



DECLARATION OF PERFORMANCE

No. MW-W-PLUS/2022/2

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1. **Unique identification code of the product-type:** MW PLUS sandwich panel (MW-W-PLUS d_N t_{Ne}/t_{Ni})
2. **Intended use/es:** internal and external walls
3. **Manufacturer:** BALEX METAL sp. z o.o., ul. Wejherowska 12C, 84-239 Bolszewo
4. **System for assessment and verification of functional properties stability:** 3
5. **Harmonised standard:** PN-EN 14509:2013
6. **Notified body/ies:** ITB (no. 1488), CERTBUD (no. 2310)
7. **Declared performance/s:** Table 1, Table 2, Table 3, Table 4, Table 5, Table 6, Table 7, Table 8, Table 9

Profiles of the steel facings:

M – micro-profile; L – lined; R – grooving; G – plain; 1L – clearline; 2L – double clearline;

Other symbols:

NPD – No Performance Determined

N/A – not applicable

* – under certain conditions as described in the relevant classification report

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.

Signed in the name of the manufacturer by:

Chief Executive Officer

Marek Dzikiewicz

Bolszewo, 1.09.2022

BALEXMETAL Sp. z o.o.
84-239 Bolszewo, ul. Wejherowska 12C
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P-191112216 (17)



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Table 1: Declared performance ($t_{Ne}/t_{Ni} = 0,5/0,5$)

Essential characteristics			Performances							
Steel grade			S250GD							
Types of coatings	Metallic		Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120							
	Organic		SP, PVC(F), CESAR55							
Facing thickness	External t_{Ne} [mm]		0,5							
	Internal t_{Ni} [mm]		0,5							
Facing profile types	External		M, L, R, G, 1L, 2L							
	Internal		L, G							
Core material			Mineral wool							
Nominal core density [kg/m ³]			110							
Nominal thickness d_N [mm]			80	100	120	150	175	200		
Panel weight [kg/m ²]			18	20	22	25	28	31		
Mechanical performance	Wrinkling strength [MPa]	In span:	Bending strength f_{cc} [MPa]	M	146	142	139	134	123	112
				L	122	124	127	130	130	130
			External face at elevated temp.	M	146	142	139	134	123	112
				L	122	124	127	130	130	130
	Internal face	L	159	150	141	128	120	112		
		G	119	115	111	106	104	102		
	At a support:	External face	M	144	136	128	116	109	103	
			L	100	104	108	114	108	103	
		External face at elevated temp.	M	144	136	128	116	109	103	
			L	100	104	108	114	108	103	
		Internal face	L	131	128	124	120	114	108	
			G	116	110	103	94	97	101	
		Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/ m ² K]		0,48	0,38	0,32	0,26	0,23	0,20
			Heat conductivity coefficient λ_D [W/mK]		0,040					
	Reaction to fire; classification*			A2-s2,d0						
	Fire resistance; classification*			NPD	EI 30	EI 45	EI 60	EI 90	EI 120	
Water permeability; resistance classification			A							
Air permeability; coefficient n and C			NPD							
Water vapour permeability; coefficient μ [-]			∞ (Impermeable)							
Airborne sound insulation; rating R_w (C , C_{tr}) [dB]			32 (-3, -4)							
Sound absorption; rating α_w [-]			0,20							
Durability; criteria DUR 2			Pass							
Regulated substances			NPD							



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Table 2: Declared performance ($t_{Ne}/t_{Ni} = 0,5/0,6$)

