Declaration of Performance



R4208MPCPR

1. Unique identification code of the product-type:

RS CAV SLAB HD BLX, TERMOSOUDALLE REI, Rocksilk® RS60 -150, SMARTCEILING REI, Rocksilk® Soffit Linerboard Extra Donor, Rocksilk® Soffit Linerboard Standard HD, Rocksilk® Soffit Linerboard Standard

2. Intended use or uses:

Thermal Insulation for Buildings (ThIB)

3. Manufacturer:

Knauf Insulation Ltd.

Chemistry Lane, CH5 2DA Queensferry, Flintshire

UK

www.knaufinsulation.com - dop@knaufinsulation.com

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

Knauf Insulation AB Gardatorget 1 412 50 Goteborg Sweden

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 --- --- ---

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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R4208MPCPR Rocksilk® RS60 -150



Essential Characteristics	R4208MP	Harmonised technical standard	
	Performance	Rocksilk® RS60 -150	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.034	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - <50 50 - 205	
	Thickness tolerance	T2 T4	
Reaction to Fire	Reaction to fire	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	NFD	
	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	NPD WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1 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 deterr	mined	

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R4208MPCPR Rocksilk® Soffit Linerboard Extra Donor



Essential Characteristics	R4208I	Harmonised technical						
	Performance	Rocksilk® Soffit Linerboard Extra Donor	standard					
	{f}							
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.034	EN 13162:2012 +					
	Thermal Resistance	See performance chart	A1:2015					
	Thickness range (mm)	165						
	Thickness tolerance	T5						
Reaction to Fire	Reaction to Fire Reaction to fire A1							
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}						
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}						
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}						
Ourability 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	MU1						
Impact noise transmissions index (for	Dynamic stiffness	NPD						
floors)	Thickness	NPD	1					
	Compressibility	NPD						
	Air flow resistivity	NPD	1					
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}						

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R4208MPCPR Rocksilk® Soffit Linerboard Standard



Essential Characteristics	R4208N	Harmonised technical standard						
	Performance	Rocksilk® Soffit Linerboard Standard	Standard					
	{f}							
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.034	EN 13162:2012 + A1:2015					
	Thermal Resistance	See performance chart	A1:2015					
	Thickness range (mm)	50-220						
	Thickness tolerance	T5						
Reaction to Fire	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	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	-					
	Long term water absorption	NPD						
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1	-					
Impact noise transmissions index (for	Dynamic stiffness	NPD	-					
floors)	Thickness	NPD	1					
	Compressibility	NPD	1					
	Air flow resistivity	NPD	1					
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	ermined						

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R4208MPCPR Rocksilk® Soffit Linerboard Standard HD



Thermal Resistance	Performance {f} Thermal conductivity (W/mK) Thermal Resistance Thickness range (mm)	Rocksilk® Soffit Linerboard Standard HD λ λ 0.034	standard
Thermal Resistance	Thermal conductivity (W/mK) Thermal Resistance	λο 0.034	
Thermal Resistance	Thermal conductivity (W/mK) Thermal Resistance	λο 0.034	
	Thermal Resistance		EN 13162:2012 +
		See performance chart	A1:2015
	Thickness range (mm)	50-220	
	Thickness tolerance	T5	
Described to Fire		-	
Reaction to Fire	Reaction to fire	A1	
urability 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}	
urability 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	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 de	termined	

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R4208MPCPR RS CAV SLAB HD BLX



Essential Characteristics	R4208MP0	Harmonised technical standard	
	Performance	RS CAV SLAB HD BLX	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λo 0.034	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	50 - 170 >170 - 200	
	Thickness tolerance	T4 T4	
Reaction to Fire	Reaction to fire		
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	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1 MU1	
Impact noise transmissions index (for	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr5 NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	AFr5 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	nined	

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R4208MPCPR SMARTCEILING REI



Essential Characteristics	R4208MP	Harmonised technical standard		
	Performance	SMARTCEILING REI	Standard	
	{f}			
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.034	EN 13162:2012 +	
	Thermal Resistance	See performance chart	A1:2015	
	Thickness range (mm)	60 - 160		
	Thickness tolerance	T4		
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	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	NPD		
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1		
Impact noise transmissions index (for	Dynamic stiffness	NPD		
HOUIS)	Thickness	NPD		
	Thermal Resistance Thermal Conductivity (W/mK) Thermal Resistance See performance chart Thickness range (mm) Thermal Resistance T4 A1 Durability Characteristics NPD (a) Thermal Resistance NPD (b) Thermal Resistance NPD (c) Thermal Resistance NPD (c) Thermal Resistance NPD (c) Thermal Conductivity NPD Durability Characteristics NPD (c) Thermal Conductivity NPD Thermal Conductivity NPD Compressive Strength Point Load NPD Point Load NPD Point Load NPD Tensile strength perpendicular faces NPD (d) To compressive Strength against ageing / degradation Tensile strength perpendicular faces NPD To compressive Strength against ageing / degradation Water Permeability Short term water absorption Long term water absorption NPD Ater vapour permeability Water vapour transmission, water vapour diffusion resistance factor Water vapour permeability Air flow resistivity NPD Air flow resistivity NPD coustic absorptions index Sound absorption NPD (e) To dangerous substances to the indoor environment Release of dangerous substances NPD (e)			
	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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R4208MPCPR TERMOSOUDALLE REI



Essential Characteristics	R4208MI	Harmonised technical	
	Performance	TERMOSOUDALLE REI	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.034	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	60 - 160	\dashv
	Thickness tolerance	T4	_
Reaction to Fire	Reaction to fire	A1	\dashv
Durability of reaction to fire against heat,	Durability Characteristics	NPD {a}	\dashv
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	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	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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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]	25	30	35	40	45	50	55	60	65	70	75	80	85	90
[m²K/W]	0.70	0.85	1.00	1.15	1.30	1.45	1.60	1.75	1.90	2.05	2.20	2.35	2.50	2.60
[mm]	95	100	105	110	115	120	125	130	135	140	145	150	155	160
[m²K/W]	2.75	2.90	3.05	3.20	3.35	3.50	3.65	3.80	3.95	4.10	4.25	4.40	4.55	4.70
[mm] [m²K/W]	165 4.85	170 5.00	175 5.10	180 5.25	185 5.40	190 5.55	195 5.70	200 5.85	205 6.00	210 6.15	215 6.30	220 6.45		

M fuf D

Signed for an on behalf of the manufacturer by:

Mark Joliffe - Plant manager (Name and function)

Queensferry - 17-Jun-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