Forschungsinstitut für Wärmeschutz e.V. München
Notified body No.0751

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No.: 0751-CPR-233.0-01

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 09 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Knauf Insulation mineral wool products
Thermal insulation products for buildings
factory made mineral wool products acc. EN 13162:2012+A1:2015

(details see annex)
produced by or for

Knauf Insulation, d.o.o.
Batajnički drum 16 b
11090 Zemun, Beograd, Serbia

and produced in the manufacturing plant(s)

Knauf Insulation, d.o.o
Industrijsko naselje Belo Polje b.b.
17530 SURDULICA, Serbia

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 13162:2012+A1:2015

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 28.02.2017 and will remain valid (but no longer than 28.02.2024) as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Gräfelfing, 22 December 2022

Dr. Andreas Schmeller
Certification Body

Forschungsinstitut für Wärmeschutz e. V. München
Lochhamer Schlag 4 · 82166 Gräfelfing · Germany
Telephone: +49 89 858000 · Telefax: +49 89 8580040
info@fiw-muenchen.de · www.fiw-muenchen.de

Forschungsinstitut für Wärmeschutz e.V. München
Notified body No.0751

ANNEX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

No.: 0751-CPR-233-01 Annex A Line 1

Factory: Knauf Insulation, d.o.o - Surdulica, 17530 Surdulica

Construction product(s): factory made mineral wool products acc. EN 13162:2012+A1:2015 with ECOSE® Technology

Intended use: **Thermal insulation products for buildings**

Level(s) or class(es) Reaction to fire: for uses subject to regulations of reaction to fire A1, A2, B, C. Products for which a clearly identifiable stage in the production process results in an improvement in the reaction to fire classification

System of Assessment and Verification of Constancy of Performance: 1

Table A1-1: Standard building products with ECOSE

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
1	NaturBoard POD	board	20-50	A1	(-)	≤ 170	≤ 5,23	20 - 200
2	SmartFloor TP	board	20-50	A1	(-)	≤ 170	≤ 5,23	20 - 200
3	NaturBoard POD STANDARD	board	20-50	A1	(-)	≤ 170	≤ 5,23	20 - 200
4	NaturBoard POD PLUS	board	20-50	A1	(-)	≤ 170	≤ 5,23	20 - 200
5	SmartFloor TP-ST	board	20-80	A1	(-)	≤ 170	≤ 5,23	20 - 200
6	NaturBoard POD EXTRA	board	20-80	A1	(-)	≤ 170	≤ 5,23	20 - 200
7	NaturBoard VENTI	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
8	SmartFaçade Rock 035	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
9	NaturBoard VENTACUSTO	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
10	SmartAcoustik 7	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
11	NaturBoard VENTI PLUS	board	20-150	A1	(-)	≤ 170	≤ 5,23	20 - 200
12	NaturBoard VENTI PLUS	board	160-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
13	NaturBoard VENTI PLUS GVN / GVB	board	20-150	A1	(1), (2)	≤ 170	≤ 5,23	20 - 200
14	NaturBoard VENTI PLUS GVN / GVB	board	160-200	A1	(1), (2)	≤ 170	≤ 5,23	20 - 200
15	NaturBoard VENTI PLUS GVN / GVB	board	20-150	A1	(3)	≤ 170	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. 1134/21-530-16-EN)

(1) GVN = glass veil white (classification report no. 1134/21-530-16-EN)

(2) GVB = glass veil black (classification report no. 1134/21-530-16-EN)

(3) ALU = aluminum foil (classification report no. 1134/21-530-16-EN)

Note: All products can have the following suffix: ECOSE, with ECOSE Technology, with E-Technology

Table A1-1: Standard building products with ECOSE (continued)

