DECLARATION OF PERFORMANCE

No MW FIRE/2023/1

1. **Unique identification code of the product-type:** MW FIRE sandwich panel (MW FIRE d_N t_{Ne}/t_{Ni})
2. **Intended use/es:** external walls and wall cladding, walls (including partitions) and ceilings within the building envelope
3. **Manufacturer:** BALEX METAL Sp. z o.o., ul. Wejherowska 12C, 84-239 Bolszewo
4. **System/s of Assessment and Verification of Constancy of Performance:** 3
5. **Harmonised standard:** EN 14509:2013
6. **Notified body/ies:** Instytut Techniki Budowlanej (No 1488), Fires s.r.o (No 1396), Fire-Lab Sp. z o.o. (No 2904)
7. **Declared performances:** Table 1, Table 2, Table 3, Table 4, Table 5, Table 6, Table 7, Table 8, Table 9

Steel facing profiling designations:

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

Other designations:

d_{Ne} – nominal thickness of the sandwich panel [mm]

t_{Ne}/t_{Ni} – nominal facing thickness (external/internal) [mm]

NPD – No Performance Determined

*- valid under the conditions specified in the 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 for and on behalf of the manufacturer by:

Chief Executive Officer

Marek Dzikiewicz

Bolszewo, 04.04.2023

BALEX METAL Sp. z o.o.
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P-191112216 2

Table 1: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,5/0,5)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	142	139	134	123	112	94
		L	124	127	130	130	130	101
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	142	139	134	123	112	94
		L	124	127	130	130	130	101
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	150	141	128	120	112	98
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	136	128	116	109	103	93
		L	104	108	114	108	103	93
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	136	128	116	109	103	93
		L	104	108	114	108	103	93
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	128	124	120	114	108	98
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 2: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,5/0,6)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_c [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	142	139	134	123	112	94
		L	124	127	130	130	130	101
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	142	139	134	123	112	94
		L	124	127	130	130	130	101
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	130	122	111	104	97	85
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	136	128	116	109	103	93
		L	104	108	114	108	103	93
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	136	128	116	109	103	93
		L	104	108	114	108	103	93
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	111	107	104	99	93	85
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 3: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,5/0,7)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	142	139	134	123	112	94
		L	124	127	130	130	130	101
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	142	139	134	123	112	94
		L	124	127	130	130	130	101
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	116	109	99	93	87	76
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	136	128	116	109	103	93
		L	104	108	114	108	103	93
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	136	128	116	109	103	93
		L	104	108	114	108	103	93
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	99	96	93	88	83	76
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 4: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,6/0,5)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	123	120	116	106	97	81
		L	107	110	112	112	112	87
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	123	120	116	106	97	81
		L	107	110	112	112	112	87
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	150	141	128	120	112	98
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	118	111	100	94	89	80
		L	90	93	99	93	89	80
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	118	111	100	94	89	80
		L	90	93	99	93	89	80
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	128	124	120	114	108	98
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 5: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,6/0,6)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{Ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{Cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{Cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	123	120	116	106	97	81
		L	107	110	112	112	112	87
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	123	120	116	106	97	81
		L	107	110	112	112	112	87
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	130	122	111	104	97	85
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	118	111	100	94	89	80
		L	90	93	99	93	89	80
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	118	111	100	94	89	80
		L	90	93	99	93	89	80
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	111	107	104	99	93	85
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 6: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,6/0,7)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	123	120	116	106	97	81
		L	107	110	112	112	112	87
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	123	120	116	106	97	81
		L	107	110	112	112	112	87
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	116	109	99	93	87	76
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	118	111	100	94	89	80
		L	90	93	99	93	89	80
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	118	111	100	94	89	80
		L	90	93	99	93	89	80
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	99	96	93	88	83	76
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 7: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,7/0,5)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{Ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{Cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{Cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	110	108	104	95	87	73
		L	96	98	101	101	101	78
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	110	108	104	95	87	73
		L	96	98	101	101	101	78
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	150	141	128	120	112	98
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	105	99	90	84	80	72
		L	80	83	88	83	80	72
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	105	99	90	84	80	72
		L	80	83	88	83	80	72
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	128	124	120	114	108	98
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 8: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,7/0,6)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	110	108	104	95	87	73
		L	96	98	101	101	101	78
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	110	108	104	95	87	73
		L	96	98	101	101	101	78
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	130	122	111	104	97	85
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	105	99	90	84	80	72
		L	80	83	88	83	80	72
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	105	99	90	84	80	72
		L	80	83	88	83	80	72
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	111	107	104	99	93	85
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					

Table 9: Performances (mineral wool 110 kg/m³, S250GD + SP15, SP25, SP35, Cesar55, PVC(F) 120, Aluzinc + Easyfilm; t_{Ne}/t_{Ni} = 0,7/0,7)

Nominal thickness d_N [mm]			100	120	150	175	200	240
Essential characteristics			**Performances**					
Mechanical resistance	Compressive strength σ_m [MPa]		0,100	0,100	0,100	0,100	0,092	0,092
	Tensile strength f_{ct} [MPa]		0,100	0,100	0,100	0,100	0,100	0,100
	Shear strength f_{cv} [MPa]		0,062	0,062	0,062	0,062	0,062	0,062
	Shear modulus G_C [MPa]		3,2	3,5	3,5	3,5	3,5	3,5
	Creep coefficient φ_t (ceilings)		4,0 for t = 100 000 h					
	Shear strength f_{cv} long-term [MPa] (ceilings)		0,024	0,024	0,024	0,024	0,024	0,024
	Wrinkling stress σ_w [MPa] positive	M	110	108	104	95	87	73
		L	96	98	101	101	101	78
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σw [MPa] positive elevated temperature	M	110	108	104	95	87	73
		L	96	98	101	101	101	78
		G, R, 1L, 2L	103	101	96	95	95	93
	Wrinkling stress σ_w [MPa] negative	L	116	109	99	93	87	76
		G	115	111	106	104	102	98
	Wrinkling stress σ_w over support [MPa] negative	M	105	99	90	84	80	72
		L	80	83	88	83	80	72
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] negative elevated temperature	M	105	99	90	84	80	72
		L	80	83	88	83	80	72
		G, R, 1L, 2L	100	96	89	86	84	80
	Wrinkling stress σ_w over support [MPa] positive	L	99	96	93	88	83	76
		G	110	103	94	97	101	98
Thermal transmittance	Thermal transmittance coefficient $U_{d,s}$ [W/(m²K)]		0,40	0,34	0,28	0,24	0,20	0,17
	Thermal conductivity coefficient λ_D [W/(mK)]		0,041					
Reaction to fire; classification*			A2-s1,d0					
Fire resistance of walls; classification*			EI 90	EI 120	EI 180	EI 180	EI 240	EI 240
Flexural tensile strength (ceilings)			NPD					
Water permeability; classification			NPD					
Air permeability; values *n* and *C*			NPD					
Water vapour permeability; coefficient μ			Pass					
Airborne sound insulation; ratings R_w (C, C_{tr}) [dB]			NPD					
Sound absorption; rating α_w			NPD					
Durability	DUR2		Pass					
	Resistance to point loads and access loads (ceilings)		NPD					
Dangerous substances			NPD					