

Declaration of Performance



R4305MPCPR

1. Unique identification code of the product-type:
Sound-teK BD 807, Sound-teK BD 808, FKD N Thermal, NaturBoard VENTACUSTO, NaturBoard VENTACUSTO GVB, NaturBoard VENTACUSTO GVN, NaturBoard SILENCE, NaturBoard SILENCE ALU, NaturBoard SILENCE B, NaturBoard SILENCE K, NaturBoard TIMBER COMFORT, NaturBoard TIMBER COMFORT ALU, NaturBoard TIMBER COMFORT B, NaturBoard TIMBER COMFORT B2
2. Intended use or uses:
Thermal Insulation for Buildings (ThIB)
3. Manufacturer:
Knauf Insulation d.o.o.
Varaždinska 140, 42220 Novi Marof
Croatia
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 1 for Reaction to Fire
AVCP System 3 for the other characteristics
- 6a. Harmonized Standard:

EN 13162:2012 + A1:2015

Notified body or bodies:
AVCP System 1: Forschungsinstitut für Wärmeschutz e. V. München FIW München (Notified certification body No. 0751)
AVCP System 3: Forschungsinstitut für Wärmeschutz e. V. München FIW München (Notified certification body No. 0751)
- 6b. 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	R4305MPCPR		Harmonised technical standard
	Performance	FKD N Thermal	
Thermal Resistance	Thermal conductivity (W/mK)	λ _D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	40 - 250	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10) 20	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR7,5 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	WL(P)	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr25	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard SILENCE	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard SILENCE ALU	
Thermal Resistance	Thermal conductivity (W/mK)	λ _D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard SILENCE B	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard SILENCE K	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	F	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard TIMBER COMFORT	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard TIMBER COMFORT ALU	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard TIMBER COMFORT B	
Thermal Resistance	Thermal conductivity (W/mK)	λ _D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard TIMBER COMFORT B2	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard VENTACUSTO	
Thermal Resistance	Thermal conductivity (W/mK)	λ _D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)5	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR1 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	WL(P)	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard VENTACUSTO GVB	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)5	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR1 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	WL(P)	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	NaturBoard VENTACUSTO GVN	
Thermal Resistance	Thermal conductivity (W/mK)	λ _D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)5	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR1 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	WL(P)	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	Sound-teK BD 807	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30-255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

Essential Characteristics	R4305MPCPR		Harmonised technical standard
	Performance	Sound-teK BD 808	
Thermal Resistance	Thermal conductivity (W/mK)	λ_D 0,034	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30-255	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr15	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
NPD - No performance determined			

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 performances.

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

Stjepan Mršić - Plant manager
(Name and function)



Novi Marof - 11-01-19
(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