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
16	NaturBoard VENTI PLUS GVN / GVB	board	160-200	A1	(3)	≤ 170	≤ 5,23	20 - 200
17	NaturBoard VENTI FAS 2	board	80-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
18	NaturBoard Garage B 2	board	80-200	A1	(2)	≤ 170	≤ 5,23	20 - 200
19	NaturBoard Garage W 2	board	80-200	A1	(1)	≤ 170	≤ 5,23	20 - 200
20	NaturBoard FIT	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
21	NaturBoard FIT-G	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
22	NaturBoard FIT PLUS	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
23	NaturBoard FIT-G PLUS	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
24	NaturBoard TF	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. 1134/21-530-16-EN)
(2) GVB = glass veil black (classification report no. 1134/21-530-16-EN)
(1) GVN = glass veil white (classification report no. 1134/21-530-16-EN)
(3) ALU = aluminum foil (classification report no. 1134/21-530-16-EN)

Note: All products can have the following suffix: ECOSE, with ECOSE Technology, with E-Technology

Gräfelfing, 22 December 2022

Dr. Andreas Schmeller

Certification Body

Forschungsinstitut für Wärmeschutz e.V. München
Notified body No.0751

ANNEX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

No.: 0751-CPR-233-01 Annex B Line 1

Factory: Knauf Insulation, d.o.o - Surdulica, 17530 Surdulica

Construction product(s): factory made mineral wool products acc. EN 13162:2012+A1:2015 with conventional binder

Intended use: **Thermal insulation products for buildings**

Level(s) or class(es) Reaction to fire: for uses subject to regulations of reaction to fire A1, A2, B, C. Products for which a clearly identifiable stage in the production process results in an improvement in the reaction to fire classification.

System of Assessment and Verification of Constancy of Performance: 1

Table B1-1: Standard building products with conventional binder

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
1	TP	board	20-50	A1	(-)	≤ 180	≤ 5,23	20 - 200
2	TPS	board	20-50	A1	(-)	≤ 180	≤ 5,23	20 - 200
3	TPST	board	20-80	A1	(-)	≤ 180	≤ 5,23	20 - 200
4	POD STANDARD	board	20-50	A1	(-)	≤ 180	≤ 5,23	20 - 200
5	POD PLUS	board	20-50	A1	(-)	≤ 180	≤ 5,23	20 - 200
6	POD EXTRA	board	20-80	A1	(-)	≤ 180	≤ 5,23	20 - 200
7	FKD	board	20-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
8	FKD-S Thermal	board	30-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
9	FKD-N Thermal	board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
10	FKL Thermal	lamella	40-200	A1	lamella	≤ 180	≤ 5,23	20 - 200
11	FKD-N Thermal 2	dual density board	80-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
12	FKD-S Thermal 2	dual density board	100-170	A1	(-)	≤ 180	≤ 5,23	20 - 200
13	EXPERT CFB 034	board	80-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
14	EXPERT CFB 035	board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
15	EXPERT CFB 036	board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
16	FB S	board	50-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
17	DDP 2U	dual density board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
18	DDP 2	dual density board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. 1134/21-530-17-EN) (3) ALU = aluminum foil (classification report no. 1134/21-530-17-EN)

Table B1-1: Standard building products with conventional binder (continued)

