Declaration of Performance

B4222EPCPR

1. Unique identification code of the product-type:
   Supafil Frame

2. Intended use or uses:
   Thermal Insulation for Buildings (ThIB)

3. Manufacturer:
   Knauf Insulation, spol. s.r.o.
   Pod Dolní drahou 110, 417 42 Krupka
   Czech Republic
   www.knaufinsulation.com - dop@knaufinsulation.com

4. Authorised representative:
   Not applicable

5. System or systems of assessment and verification of constancy of performance:

   AVCP System 4 for Reaction to Fire
   AVCP System 3 for the other characteristics

6a. Harmonized Standard:
   EN 14064-1:2010

   Notified body or bodies:
   AVCP System 3: (Notified testing laboratory) 1020 TECHNICKY A ZKUSEBNI USTAV STAVEBNI PRAHA s.p.

6. European Assessment document: not applicable
   European Technical Assessment: not applicable
   Technical Assessment Body: not applicable
   Notified body/ies: not applicable

7. Declared Performances:
   See next page

Essential Characteristics	Open Construction : Lofts 0 - 15°	
	Harmonized Standard:	Supafil Frame
Thermal conductivity (W/mK)	EN 12667	0,042
Thermal Resistance	EN 12667	See product label or performance chart
Settlement	Ref. 4.2.3.2	S1
Reaction to Fire	EN 13501-1	A1
Short term water absorption	EN 1609	WS
Water vapour transmission	EN 12086	MU1

Essential Characteristics	Open Construction : Lofts 0 - 30°	
	Harmonized Standard:	Supafil Frame
Thermal conductivity (W/mK)	EN 12667	0,04
Thermal Resistance	EN 12667	See product label or performance chart
Settlement	Ref. 4.2.3.2	S1
Reaction to Fire	EN 13501-1	A1
Short term water absorption	EN 1609	WS
Water vapour transmission	EN 12086	MU1

Essential Characteristics	Closed Construction : Rafters and Walls			
	Harmonized Standard:	Supafil Frame	Supafil Frame	Supafil Frame
Installed Density (kg/m³)	-	19	26	30
Gradient	-	0 - 25°	0 - 90°	0 - 90°
Thermal conductivity (W/mK)	EN 12667	0,038	0,034	0,033
Thermal Resistance	EN 12667	See product label or performance chart		
Settlement	Ref. 4.2.3.2	S1	S1	S1
Reaction to Fire	EN 13501-1	A1	A1	A1
Short term water absorption	EN 1609	WS	WS	WS
Water vapour transmission	EN 12086	MU1	MU1	MU1

Performance Chart **Open Construction :** **Lofts**

Supafil Frame	12 kg/m³	Angle 0 - 15°	λD=0,042 W/mK	
Declared thermal resistance level R m².K/W	Thickness after settlement mm	Minimum installed thickness mm	Minimum coverage kg/m²	Minimum Bag Usage Rate (Bags per 100m²)
R4,5	189	195	2,3	14,8
R5,0	210	215	2,6	16,4
R5,5	231	235	2,8	18,1
R6,0	252	255	3,1	19,7
R6,5	273	280	3,4	21,3
R7,0	294	300	3,6	23,0
R7,5	315	320	3,9	24,6
R8,0	336	340	4,1	26,3
R8,5	357	365	4,4	27,9
R9,0	378	385	4,6	29,6
R9,5	399	405	4,9	31,2
R10,0	420	425	5,1	32,8
R10,5	441	450	5,4	34,5
R11,0	462	470	5,6	36,1
R11,5	483	490	5,9	37,8
R12,0	504	510	6,2	39,4
R12,5	525	535	6,4	41,1
R13,0	546	555	6,7	42,7
R13,5	567	575	6,9	44,3
R14,0	588	595	7,2	46,0
R14,5	609	620	7,4	47,6
R15,0	630	640	7,7	49,3
R15,5	651	660	7,9	50,9
R16,0	672	680	8,2	52,6
R16,5	693	700	8,4	54,2
R17,0	714	725	8,7	55,8
R17,5	735	745	9,0	57,5
R18,0	756	765	9,2	59,1
R18,5	777	785	9,5	60,8
R19,0	798	810	9,7	62,4

