# **Declaration of Performance**



## G4248LPCPR

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

Earthwool 035, Earthwool P 035, Earthwool KD 035, EarthwoolPlus 2xKD 035, Naturoll 035, Naturoll KD 035, Naturboard 035, UNIFIT 035, Loftroll 035, Loftroll KD 035, Knauf Insulation 035, Knauf Insulation KD 035, Classic 035, Classic KD 035, TP 425B, TPM 135, Earthwool 035 Alu, Earthwool P Alu 035, Classic Alu 035, Loftroll Alu 035, Knauf Insulation Alu 035, Naturoll Alu 035, KI KLIMAROLL 035

### 2. Intended use or uses:

Thermal Insulation for Buildings (ThIB)

#### 3. Manufacturer:

Knauf Insulation
75. Yıl Mah. 1. Cadde 1/G Kucuk Organize Sanayi
26250 Eskisehir, Turkey
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: TECHNICKY A ZKUSEBNI USTAV STAVEBNI PRAHA s.p. (Notified certification body No. 1020)

AVCP System 3: TEBAR Test Belgelendirme Arastirma ve Gelistirme Tic. A.S. (Notified certification body No. 2164)

#### 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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# G4248LPCPR Classic 035



Essential Characteristics	G4248LP0	CPR	Harmonised technical standard
	Performance	Classic 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
3, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	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 deterr	mined	

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# G4248LPCPR Classic Alu 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	Classic Alu 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T2	
Reaction to Fire	Reaction to fire	C-s1,d0	
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, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	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 detern	nined	

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# G4248LPCPR Classic KD 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	Classic KD 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
mermar Resistance			A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30-260	
	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	
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	$\dashv$
Acoustic absorptions index	Sound absorption	NPD	_
Direct airborne sound insulation index	Air flow resistivity	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
	NPD - No performance deterr		

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# G4248LPCPR Earthwool 035



Essential Characteristics	G4248LPCF	PR	Harmonised technical standard
	Performance	Earthwool 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30-260	
	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	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
	NPD - No performance determ	ined	

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# G4248LPCPR Earthwool 035 Alu



Essential Characteristics	G4248LP(	CPR	Harmonised technical standard
	Performance	Earthwool 035 Alu	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
Reaction to Fire	Reaction to fire	C-s1,d0	
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, 5 5, 6	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for	Dynamic stiffness	NPD	
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
	NPD - No performance deterr	mined	

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# G4248LPCPR Earthwool KD 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	Earthwool KD 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
3, 10, 10, 10, 10, 10, 10, 10, 10, 10, 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	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	mined	

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# G4248LPCPR Earthwool P 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	Earthwool P 035	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
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, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	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 detern	nined	

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# G4248LPCPR Earthwool P Alu 035



Essential Characteristics	G4248LPCF	PR	Harmonised technical standard
	Performance	Earthwool P Alu 035	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	$\neg$
	Thickness tolerance	T1	
Reaction to Fire	Reaction to fire	C-s1,d0	
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	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 determi	ined	

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# G4248LPCPR EarthwoolPlus 2xKD 035



Essential Characteristics	G4248LP(	CPR	Harmonised technical standard
	Performance	EarthwoolPlus 2xKD 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λD 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
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}	
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}	
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	$\neg$
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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### G4248LPCPR KI KLIMAROLL 035



Essential Characteristics	G4248LP0	CPR	Harmonised technical standard
	Performance	KI KLIMAROLL 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	25-260	
	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 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}	
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 deterr	mined	

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# G4248LPCPR Knauf Insulation 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	Knauf Insulation 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	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 heat, weathering, ageing / degradation	Thermal Resistance	NPD{b}	
3, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	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 detern	nined	

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# G4248LPCPR Knauf Insulation Alu 035



Essential Characteristics	G4248LP0	CPR	Harmonised technical standard
	Performance	Knauf Insulation Alu 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T2	
Reaction to Fire	Reaction to fire	C-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}	
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}	
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	mined	

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# G4248LPCPR Knauf Insulation KD 035



Essential Characteristics	G4248LP0	CPR	Harmonised technical standard				
	Performance	Knauf Insulation KD 035	Standard				
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +				
	Thermal Resistance	See product label	A1:2015				
	Thickness range (mm)	30-260					
	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}					
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	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	$\neg$				
	Compressibility	NPD	$\neg$				
	Air flow resistivity	NPD	$\dashv$				
Acoustic absorptions index	ater vapour permeability  Water vapour transmission, water vapour diffusion resistance factor  NPD  Dynamic stiffness NPD  Thickness NPD  Compressibility NPD  Air flow resistivity 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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# G4248LPCPR Loftroll 035



Essential Characteristics	G4248LPCP	R	Harmonised technical standard
	Performance	Loftroll 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
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	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 determi	ned	

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# G4248LPCPR Loftroll Alu 035



