Declaration of Performance



R4308KPCPR

1. Unique identification code of the product-type:

FKD S, FKD S C1, FKD S C2, DF, PTE, TPS, TPE, PTP-035, DP12, SmartRoof Thermal, PTS, SmartRoof Ultra, SmartRoof Pro, Expert CFB 036, SmartRoof All-Fix Thermal, DP12 GVB, DP12 GVN

2. Intended use or uses:

Thermal Insulation for Buildings (ThIB)

3. Manufacturer:

Knauf Insulation s.r.o. Železničný rad 24, 968 14 Nová Baňa Slovakia www.knaufinsulation.com - dop@knaufinsulation.com

4. <u>Authorised representative:</u>

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

AVCP System 3: (Notified testing laboratory) 0751 - Forschungsinstitut für Wärmeschutz e. V. München FIW München, 1020 - TECHNICKY A ZKUSEBNI USTAV STAVEBNI PRAHA s.p.

6b. European Assessment document: not applicable

European Technical Assessment: not applicable Technical Assessment Body: not applicable

Notified body/ies: not applicable

7. <u>Declared Performances:</u>

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R4308KPCPR DF



Essential Characteristics	R4308KPCPR		Harmonised technical
	Performance	DF	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	60-140	_
	Thickness tolerance	T6	_
Reaction to Fire	Reaction to fire	A1	_
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	_
weathering, ageing / degradation	Burasinty characteristics	M D (a)	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
neut, 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	SD15	
floors)	Thickness	NPD	
	Compressibility	CP3	\dashv
	Air flow resistivity	NPD	\dashv
Acoustic absorptions index	Sound absorption	NPD	\dashv
Direct airborne sound insulation index	Air flow resistivity	AFr7	
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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R4308KPCPR DP12



Essential Characteristics	R4308KPC	PR	Harmonised technical standard
	Performance	DP12	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30-200	
	Thickness tolerance	T4	
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	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	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}	

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R4308KPCPR DP12 GVB



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Essential Characteristics	R4308KPC	.PK	Harmonised technical standard
	Performance	DP12 GVB	
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30-200	
	Thickness tolerance	T4	
Reaction to Fire	Reaction to fire	A2-s1,d0	
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	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	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 detern		

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R4308KPCPR DP12 GVN



Essential Characteristics	R4308KPC	CPR	Harmonised technica standard
	Performance	DP12 GVN	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30-200	
	Thickness tolerance	T4	
Reaction to Fire	Reaction to fire	A2-s1,d0	
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}	
near, weathering, ageing / uegrauation	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	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	nined	

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R4308KPCPR Expert CFB 036



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Essential Characteristics	R4308KP	PCPR	Harmonised technical standard
	Performance	Expert CFB 036	3333010
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	40-245	
	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(70,90) {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	MU1	
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	rmined	
	,		

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R4308KPCPR FKD S



Essential Characteristics	R4308KPCPR		Harmonised technical
	Performance	FKD S	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	40-245	_
	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}	
ricat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	DS(70,90) {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	MU1	
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 dete	rmined	

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R4308KPCPR FKD S C1



Essential Characteristics	R4308KP	CPR	Harmonised technical standard
	Performance	FKD S C1	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	40-245	
	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}	
neut, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	DS(70,90) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Ourability 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	MU1	
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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R4308KPCPR FKD S C2



Essential Characteristics	R4308KP0	CPR	Harmonised technical standard
	Performance	FKD S C2	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	40-245	
	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}	
neut, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	DS(70,90) {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)30	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Ourability 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	MU1	
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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R4308KPCPR PTE



Essential Characteristics	R4308	KPCPR	Harmonised technical standard
	Performance	PTE	Staridard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 25 30 35 45 55-70	
	Thickness tolerance	T6 T6 T6 T6 T6	
Reaction to Fire	Reaction to fire	A1 A1 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	NPD	
Compressive Strength	Strength	INFU	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Ourability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS 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	WI (P) NPD	
Impact noise transmissions index (for	Dynamic stiffness	SD30 SD20 SD15 SD 15 SD10 SD10	
floors)	Thickness	NPD	
	Compressibility	CP3 CP3 CP3 CP3 CP3 CP3	
	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 de	 termined	

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R4308KPCPR PTP-035



Essential Characteristics	R4308KP0	CPR	Harmonised technical standard
	Performance	PTP-035	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	60-180	
	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}	
,	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	SD25	
floors)	Thickness	NPD	
	Compressibility	CP2	
	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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R4308KPCPR PTS



Essential Characteristics	R4308KI	PCPR	Harmonised technica standard
	Performance	PTS	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 25-30 40-70 80	
	Thickness tolerance	T7 T7 T7	
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	NPD	
	Point Load	NPD	_
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Ourability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	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	SD35 SD25 SD20 SD15	
110013)	Thickness	NPD	
	Compressibility	CP2 CP2 CP2 CP2	
	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 dete	rmined	

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R4308KPCPR SmartRoof All-Fix Thermal



