



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:

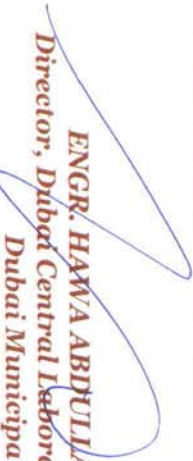
ISOFOAM INSULATING MATERIALS PLANT W.L.L.

P.O. Box 23053 Safat, 13091 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. HAWWA ABDULLA BASTAKI
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL05020002
Valid Until: October 07, 2012

Current Issue Date: October 08, 2011
Original Issue Date: October 08, 2006



CB-003

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. CL05020002**

Certificate Issued To: ISOFOAM INSULATING MATERIALS PLANT
W.L.L.
P.O. Box: 23053 Safat, 13091 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 *	ISOBOARD LD 21 CW	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 *	ISOBOARD LD 26 CW	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 *	ISOBOARD ND	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 *	ISOBOARD MD	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 *	ISOBOARD HD	Size: 1250 x 600 mm Thickness: 50 mm	Type V (as per Table 1)
6	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ISOBOARD GREEN LD	Size: 2500 x 600 mm Thickness: 25, 40 50,75 & 100 mm	Type IV (as per Table 1)
7	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ISOBOARD GREEN ND	Size: 1250 x 600 mm Thickness: 25, 30, 40, 50, 60, 65, 75, 80, and 100 mm	Type VI (as per Table 1)
8	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ISOBOARD GREEN MD	Size: 1250 x 600 mm Thickness: 25, 30, 40, 50, 60, 65, 75, 80, and 100 mm	Type VII (as per Table 1)
9	Rigid Cellular Extruded Polystyrene Thermal Insulation Board Fire Retardant Grade *	ISOBOARD GREEN HD	Size: 1250 x 600 mm Thickness: 25, 50, 75, and 100 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 08, 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-m²/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/m³	19	21	26	25	29	35	48

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

Original Issue Date : October 08, 2006
Current Issue Date : March 29, 2012
Valid Until : October 07, 2012



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