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
19	SmartRoof Thermal 2	dual density board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
20	SmartRoof Base 2	dual density board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
21	DDP-X	board	60-140	A1	(-)	≤ 180	≤ 5,23	20 - 200
22	SmartRoof Hard	board	60-140	A1	(-)	≤ 180	≤ 5,23	20 - 200
23	SmartRoof Hard 2	dual density board	60-140	A1	(-)	≤ 180	≤ 5,23	20 - 200
24	SmartRoof Base	board	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
25	Trapez	board	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
26	SmartRoof Thermal	board	30-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
27	SmartRoof Norm	board	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
28	SmartRoof Top	board	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
29	SmartRoof Top CTF1	Cut to fall boards (slope 0,5-10%)	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
30	SmartRoof Top CTF2	Cut to fall boards (slope 0,5-10%)	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
31	DF	board	60-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
32	CLT Thermal	lamella	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
33	EXPERT LRB 038	board	50, 100	A1	(-)	≤ 180	≤ 5,23	20 - 200
34	EXPERT LRB 039	board	20-40	A1	(-)	≤ 180	≤ 5,23	20 - 200
35	KR TF	board	50-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
36	KR TF	board	50-200	A1	(3)	≤ 180	≤ 5,23	20 - 200
37	KR P	board	50-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
38	Chimenea S DP 10 Alu	board	20-200	A1	(3)	≤ 180	≤ 5,23	20 - 200
39	Panneaux Cheminee DP-9 Alu	board	20-200	A1	(3)	≤ 180	≤ 5,23	20 - 200
40	EXPERT CHB 035 Alu	board	30-200	A1	(3)	≤ 180	≤ 5,23	20 - 200
41	BL D70	block	65-230	A1	(-)	≤ 180	≤ 5,23	20 - 200
42	BL D80	block	140-210	A1	(-)	≤ 180	≤ 5,23	20 - 200
43	BL D90	block	65-230	A1	(-)	≤ 180	≤ 5,23	20 - 200
44	BL D120	block	65-230	A1	(-)	≤ 180	≤ 5,23	20 - 200
45	BL D150	block	65-200	A1	(-)	≤ 180	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. 1134/21-530-17-EN)

(3) ALU = aluminum foil (classification report no. 1134/21-530-17-EN)

Gräfelfing, 22 December 2022

Dr. Andreas Schmeller

Certification Body

Forschungsinstitut für Wärmeschutz e.V. München
Notified body No.0751

ANNEX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

No.: 0751-CPR-233-01 Annex C Line 1

Factory: Knauf Insulation, d.o.o - Surdulica, 17530 Surdulica

Construction product(s): factory made mineral wool products acc. EN 13162:2012+A1:2015 with ECOSE® Technology

Intended use: **Thermal insulation products for buildings**

Level(s) or class(es) Reaction to fire: for uses subject to regulations of reaction to fire A1, A2, B, C. Products for which a clearly identifiable stage in the production process results in an improvement in the reaction to fire classification.

System of Assessment and Verification of Constancy of Performance: 1

Table C1-1: OEM products with ECOSE

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
1	Board D3	board	30-220	A1	(-)	≤ 170	≤ 5,23	20 - 200
2	Board D4	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
3	Board D5	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
4	Board D6	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
5	Board D7	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
6	Board D7	board	20-200	A1	(2)	≤ 170	≤ 5,23	20 - 200
7	Board D8	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
8	Board D9	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
9	Board D10	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
10	Board D11	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
11	Board D12	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. 1134/21-530-16-EN)

(1) GVN = glass veil white (classification report no. 1134/21-530-16-EN)

(2) GVB = glass veil black (classification report no. 1134/21-530-16-EN)

(3) ALU = aluminum foil (classification report no. 1134/21-530-16-EN)

Note: All products can have the following suffix: ECOSE, with ECOSE Technology, with E-Technology

Note: OEM product names have always one of the following prefixes: PBE, DRS, CHM S, CHM C, TSP, DAP, AUT, RSB, MCH, MCH S, CNF, CNF E or SPA

Table C1-1: OEM products with ECOSE (continued)

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
12	Board D13	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
13	Board D14	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
14	Board D15	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
15	Board D16	board	20-180	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
16	Board D17	board	20-170	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
17	Board D18	board	20-200	A1	(-), (1), (2), (3)	≤ 170	≤ 5,23	20 - 200
18	Board Basic	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
19	Board Premium	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
20	Board High	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
21	Board Supreme	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
22	Board Premium Thermal	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200
23	Board HighX-Tend	board	20-200	A1	(-)	≤ 170	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. 1134/21-530-16-EN)

(1) GVN = glass veil white (classification report no. 1134/21-530-16-EN)

(2) GVB = glass veil black (classification report no. 1134/21-530-16-EN)

(3) ALU = aluminum foil (classification report no. 1134/21-530-16-EN)

Note: All products can have the following suffix: ECOSE, with ECOSE Technology, with E-Technology