Essential characteristics				Performances						
Steel grade				S250GD						
Types of coatings	Metallic			Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120						
	Organic			SP, PVC(F), CESAR55						
Facing thickness	External t_{Ne} [mm]			0,5						
	Internal t_{Ni} [mm]			0,6						
Facing profile types	External			M, L, R, G, 1L, 2L						
	Internal			L, G						
Core material				Mineral wool						
Nominal core density [kg/m ³]				110						
Nominal thickness d_N [mm]				80	100	120	150	175	200	
Panel weight [kg/m ²]				18	21	23	26	29	32	
Mechanical performance	Wrinkling strength [MPa]	In span:	External face	M	146	142	139	134	123	112
				L	122	124	127	130	130	130
				G, R, 1L, 2L	106	103	101	96	95	95
			External face at elevated temp.	M	146	142	139	134	123	112
				L	122	124	127	130	130	130
	G, R, 1L, 2L	106		103	101	96	95	95		
	Internal face	L	138	130	122	111	104	97		
		G	119	115	111	106	104	102		
	At a support:	External face	M	144	136	128	116	109	103	
			L	100	104	108	114	108	103	
			G, R, 1L, 2L	105	100	96	89	86	84	
		External face at elevated temp.	M	144	136	128	116	109	103	
			L	100	104	108	114	108	103	
			G, R, 1L, 2L	105	100	96	89	86	84	
Internal face		L	113	111	107	104	99	93		
	G	116	110	103	94	97	101			
Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/m ² K]			0,48	0,38	0,32	0,26	0,23	0,20	
	Heat conductivity coefficient λ_D [W/mK]			0,040						
Reaction to fire; classification*				A2-s2,d0						
Fire resistance; classification*				NPD	EI 30	EI 45	EI 60	EI 90	EI 120	
Water permeability; resistance classification				A						
Air permeability; coefficient n and C				NPD						
Water vapour permeability; coefficient μ [-]				∞ (Impermeable)						
Airborne sound insulation; rating R_w (C, C_{tr}) [dB]				32 (-3, -4)						
Sound absorption; rating α_w [-]				0,20						
Durability; criteria DUR 2				Pass						
Regulated substances				NPD						



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Table 3: Declared performance ($t_{Ne}/t_{Ni} = 0,5/0,7$)

Essential characteristics				Performances						
Steel grade				S250GD						
Types of coatings	Metallic			Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120						
	Organic			SP, PVC(F), CESAR55						
Facing thickness	External t_{Ne} [mm]			0,5						
	Internal t_{Ni} [mm]			0,7						
Facing profile types	External			M, L, R, G, 1L, 2L						
	Internal			L, G						
Core material				Mineral wool						
Nominal core density [kg/m ³]				110						
Nominal thickness d_N [mm]				80	100	120	150	175	200	
Panel weight [kg/m ²]				19	21	24	27	30	32	
Mechanical performance	Wrinkling strength [MPa]	In span:	External face	M	146	142	139	134	123	112
				L	122	124	127	130	130	130
				G, R, 1L, 2L	106	103	101	96	95	95
			External face at elevated temp.	M	146	142	139	134	123	112
				L	122	124	127	130	130	130
	G, R, 1L, 2L	106		103	101	96	95	95		
	Internal face	L	123	116	109	99	93	87		
		G	119	115	111	106	104	102		
	At a support:	External face	M	144	136	128	116	109	103	
			L	100	104	108	114	108	103	
			G, R, 1L, 2L	105	100	96	89	86	84	
		External face at elevated temp.	M	144	136	128	116	109	103	
			L	100	104	108	114	108	103	
			G, R, 1L, 2L	105	100	96	89	86	84	
		Internal face	L	101	99	96	93	88	83	
	G		116	110	103	94	97	101		
Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/ m ² K]			0,48	0,38	0,32	0,26	0,23	0,20	
	Heat conductivity coefficient λ_D [W/mK]			0,040						
Reaction to fire; classification*				A2-s2,d0						
Fire resistance; classification*				NPD	EI 30	EI 45	EI 60	EI 90	EI 120	
Water permeability; resistance classification				A						
Air permeability; coefficient n and C				NPD						
Water vapour permeability; coefficient μ [-]				∞ (Impermeable)						
Airborne sound insulation; rating R_w (C , C_{tr}) [dB]				32 (-3, -4)						
Sound absorption; rating α_w [-]				0,20						
Durability; criteria DUR 2				Pass						
Regulated substances				NPD						



