Declaration of Performance



R4224LPCPR

1. <u>Unique identification code of the product-type:</u>

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. <u>Harmonized Standard:</u>

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

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Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	Board D10	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	\dashv
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 deter	mined	

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Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	Board D5	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
fleat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	\dashv
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 deter	mined	

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Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	Board D6	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
ourability 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}	
ileat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors)	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 deter	mined	

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Essential Characteristics	R4224LP0	CPR	Harmonised technical
	Performance	Board D7	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
neat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR Board D7 GVB



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	Board D7 GVB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability 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}	
neat, weathering, ageing / degradation .	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	Dynamic stiffness	NPD	
floors)	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 deterr	mined	

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Essential Characteristics	R4224LP0	CPR	Harmonised technical standard
	Performance	Board D8	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	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	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
-	Point Load	NPD	\dashv
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	
1100(5)	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 deter	nined	

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Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	Board D9	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR Board Premium Thermal



Essential Characteristics	R4224LP	CPR	Harmonised technical
	Performance	Board Premium Thermal	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance		_
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	_
Weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors)	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 deter	minod	

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R4224LPCPR Chimenea S DP 10 Alu



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	Chimenea S DP 10 Alu	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
ricat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	\dashv
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 deter	mined	

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R4224LPCPR FB S



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	FB S	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	50 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation .	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	Dynamic stiffness	NPD	
floors)	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 deter	mined	

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R4224LPCPR FKD-N



Essential Characteristics	R4224	LPCPR	Harmonised technica standard
	Performance	FKD-N	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 100 120 150	7
	Thickness tolerance	T5 T5 T5 T5	
Reaction to Fire	Reaction to fire	A1 A1 A1 A1	-
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	-
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	_
heat, weathering, ageing / degradation	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	
T 11 /51 1 1 1 1			_
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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	7
	Compressibility	NPD	7
	Air flow resistivity	NPD	-
Acoustic absorptions index	Sound absorption	NPD	1
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 det	rermined	

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R4224LPCPR FKD-N Thermal 2



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	FKD-N Thermal 2	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 - 200	
-	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	_
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
ileat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors) -	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 deterr	mined	

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R4224LPCPR FKD-S Thermal



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	FKD-S Thermal	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
ourability 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}	
ricat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR FKD-S Thermal 2



Essential Characteristics	R4224LP0	CPR	Harmonised technical standard
	Performance	FKD-S Thermal 2	Stalldard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	100 - 170	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability 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}	
ricat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR FKD-S Thermal ALU



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	FKD-S Thermal ALU	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	\dashv
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 deterr	mined	

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R4224LPCPR FKD-S Thermal GVB



Essential Characteristics	R4224LP0	CPR	Harmonised technical standard
	Performance	FKD-S Thermal GVB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability 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}	
neat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR FKD-S Thermal GVN



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	FKD-S Thermal GVN	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation	·		
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
neat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	\dashv
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 deterr	mined	

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R4224LPCPR KR TF



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	KR TF	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	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	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation .	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	
110015)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	\dashv
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 deter	mined	

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R4224LPCPR L



Essential Characteristics	R4224LP0	CPR	Harmonised technical standard
	Performance	L	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability 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}	
near, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors)	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 deter	mined	

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R4224LPCPR NaturBoard Garage B 2



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	NaturBoard Garage B 2	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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}	
rensile / Flexural Strength	Tensile strength perpendicular races	NPD (u)	
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	Dynamic stiffness	NPD	
floors)	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 deter	mined	

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R4224LPCPR NaturBoard Garage W 2



Essential Characteristics	R4224LP	CPR	Harmonised technica standard
	Performance	NaturBoard Garage W 2	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	\dashv
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	Thermal conductivity	NPD	\dashv
	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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	\neg
	Compressibility	NPD	\neg
-	Air flow resistivity	AFr5	\dashv
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 deter	mined	

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R4224LPCPR NaturBoard TF



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	NaturBoard TF	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors) -	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 deteri	mined	

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R4224LPCPR NaturBoard TF ALU



Essential Characteristics	R4224LP0	CPR	Harmonised technical standard
	Performance	NaturBoard TF ALU	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
neat, weathering, ageing / degradation	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	
110013)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5	\neg
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 deter	mined	

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R4224LPCPR NaturBoard TF GVB



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	NaturBoard TF GVB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability 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}	
neat, weathering, ageing / degradation .	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	Dynamic stiffness	NPD	
floors)	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 deterr	mined	

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R4224LPCPR NaturBoard TF GVN



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	NaturBoard TF GVN	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR NaturBoard VENTI



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	NaturBoard VENTI	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors) -	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 deter	mined	

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R4224LPCPR NaturBoard VENTI FAS 2



Essential Characteristics	R4224LP	CPR	Harmonised technica standard
	Performance	NaturBoard VENTI FAS 2	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	_
heat, weathering, ageing / degradation	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}	_
rensile / Flexural Strength	rensile strength perpendicular faces	NPD {a}	
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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	\neg
-	Air flow resistivity	AFr5	\dashv
Acoustic absorptions index	Sound absorption	NPD	\dashv
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}	\dashv
	NPD - No performance deter	rmined	

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R4224LPCPR NaturBoard VENTI GVB



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	NaturBoard VENTI GVB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
neat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
-	Point Load	NPD	\dashv
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	Dynamic stiffness	NPD	
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5	\dashv
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 deter	mined	

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R4224LPCPR NaturBoard VENTI PLUS



