

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,

hereby attests that the product(s)

PIPE AND DUCT INSULATION PRODUCTS (GLASSWOOL)

(Details as per the attached Scope of Certification)

manufactured by:

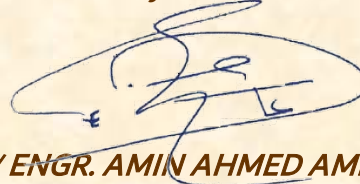
KUWAIT INSULATING MATERIALS MANUFACTURING CO.

P.O. Box: 10042 Shuaiba, Kuwait

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:

2017 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: CL18020604

Valid Until: 24 June 2019



Current Issue Date: 25 June 2018

Original Issue Date: 25 June 2018

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
FOR CERTIFICATE NO. CL18020604 (REV.01)

Certificate Issued To: **KUWAIT INSULATING MATERIALS MFG. CO.**
P.O. Box: 10042 Shuaiba, Kuwait

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

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

	Product Description	Product Brand	Product Details
1	Mineral Wool (Glass Wool) Duct Board Insulation (CFC Free) ^{NOTE 5}	Duct Insulation (KDI) ^{NOTE 6}	Duct Insulation with aluminum foil facing k-value: 0.040 W/(m·K) Nominal Density, 24 - 96 kg/m ³ Nominal Thickness, 25-100 mm
2		EcoBuild Duct Insulation (EDI) ^{NOTE 6}	Duct Insulation with aluminum foil facing k-value: 0.040 W/(m·K) Nominal Density, 20 - 96 kg/m ³ Nominal Thickness, 25-100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =0 and Smoke Developed Index = 0 for 25mm ^{NOTE 4}
3		Clean Liner (KCL)	Duct Liner with black woven glass fabric k-value: 0.039 W/(m·K) Nominal Density, 24 - 72 kg/m ³ Nominal Thickness, 13 -100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =15 and Smoke Developed Index = 0 for 25mm ^{NOTE 4}

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4	Mineral Wool (Glass Wool) Duct Board Insulation	Duct System (KADS)	Duct Insulation with aluglass and aluminum foil facing k-value: 0.039 W/(m·K) Nominal Density, 72 - 96 kg/m ³ Nominal Thickness, 25 - 100 mm
5		CLIMAVER NETO ^{NOTE6}	Pre-insulated Duct Board with aluminum one side and black glass cloth other side k-value: 0.039 W/(m·K) Nominal Density, 72 - 80 kg/m ³ Nominal Thickness, 25 - 40 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =0 and Smoke Developed Index = 5 for 25mm ^{NOTE 4}
6		CLIMAVER PLUS R ^{NOTE6}	Pre-insulated Duct Board with aluminum foil both side facing k-value: 0.039 W/(m·K) Nominal Density, 72 -80 kg/m ³ Nominal Thickness, 25 - 40 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =5 and Smoke Developed Index = 25 for 25mm ^{NOTE 4}
1	Mineral Wool (Glass Wool) Duct Blanket Insulation (CFC Free) ^{NOTE 5}	Duct Insulation (KDI) ^{NOTE6}	Duct Insulation with aluminum foil facing k-value: 0.048 W/(m.K) Minimum Density, 12 - 18kg/m ³ Nominal Thickness, 25-100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =0 and Smoke Developed Index = 0 for 25mm ^{NOTE 4} Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =5 and Smoke Developed Index = 10 for 75mm ^{NOTE 4}

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2	Mineral Wool (Glass Wool) Duct Blanket Insulation	Duct Insulation (KDI) ^{NOTE6}	Duct Insulation with aluminum foil facing k-value: 0.040 W/(m.K) Minimum Density, 20 - 48kg/m ³ Nominal Thickness, 25-100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =0 and Smoke Developed Index = 0 for 25mm ^{NOTE 4} Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =5 and Smoke Developed Index = 10 for 75mm ^{NOTE 4}
3		EcoBuild Duct Insulation (EDI) ^{NOTE6}	Duct Insulation with aluminium foil facing k-value: 0.048 W/(m.K) Minimum Density, 12 - 18kg/m ³ Nominal Thickness, 25-100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =0 and Smoke Developed Index = 0 for 25mm ^{NOTE 4}
4			Duct Insulation with aluminum foil facing k-value: 0.040 W/(m.K) Minimum Density, 20 - 48kg/m ³ Nominal Thickness, 25-100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =0 and Smoke Developed Index = 0 for 25mm ^{NOTE 4}
5		Ecobuild Clean Liner (ECL) ^{NOTE6}	Duct Insulation with black woven glass fabric k-value: 0.039 W/(m.K) Nominal Density, 24 - 72 kg/m ³ Nominal Thickness, 13 -100 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index =5 and Smoke Developed Index = 0 for 25mm ^{NOTE 4}

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		Ecobuild Clean Liner (ECL) ^{NOTE6}	Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index = 0 and Smoke Developed Index = 0 for 38mm ^{NOTE 4}
1	Mineral Wool (Glass Wool) Pipe Insulation	Rigid Pipe Covering (K450) ^{NOTE6}	Insulation with aluminum foil facing k-value: 0.036 W/(m.K) Nominal Density, 64 - 120 kg/m ³ Nominal Thickness, 15 - 100 mm Nominal Diameter, 15 - 900 mm Surface Burning Characteristic as per ASTM E 84 satisfies the maximum requirement for Flame Spread Index = 25 and Smoke Developed Index = 50 for 25mm ^{NOTE 4}

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 (applied on each product or on the packaging).

Note 3: Maximum k-value measured at 35°C temperature and 60% relative humidity condition

Note 4: Fire Performance Properties comply with UAE Fire & Life Safety Code 2017

Note 5: In compliance with Clause 701.01 (1) of the Al Sa'fat – Dubai Green Building Evaluation System.

NOTE 6: This revision superseded scope issued on 25 JUNE 2018 due to changes in product details.

Original Issue Date : 25 JUNE 2018

Current Issue Date : 11 JULY 2018

Valid Until : 24 JUNE 2019

ARIF HUSSAIN AL MARZOOQI

Head, Products Conformity Assessment Section

Dubai Central Laboratory Department