



### 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



DM-DCLD-F-IC-2031 Rev 17

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.







### 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
		Knauf Insulation	Mineral Fiber Board Without Facing
		(Yellowish in color)	Width: 300 to 1220, Length: Various Length
1.	Mineral Wool		Nominal Thickness: 15 - 150 mm
	(Glass wool)		Nominal Density: 20 – 120 kg/m³
	Board	Knauf Insulation	Thermal Conductivity @ 35°C & 60% RH:
		With ECOSE	k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m3)
	CFC Free	Technology	k-value: 0.037 W/( m-°K ) for (Density: 25 – 32 kg/m3)
	(see note 4)	(PF Free)	k-value: 0.041 W/( m-°K ) for (Density: 33 – 64 kg/m3)
		(Brownish in color)	k-value: 0.038 W/( m-°K ) for (Density: 65 – 120 kg/m3)
			For Hot Applications only and should not be used for
			Refrigerated/Condensation Applications.
			Mineral Fiber Board with FSK (Foil Scrim Kraft) Facing
		Knauf Insulation	Width: 300 to 1220, Length: Various Length
		(Yellowish in color)	Nominal Thickness: 15 - 150 mm
			Nominal Density: 20 – 120 kg/m³
			Thermal Conductivity @ 35°C & 60% RH:
		Knauf Insulation	k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m3)
		With Ecose Technology	k-value: 0.037 W/( m-°K ) for (Density: 25 – 32 kg/m3)
		(PF Free)	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)
		(Brownish in color)	Water Vapor Permeance is 0.0 perms as per the requirements of
			table 1 of BS 5422:2009

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 FOR CERTIFICAT	
	Mineral Fiber Board with WGF (Woven Glass Fiber) Facing
Knauf Insulation	
(Yellowish in color)	Width: 300 to 1220, Length: Various Length
	Nominal Thickness, 15 - 150 mm
	Nominal Density, 20 – 120 kg/m <sup>3</sup>
	Thermal Conductivity @ 35°C & 60% RH:
Knauf Insulation	k-value: $0.045 \text{ W/(m-}^{\circ}\text{K)}$ for (Density: $16 - 24 \text{ kg/m3}$ )
With Ecose Technology	k-value: 0.037 W/( m-°K ) for (Density: 25 – 32 kg/m3)
(PF Free)	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)
(Brownish in color)	, , , , , , , , , , , , , , , , , , ,
	For Hot Applications only and should not be used for
	Refrigerated/Condensation Applications.
	nerrigeratea, condensation, applications.
Knauf Insulation	Mineral Fiber Board with FS (Aluminum Foil Scrim) Facing
(Yellowish in color)	
	Width: 300 to 1220, Length: Various Length
	Nominal Thickness, 20 - 150 mm
Knauf Insulation	Nominal Density, 20 – 120 kg/m³
With Ecose Technology	Thermal Conductivity @ 35°C & 60% RH:
(PF Free)	k-value: $0.045 \text{ W/(m-}^{\circ}\text{K)}$ for (Density: $16 - 24 \text{ kg/m3}$ )
(Brownish in color)	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)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	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
	Mineral Fiber Board with Aluglass Facing
Knauf Insulation	
(Yellowish in color)	Width: 300 to 1220, Length: Various Length
	Nominal Thickness, 20 - 150 mm
	Nominal Density, 20 – 120 kg/m <sup>3</sup>
	Thermal Conductivity @ 35°C & 60% RH:
Knauf Insulation	k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m3)
With Ecose Technology	k-value: $0.037 \text{ W/(m-°K)}$ for (Density: $25 - 32 \text{ kg/m3}$ )
(PF Free)	k-value: $0.041 \text{ W/(m-}^{\circ}\text{K})$ for (Density: $33 - 64 \text{ kg/m}^{3}$ )
(Brownish in color)	k-value: 0.038 W/( m-°K ) for (Density: 65 – 120 kg/m3)
	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

