

SURFORMA® METALS

Decorative HPL Metals for interior vertical applications

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.

HPL are cured and therefore chemically inert. Laminates surfaces are physiologically safe.

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

Decorative Metals 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.

PROPERTIES



LOW
EMISSIONS



ANTI-STATIC



STAIN
RESISTANT



LIGHT
RESISTANT



EASY TO CLEAN



DIMENSIONAL
STABILITY



EASY TO MILL

RECOMMENDATIONS

The advice and recommendations are of advisory nature only

Handling & Storage

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.

Maintenance & Cleaning

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.

Transportation, Recovery and Disposal

In terms of transport regulations, HPL is not classified as a hazardous material; therefore, labelling is not necessary.

Laminates are an article and not a chemical substance and therefore the REACH regulation does not apply.

Due to their high calorific value (18-20 MJ/kg)1 HPL are suitable for thermal recycling.

Laminates 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 (t2 - t1)	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 8: Classification and specifications for design laminates. The physical and mechanical properties vary depending on the substrate used. For more information about these properties, please refer to the corresponding Technical Data Sheet.

Our due diligence system for tracing the origin of wood - FSC® & PEFC standards:

The well-known certification systems for sustainable forest management FSC and PEFC are equally evaluated by us to ensure traceability of timber throughout the supply chain, from harvest through to the finished product as a proof that the wood originally comes from certified and sustainably managed forests and other controlled sources.

In addition to providing assurance, FSC and PEFC certified materials can also support customers' LEED and BREEAM certification strategies.

CERTIFICATIONS

