

# Declaration of Performance

## R4224LPCPR

1. Unique identification code of the product-type:  
L, P, PVF, TF, Chimenea S DP 10 Alu, FKD-N, SmartRoof Base, SMARTwall S, Panneaux Cheminee DP-9 Alu, SmartRoof Eco, NaturBoard TF, FKD-S Thermal, FKD-S Thermal GVN, FKD-N Thermal 2, SmartRoof Base 2, NaturBoard VENTI, NaturBoard VENTI PLUS, SmartFaçade Rock 035, FKD-S Thermal ALU, FKD-S Thermal GVB, NaturBoard VENTI GVB, NaturBoard VENTI PLUS GVB, NaturBoard VENTI PLUS GVN, NaturBoard VENTI PLUS ALU, NaturBoard TF GVB, NaturBoard TF GVN, NaturBoard TF ALU, SMARTwall S GVB, SMARTwall S GVN, SMARTwall S ALU, FKD-S Thermal 2, NaturBoard VENTI FAS 2, FB S, NaturBoard Garage B 2, NaturBoard Garage W 2, KR TF, Board D5, Board D6, Board D7, Board D7 GVB, Board D8, Board D9, Board D10, Board Premium Thermal
2. Intended use or uses:  
Thermal Insulation for Buildings (ThIB)
3. Manufacturer:  
Knauf Insulation d.o.o.  
Industrijsko naselje Belo Polje bb, 17530 Surdulica  
Serbia  
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: (Notified certification body) 0751 - Forschungsinstitut für Wärmeschutz e. V. München  
FIW München 1404 - ZAG - ZAVOD ZA GRADBENISTVO SLOVENIJE  
  
AVCP System 3: (Notified testing laboratory) 0751 - Forschungsinstitut für Wärmeschutz e. V. München  
FIW München - - - - -
- 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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D10	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D5	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D6	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D7	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D7 GVB	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D8	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board D9	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Board Premium Thermal	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Chimenea S DP 10 Alu	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	TR7,5 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FB S	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	50 - 200	
	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)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-N	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80   100   120   150	
	Thickness tolerance	T5   T5   T5   T5	
Reaction to Fire	Reaction to fire	A1   A1   A1   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)25   CS(10)25   CS(10)25   CS(10)25	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR7,5   TR7,5   TR7,5   TR7,5 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS   WS   WS   WS	
	Long term water absorption	WL(P)   WL(P)   WL(P)   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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-N Thermal 2	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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	DS(70,-) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)20	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-S Thermal	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	30 - 200	
	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	DS(70,-) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-S Thermal 2	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	100 - 170	
	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)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-S Thermal ALU	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	DS(70,-) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-S Thermal GVB	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	DS(70,-) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	FKD-S Thermal GVN	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	DS(70,-) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	KR TF	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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	TR7,5 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	L	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard Garage B 2	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard Garage W 2	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard TF	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard TF ALU	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard TF GVB	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard TF GVN	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI FAS 2	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI GVB	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI PLUS	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 150   160 - 200	
	Thickness tolerance	T5   T5	
Reaction to Fire	Reaction to fire	A1   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)10   CS(10)10	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR5   TR3 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	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	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5   AFR5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5   AFR5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI PLUS ALU	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 150   160 - 200	
	Thickness tolerance	T5   T5	
Reaction to Fire	Reaction to fire	A1   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)10   CS(10)10	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR5   TR3 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	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	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5   AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5   AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI PLUS GVB	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 150   160 - 200	
	Thickness tolerance	T5   T5	
Reaction to Fire	Reaction to fire	A1   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)10   CS(10)10	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR5   TR3 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	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	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5   AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5   AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	NaturBoard VENTI PLUS GVN	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 150   160 - 200	
	Thickness tolerance	T5   T5	
Reaction to Fire	Reaction to fire	A1   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)10   CS(10)10	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR5   TR3 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	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	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5   AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5   AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	P	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	Panneaux Cheminee DP-9 Alu	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	TR7,5 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	PVF	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 150   160 - 200	
	Thickness tolerance	T5   T5	
Reaction to Fire	Reaction to fire	A1   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)10   CS(10)10	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR5   TR3 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	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	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5   AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5   AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SmartFaçade Rock 035	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SmartRoof Base	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	50 - 200	
	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)30	
	Point Load	PL(5)300	
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	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SmartRoof Base 2	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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)30	
	Point Load	PL(5)350	
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	WS	
	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SmartRoof Eco	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	80 - 200	
	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)30	
	Point Load	PL(5)300	
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	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SMARTwall S	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	30 - 200	
	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)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SMARTwall S ALU	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	30 - 200	
	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)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SMARTwall S GVB	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	30 - 200	
	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)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	SMARTwall S GVN	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	30 - 200	
	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)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	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	NPD	
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	R4224LPCPR		Harmonised technical standard
	Performance {f}	TF	
Thermal Resistance	Thermal conductivity (W/mK)	$\lambda_D$ 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	20 - 200	
	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	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	AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5	
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.

Thermal Resistance Table														
[mm]	20	25	30	35	40	45	50	55	60	65	70	75	80	85
[m <sup>2</sup> K/W]	0,55	0,70	0,85	1,00	1,10	1,25	1,40	1,55	1,70	1,85	2,00	2,10	2,25	2,40
[mm]	90	95	100	105	110	115	120	125	130	135	140	145	150	155
[m <sup>2</sup> K/W]	2,55	2,70	2,85	3,00	3,10	3,25	3,40	3,55	3,70	3,85	4,00	4,10	4,25	4,40
[mm]	160	165	170	175	180	185	190	195	200					
[m <sup>2</sup> K/W]	4,55	4,70	4,85	5,00	5,10	5,25	5,40	5,55	5,70					

Signed for an on behalf of the manufacturer by:

Branislav Popović - Plant manager  
(Name and function)



Surdulica - 11-03-21  
(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