

## SURFORMA® LAMIFLOOR

Decorative HPL Flooring for raised floors

### DESCRIPTION

SURFORMA® Lamifloor are laminated destined to be applied to substracts on the floor.

SURFORMA® decorative laminates according to EN 438 are a high abrasion resistance material for floorings. SURFORMA decorative laminates meet the stringent requirements for hygiene, fire resistance, humidity resistance and mechanical properties.

**The laminate surface is ANTIBACTERIAL, tested according to ISO 22196 and validated accordingly to Japanese regulation JIS Z 2801.**

**HPL are cured and therefore chemically inert. Laminates surfaces are physiologically safe and approved for use in direct contact with foodstuff.**

SURFORMA® decorative laminates are available in a variety of colours, patterns and surface textures, providing extensive options for architects and designers.

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

### APPLICATIONS

Decorative Flooring laminates available in AC3 & AC5 classes, are intended for the production of indoor floorings, where the wear resistance, durability, design and appearance, are important features.

SURFORMA® laminates are the best choice for resistant, durable and hygienic floors for public areas of medium and high circulation.

### PROPERTIES



LOW  
EMISSIONS



ANTI-STATIC



HIGH  
ABRASION  
RESISTANT



SCRATCH  
RESISTANT



STAIN  
RESISTANT



LIGHT  
RESISTANT



EASY TO CLEAN



DIMENSIONAL  
STABILITY



EASY TO MILL



FIRE  
RETARDANT

### 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. When handling or moving decorative laminates it is important that the sheets be lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other.

For larger sizes, it is recommended that sheets be carried arched along the longitudinal axis to prevent sagging. Individual sheets can also be rolled up for easier handling (roll with the decorative face inward, making sure to avoid any side-to-side sliding motions).

#### Maintenance & Cleaning

SURFORMA® laminates, with their durable, hygienic and waterproof surface, require no special maintenance. The 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. They are resistant to most solvents and chemicals used daily at home.

#### 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)		AC3 ST AC3 FR	AC5 ST AC5 FR
<b>Dimensional tolerance requirements (EN 438-2:2016, Clause n.º)</b>					
Thickness	EN 438-2:5	mm (max. variation)	$0.8 \leq t \leq 1.0$	± 0.10	
			$1.0 < t \leq 1.2$	± 0.15	
Length and width	EN 438-2:6	mm	+ 10 / - 0		
Edges straightness	EN 438-2:7	mm/m (max. deviation)	15		
Edges squareness	EN 438-2:8	mm/m (max. deviation)	15		
Flatness	EN 438-2:9	mm/m (max. deviation)	60		
<b>General Requirements</b>					
Resistance to surface wear	EN 438-2:11	Revolutions (min.)	Initial Point	2000	6000
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)	All finishes	4	
Dimensional stability at elevated temperature	EN 438-2:17	Cumulative dimensional change % (max.)	Longitudinal	0.65	
			Transversal	1.15	
Resistance to impact by small diameter ball	EN 438-2:20	Spring force, N (min.)	20		
Resistance to impact by large diameter ball	EN 438-2:21	Drop height, mm (min.)	1600		
		Indentation diameter, mm (max.)	10		
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Groups 1 & 2 /Group 3	5 / 4	
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4 to 5	
Density	EN ISO 1183-1	Density, g/cm <sup>3</sup> (min.)	1.35		
Electrostatic properties	EN 61340-4-1	Ohms	Ca 5 x 10 <sup>9</sup>		
<b>Additional requirements for reaction to fire - Type F laminates</b>					
Reaction to fire	NFP 92-501	Class M		M1	
Brandschacht	DIN 4102-1	Class B		B1	
Propagation of fire	BS 476 - 7	Class		Class 1	
Heat release Calorific	IMO Res. A653 (16)			Approved	
Power	EN ISO 1716	mJ / kg		18 - 20	

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PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)	AC3 ST AC3 FR	AC5 ST AC5 FR
<b>Typical EN 13501-1 classifications of HPL composite panels in the field of building construction</b>				
In Europe, laminate panels intended for construction applications are tested in accordance with EN ISO 9239-1 and EN ISO 11925-2 (2) (Small-burner test), and the resulting reaction-to-fire performance is expressed in accordance with EN 13501-1				
Composite panels comprising HPL type F bonded to non-combustible substrates			B-s2,d0	
Composite panels comprising HPL type F bonded to FR wood-based substrates			C-s2,d0	
Composite panels comprising HPL type S or P bonded to non-FR wood-based substrates			D-s2,d0	

SURFORMA® Laminates are classified in accordance with EN 438 – Sheets based on thermosetting resins (Usually called Laminates) – Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates.

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

