Declaration of Performance

R4224MPCPR

1. Unique Identification code of the product-type:
   Smart Wall N, FKD-N Thermal.

2. Type, Batch or serial number or any other element allowing identification of the construction product as required under article 11(4) of the CPR:
   See product label.
   If the product has facing then the alternative name has always one of the following appendixes: GVN, GVB, Alu.

3. Intended use or uses of the construction product , in accordance with the applicable harmonised technical specification foreseen by the manufacturer:
   Thermal Insulation for Buildings (ThIB) - EN 13162:2012+A1:2015

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):
   Knauf Insulation
   Am Bahnhof 7, 97346 Iphofen,
   Deutschland
   www.knaufinsulation.com
   Contact: dop@knaufinsulation.com

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):
   Not applicable.

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
   - System 1: reaction to fire
   - System 3: Internal measurements for mechanical and thermal properties.

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:
   Notified body No. 0751 performed the initial inspection of the manufacturing evaluation of factory production control, and issued the certificate of constancy of performance for reaction to fire.

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
   Not applicable.

9. Declared Performances:

Essential Characteristics	R4224MPCPR			Harmonised Technical Specification
	Performance	Smart Wall N	FKD-N Thermal	
Thermal Resistance	Thermal conductivity (W/mK)	0.034	0.034	EN 13162:2012 +A1:2015
	Thermal Resistance	See product label	See product label	
	Thickness range (mm)	80 - 200	80 - 200	
	Thickness tolerance	T5	T5	
Reaction to Fire	Reaction to fire	A1	A1	
Continuous glowing combustion	Continuous glowing combustion [e]	NPD	NPD	
Tensile/Flexural strength	Tensile strength perpendicular faces [d]	TR7,5	TR7,5	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)20	CS(10)20	
	Point Load	NPD	NPD	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	NPD	
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability Characteristics [a]	NPD	NPD	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance [b]	NPD	NPD	
	Thermal conductivity [b]	NPD	NPD	
	Durability characteristics [c]	NPD	NPD	
Water Permeability	Short term water absorption	WS	WS	
	Long term water absorption	WL(P)	WL(P)	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	NPD	
	Thickness d_L	NPD	NPD	
	Compressibility *c*	NPD	NPD	
	Air flow resistivity	AF5	AF5	
Acoustic absorptions index	Sound absorption	NPD	NPD	
Direct airborne sound insulation index	Air flow resistivity	AF5	AF5	
Release of dangerous substances to the indoor environment	Release of dangerous substances [e]	NPD	NPD	
NPD – No performance determined				

Mark	Appendix of Product`s Name	Kind of Facing
-		No coating
(1)	GVN	Glass veil - white
(2)	GVB	Glass veil - black
(3)	ALU	Aluminium foil

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

    This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Jovica Mišić – Plant Manager
(Name and function)

Surdulica – 11/12/2015
(Place and date of issue)

(Signature)

[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