



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:

NATIONAL PLASTIC FACTORY
57/AI Hail Industries, P.O. Box 4224, Fujairah 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 C578 - 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: CL08020045
Valid Until: 25 March 2013

Current Issue Date: 26 March 2012
Original Issue Date: 26 March 2008

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



CB-003



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

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL08020045**

Certificate Issued To:

National Plastic Factory
57/A Al Hail Industries,
P.O. Box 4224 Fujairah 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	Dimension		Type
			Size	Thickness	
1	Rigid Cellular Expanded Polystyrene Thermal Block Insert Fire Retardant Grade**	POLYFOAM	400 X 200 mm	60 mm	ASTM Type II Density=25 kg/m ³ (min)* (as per Table1)

Note 1: * Minimum density required by Dubai Municipality for block insert

Note 2: ** Minimum acceptable oxygen index as per ASTM C578 is 24%

Note 3: This document is part of the Certificate of Product Conformity bearing the same Cert. No.

Note 4: The above products shall bear the DCL Conformity Mark (applied on each product or on the packaging).

Handwritten signature in Arabic script.

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

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL08020045**

**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

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ARIF HUSAIN AL MARZOUQI
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Dubai Central Laboratory Department