

FunderMax Compact Exterior, F Quality, NT Surface
Technical Properties Datasheet

Panel Core	Standard Dark Brown Core, Finish on both sides			
Porosity	Non Porous surface and edges			
Antimicrobial Characteristics	Fundermax panels do not support microorganic growth			
Modulus of Elasticity	≥ 9500 N/mm ²	≥1,378,165 psi	property tested according to ES 438.2	
Tensile Strength	≥ 80 N/mm ²	≥11,603 psi	property tested according to ES 438.2	
Flexural Strength	≥ 90 N/mm ²	≥13,053 psi	property tested according to ES 438.2	
Density	1.45 g/cm ³	Per EN ISO 1183-1	1 N/mm ² = 1Mpa	
Surface Impact Resistance	8mm	Falling ball test per EN 438-2:21, (standard value ≤ 10mm)		
Scratch Resistance	Grade 3 / 4 N	4 N = .9 lbf	Per EN 438-2:25	
Abrasion Resistance	450 U	1 U= 1 cycle of rotation, property as tested per ES 438.2		
Water Absorption	Lengthwise ≤ .15 %, Crosswise ≤ .25%		Dimensional Stability per EN438-2:17	
Color Stability	Blue Scale ≥ BS 7	Per DIN 53952		
Color Stability -Artificial Weathering	Greyscale value 4-5	Per EN ISO 4892-2,industry standard ≥ 3		
Color Stability -UV Light Resistance	Greyscale value 4-5	Per EN ISO 4892-3,industry standard ≥ 3		
Burning Classification	Class A rating	Per ASTM E 84		
	8mm	10mm	12mm	
FSI (Flame Spread Index)	10	10	5	As tested per ASTM E84
SDI (Smoke Develop Index)	40	60	95	As tested per ASTM E84
Coefficient of Thermal Expansion	18 x 10 (-6) K	Per DIN 52328		
Thermal Conductivity	.3 W/ mK			
Water Vapor Diffusion Resistance	ca. 17.20 μ			
Dimensional Changes during climatic changes, measured at 20 degrees Celsius	I %	0,05		
	Q %	0,1		
Dimensional Changes during climatic changes, measured at elevated temperatures	I %	0,1		
	Q %	0,25		
Behavior in damp heat, alternating atmosphere	No noticeable change			
Dimensional Tolerance of Nominal Sizes	0-10mm			
Dimensional Tolerance of Thicknesses	+/- .5 mm			
Resistance to Chemicals	Fundermax panels are highly resistant to many chemicals, complete list available on request			
Ease of maintenance/Cleaning	Fundermax panels resist dirt, easily cleaned with common agents,complete list available			

See FunderMax ICC ESR #3340 for ICC AC92 compliance (NFPA285 assemblies, and all other IBC code prescribed tests)