

SURFORMA® ECO COMPACT

Decorative Surface with Recycled Materials
Core for interior applications

DESCRIPTION

SURFORMA® decorative ECO Compacts has a core based on recycled materials, by-products or waste from other industries, conjugated with subproducts of Surforma's main production, with suitable properties to be used in several applications in a **Circular Economy** concept.

The core contains recycled tires, cork by-products, EVA waste from footwear industry and Surforma industrial residues.

The product has a high water-proof and humidity resistance and is lighter than the traditional Compact.

Its double-sided decorative panels meet the most demanding specifications being capable to endure high content of moisture and impact. The products 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.

These eco-friendly ECO Compacts are available in a wide 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 ECO Compacts are intended for applications to indoor horizontal or vertical surfaces where design, appearance, quality, durability and dimensional stability are important features.

ECO Compact is an ecological and sustainable product for applications such as interior wall coverings, partitions, doors, cubicles, lockers, cabinets, shelves, and components for the construction and furniture industries in general with a very high water proof and humidity resistance.

PROPERTIES



ABRASION
RESISTANT



SCRATCH
RESISTANT



STAIN
RESISTANT



LIGHT
RESISTANT



EASY TO CLEAN



DIMENSIONAL
STABILITY



EASY TO MILL



DEEP
ROUTING

RECOMMENDATIONS

The advice and recommendations are of advisory nature only

Handling & Storage

ECO Compacts should be stored in a normal room climate, i.e., at approx. 18-25 °C and 50-65 % relative humidity, so they are protected from moisture, humidity and direct sunlight. The compacts should preferably be store flat in horizontal racks.

Maintenance & Cleaning

SURFORMA® ECO Compacts require no special maintenance because of their durable, hygienic and waterproof surface. Their 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.

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Processing

Machining - SURFORMA® ECO Compacts require no special equipment.

The equipment and tools commonly used for cutting and drilling HPL Compact are suitable for cutting the new ECO Compact product.

The selection of the required carbide tipped tools, particularly for saws and routers, should be based on manufacturers recommendations.

Connections & Adhesives

Type of nuts: we recommend the use of double thread inserting nuts and the appropriate screws.

The common adhesives can be used, such as PVAc. For more efficient and lasting gluing, we recommend to use a cold metal welding (example: Pattex Nural 27).

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.

At the end of its useful life, the product can be grinded and reused in a new ECO Compact production.

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

GENERAL FEATURES

SURFACE - ECO Compact decorative surfaces meet all the requirements of standard EN438-part 4 applicable to the top and down sides of the compact.

CORE – specific features:

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		ECO ST
Dimensional tolerance requirements (EN 438-2:2016, Clause No.)				
Thickness	EN 438-2:5	mm (max. variation)	$8.0 \leq t \leq 12.0$	± 0.70
Length and width	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	$5.0 \leq t < 10.0$		5.0 mm /m
		$10.0 \leq t$		3.0 mm /m

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General Requirements

Resistance to immersion in boiling water	EN 438-2:12	Appearance, rating (min.)	All finishes	4
		Mass increase % (max)	$t \geq 8.0$	2.0
		Thickness increase % (max)	$t \geq 8.0$	2.0
		Edge, rating (min)	All thickness	3
Dimensional stability at elevated temperature	EN 438-2:17	Cumulative dimensional change % (max.)	$t \geq 8.0$ Longitudinal	0.30
			$t \geq 8.0$ Transversa	0.60
Flexural Modulus	EN ISO 178	Stress, MPa (min.)	Longitudinal & Transversal	Under evaluation
Flexural Strength	EN ISO 178	Stress, MPa (min.)	Longitudinal & Transversal	Under evaluation
Density	EN ISO 1183-1	Density, g/cm3 (min.)		1.10

CERTIFICATIONS