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Table 4: Declared performance ($t_{Ne}/t_{Ni} = 0,6/0,5$)

Essential characteristics			Performances							
Steel grade			S250GD							
Types of coatings	Metallic		Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120							
	Organic		SP, PVC(F), CESAR55							
Facing thickness	External t_{Ne} [mm]		0,6							
	Internal t_{Ni} [mm]		0,5							
Facing profile types	External		M, L, R, G, 1L, 2L							
	Internal		L, G							
Core material			Mineral wool							
Nominal core density [kg/m ³]			110							
Nominal thickness d_N [mm]			80	100	120	150	175	200		
Panel weight [kg/m ²]			18	21	23	26	29	32		
Mechanical performance	Wrinkling strength [MPa]	In span:	External face	M	0,100	0,100	0,100	0,100	0,100	0,092
				L	0,100	0,100	0,100	0,100	0,100	0,100
				G, R, 1L, 2L	0,062	0,062	0,062	0,062	0,062	0,062
			External face at elevated temp.	M	3,2	3,2	3,5	3,5	3,5	3,5
				L	126	123	120	116	106	97
				G, R, 1L, 2L	105	107	110	112	112	112
		Internal face	M	126	123	120	116	106	97	
			L	105	107	110	112	112	112	
			G, R, 1L, 2L	106	103	101	96	95	95	
		At a support:	External face	L	159	150	141	128	120	112
				G	119	115	111	106	104	102
				G, R, 1L, 2L	105	100	96	89	86	84
			External face at elevated temp.	M	125	118	111	100	94	89
				L	86	90	93	99	93	89
G, R, 1L, 2L	105			100	96	89	86	84		
Internal face	L	131	128	124	120	114	108			
	G	116	110	103	94	97	101			
Thermal transmittance	Heat transfer coefficient $U_{a,s}$ [W/ m ² K]		0,48	0,38	0,32	0,26	0,23	0,20		
	Heat conductivity coefficient λ_D [W/mK]		0,040							
Reaction to fire; classification*			A2-s2,d0							
Fire resistance; classification*			NPD	EI 30	EI 45	EI 60	EI 90	EI 120		
Water permeability; resistance classification			A							
Air permeability; coefficient n and C			NPD							
Water vapour permeability; coefficient μ [-]			∞ (Impermeable)							
Airborne sound insulation; rating R_w (C, C_{tr}) [dB]			32 (-3, -4)							
Sound absorption; rating α_w [-]			0,20							
Durability; criteria DUR 2			Pass							
Regulated substances			NPD							





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Table 5: Declared performance ($t_{Ne}/t_{Ni} = 0,6/0,6$)