Essential Characteristics	G4248L	PCPR	Harmonised technical
	Performance	Loftroll Alu 035	standard
The cond Decision	Thousand at 11 (M/W)	3 0.025	FN 42452 2042 :
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
Reaction to Fire	Reaction to fire	C-s1,d0	
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}	
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	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	
1100rs)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	_
Acoustic absorptions index	Thickness tolerance T1  Ion to Fire Reaction to fire C-s1,d0 on to fire against heat, geing / degradation  Thermal Resistance Thermal Resistance NPD(b)  Thermal conductivity NPD  Durability characteristics NPD (c)  Thermal conductivity NPD  Durability characteristics NPD (c)  Silve Strength Compressive Stress / Compressive Strength  Point Load NPD  exural strength Tensile strength perpendicular faces NPD (d)  Permeability Short term water absorption NPD  Long term water absorption NPD  Durapermeability Water vapour diffusion resistance factor  Thickness NPD  Compressibility NPD  Air flow resistivity NPD  Air flow resistivity NPD  out substances to the environment  Release of dangerous substances NPD (e)  Owing combustion NPD (e)		$\dashv$
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 dete	rmined	

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# G4248LPCPR Loftroll KD 035



Essential Characteristics	G4248L	PCPR	Harmonised technical
	Performance	Loftroll KD 035	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
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}	
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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# G4248LPCPR Naturboard 035



Essential Characteristics	G4248LF	PCPR	Harmonised technical
	Performance	Naturboard 035	standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 + A1:2015
	Thermal Resistance	See product label	A1.2015
	Thickness range (mm)	30-260	
	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}	
near, weathering, ageing / degradation	Thermal conductivity	NPD	
	Durability characteristics	NPD {c}	
Compressive Strength	Compressive Stress / Compressive Strength	NPD	
	Point Load	NPD	
Tensile / Flexural strength	Tensile strength perpendicular faces	NPD {d}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	WS	
	Long term water absorption	WL(P)	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for	Dynamic stiffness	NPD	_
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	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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### G4248LPCPR Naturoll 035



Essential Characteristics	G4248LP0	CPR	Harmonised technical standard
	Performance	Naturoll 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
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}	
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}	
Durability of compressive Strength against ageing / degradation	Compressive creep	NPD	
Water Permeability	Short term water absorption	NPD	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour transmission, water vapour diffusion resistance factor	NPD	
Impact noise transmissions index (for	Dynamic stiffness	NPD	_
floors)	Thickness	NPD	
	Compressibility	NPD	
	Air flow resistivity	NPD	
Acoustic absorptions index	Sound absorption	NPD	
Direct airborne sound insulation index	Air flow resistivity	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD {e}	
Continuous glowing combustion	Continuous glowing combustion	NPD {e}	
	NPD - No performance deterr	mined	

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# G4248LPCPR Naturoll Alu 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	Naturoll Alu 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T1	
Reaction to Fire	Reaction to fire	C-s1,d0	
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, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	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 detern	nined	

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# G4248LPCPR Naturoll KD 035



Essential Characteristics	G4248LP0	CPR	Harmonised technical standard	
	Performance	Naturoll KD 035	Standard	
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 + A1:2015	
	ance Thermal conductivity (W/mK)			
	Thickness range (mm)	30-260		
	Thickness tolerance	T1		
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		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		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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### G4248LPCPR TP 425B



Essential Characteristics	G4248LPCP	R	Harmonised technical standard	
	Performance	TP 425B	Standard	
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +	
	Thermal Resistance	A1:2015		
	Thickness range (mm)	30-260		
	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	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		
1100rs)	Thickness	NPD		
	Compressibility	NPD		
	Air flow resistivity	NPD		
Acoustic absorptions index	freaction to fire against heat, ring, ageing / degradation  of thermal resistance against thering, ageing / degradation  of thermal resistance against thering, ageing / degradation  Thermal Resistance  Thermal conductivity  NPD  Durability characteristics  NPD {c}  Thermal conductivity  NPD  Durability characteristics  NPD {c}  Durability characteristics  NPD {c}  NPD {c}  NPD {c}  NPD  Strength  Point Load  NPD  Strength  Point Load  NPD  Compressive Strength perpendicular faces  NPD {d}  Compressive Strength against geing / degradation  Compressive creep  NPD  Long term water absorption  Long term water absorption  WL(P)  er vapour permeability  Water vapour transmission, water vapour diffusion resistance factor  NPD  Thickness  NPD  Compressibility  NPD  Air flow resistivity  NPD  dangerous substances to the indoor environment  Release of dangerous substances  NPD {e}			
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	ned		

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### **G4248LPCPR TPM 135**



Essential Characteristics	G4248LP	CPR	Harmonised technical standard
	Performance	TPM 135	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	Thickness tolerance	T4	
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}	
	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	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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### G4248LPCPR UNIFIT 035



Essential Characteristics	G4248LPC	CPR	Harmonised technical standard
	Performance	UNIFIT 035	Standard
Thermal Resistance	Thermal conductivity (W/mK)	λο 0,035	EN 13162:2012 +
	Thermal Resistance	See product label	A1:2015
	Thickness range (mm)	30-260	
	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 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}	
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 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]	25	30	35	40	45	50	55	60	65	70	75	80	85	90
[m²K/W]	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	2,55
[mm]	95	100	105	110	115	120	125	130	135	140	145	150	155	160
[m²K/W]	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	4,55
[mm]	165	170	175	180	185	190	195	200	205	210	215	220	225	230
[m²K/W]	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	6,55
[mm] [m²K/W]	235 6,70	240 6.85	245 7,00	250 7.10	255 7.25	260 7.40								

Erkan Uçok - Plant manager (Name and function)

Eskisehir - 23-04-19

(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