

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,

hereby attests that the product(s)

PIPE AND DUCT INSULATION

(NBR ELASTOMERIC FOAM & XLPE CROSSLINKED CLOSED CELL POLYOLEFIN FOAM MATERIALS)

(Details as per the attached Scope of Certification)

manufactured by:

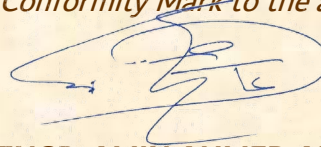
HIRA INDUSTRIES LLC.

Al Ghail Industrial Park , 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:

Al Sa'fat – Dubai Green Building Evaluation System

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



for / ENGR. AMIN AHMED AMIN

Director, Dubai Central Laboratory Department

Dubai Municipality

Verify:



Certificate No: CL16020375

Valid Until: 27 June 2019



Current Issue Date: 28 June 2018

Original Issue Date: 28 June 2016

DM-DCLD-F-IC-2031 REV 13

The attached Scope of Certification bearing the same Certificate No. 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 - REV. 01
FOR CERTIFICATE NO. CL16020375

Certificate Issued To : HIRA INDUSTRIES LLC.
Al Ghail Industrial Park, Ras Al Khaima, UAE

Applicable Standard Specification : 2017 Al Sa'fat Dubai Green Building Evaluation System

Applicable Specific Rules : DM-DCLD-RD-DP21-2185-(IC) Specific Rules for FA
Certification of Pipe and Duct Insulation as per Al Sa'fat Dubai
Green Building Evaluation System

S/N	Product Description	Brand Name	Product Details
1.	NBR Elastomeric Foam for pipe and duct insulation materials CFC Free (See Note 3)	AEROFOAM and FLEXICELL	<p>1.1 NBR Elastomeric Foam for pipe and duct insulation materials Thermal conductivity (max) – 0.036W/(m-°K) @ 35 OC & 55% RH Declared Density : 45.0 kg/m3 min Pipe Section Range: 6 to 32 mm Sheets & Tube, Thickness: Rolls: 6 to 50 mm Tube: 6 to 32 mm Pipe ID: 6 to 89 mm Fire Performance Test as per ASTM E84 (Flame Spread ≤ 25 and Smoke Developed Index ≤ 50) <i>(See Note 4)</i></p> <p>1.2 NBR Elastomeric Foam for pipe and duct insulation materials with Aluglass facing Thermal conductivity (max) – 0.036W/(m-°K) @35 OC & 55% RH Declared Density : 45.0 kg/m3 min Pipe Section Range: 6 to 32 mm Sheets & Tube, Thickness: Rolls: 6 to 50 mm Tube: 6 to 32 mm Pipe ID: 6 to 89 mm Fire Performance Test as per ASTM E84 (Flame Spread ≤ 25 and Smoke Developed Index ≤ 50) <i>(See Note 4)</i></p> <p>1.3 NBR elastomeric foam for pipe and duct with plain, Aluglass foil and adhesive and N Clad foil</p> <p>1.4 NBR elastomeric semi open-cell rubber foam with adhesive backing for duct liner (LN) insulation materials (See Note 5)</p>

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			<p>Thermal conductivity (max) – 0.036W/(m-°K) @35 OC & 55% RH Declared Density : 45.0 kg/m3 min Pipe Section Range: 6 to 32 mm Sheets & Tube, Thickness: Rolls: 6 to 50 mm Tube: 6 to 32 mm Pipe ID: 6 to 89 mm Fire Performance Test as per ASTM E84 (Flame Spread ≤ 25 and Smoke Developed Index ≤ 50) (See Note 4)</p>
2.	<p>XLPE Cross-linked Closed Cell Polyolefin Foam with reinforced Alupet foil and acrylic adhesive backing for pipe and duct insulation materials CFC Free (See Note 3)</p>	<p>AEROFOAM and FLEXICELL</p>	<p>2.1 XLPE cross-linked closed cell polyolefin foam with reinforced silver color Alupet foil / N Clad Foil and acrylic adhesive backing for pipe and duct insulation materials 2.2 XLPE cross-linked closed-cell polyolefin foam with reinforced black color Alupet foil and acrylic adhesive backing for pipe and duct insulation materials 2.3 XLPE cross-linked semi open-cell polyolefin foam with acrylic adhesive backing for duct liner (LX) insulation materials (See Note 5) 2.4 Drainage Pipe Lagging Material (SLM and SL +) (See Note 5)</p> <p>Thermal conductivity (max)–0.0365 W/(m-°K) @ 35 °C & 55% RH Declared Density : 25.0 kg/m³ min Pipe Section Range: 5/8” to 40” Sheets & Tube, Thickness: 3 to 80 mm Fire Performance Test as per ASTM E84 (Flame Spread ≤ 25 and Smoke Developed Index ≤ 50) (See Note 4) (Water Vapor Permeance = 0.00 g/Pa-s-m2) is meeting the requirements of Table 1 of BS 5422:2009</p>

Note 1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Note 2: The above products shall bear the DCL Conformity Mark.

Note 3: CFC Free as per declaration from the company, in accordance with Al Sa'fat Dubai Green Building Evaluation System.

Note 4: The Fire Safety Test Results complies with UAE Fire and Life Safety Code of Practice 2016.

Note 5: These are the new products added in the scope.

Note 6: This supersedes the scope of certification issued on 28 June 2018.



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FOR CERTIFICATE NO. CL16020375

Date of Original Issued : 28 June 2016
Date of Current Issued : 06 September 2018
Valid Until : 27 June 2019

ARIF HUSAIN AL MARZOOQI
Products Conformity Assessment Section Manager
Dubai Central Laboratory Department