

Max Compact Exterior—physical data and approvals

Properties	Testing method	Assessment	Standard value ¹⁾	Typical value ²⁾
Lightfastness and weather resistance (NT)				
Resistance to artificial weathering*	EN 438–2:2016, Section 29, 3000 h	Contrast: Gray scale Appearance: Degree	Contrast: ≥ 3 Appearance: ≥ 4	Contrast: 4–5 Appearance: 5
Resistance to UV rays*	EN 438–2:2016, Section 28	Contrast: Gray scale Appearance: Degree	Contrast: ≥ 3 Appearance: ≥ 4	Contrast: 4–5 Appearance: 5
Properties				
Mechanical properties				
Bulk density	DIN 52328 / EN ISO 1183	g/cm ³	≥ 1.35	1.44
Flexural strength	EN ISO 178	MPa	≥ 80	Crosswise: 105 Lengthwise: 170
Flexural modulus	EN ISO 178	MPa	≥ 9,000	Crosswise: 11,000 Lengthwise: 16,000
Tensile strength	EN ISO 527–2	MPa	–	Crosswise: 95 Lengthwise: 140
Resistance to impact with a large ball	EN 438–2:2016, Section 21	mm	≥ 10	5–6
Thermal properties				
Resistance to moisture	EN 438–2:2016, Section 15	%	Mass increase ≤ 8	2
Dimensional tolerance at high temperature	EN 438–2:2016, Section 17	%	Lengthwise: ≤ 0.30 Crosswise: ≤ 0.60	Lengthwise: 0.08 Crosswise: 0.16
Coefficient of thermal expansion	DIN 52328	1/K		18 x 10 ⁻⁶
Thermal conductivity		W/mK		0.3
Water vapor diffusion resistance				approx. 17,200 μ
Building material classes				
Europe building material class	EN 13501–1	MA39–VFA Vienna	Euroclass B–s2, d0 for 6–13 mm**	
Austria facade fire testing	ÖNORM B 3800–5	MA39–VFA Vienna	tested panel thicknesses 8–13 mm	
Fire resistance test balcony floor Podio Austria	EN 1365–2	MA39–VFA Vienna	R30 for thickness 20mm	
Switzerland building material class	EN 13501–1	MA39–VFA Vienna	Euroclass B–s2, d0 for 6–13 mm ²⁾	
France building material class	NFP 92501	LNE	M1 for 2–10 mm	
Spain building material class	UNE 23727–90	LICOF	M1 for 6–10 mm	
Poland building material class	PN–B–02867:2013–06	Instytut Techniki Budowlanej	NRO for 6 – 10 mm mechanical visible/invisible fixing NRO for 8 – 10 mm invisible glued fixing	
Approvals				
Germany facade approval		Deutsches Institut für Bautechnik, Berlin	6, 8, 10 mm, Approval no. Z–10.3–712	
ETB guidelines for components that protect against falling, from 6/1985 balcony railings		TU Hanover	present (depending on building regulations and railing construction, 6, 8, 10, or 13 mm panel thickness)	
France Avis technique		CSTB	6, 8, 10, and 13 mm, timber and metal subframe, approval No. 36–87 2/16–1749 No. 36–106 2.2/14–1623_V1 No. 36–125 2.2/13–1565_V2 No. 36–125 2.2/21–1809_V1 No. 36–125 2.2/16–1716 No. 36–29 ATT–20/O13_V1 No. 26–29 ATT–20/O14_V1	
WinMark UK		Wintech	A10114	

For the NT surface, a gloss level tolerance of +/–5 GE is measured at 60°. With regard to colour tolerance, the ÖFHf (www.oefhf.at) Tolerances data sheet dated 16 January 2017 applies.

1) In accordance with EN 438–6

2) Typical values are given as an example only and may not be consulted in the case of any possible liability of Fundermax (they are not confirmed, guaranteed values). Fundermax only guarantees compliance with standard values.

* Custom decorative printing: artificial weathering EN ISO 4892–2: 3,000 h; Assessed based on the gray scale EN 20105–A02: 3

** The exception is the Podio balcony flooring panel, Euroclass B–s2,d0 (6–20 mm)

Other and up-to-date tests and approvals can be found in the Downloads section on www.fundermax.com.

Please take into account any currently valid building regulations; we accept no liability in this regard.

Please check whether your construction project complies with the requirements to effectively restrict the spread of fire (e.g., Austria: OIB RL 2, Germany: Model Administrative Provisions – Technical Building Rules, MVB TB, etc.)

This brochure is intended for specialists who are trusted to adhere to the relevant standards, technical regulations, legal requirements, and relevant guidelines relating to building products. Rules have been painstakingly revised, however, we would like to point out that responsibility for proper planning always lies with the planner, and responsibility for correct installation lies with the contractor.