Essential Characteristics	R4224LP	CPR	Harmonised technica standard
	Performance	NaturBoard VENTI PLUS	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 150 160 - 200	
	Thickness tolerance	T5 T5	
Reaction to Fire	Reaction to fire	A1 A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	_
heat, weathering, ageing / degradation	Thermal conductivity	NPD	\dashv
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)10 CS(10)10	
	Printed	NDD	
	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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5 AFr5	\dashv
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}	\dashv
	NPD - No performance deter	mined	

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R4224LPCPR NaturBoard VENTI PLUS ALU



Essential Characteristics	R4224Lf	PCPR	Harmonised technica standard
	Performance	NaturBoard VENTI PLUS ALU	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 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	_
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	-
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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}	_
rensile / Flexular strength	Tensile strength perpendicular faces	110 110 [0]	
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	Dynamic stiffness	NPD	
floors) -	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 dete	rmined	

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R4224LPCPR NaturBoard VENTI PLUS GVB



Essential Characteristics	R4224Lf	PCPR	Harmonised technica standard
	Performance	NaturBoard VENTI PLUS GVB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 150 160 - 200	
	Thickness tolerance	T5 T5	
Reaction to Fire	Reaction to fire	A1 A1	-
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	-
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	Thermal conductivity	NPD	7
	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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5 AFr5	7
Acoustic absorptions index	Sound absorption	NPD	1
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 dete	rmined	

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R4224LPCPR NaturBoard VENTI PLUS GVN



Essential Characteristics	R4224Li	R4224LPCPR	
	Performance	NaturBoard VENTI PLUS GVN	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	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}	
weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	7
	Compressibility	NPD	7
	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 dete	rmined	

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R4224LPCPR P



Essential Characteristics	R4224LP	PCPR	Harmonised technical
	Performance	Р	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation	,	(-)	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
meat, weathering, ageing / aegradation	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	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5	
Acoustic absorptions index	Sound absorption	NPD	\neg
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 deter	rmined	

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R4224LPCPR Panneaux Cheminee DP-9 Alu



Essential Characteristics	R4224L	R4224LPCPR		
	Performance	Panneaux Cheminee DP-9 Alu	standard	
	{f}			
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +	
	Thermal Resistance	See performance chart	A1:2015	
	Thickness range (mm)	20 - 200		
	Thickness tolerance	T5		
Reaction to Fire	Reaction to fire	A1		
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}		
weathering, ageing / degradation				
Durability of thermal resistance against	Thermal Resistance	NPD{b}	_	
heat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_	
floors) -	Thickness	NPD		
	Compressibility	NPD		
	Air flow resistivity	NPD	_	
Acoustic absorptions index	Sound absorption	NPD	1	
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 dete	rmined		

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R4224LPCPR PVF



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	PVF	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 150 160 - 200	
	Thickness tolerance	T5 T5	
Reaction to Fire	Reaction to fire	A1 A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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}	
rename / riexardi ad engan	rename attengen perpendicular ruces	[(u)	
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	Dynamic stiffness	NPD	_
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5 AFr5	\dashv
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 deter	mined	

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R4224LPCPR SmartFaçade Rock 035



Essential Characteristics	R4224LP0	CPR	Harmonised technica standard
	Performance	SmartFaçade Rock 035	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
rieat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5	\dashv
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 deter	mined	

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R4224LPCPR SmartRoof Base



Essential Characteristics	R4224LP0	Harmonised technical standard	
	Performance	SmartRoof Base	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	50 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
neat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive CS(10)30 Strength		
	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	
110013)	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 deter	mined	

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R4224LPCPR SmartRoof Base 2



Essential Characteristics	R4224LP0	Harmonised technica standard	
	Performance	SmartRoof Base 2	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
rieat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load		
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	Dynamic stiffness	NPD	_
floors) -	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 deteri	mined	

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R4224LPCPR SmartRoof Eco



Essential Characteristics	R4224LP0	Harmonised technica standard	
	Performance	SmartRoof Eco	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	80 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
ourability 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}	
neat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR SMARTwall S



Essential Characteristics	R4224LP0	Harmonised technica standard	
	Performance	SMARTwall S	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
rieat, weathering, ageing / degradation	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	Dynamic stiffness	NPD	_
floors) -	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 deter	mined	

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R4224LPCPR SMARTwall S ALU



Essential Characteristics	R4224LP0	Harmonised technica standard	
	Performance	SMARTwall S ALU	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
-	Point Load	_	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Durability of compressive Strength	Compressive creep	NPD	
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	Dynamic stiffness	NPD	
floors) -	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 deteri	mined	

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R4224LPCPR SMARTwall S GVB



Essential Characteristics	R4224LP0	Harmonised technica standard	
	Performance	SMARTwall S GVB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation			
Durability of thermal resistance against	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	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	Compressive creep	NPD	
against ageing / degradation	Compressive creep	NFD	
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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR SMARTwall S GVN



Essential Characteristics	R4224LP0	Harmonised technica standard	
	Performance	SMARTwall S GVN	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30 - 200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Ourability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation			
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
rieat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
-	Point Load		
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	Dynamic stiffness	NPD	
floors) -	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 deter	mined	

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R4224LPCPR TF



Essential Characteristics	R4224LP	CPR	Harmonised technical standard
	Performance	TF	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	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	Thermal Resistance	NPD{b}	
heat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	\dashv
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	
110015)	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 deter	mined	

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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
[m²K/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
[m²K/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] [m²K/W]	160 4,55	165 4,70	170 4,85	175 5,00	180 5,10	185 5,25	190 5,40	195 5,55	200 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)

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[{]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