

SURFORMA® METALS

Decorative Metallic Laminates

DESCRIPTION

SURFORMA® Metals laminates are high-pressure decorative laminates according to EN 438 with metal surface. Aluminium surfaces are coated with an epoxy lacquer and copper surface coated with a polyurethane lacquer. SURFORMA® Metals are intended for use in vertical and light duty interior applications. The surface of the laminate is antibacterial, validated accordingly to Japanese regulation JIS Z 2801.

SURFORMA® decorative laminates are available in a variety of colours and texture, providing varied options for architects and designers.

Please check offer & service brochure for information on sizes and thicknesses available.

APPLICATIONS

SURFORMA® Metals decorative laminates are intended for use in indoor vertical applications, such as furniture and decoration, where the design and appearance are important features.

They are not suitable for areas subject to wear, such as horizontal working surfaces, or for long-term exposure to wet conditions or temperatures exceeding 60°C.



FOR PANELING



OFFICES & EDUCATION



RESTAURANTS & HOTELS



RETAIL & EXHIBITIONS



HEALTH & WELLNESS

PROPERTIES



LOW EMISSIONS



VERSABILITY



POSTFORMABLE



VERTICALITY



DIMENSIONAL STABILITY

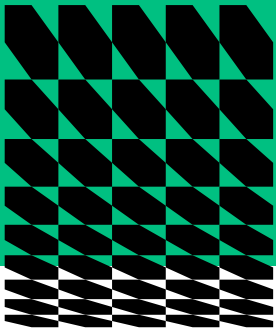
RECOMMENDATIONS

SURFORMA® Laminates should be stored so they are protected from moisture, humidity and direct sunlight. The laminates should preferably be store face to face, flat in horizontal racks. They should not be rolled as this may induce a permanent bend. The metallic laminates are supplied with a protective peel coat. It's recommended to let it for protection during handling, transport and panels fabrication. Remove it after the finished product is installed and ready for use.

The metallic laminates surface can be cleaned with warm water followed by wiping with a paper towel or soft cloth. Persistent contamination can usually be eliminated with non-abrasive household cleaners. Solvents cleaners must be used with care and should be tried first on a scrap off-cut to ensure that no surface damage results.

As laminates are classified as non-hazardous, it is not necessary additional product description labels. It is a cured material and is chemically inert. REACH classification does not apply to them.

SURFORMA® HPL can be brought to controlled waste disposal sites according to current national and/or regional regulations.



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GENERAL FEATURES

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		MTS / MTP
Dimensional tolerance requirements (EN 438-2:2016, Clause n.º)				
Thickness	EN 438-2:5	mm (max. variation)	$0.8 \leq t \leq 1.0$	± 0.15
			$1.0 < t \leq 1.2$	± 0.18
Length and with	EN 438-2:6	mm		+ 10 / - 0
Edges straightness	EN 438-2:7	mm/m (max. deviation)		1.5
Edges squareness	EN 438-2:8	mm/m (max. deviation)		1.5
Flatness	EN 438-2:9	mm/m (max. deviation)		100
General Requirements				
Resistance to immersion in boiling water	EN 438-2:12	Appearance, rating (min.)	Core delamination Pass or Fail	Pass
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)		3
Dimensional stability at elevated temperature	EN 438-2:17	Cumulative dimensional change % (max.)	Longitudinal	0.75
			Transversal	1.25
Resistance to scratching	EN 438-2:25	Force, N (min.)		1
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Group 1 & 2 / Group 3	4
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4
Density	EN ISO 1183-1	Density, g/cm ³ (min.)		1.35
Additional requirements for postformable - Type P laminates				
Formability	EN 438-2:31 or 32	Radius, mm	Longitudinal	≤ 10 x laminate nominal thickness
			Transversal	≤ 20 x laminate nominal thickness
Resistance to blistering	EN 438-2:33 or 34	Time to blister, seconds (t ₂ - t ₁)	Thickness < 0.8 mm	≥ 10
			Thickness ≥ 0.8 mm	≥ 15

SURFORMA® Laminates are classified in accordance with EN 438 – Sheets based on thermosetting resins (Usually called Laminates) – Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater. For more information about these properties, please refer to the corresponding Technical Datasheet.

The use of SURFORMA® laminates can contribute to the achievement of up to 2 LEED claims:
 · The product contains recycled materials and can contribute to obtain LEED credits under MR Credit 4.
 · Depending on the location of the construction project, the product can meet the requirements for materials extracted and manufactured regionally and contribute to obtaining LEED credits under MR Credit 5.

The information given in this TDS is correct at the time of publication (05/19 EN)
 The Company reserves the right to change specifications at any time without prior notification.

CERTIFICATIONS