Note: OEM product names have always one of the following prefixes: PBE, DRS, CHM S, CHM C, TSP, DAP, AUT, RSB, MCH, MCH S, CNF, CNF E or SPA

Gräfelfing, 22 December 2022

Forschungsinstitut für Wärmeschutz e.V. München FIW München www.fiw-muenchen.de 2020

Dr. Andreas Schmeller

Certification Body

Forschungsinstitut für Wärmeschutz e.V. München
Notified body No.0751

ANNEX TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

No.: 0751-CPR-233-01 Annex D Line 1

Factory: Knauf Insulation, d.o.o - Surdulica, 17530 Surdulica

Construction product(s): factory made mineral wool products acc. EN 13162:2012+A1:2015 with conventional binder

Intended use: **Thermal insulation products for buildings**

Level(s) or class(es) Reaction to fire: for uses subject to regulations of reaction to fire A1, A2, B, C. Products for which a clearly identifiable stage in the production process results in an improvement in the reaction to fire classification.

System of Assessment and Verification of Constancy of Performance: 1

Table D1-1: OEM products with conventional binder

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
1	Board D3	board	20-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
2	Board D4	board	30-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
3	Board D5	board	30-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
4	Board D6	board	30-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
5	Board D7	board	30-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
6	Board D8	board	80-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
7	Board D9	board	80-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
8	Board D10	board	40-300	A1	(-)	≤ 180	≤ 5,23	20 - 200
9	Board D11	board	80-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
10	Board D12	board	40-300	A1	(-)	≤ 180	≤ 5,23	20 - 200
11	Board D13	board	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
12	Board D14	board	40-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
13	Board D15	board	50-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
14	Board D16	board	80-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
15	Board D17	board	50-100	A1	(-)	≤ 180	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. (-) no facing/coating (classification report no. 1134/21-530-17-EN))
Note: OEM Product names has always one of the following prefixes - PBE, DRS, CHM S, CHM C, TSP, DAP, AUT, RSB, MCH, MCH S, CNF, CNF E and SPA

Table D1-1: OEM products with conventional binder (continued)

No.	Product			Classification				
	Name	Description	Thickness range mm	Reaction to fire class	Facing	Density Range kg/m³	Loss of ignition mass%	Thickness range mm
16	Board D18	board	40-100	A1	(-)	≤ 180	≤ 5,23	20 - 200
17	Board Basic	board	20 - 200	A1	(-)	≤ 180	≤ 5,23	20 - 200
18	Board Premium	board	100 - 140	A1	(-)	≤ 180	≤ 5,23	20 - 200
19	Board High	board	60 - 200	A1	(-)	≤ 180	≤ 5,23	20 - 200
20	Board Supreme	board	65 - 230	A1	(-)	≤ 180	≤ 5,23	20 - 200
21	Board Special	board	65 - 230	A1	(-)	≤ 180	≤ 5,23	20 - 200
22	Lamella Basic	lamella	65 - 230	A1	(-)	≤ 180	≤ 5,23	20 - 200
23	Lamella Premium	lamella	65 - 230	A1	(-)	≤ 180	≤ 5,23	20 - 200
24	Lamella High	lamella	65 - 200	A1	(-)	≤ 180	≤ 5,23	20 - 200
25	Lamella Supreme	lamella	20-200	A1	(-)	≤ 180	≤ 5,23	20 - 200
26	Lamella Premium Thermal	lamella	65-230	A1	(-)	≤ 180	≤ 5,23	20 - 200
27	Lamella High X-trend	lamella	65-230	A1	(-)	≤ 180	≤ 5,23	20 - 200

(-) no facing/coating (classification report no. (-) no facing/coating
(classification report no. 1134/21-530-17-EN))
Note: OEM Product names has always one of the following prefixes - PBE, DRS, CHM S, CHM C, TSP, DAP, AUT, RSB, MCH, MCH S, CNF, CNF E and SPA

Gräfelfing, 22 December 2022

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Dr. Andreas Schmeller
Certification Body