Essential characteristics				Performances								
Steel grade				S250GD								
Types of coatings	Metallic			Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120								
	Organic			SP, PVC(F), CESAR55								
Facing thickness	External t_{Ne} [mm]			0,6								
	Internal t_{Ni} [mm]			0,6								
Facing profile types	External			M, L, R, G, 1L, 2L								
	Internal			L, G								
Core material				Mineral wool								
Nominal core density [kg/m ³]				110								
Nominal thickness d_N [mm]				80	100	120	150	175	200			
Panel weight [kg/m ²]				19	21	24	27	30	32			
Mechanical performance	Wrinkling strength [MPa]	In span:	External face	M	0,100	0,100	0,100	0,100	0,100	0,100	0,092	
				L	0,100	0,100	0,100	0,100	0,100	0,100	0,100	
			External face at elevated temp.	G, R, 1L, 2L	0,062	0,062	0,062	0,062	0,062	0,062	0,062	0,062
				M	3,2	3,2	3,5	3,5	3,5	3,5	3,5	
	L	126		123	120	116	106	97				
	Internal face	L	105	107	110	112	112	112				
		G, R, 1L, 2L	106	103	101	96	95	95				
		M	126	123	120	116	106	97				
	At a support:	External face	L	105	107	110	112	112	112			
			G, R, 1L, 2L	106	103	101	96	95	95			
			M	126	123	120	116	106	97			
		External face at elevated temp.	L	105	107	110	112	112	112			
			G, R, 1L, 2L	106	103	101	96	95	95			
			M	126	123	120	116	106	97			
		Internal face	L	138	130	122	111	104	97			
			G	119	115	111	106	104	102			
			M	125	118	111	100	94	89			
		External face	L	86	90	93	99	93	89			
			G, R, 1L, 2L	105	100	96	89	86	84			
			M	125	118	111	100	94	89			
L	86		90	93	99	93	89					
G, R, 1L, 2L	105		100	96	89	86	84					
M	125		118	111	100	94	89					
Internal face	L	113	111	107	104	99	93					
	G	116	110	103	94	97	101					
Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/ m ² K]			0,48	0,38	0,32	0,26	0,23	0,20			
	Heat conductivity coefficient λ_D [W/mK]			0,040								
Reaction to fire; classification*				A2-s2,d0								
Fire resistance; classification*				NPD	EI 30	EI 45	EI 60	EI 90	EI 120			
Water permeability; resistance classification				A								
Air permeability; coefficient n and C				NPD								
Water vapour permeability; coefficient μ [-]				∞ (Impermeable)								
Airborne sound insulation; rating R_w (C , C_{tr}) [dB]				32 (-3, -4)								
Sound absorption; rating α_w [-]				0,20								
Durability; criteria DUR 2				Pass								
Regulated substances				NPD								



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Table 6: Declared performance ($t_{Ne}/t_{Ni} = 0,6/0,7$)

Essential characteristics				Performances							
Steel grade				S250GD							
Types of coatings	Metallic			Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120							
	Organic			SP, PVC(F), CESAR55							
Facing thickness	External t_{Ne} [mm]			0,6							
	Internal t_{Ni} [mm]			0,7							
Facing profile types	External			M, L, R, G, 1L, 2L							
	Internal			L, G							
Core material				Mineral wool							
Nominal core density [kg/m ³]				110							
Nominal thickness d_N [mm]				80	100	120	150	175	200		
Panel weight [kg/m ²]				20	22	25	28	31	33		
Mechanical performance	Wrinkling strength [MPa]	In span:	External face	M	126	123	120	116	106	97	
				L	105	107	110	112	112	112	
				G, R, 1L, 2L	106	103	101	96	95	95	
			External face at elevated temp.	M	126	123	120	116	106	97	
				L	105	107	110	112	112	112	
				G, R, 1L, 2L	106	103	101	96	95	95	
			Internal face	L	123	116	109	99	93	87	
				G	119	115	111	106	104	102	
			At a support:	External face	M	125	118	111	100	94	89
					L	86	90	93	99	93	89
					G, R, 1L, 2L	105	100	96	89	86	84
				External face at elevated temp.	M	125	118	111	100	94	89
					L	86	90	93	99	93	89
					G, R, 1L, 2L	105	100	96	89	86	84
Internal face	L	101	99	96	93	88	83				
	G	116	110	103	94	97	101				
Thermal transmittance	Heat transfer coefficient $U_{a,s}$ [W/ m ² K]			0,48	0,38	0,32	0,26	0,23	0,20		
	Heat conductivity coefficient λ_D [W/mK]			0,040							
Reaction to fire; classification*				A2-s2,d0							
Fire resistance; classification*				NPD	EI 30	EI 45	EI 60	EI 90	EI 120		
Water permeability; resistance classification				A							
Air permeability; coefficient n and C				NPD							
Water vapour permeability; coefficient μ [-]				∞ (Impermeable)							
Airborne sound insulation; rating R_w (C , C_{tr}) [dB]				32 (-3, -4)							
Sound absorption; rating α_w [-]				0,20							
Durability; criteria DUR 2				Pass							
Regulated substances				NPD							





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Table 7: Declared performance ($t_{Ne}/t_{Ni} = 0,7/0,5$)

