

CERTIFICATE OF PRODUCT CONFORMITY

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

Pipe and Duct Insulation

(Details as per the attached Scope of Certification)

manufactured by:

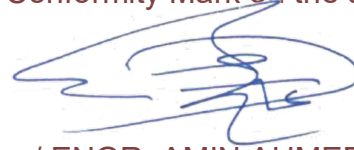
KNAUF EXEED INSULATION LLC

Plot 20F1 & 21F1, ICAD 1, Abu Dhabi, 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:

2017 AL SA'FAT DUBAI GREEN BUILDING EVALUATION SYSTEM

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



for / ENGR. AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL18020632
Valid Until: 02/10/2021



Current Issue Date: 03/10/2020
Original Issue Date: 03/10/2018



The attached Scope of Certification bearing the same Certificate Number 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. CL18020632 – Rev01

Certificate Issued To: **KNAUF EXEED INSULATION L.L.C.**
Plot 20F1 & 21F1, ICAD 1, Abu Dhabi, 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 Certification of Pipe and Duct Insulation through Factory Assessment as per 2017 Al Sa'fat – Dubai Green Building Evaluation System

SN	PRODUCT DESCRIPTION	BRAND NAME	PRODUCT DETAILS
1.	Mineral Wool (Glass wool) Board CFC Free (see note 4)	Knauf Insulation (Yellowish in color)	Mineral Fiber Board Without Facing Width: 300 to 1220, Length: Various Length Nominal Thickness: 15 - 150 mm Nominal Density: 20 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 32 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 33 – 64 kg/m ³) k-value: 0.038 W/(m-°K) for (Density: 65 – 120 kg/m ³) For Hot Applications only and should not be used for Refrigerated/Condensation Applications.
		Knauf Insulation With ECOSE Technology (PF Free) (Brownish in color)	
		Knauf Insulation (Yellowish in color)	Mineral Fiber Board with FSK (Foil Scrim Kraft) Facing Width: 300 to 1220, Length: Various Length Nominal Thickness: 15 - 150 mm Nominal Density: 20 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 32 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 33 – 64 kg/m ³) k-value: 0.038 W/(m-°K) for (Density: 65 – 120 kg/m ³) Water Vapor Permeance is 0.0 perms as per the requirements of table 1 of BS 5422:2009
		Knauf Insulation With Ecosse Technology (PF Free) (Brownish in color)	

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		Knauf Insulation (Yellowish in color)	Mineral Fiber Board with WGF (Woven Glass Fiber) Facing Width: 300 to 1220, Length: Various Length Nominal Thickness, 15 - 150 mm Nominal Density, 20 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 32 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 33 – 64 kg/m ³) k-value: 0.038 W/(m-°K) for (Density: 65 – 120 kg/m ³) <i>For Hot Applications only and should not be used for Refrigerated/Condensation Applications.</i>
		Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)	
		Knauf Insulation (Yellowish in color)	Mineral Fiber Board with FS (Aluminum Foil Scrim) Facing Width: 300 to 1220, Length: Various Length Nominal Thickness, 20 - 150 mm Nominal Density, 20 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 32 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 33 – 64 kg/m ³) k-value: 0.038 W/(m-°K) for (Density: 65 – 120 kg/m ³) <i>Water Vapor Permeance of barrier is less than 0.050g/s.MN - Not to be used for less than 10°C applications as per the requirements of table 1 of BS 5422:2009</i>
		Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)	
		Knauf Insulation (Yellowish in color)	Mineral Fiber Board with Aluglass Facing Width: 300 to 1220, Length: Various Length Nominal Thickness, 20 - 150 mm Nominal Density, 20 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 32 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 33 – 64 kg/m ³) k-value: 0.038 W/(m-°K) for (Density: 65 – 120 kg/m ³) <i>Water Vapor Permeance of barrier is less than 0.050g/s.MN)-Not to be used for less than 10°C applications as per the requirements of table 1 of BS 5422:2009</i>
		Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)	

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		<p>*Knauf Insulation (Yellowish in color)</p>	<p>*Mineral Fiber Board with Aluglass-FR Facing</p> <p>Width: 300 to 1220, Length: Various Length Nominal Thickness, 20 - 150 mm Nominal Density, 20 – 120 kg/m³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m³) k-value: 0.037 W/(m-°K) for (Density: 25 – 32 kg/m³) k-value: 0.041 W/(m-°K) for (Density: 33 – 64 kg/m³) k-value: 0.038 W/(m-°K) for (Density: 65 – 120 kg/m³)</p> <p>Not to be used for less than – 5 °C applications as per the requirements of table 1 of BS 5422:2009</p>
2.	Mineral Wool (Glass wool) Blanket/ Mattress CFC Free (see note 4)	<p>Knauf Insulation (Yellowish in color)</p>	<p>Mineral Fiber Blanket/Mattress without Facing</p> <p>Width: 300 to 1220 mm; Length: Various Length Nominal Thickness: 15 - 300 mm Nominal Density: 10 – 48 kg/m³; Thermal Conductivity @ 35°C & 60% RH: k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m³) k-value: 0.041 W/(m-°K) for (Density: 17 – 24 kg/m³) k-value: 0.037 W/(m-°K) for (Density: 25 – 48 kg/m³)</p> <p>For Hot Applications only and should not be used for Refrigerated/Condensation Applications.</p>
		<p>Knauf Insulation (Yellowish in color)</p>	<p>Mineral Fiber Blanket/Mattress with Aluglass</p> <p>Width: 300 to 1220 mm; Length: Various Length Nominal Thickness: 15 - 300 mm Nominal Density: 10 – 48 kg/m³; Thermal Conductivity @ 35°C & 60% RH: k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m³) k-value: 0.041 W/(m-°K) for (Density: 17 – 24 kg/m³) k-value: 0.037 W/(m-°K) for (Density: 25 – 48 kg/m³)</p> <p>Water Vapor Permeance of barrier is less than 0.050g/s.MN - Not to be used for less than 10°C applications as per the requirements of table 1 of BS 5422:2009</p>
		<p>Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)</p>	
		<p>Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)</p>	