Essential Characteristics	R4308KP	PCPR	Harmonised technical
2555.11.431 51141 40161.151165	Performance	SmartRoof All-Fix Thermal	standard
		Sinarthool All-Lix Thermal	
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	
	Thickness range (mm)	40 - 160	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A2-s1,d0	
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	
weathering, ageing / degradation			
Durability of thormal registance against	Thormal Decistores	NDD(F)	
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)50	
	Point Load	PL(5)800	
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	NPD	
water vapour permeasurey	diffusion resistance factor	w.c	
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}	
	NDD No performance determined	rminod	
	NPD - No performance deter	mineu	

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R4308KPCPR SmartRoof Pro



Essential Characteristics	R4308KP0	Harmonised technica standard				
	Performance	SmartRoof Pro	Standard			
	{f}					
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	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}				
near, wearnering, ageing / degradation	Thermal conductivity	NPD				
	Durability characteristics	NPD {c}				
Compressive Strength	Compressive Stress / Compressive Strength					
	Point Load	PL(5)450				
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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R4308KPCPR SmartRoof Thermal



Essential Characteristics	R4308KP	PCPR	Harmonised technical standard
	Performance	SmartRoof Thermal	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	30-200	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	\dashv	
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}	
3, 10, 10, 10, 10, 11, 10, 11, 11, 11, 11	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)50	
	Point Load	PL(5)500	
Tensile / Flexural strength	Tensile strength perpendicular faces	TR10 {d}	
Ourability 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	MU1	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
110015)	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	rmined	

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R4308KPCPR SmartRoof Ultra



Essential Characteristics	R4308KP0	Harmonised technica standard				
	Performance	SmartRoof Ultra	Standard			
	{f}					
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +			
	Thermal Resistance	See performance chart	A1:2015			
	Thickness range (mm)	70-180				
	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					
neut, weathering, ageing / degradation	Thermal conductivity	NPD				
	Durability characteristics	NPD {c}				
Compressive Strength	Compressive Stress / Compressive Strength					
	Point Load	PL(5)550				
Tensile / Flexural strength	Tensile strength perpendicular faces	TR15 {d}				
Ourability 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 determ	mined				

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R4308KPCPR TPE



Essential Characteristics	R4308K	PCPR	Harmonised technical			
			standard			
	Performance	TPE				
	{f}					
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.036	EN 13162:2012 +			
	Thermal Resistance	See performance chart	A1:2015			
	Thickness range (mm)	15 20 25-30 35-50 60-80				
	Thickness tolerance	T7 T7 T7 T7	-			
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 heat, weathering, ageing / degradation	Thermal Resistance	-				
neat, weathering, ageing / degradation	Thermal conductivity	NPD				
	Durability characteristics	NPD {c}	1			
Compressive Strength	Compressive Stress / Compressive Strength	NPD	-			
	Point Load	NPD				
Tensile / Flexural strength	Tensile strength perpendicular faces	-				
Ourability of compressive Strength against ageing / degradation	Compressive creep	NPD	_			
Water Permeability	Short term water absorption	ws ws ws 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	SD40 SD35 SD25 SD20 SD15	-			
110013/	Thickness	NPD				
	Compressibility	CP2 CP2 CP2 CP2 CP2	1			
	Air flow resistivity	NPD	1			
Acoustic absorptions index	Sound absorption	NPD	1			
Direct airborne sound insulation index	Air flow resistivity	AFr7 AFr7 AFr7 AFr7	1			
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	-			
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	1			
	NPD - No performance dete	ermined				

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R4308KPCPR TPS



Essential Characteristics	R4308KP0	CPR	Harmonised technical standard
	Performance	TPS	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.036	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	20 23-30 35-45 50-70	
	Thickness tolerance	T6 T6 T6	
Reaction to Fire	Reaction to fire	A1 A1 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	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	ws ws 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	SD30 SD25 SD20 SD15	_
110015)	Thickness	NPD	
	Compressibility	CP3 CP3 CP3 CP3	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr7 AFr7 AFr7 AFr7	
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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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 Res	sistance T	able												
[mm]	15	20	25	30	35	40	45	50	55	60	65	70	75	80
[m²K/W]	0.40	0.55	0.65	0.80	0.95	1.10	1.25	1.35	1.50	1.65	1.80	1.90	2.05	2.20
[mm]	85	90	95	100	105	110	115	120	125	130	135	140	145	150
[m²K/W]	2.35	2.50	2.60	2.75	2.90	3.05	3.15	3.30	3.45	3.60	3.75	3.85	4.00	4.15
[mm]	155	160	165	170	175	180	185	190	195	200	205	210	215	220
[m²K/W]	4.30	4.40	4.55	4.70	4.85	5.00	5.10	5.25	5.40	5.55	5.65	5.80	5.95	6.10
[mm] [m²K/W]	225 6.25	230 6.35	235 6.50	240 6.65	245 6.80									

Signed for an on behalf of the manufacturer by:

Marián Tkáč - Plant manager (Name and function)

Nova Bana - 12/5/2023 (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.

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[{]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