## **Declaration of Performance**



## R4208LPCPR

### 1. Unique identification code of the product-type:

RS45 BLX, RS CAVITY SLAB BLX, RS VENTILATED BTF BLX, RS ACOUSTIC FLOOR SLAB BLX, THERMAL FLOOR SLAB, ECOBATT ROOFMAX EXTRA (TF), EXPERT CAV 035 WR BLX, DP7, Rocksilk® RS45, ROOFMAX EXTRA, DP5, RS Acoustiwall 60 BLX, ECOSE FLEXIBLE SLAB, Rock4All, Fire-tek Beam and Column Slab, NB Partition, NB Timber, SK TROK 3 SLAB

### 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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## R4208LPCPR DP5



Essential Characteristics	R4208LP0	CPR	Harmonised technica standard
	Performance	DP5	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	50 - 100	
	Thickness tolerance	Т3	
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}	
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	
	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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## R4208LPCPR DP7



Essential Characteristics	R4208LF	PCPR	Harmonised technical
	Performance	DP7	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - <50   50 - 200	
	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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
meat, meathering, 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	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1 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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## R4208LPCPR ECOBATT ROOFMAX EXTRA (TF)



Essential Characteristics	R4208L	Harmonised technica standard	
	Performance	ECOBATT ROOFMAX EXTRA (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)	17 - 20	
	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	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	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 dete	ermined	

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## R4208LPCPR ECOSE FLEXIBLE SLAB



Essential Characteristics	R4208LP0	CPR	Harmonised technical standard
	Performance	ECOSE FLEXIBLE SLAB	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	140	
	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 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	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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## R4208LPCPR EXPERT CAV 035 WR BLX



Essential Characteristics	R4208LP	CPR	Harmonised technical
Essential Characteristics			standard
	Performance	EXPERT CAV 035 WR BLX	
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λ <sub>D</sub> 0.035	EN 13162:2012 + A1:2015
	Thermal Resistance	See performance chart	A1.2013
	Thickness range (mm)	75 - 120	
	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 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	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	$\dashv$
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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## R4208LPCPR Fire-teK Beam and Column Slab



Essential Characteristics	R4208L	Harmonised technical standard	
	Performance	Fire-teK Beam and Column Slab	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 - 65	
	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	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	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 dete	ermined	

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## R4208LPCPR NB Partition



Essential Characteristics	R4208LPC	CPR	Harmonised technical standard
	Performance	NB Partition	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	40 - 200	
	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}	
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	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	nined	

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## R4208LPCPR NB Timber



Essential Characteristics	R4208LPC	CPR	Harmonised technical standard
	Performance	NB Timber	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	40 - 200	
	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 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	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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## R4208LPCPR Rock4All



Essential Characteristics	R4208LP	PCPR	Harmonised technica standard
	Performance	Rock4All	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - <40   40 - 50   50 - 240	
	Thickness tolerance	T2 T2 T4	
Reaction to Fire	Reaction to fire	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	NPD	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1 MU1 MU1	
Impact noise transmissions index (for	Dynamic stiffness	NPD	_
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD AFr5 AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	NPD 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	rmined	

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## R4208LPCPR Rocksilk® RS45



Essential Characteristics	R4208LPC	CPR	Harmonised technica standard
	Performance	Rocksilk® RS45	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - <50   50 - 205	
	Thickness tolerance	T2 T5	
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 Strength	NPD	
		NDD	_
T 11 /51 1 1 1	Point Load	NPD ( I)	
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 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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## R4208LPCPR ROOFMAX EXTRA



Essential Characteristics	R4208LP0	CPR	Harmonised technical standard
	Performance	ROOFMAX EXTRA	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	17 - 20	
	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, weathening, 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	
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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## R4208LPCPR RS ACOUSTIC FLOOR SLAB BLX



Essential Characteristics	R4208LF	Harmonised technical standard	
	Performance	RS ACOUSTIC FLOOR SLAB BLX	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 - 50	
	Thickness tolerance	T2	
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}	_
heat, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	CS(10)10	
	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	7
	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 dete	rmined	