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			*Mineral Fiber Board with Aluglass-FR Facing
		*Knauf Insulation	Millieral Fiber Board With Alugiass-FK Fathing
		(Yellowish in color)	Width: 300 to 1220, Length: Various Length
		(Tellowish In Color)	Nominal Thickness, 20 - 150 mm
			Nominal Principles, 20 130 mm  Nominal Density, 20 – 120 kg/m <sup>3</sup>
		*17( L	Thermal Conductivity @ 35°C & 60% RH:
		*Knauf Insulation	k-value: 0.045 W/(m-°K) for (Density: 16 – 24 kg/m3)
		With Ecose Technology	k-value: 0.037 W/( m-°K ) for (Density: 25 – 32 kg/m3)
		(PF Free)	k-value: 0.041 W/( m-°K ) for (Density: 33 – 64 kg/m3)
		(Brownish in color)	k-value: 0.038 W/( m-°K ) for (Density: 65 – 120 kg/m3)
			Not to be used for less than - 5 °C applications as per the
			requirements of table 1 of BS 5422:2009
2.	Mineral Wool		Mineral Fiber Blanket/Mattress without Facing
-	(Glass wool)	Knauf Insulation	
	Blanket/	(Yellowish in color)	Width: 300 to 1220 mm; Length: Various Length
	Mattress		Nominal Thickness: 15 - 300 mm
	r lacti ess		Nominal Density: 10 – 48 kg/m³;
	CFC Free		Thermal Conductivity @ 35°C & 60% RH:
	(see note 4)	Knauf Insulation	k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m3)
	(356 11016 4)	With Ecose Technology	k-value: 0.041 W/(m-°K ) for (Density: 17 – 24 kg/m3)
		(PF Free)	k-value: 0.037 W/( m-°K ) for (Density: 25 – 48 kg/m3)
		(Brownish in color)	For Hot Applications only and should not be used for
		(2/6///////////////////////////////////	Refrigerated/Condensation Applications.
		Knauf Insulation	Mineral Fiber Blanket/Mattress with Aluglass
		(Yellowish in color)	
		(**************************************	Width: 300 to 1220 mm; Length: Various Length
			Nominal Thickness: 15 - 300 mm
			Nominal Density: 10 – 48 kg/m³;
		Knauf Insulation	Thermal Conductivity @ 35°C & 60% RH:
		With Ecose Technology	k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m3)
		(PF Free)	k-value: 0.00 W/(iii- K) for (Density: 10 – 10 kg/iii3) k-value: 0.041 W/(m-°K) for (Density: 17 – 24 kg/m3)
		(FF Free)	k-value: 0.031 W/(m-°K) for (Density: 25 – 48 kg/m3)
		(Duametet to solar)	k value. 0.037 vv/(III K/101 (Delisity. 23 - 40 kg/III3)
		(Brownish in color)	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





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Knauf Insulation	Mineral Fiber Blanket/Mattress with FSK (Foil Scrim Kraft)
(Yellowish in color)	Facing
	-
	Width: 300 to 1220 mm; Length: Various Length
Knauf Insulation	Nominal Thickness: 15 - 300 mm
With Ecose Technology	Nominal Density: $10 - 48 \text{ kg/m}^3$ ;
(PF Free)	Thermal Conductivity @ 35°C & 60% RH:
	k-value: $0.06 \text{ W/(m-}^{\circ}\text{K)}$ for (Density: $10 - 16 \text{ kg/m3}$ )
(Brownish in color)	k-value: $0.041 \text{ W/(m-}^{\circ}\text{K})$ for (Density: $17 - 24 \text{ kg/m3}$ )
	k-value: $0.037 \text{ W/(}\text{m-}^{\circ}\text{K}\text{)}$ for (Density: $25-48 \text{ kg/m3}$ )
	Water Vapor Permeance is 0.0 perms as per the requirements of
	table 1 of BS 5422:2009
Knauf Insulation	Mineral Fiber Blanket/Mattress with WGF (Woven Glass Fiber)
(Yellowish in color)	Facing
	Width: 300 to 1220 mm; Length: Various Length
	Nominal Thickness: 15 - 300 mm
Knauf Insulation	Nominal Density: $10 - 48 \text{ kg/m}^3$ ;
With Ecose Technology	Thermal Conductivity @ 35°C & 60% RH:
(PF Free)	k-value: $0.06 \text{ W/(m-}^{\circ}\text{K)}$ for (Density: $10 - 16 \text{ kg/m3}$ )
	k-value: $0.041 \text{ W/(m-°K)}$ for (Density: $17 - 24 \text{ kg/m3}$ )
(Brownish in color)	k-value: 0.037 W/( m- $^{\circ}$ K ) for (Density: 25 – 48 kg/m3)
	For Hot Applications only and should not be used for
	Refrigerated/Condensation Applications.
*14 C1 1	*Mineral Fiber Blanket/Mattress with Aluglass-FR Facing
*Knauf Insulation	Weld 200 : 4220
(Yellowish in color)	Width: 300 to 1220 mm; Length: Various Length
	Nominal Thickness: 15 - 300 mm
	Nominal Density: 10 – 48 kg/m³;
*Knauf Insulation	Thermal Conductivity @ 35°C & 60% RH:
With Ecose Technology	k-value: 0.06 W/(m-°K) for (Density: 10 – 16 kg/m3)
(PF Free)	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)
(Brownish in color)	N
	Not to be used for less than - 5 °C applications as per the
	requirements of table 1 of BS 5422:2009

