

CERTIFICATE OF PRODUCT CONFORMITY

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

EXPANDED POLYSTYRENE THERMAL INSULATION (Details as per the attached Scope of Certification)

manufactured by:

STYRO INSULATION MATERIAL INDUSTRY
P.O. Box 292772 Sharjah UAE

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 - 10

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



CB-003

Certificate No: CL05020005
Valid Until: 30 June 2012



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

Current Issue Date: 01 July 2011
Original Issue Date: 11 December 2005

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

**SCOPE OF CERTIFICATION – REVISION 02
FOR CERTIFICATE NO. CL05020005**

Certificate Issued To: STYRO INSULATION MATERIAL INDUSTRY
P.O. Box 29272 Sharjah UAE

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	Size (mm)		Type	
			Dimension	Thickness		
1	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	STYRO SF 35B Blue	1000 x 2000	4 mm up to 1300 mm	ASTM Type IX (as per Table 1)	
			3000 x 1000			
			3000 x 1300			
2	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	STYRO SF 40W Color	1220 x 2440	ASTM Type II (as per Table 1)		
			1250 x 2500			
2	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	STYRO SF 24W White	3600 x 1000			ASTM Type I (as per Table 1)
			3600 x 1300			
3	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	STYRO SF 28W White	4000 x 1100		ASTM Type XI (as per Table 1)	
			5100 x 1000			
4	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	STYRO SF 18W White	5100 x 1100	ASTM Type I (as per Table 1)		
			5100 x 1300			
5	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	STYRO SF 16W White				ASTM Type I (as per Table 1)
6	Rigid Cellular Expanded Polystyrene Thermal Insulation Sheet Fire Retardant Grade*	DALMATINER SF 18DM (Gray & White)			ASTM Type I (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 Rev 01 issued on June 05, 2011

TABLE 1.
PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR
EXPANDED 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 24±1°C min, K-m ² /W	0.55	0.63	0.67	0.70	0.74	0.74	0.76
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	46

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

Original Issue Date : December 11, 2005
Current Issue Date : March 29, 2012
Valid Until : June 30, 2012



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