## **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, BUILDING SLAB RS45 INC/EXC TF, ROOFMAX EXTRA, DP5, RS Acoustiwall 60 BLX, Soffit Liner Board Extra, ECOSE FLEXIBLE SLAB, Rock4All

### 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. Authorised representative:

Not applicable

### 5. System or systems of assessment and verification of constancy of performance:

AVCP System 1 for Reaction to Fire AVCP System 3 for the other characteristics

#### 6a. Harmonized Standard:

EN 13162:2012 + A1:2015

### Notified body or bodies:

AVCP System 1: (Notified certification body) 2797 - BSI Group The Netherlands B.V. ---

AVCP System 3: (Notified testing laboratory) 0086 - BSI --- -- --

### 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 BUILDING SLAB RS45 INC/EXC TF



Essential Characteristics	R4208LI	R4208LPCPR	
	Performance	BUILDING SLAB RS45 INC/EXC TF	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	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, 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	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 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	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 dete	rmined	

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## R4208LPCPR DP5



Essential Characteristics	R4208LP0	CPR	Harmonised technical standard
	Performance	DP5	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	50 - 100	
	Thickness tolerance	T3	
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}	
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	
	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 deteri	mined	

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## R4208LPCPR DP7



Essential Characteristics	R4208LPCP	R	Harmonised technical standard
	Performance	DP7	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	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}	
,	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	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 determi	ined	

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## R4208LPCPR ECOBATT ROOFMAX EXTRA (TF)



Essential Characteristics	R4208L	PCPR	Harmonised technical
	Performance	ECOBATT ROOFMAX EXTRA (TF)	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	17 - 20	
	Thickness tolerance	T5	
Reaction to Fire	Reaction to fire	A1	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}	
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
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	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	R4208LPC	CPR	Harmonised technical standard
	Performance	ECOSE FLEXIBLE SLAB	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	140	
	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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
3, 10 - 0, 10 - 0, 10	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	
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	nined	

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## R4208LPCPR EXPERT CAV 035 WR BLX



Essential Characteristics	R4208LP	CPR	Harmonised technical standard
	Performance	EXPERT CAV 035 WR BLX	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	75 - 120	
	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 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 deter	mined	

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## R4208LPCPR Rock4All



Essential Characteristics	R4208LP	CPR	Harmonised technical standard
	Performance	Rock4All	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	25 - <40   40 - 50   50 - 200	_
	Thickness tolerance	T2 T2 T4	_
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	$\dashv$
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	$\dashv$
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	1
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 ROOFMAX EXTRA



Essential Characteristics	R4208L	PCPR	Harmonised technical
	Performance	ROOFMAX EXTRA	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	17 - 20	
	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	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	7
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 RS ACOUSTIC FLOOR SLAB BLX



Essential Characteristics	R4208Lf	PCPR	Harmonised technical
	Performance	RS ACOUSTIC FLOOR SLAB BLX	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	20 - 50	
	Thickness tolerance	T2	
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	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	
	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	R4208LPC	PR	Harmonised technical standard
	Performance	RS Acoustiwall 60 BLX	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30 - 50	
	Thickness tolerance	T2	
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	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	$\dashv$
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		

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## R4208LPCPR RS CAVITY SLAB BLX



Essential Characteristics	R4208LPC	PR	Harmonised technical standard
	Performance	RS CAVITY SLAB BLX	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	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	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	nined	

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## R4208LPCPR RS VENTILATED BTF BLX



Essential Characteristics	R4208LP	PCPR	Harmonised technical standard
	Performance	RS VENTILATED BTF BLX	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	25- <50   50 - 150  >150-200	
	Thickness tolerance	T2 T4 T4	
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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
meaty meathering, ageing y 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	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 NPD	$\dashv$
Acoustic absorptions index	Sound absorption	NPD	$\dashv$
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 deter	rmined	

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## R4208LPCPR RS45 BLX



Essential Characteristics	R4208LP	Harmonised technical standard				
	Performance	RS45 BLX	Standard			
Thermal Resistance	Thermal conductivity (W/mK)	EN 13162:2012 +				
	Thermal Resistance	See product label	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, weathering, ageing / degradation	Durability Characteristics					
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance					
,	Thermal conductivity	NPD				
	Durability characteristics	NPD {c}				
Compressive Strength	Compressive Stress / Compressive Strength	NPD				
	Point Load					
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					
	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** Soffit Liner Board Extra



Essential Characteristics	R4208LP(	Harmonised technical standard				
	Performance	Standard				
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +			
	Thermal Resistance	See product label	A1:2015			
	Thickness range (mm)	165				
	Thickness tolerance	T5				
Reaction to Fire	Reaction to fire	A1				
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristics	NPD {a}				
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal Resistance					
3, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	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	$\neg$			
	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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## R4208LPCPR THERMAL FLOOR SLAB



Essential Characteristics	R4208LPC	Harmonised technical	
Essential Characteristics			standard
	Performance	THERMAL FLOOR SLAB	
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	25 - 100	
	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	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	
	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 detern	nined	

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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] [m²K/W]	160 4,55	165 4,70												

M fuffel

Signed for an on behalf of the manufacturer by:

Mark Joliffe - Plant manager (Name and function)

Queensferry - 30-09-19 (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