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#### FOR CERTIFICATE NO. CL18020632 - Rev01

		Knauf Insulation	Mineral Fiber Pipe Insulation without Facing
		(Yellowish in color)	
		Knauf Insulation	Diameter: 21.3 to 457.2 mm
			Length: 1.2 m
			Nominal Thickness: 15 - 100 mm
	Mineral Wool		Nominal Density: 64 – 120 kg/m³
3.	(Glass wool)	Knauf Insulation	Thermal Conductivity @ 35°C & 60% RH:
	Pipe Insulation	With Ecose Technology	k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m3)
	·	(PF Free)	
	CFC Free		For Hot Applications only and should not be used for
	(see note 4)	(Brownish in color)	Refrigerated/Condensation Applications.
		Knauf Insulation	Mineral Fiber Pipe Insulation with FSK (Foil Scrim Kraft) Facing
		(Yellowish in color)  Knauf Insulation	Diameter: 21.3 to 457.2 mm
		Kilaul IIISulation	Length: 1.2 m
			Nominal Thickness: 15 - 100 mm
		Knauf Insulation	Nominal Density: 64 – 120 kg/m³
		With Ecose Technology	Thermal Conductivity @ 35°C & 60% RH:
		(PF Free)	k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m3)
		(Brownish in color)	Water Vapor Permeance is 0.0 perms as per the requirements of table 1 of BS 5422:2009
		Knauf Insulation	Mineral Fiber Pipe Insulation with Aluglass Facing
		(Yellowish in color)	D' 24.2 /57.2
		Knauf Insulation	Diameter: 21.3 to 457.2 mm
			Length: 1.2 m
		Well E	Nominal Thickness: 15 - 100 mm
		With Ecose Technology	Nominal Density: 64 – 120 kg/m³  Thormal Conductivity @ 35°C % 60% PH:
		(PF Free)	Thermal Conductivity @ 35°C & 60% RH: k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m3)
		(0	k-value: 0.050 vv/(III- K/ IOF (Defisity: 04 – 120 kg/m3)
		(Brownish in color)	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





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#### FOR CERTIFICATE NO. CL18020632 - Rev01

	*Mineral Fiber Pipe Insulation with Aluglass-FR Facing
*Knauf Insulation	
(Yellowish in color)	Diameter: 21.3 to 457.2 mm
Knauf Insulation	Length: 1.2 m
	Nominal Thickness: 15 - 100 mm
	Nominal Density: 64 – 120 kg/m <sup>3</sup>
*With Ecose	Thermal Conductivity @ 35°C & 60% RH:
Technology	k-value: 0.036 W/(m-°K) for (Density: 64 – 120 kg/m3)
(PF Free)	
	Not to be used for less than - 5 °C applications as per the
(Brownish in color)	requirements of table 1 of BS 5422:2009

<sup>\*</sup> 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

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