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		Knauf Insulation (Yellowish in color)	Mineral Fiber Blanket/Mattress with FSK (Foil Scrim Kraft) Facing Width: 300 to 1220 mm; Length: Various Length Nominal Thickness: 15 - 300 mm Nominal Density: 10 – 48 kg/m ³ ; Thermal Conductivity @ 35°C & 60% RH: k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 17 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 48 kg/m ³) <i>Water Vapor Permeance is 0.0 perms as per the requirements of table 1 of BS 5422:2009</i>
		Knauf Insulation With Ecosse Technology (PF Free) (Brownish in color)	
		Knauf Insulation (Yellowish in color)	Mineral Fiber Blanket/Mattress with WGF (Woven Glass Fiber) Facing Width: 300 to 1220 mm; Length: Various Length Nominal Thickness: 15 - 300 mm Nominal Density: 10 – 48 kg/m ³ ; Thermal Conductivity @ 35°C & 60% RH: k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 17 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 48 kg/m ³) <i>For Hot Applications only and should not be used for Refrigerated/Condensation Applications.</i>
		Knauf Insulation With Ecosse Technology (PF Free) (Brownish in color)	
		*Knauf Insulation (Yellowish in color)	*Mineral Fiber Blanket/Mattress with Aluglass-FR Facing Width: 300 to 1220 mm; Length: Various Length Nominal Thickness: 15 - 300 mm Nominal Density: 10 – 48 kg/m ³ ; Thermal Conductivity @ 35°C & 60% RH: k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m ³) k-value: 0.041 W/(m-°K) for (Density: 17 – 24 kg/m ³) k-value: 0.037 W/(m-°K) for (Density: 25 – 48 kg/m ³) <i>Not to be used for less than – 5 °C applications as per the requirements of table 1 of BS 5422:2009</i>
		*Knauf Insulation With Ecosse Technology (PF Free) (Brownish in color)	

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3.	Mineral Wool (Glass wool) Pipe Insulation CFC Free (see note 4)	Knauf Insulation (Yellowish in color) Knauf Insulation	Mineral Fiber Pipe Insulation without Facing Diameter: 21.3 to 457.2 mm Length: 1.2 m Nominal Thickness: 15 - 100 mm Nominal Density: 64 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m ³) <i>For Hot Applications only and should not be used for Refrigerated/Condensation Applications.</i>
		Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)	
		Knauf Insulation (Yellowish in color) Knauf Insulation	Mineral Fiber Pipe Insulation with FSK (Foil Scrim Kraft) Facing Diameter: 21.3 to 457.2 mm Length: 1.2 m Nominal Thickness: 15 - 100 mm Nominal Density: 64 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m ³) <i>Water Vapor Permeance is 0.0 perms as per the requirements of table 1 of BS 5422:2009</i>
		Knauf Insulation With Ecos Technology (PF Free) (Brownish in color)	
		Knauf Insulation (Yellowish in color) Knauf Insulation	Mineral Fiber Pipe Insulation with Aluglass Facing Diameter: 21.3 to 457.2 mm Length: 1.2 m Nominal Thickness: 15 - 100 mm Nominal Density: 64 – 120 kg/m ³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m ³) <i>Water Vapor Permeance of barrier is less than 0.050g/s.MN - Not to be used for less than 10°C applications as per the requirements of table 1 of BS 5422:2009</i>
		With Ecos Technology (PF Free) (Brownish in color)	

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		<p>*Knauf Insulation (Yellowish in color) Knauf Insulation</p>	<p>*Mineral Fiber Pipe Insulation with Aluglass-FR Facing</p> <p>Diameter: 21.3 to 457.2 mm Length: 1.2 m Nominal Thickness: 15 - 100 mm Nominal Density: 64 – 120 kg/m³ Thermal Conductivity @ 35°C & 60% RH: k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m³)</p> <p><i>Not to be used for less than – 5 °C applications as per the requirements of table 1 of BS 5422:2009</i></p>
		<p>*With Ecosse Technology (PF Free) (Brownish in color)</p>	

* Added in this scope of certification (Board, Blanket and Pipe) with Aluglass-FR facing

Note 1: The above products shall bear the DCL Conformity Mark.

Note 2: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

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

Note 4: CFC Free as per declaration from the company, in accordance with the 2017 Al Sa'fat – Dubai Green Building Evaluation System.

Note 5: This scope of certification supersedes the scope issued on 03 October 2020.

Original Issue Date: 03 October 2018
Current Issue Date: 25 November 2020
Valid Until: 02 October 2021



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