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## R4208LPCPR RS Acoustiwall 60 BLX



Essential Characteristics	R4208LP0	Harmonised technical standard					
	Performance	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 - 50					
	Thickness tolerance	T2					
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	Durability characteristics NPD {c}					
Compressive Strength	Compressive Stress / Compressive Strength						
	Point Load						
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 deterr	mined					

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## R4208LPCPR RS CAVITY SLAB BLX



Essential Characteristics	R4208LPC	Harmonised technical standard	
	Performance	RS CAVITY SLAB BLX	Standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λο 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - <50   50 - 200	
	Thickness tolerance	T2 T4	
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	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		
Durability 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	NPD AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	NPD 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 determ		

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## R4208LPCPR RS VENTILATED BTF BLX



Essential Characteristics	R4208L	Harmonised technical	
	Performance	RS VENTILATED BTF BLX	standard
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25- <50   50 - 150 >150-200	
	Thickness tolerance	T2 T4 T4	_
Reaction to Fire	Reaction to fire	-	
Durability of reaction to fire against heat,	Durability Characteristics	-	
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 WS WS	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1 MU1 MU1	
Impact noise transmissions index (for floors)	Dynamic stiffness	NPD	
110013)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD AFr5 NPD	7
Acoustic absorptions index	Sound absorption		
Direct airborne sound insulation index	Air flow resistivity	NPD 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 dete	rmined	

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## R4208LPCPR RS45 BLX



Essential Characteristics	R4208LP	Harmonised technical standard	
	Performance	Standard	
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - <40   40 - 50   50 - 200	
	Thickness tolerance	T2 T2 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		
Compressive Strength	Compressive Stress / Compressive Strength		
	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	_
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	MU1 MU1 MU1	
Impact noise transmissions index (for	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD AFr5 AFr5	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	NPD 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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## R4208LPCPR SK TROK 3 SLAB



Essential Characteristics	R4208LPC	Harmonised technical standard		
	Performance	SK TROK 3 SLAB	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 - 250		
	Thickness tolerance	T5		
Reaction to Fire	Reaction to fire	A1		
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}		
Durability of thermal resistance against	Thermal Resistance	NPD{b}		
heat, weathering, ageing / degradation	Thermal conductivity	NPD		
	Durability characteristics	NPD {c}		
Compressive Strength	Compressive Stress / Compressive Strength			
	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	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 determ	nined		

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## R4208LPCPR THERMAL FLOOR SLAB



- 1112			
Essential Characteristics	R4208LP0	Harmonised technical standard	
	Performance	THERMAL FLOOR SLAB	
	{f}		
Thermal Resistance	Thermal conductivity (W/mK)	λD 0.035	EN 13162:2012 +
	Thermal Resistance	See performance chart	A1:2015
	Thickness range (mm)	25 - 100	
	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 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	CC5	
Water Permeability	Short term water absorption	NPD	
	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	$\dashv$
	Compressibility	NPD	$\dashv$
	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}	
	NPD - No performance deterr		

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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]	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]	160	165	170	175	180	185	190	195	200	205	210	215	220	225
[m²K/W]	4.55	4.70	4.85	5.00	5.10	5.25	5.40	5.55	5.70	5.85	6.00	6.10	6.25	6.40
[mm] [m²K/W]	230 6.55	235 6.70	240 6.85	245 7.00	250 7.10									

Signed for an on behalf of the manufacturer by:

Mark Joliffe - Plant manager (Name and function)

Queensferry - 8/18/2023 (Place and date of issue)

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<sup>{</sup>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.

<sup>{</sup>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

<sup>{</sup>c} For dimensional stability thickness only

<sup>(</sup>d) This characteristic also covers handling and installation

<sup>{</sup>e} European test methods are under development

 $<sup>\{</sup>f\}$  Also valid and applicable for multilayers