF HUSAIN AL MARZOUQI
Acting Head of Inspection and Certification Section
Dubai Central Laboratory Department