

PUR METAL® Metal Laminate



PUR METAL®

	GRADE		Fire retardant
	DECOR / FINISHES		All
	THICKNESS		0,8 - 0,9 mm
	CLASSIFICATION		MTF

Conforms EN 438-8

CHARACTERISTICS	STANDARD	UNITS	
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Physical and dimensional properties

Density	EN ISO 1183-1	g/cm ³	≤ 1,35
Thickness tolerance	EN 438-2-5	mm	± 0,15
Length and width tolerance	EN 438-2-6	mm	- 0 / +10
Straightness tolerance	EN 438-2-7	mm/m	≤ 1,5
Squareness tolerance	EN 438-2-8	mm/m	≤ 1,5
Flatness tolerance	EN 438-2-9	mm/m	100
Dimensional stability at high temperature	EN 438-2-17	%	≤ 0,75 ≤ 1,25
• Longitudinal			
• Transverse			

Mechanical properties

Resistance to boiling water	EN 438-2-12		No delamination of the core
Resistance to cracking	EN 438-2-23	Class ^(a)	4
Minimum bending radius (convex and concave)		cm	15

Surface properties

Resistance to steam	EN 438-2-14	Class ^(a)	3
Scratch resistance	EN 438-2-25	Grade ^(b)	1
Stain Resistance	EN 438-2-26	Class ^(a)	4 4
• Groups 1 & 2			
• Group 3			
Colour fastness under artificial light	EN 438-2-27	Grayscale	4 to 5

Fire performance

Fire rating	NFP 92-501	M Class.	M1
Calorific value	EN ISO 1716	MJ/Kg	18 - 20

Health and environmental characteristics

Formaldehyde emission	EN 717-2	Class	E1
Volatile organic compounds (VOC) emission	ISO 16000-9	Class	A

The metal may show a slight natural variation in color or structure as well as produce a rainbow effect on certain styles.

MTF : Fireproof metal surface laminate. / Type P2 : Panels for dry interior design applications.

^(a) Class: 1 = Surface damage. 2 = Severe appearance alteration. 3 = Moderate change. 4 = Slight change visible from certain angles. 5 = No change.

^(b) Grade: 2 = Continuous scratches at 2N. 3 = Continuous scratches at 4N.

PANOMETAL®

	CORE		Chipboard	
			Standard	Fire retardant
	THICKNESS		19,6 - 19,8 mm	
	COATING		Pur Metal HPL	
CLASSIFICATION		EN 312 Type P2		

CHARACTERISTICS	STANDARD	UNITS		
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Physical and dimensional properties

Density	EN 323	kg/m ³	650 +/- 10 %	700 +/- 10 %
Moisture content (ex-factory)	EN 322	%	5 to 13	5 to 13
Thickness tolerance	ISO 13894-1-6.4	mm	+/- 0,5	+/- 0,5
Length and width tolerance	ISO 13894-1-6.1	mm	+/- 3	+/- 3
Straightness tolerance	ISO 13894-1-6.2	mm/m	+/- 0,5	+/- 0,5
Squareness tolerance	ISO 13894-1-6.3	mm/m	≤ 2	≤ 2
Flatness tolerance	ISO 13894-1-6.7	mm/m	≤ 2	≤ 2

Mechanical properties

Impact resistance (small diameter ball)	EN 438-2-20	N	≥ 15	≥ 15
Impact resistance (large diameter ball) (Drop height for a imprint diameter ≤ 10 mm)	EN 438-2-21	mm	≥ 600	≥ 600
Glue quality	ISO 13894-1-8	Level	5	5
Surface cohesion	ISO 13894-1-9	MPa	≥ 1,0	≥ 1,0
Screw retention	ISO 13894-1-15	N	1500 500	1500 500
• From face				
• From edge				
Bending strength	ISO 16978	MPa	≥ 35 ≥ 4500	≥ 35 ≥ 4500
• Breaking point				
• Modulus of elasticity				
Perpendicular traction	ISO 13894-1-10	MPa	≥ 0,35	≥ 0,35

Surface properties

Surface defects	EN 438-2-5	mm ² /m ² mm/m ²	≤ 1 ≤ 10	≤ 1 ≤ 10
• Spots • Linear				
Resistance to steam	EN 438-2-14	Class ^(a)	3	3
Scratch resistance	EN 438-2-25	Grade ^(b)	1	1
Stain Resistance	EN 438-2-26	Class ^(a)	4 4	4 4
• Groups 1 & 2				
• Group 3				

Fire performance

Fire rating	EN 13501-1	Euroclass	D-s1,d0	B-s2,d0
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Health and environmental characteristics

Formaldehyde emission	EN 717-2	Class	E1	E1
Volatile organic compounds (VOC) emission	ISO 16000-9	Class	A	A