Essential characteristics				Performances						
Steel grade				S250GD						
Types of coatings	Metallic			Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120						
	Organic			SP, PVC(F), CESAR55						
Facing thickness	External t_{Ne} [mm]			0,7						
	Internal t_{Ni} [mm]			0,5						
Facing profile types	External			M, L, R, G, 1L, 2L						
	Internal			L, G						
Core material				Mineral wool						
Nominal core density [kg/m^3]				110						
Nominal thickness d_N [mm]				80	100	120	150	175	200	
Panel weight [kg/m^2]				19	21	24	27	30	32	
Mechanical performance	Wrinkling strength [MPa]	In span:	External face	M	0,100	0,100	0,100	0,100	0,100	0,092
				L	0,100	0,100	0,100	0,100	0,100	0,100
			External face at elevated temp.	M	0,062	0,062	0,062	0,062	0,062	0,062
				L	0,062	0,062	0,062	0,062	0,062	0,062
	Internal face	M	3,2	3,2	3,5	3,5	3,5	3,5		
		L	3,2	3,2	3,5	3,5	3,5	3,5		
	At a support:	External face	M	113	110	108	104	95	87	
			L	94	96	98	101	101	101	
		External face at elevated temp.	M	106	103	101	96	95	95	
			L	106	103	101	96	95	95	
		Internal face	M	113	110	108	104	95	87	
			L	94	96	98	101	101	101	
		Internal face	M	106	103	101	96	95	95	
			L	106	103	101	96	95	95	
	Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/m^2K]			0,48	0,38	0,32	0,26	0,23	0,20
		Heat conductivity coefficient λ_p [W/mK]			0,040					
Reaction to fire; classification*				A2-s2,d0						
Fire resistance; classification*				NPD	EI 30	EI 45	EI 60	EI 90	EI 120	
Water permeability; resistance classification				A						
Air permeability; coefficient n and C				NPD						
Water vapour permeability; coefficient μ [-]				∞ (Impermeable)						
Airborne sound insulation; rating R_w (C , C_t) [dB]				32 (-3, -4)						
Sound absorption; rating α_w [-]				0,20						
Durability; criteria DUR 2				Pass						
Regulated substances				NPD						



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Table 8: Declared performance ($t_{Ne}/t_{Ni} = 0,7/0,6$)

Essential characteristics				Performances						
Steel grade				S250GD						
Types of coatings	Metallic			Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120						
	Organic			SP, PVC(F), CESAR55						
Facing thickness	External t_{Ne} [mm]			0,7						
	Internal t_{Ni} [mm]			0,6						
Facing profile types	External			M, L, R, G, 1L, 2L						
	Internal			L, G						
Core material				Mineral wool						
Nominal core density [kg/m ³]				110						
Nominal thickness d_N [mm]				80	100	120	150	175	200	
Panel weight [kg/m ²]				20	22	25	28	31	33	
Mechanical performance	Wrinkling strength [MPa]	In span:	Bending strength f_{cc} [MPa]	M	0,100	0,100	0,100	0,100	0,100	0,092
				L	0,100	0,100	0,100	0,100	0,100	0,100
			Tensile strength f_{ct} [MPa]	M	0,062	0,062	0,062	0,062	0,062	0,062
				L	0,062	0,062	0,062	0,062	0,062	0,062
			Shear resistance f_{cv} [MPa]	M	3,2	3,2	3,5	3,5	3,5	3,5
				L	3,2	3,2	3,5	3,5	3,5	3,5
			Shear modulus G_c [MPa]	M	113	110	108	104	95	87
				L	94	96	98	101	101	101
			External face	M	106	103	101	96	95	95
				L	106	103	101	96	95	95
			External face at elevated temp.	M	113	110	108	104	95	87
				L	94	96	98	101	101	101
			Internal face	M	106	103	101	96	95	95
				L	106	103	101	96	95	95
At a support:	External face	M	138	130	122	111	104	97		
		L	119	115	111	106	104	102		
External face	M	111	105	99	90	84	80			
	L	77	80	83	88	83	80			
External face at elevated temp.	M	105	100	96	89	86	84			
	L	105	100	96	89	86	84			
Internal face	M	111	105	99	90	84	80			
	L	77	80	83	88	83	80			
Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/m ² K]	M	105	100	96	89	86	84		
		L	105	100	96	89	86	84		
Heat conductivity coefficient λ_D [W/mK]	M	113	111	107	104	99	93			
	L	116	110	103	94	97	101			
Reaction to fire; classification*				A2-s2,d0						
Fire resistance; classification*				NPD	EI 30	EI 45	EI 60	EI 90	EI 120	
Water permeability; resistance classification				A						
Air permeability; coefficient n and C				NPD						
Water vapour permeability; coefficient μ [-]				∞ (Impermeable)						
Airborne sound insulation; rating R_w (C , C_{tr}) [dB]				32 (-3, -4)						
Sound absorption; rating α_w [-]				0,20						
Durability; criteria DUR 2				Pass						
Regulated substances				NPD						





