

Panel Thickness

Property	Standard	Unit	2 mm White	3 mm White + ALU	4 mm White	3 mm Black	6 mm White
Thickness of aluminium	DIN 1784	mm	0.2	0.2	0.2	0.28	0.28
Aluminium thickness deviation	DIN 1784	mm	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02
Weight		kg/m ²	3.14	4.32	5.50	4.62	8.16

Technical

Property	Standard	Unit	2 mm White	3 mm White + ALU	4 mm White	3 mm Black	6 mm White
Section modulus W	DIN 53293	cm ³ /m	1.31	1.53	1.84	1.55	2.96
Rigidity (poission's ratio $\mu = 0.3$) E.J	DIN 53293	kNcm ² /m	0.96	0.15	0.32	0.97	0.86
Modulus of elasticity	EN 1999 1-1	N/mm ²	70000				
Tensile strength of aluminium	EN 485-2	N/mm ²	Rm145-185				
0.2 % proof stress	EN 485-2	N/mm ²	Rp0.2110-175			Rp0.2110-175	
Elongation	EN 485-2	%	A50 \geq 3				
Linear thermal expansion	EN 1999 1-1	mm/m C°	2.4 at 100°C temp difference				
Gloss (initial value)	ECCA T2	%	30 - 60				
Pencil hardness	ECCA T4		2H				

Thermal

Property	Standard	Unit	2 mm White	3 mm Wit + ALU	4 mm White	3 mm Black	6 mm White
Thermal resistance R	DIN 52612	m ² K/W	0.0047	0.0080	0.0113	0.0080	0.0180
Heat transition coefficient U	DIN 4108	W/m ² K	5.70	5.60	5.48	5.61	5.30
Temperature range		C°	-50 ... +80				