Supafil Frame	15 kg/m³	Angle 0 - 30°	λD=0,040 W/mK	
Declared thermal resistance level R m².K/W	Thickness after settlement mm	Minimum installed thickness mm	Minimum coverage kg/m²	Minimum Bag Usage Rate (Bags per 100m²)
R4,5	180	185	2,8	17,6
R5,0	200	205	3,1	19,6
R5,5	220	225	3,4	21,5
R6,0	240	245	3,7	23,5
R6,5	260	265	4,0	25,4
R7,0	280	285	4,3	27,4
R7,5	300	305	4,6	29,3
R8,0	320	325	4,9	31,3
R8,5	340	345	5,2	33,2
R9,0	360	365	5,5	35,2
R9,5	380	385	5,8	37,1
R10,0	400	405	6,1	39,1
R10,5	420	425	6,4	41,1
R11,0	440	445	6,7	43,0
R11,5	460	465	7,0	45,0
R12,0	480	485	7,3	46,9
R12,5	500	510	7,6	48,9
R13,0	520	530	7,9	50,8
R13,5	540	550	8,2	52,8
R14,0	560	570	8,5	54,7
R14,5	580	590	8,8	56,7
R15,0	600	610	9,1	58,7
R15,5	620	630	9,4	60,6
R16,0	640	650	9,7	62,6
R16,5	660	670	10,0	64,5
R17,0	680	690	10,4	66,5
R17,5	700	710	10,7	68,4
R18,0	720	730	11,0	70,4
R18,5	740	750	11,3	72,3
R19,0	760	770	11,6	74,3
R19,5	780	790	11,9	76,2
R20,0	800	810	12,2	78,2

Performance Chart **Closed Construction : Rafters and Walls**

Supafil Frame	19 kg/m³	Angle 0 - 25°	λD=0,038 W/mK
Cavity width mm	Declared thermal resistance level R m².K/W	Minimum Bag Usage Rate (Bags per 100m²)	
90	R2,4	11	
100	R2,6	12,3	
110	R2,9	13,5	
120	R3,2	14,7	
130	R3,4	15,9	
140	R3,7	17,2	
150	R3,9	18,4	
160	R4,2	19,6	
170	R4,5	20,8	
180	R4,7	22,1	
190	R5,0	23,3	
200	R5,3	24,5	

Supafil Frame	26 kg/m³	Angle 0 - 90°	λD=0,034 W/mK
Cavity width mm	Declared thermal resistance level R m².K/W	Minimum Bag Usage Rate (Bags per 100m²)	
90	R2,6	15,1	
100	R2,9	16,8	
110	R3,2	18,5	
120	R3,5	20,1	
130	R3,8	21,8	
140	R4,1	23,5	
150	R4,4	25,2	
160	R4,7	26,8	
170	R5,0	28,5	
180	R5,3	30,2	
190	R5,6	31,9	
200	R5,9	33,5	

Supafil Frame	30 kg/m³	Angle 0 - 90°	λD=0,033 W/mK
Cavity width mm	Declared thermal resistance level R m².K/W	Minimum Bag Usage Rate (Bags per 100m²)	
90	R2,7	17,4	
100	R3,0	19,4	
110	R3,3	21,3	
120	R3,6	23,2	
130	R3,9	25,2	
140	R4,2	27,1	
150	R4,5	29	
160	R4,8	31	
170	R5,2	32,9	
180	R5,5	34,8	
190	R5,8	36,8	
200	R6,1	38,7	

8. Appropriate Technical Documentation and / or Specific Technical Documentation:
Not applicable
The performance of the product identified above is in conformity with the set of declared

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for an on behalf of the manufacturer by:

Radek Bedrna - Managing Director KIEE

(Name and function)

(Signature)

Krupka - 15/02/2022

(Place and date of issue)

{a} No change in reaction to fire properties for MW Products. The fire performance of MW does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.
{b} Thermal conductivity of MW products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air
{c} For dimensional stability thickness only
{d} This characteristic also covers handling and installation
{e} European test methods are under development
{f} Also valid and applicable for multilayers