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Table 9: Declared performance ($t_{Ne}/t_{Ni} = 0,7/0,7$)

Essential characteristics			Performances							
Steel grade			S250GD							
Types of coatings	Metallic		Z100; Z140; Z200; Z225; Z275; AZ100; AZ150; AZ185; ZA200; ZA255; ZM60; ZM100; ZM120							
	Organic		SP, PVC(F), CESAR55							
Facing thickness	External t_{Ne} [mm]		0,7							
	Internal t_{Ni} [mm]		0,7							
Facing profile types	External		M, L, R, G, 1L, 2L							
	Internal		L, G							
Core material			Mineral wool							
Nominal core density [kg/m ³]			110							
Nominal thickness d_N [mm]			80	100	120	150	175	200		
Panel weight [kg/m ²]			21	23	25	29	31	34		
Mechanical performance	Wrinkling strength [MPa]	In span:	Bending strength f_{cc} [MPa]	M	0,100	0,100	0,100	0,100	0,100	0,092
				L	0,100	0,100	0,100	0,100	0,100	0,100
			Tensile strength f_{ct} [MPa]	M	0,062	0,062	0,062	0,062	0,062	0,062
				L	0,062	0,062	0,062	0,062	0,062	0,062
	Shear resistance f_{cv} [MPa]	M	3,2	3,2	3,5	3,5	3,5	3,5		
		L	3,2	3,2	3,5	3,5	3,5	3,5		
	Shear modulus G_c [MPa]	M	113	110	108	104	95	87		
		L	94	96	98	101	101	101		
	External face at elevated temp.	M	113	110	108	104	95	87		
		L	94	96	98	101	101	101		
	Internal face	M	113	110	108	104	95	87		
		L	94	96	98	101	101	101		
	At a support:	External face	M	111	105	99	90	84	80	
			L	77	80	83	88	83	80	
	External face at elevated temp.	M	111	105	99	90	84	80		
		L	77	80	83	88	83	80		
Internal face	M	111	105	99	90	84	80			
	L	77	80	83	88	83	80			
Thermal transmittance	Heat transfer coefficient $U_{d,s}$ [W/ m ² K]		0,48	0,38	0,32	0,26	0,23	0,20		
	Heat conductivity coefficient λ_p [W/mK]		0,040							
Reaction to fire; classification*			A2-s2,d0							
Fire resistance; classification*			NPD	EI 30	EI 45	EI 60	EI 90	EI 120		
Water permeability; resistance classification			A							
Air permeability; coefficient n and C			NPD							
Water vapour permeability; coefficient μ [-]			∞ (Impermeable)							
Airborne sound insulation; rating R_w (C , C_{tr}) [dB]			32 (-3, -4)							
Sound absorption; rating α_w [-]			0,20							
Durability; criteria DUR 2			Pass							
Regulated substances			NPD							