

## SURFORMA® COMPACTS

Decorative Compacts Standard and Fire Retardant for interior applications

### DESCRIPTION

SURFORMA® decorative Compacts, according to EN 438, are a robust material for indoor surfaces, either horizontal or vertical. 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.**

SURFORMA® Compact materials 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 Compacts are intended for applications to indoor horizontal or vertical surfaces where design, appearance, quality, durability, mechanical resistance and dimensional stability are important features.

SURFORMA® Compacts are the best choice for wall cladding, partitions, doors, cubicles, lockers, laboratory bench tops and various self-supporting components in construction, transport industries and public spaces with high levels of circulation

### PROPERTIES



LOW EMISSIONS



ANTI-STATIC



ABRASION RESISTANT



SCRATCH RESISTANT



STAIN RESISTANT



LIGHT RESISTANT



EASY TO CLEAN



DIMENSIONAL STABILITY



EASY TO MILL



DEEP ROUTERING



FIRE RETARDANT

### RECOMMENDATIONS

**The advice and recommendations are of advisory nature only**

#### Handling & Storage

Compacts should be stored so they are protected from moisture, humidity and direct sunlight. The compacts should preferably be store flat in horizontal racks.

#### Maintenance & Cleaning

SURFORMA® 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.

#### 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)	CGS	CGF	
<b>Dimensional tolerance requirements (EN 438-2:2016, Clause No.)</b>					
Thickness	EN 438-2:5	mm (max. variation)	$2.0 \leq t < 3.0$	$\pm 0.20$	
			$3.0 \leq t < 5.0$	$\pm 0.30$	
			$5.0 \leq t < 8.0$	$\pm 0.40$	
			$8.0 \leq t < 12.0$	$\pm 0.50$	
			$12.0 \leq t < 16.0$	$\pm 0.60$	
			$16.0 \leq t < 20.0$	$\pm 0.70$	
			$20.0 \leq t \leq 25.0$	$\pm 0.80$	
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	mm/m (max. deviation)	$2.0 \leq t < 6.0$	8.0 mm /m	
			$6.0 \leq t < 10.0$	5.0 mm /m	
			$10.0 \leq t$	3.0 mm /m	
<b>General Requirements</b>					
Resistance to surface wear	EN 438-2:10	Revolutions (min.)	Initial Point		150
Resistance to immersion in boiling water	EN 438-2:12	Appearance, rating (min.)	All finishes		4
		Mass increase % (max)	$2.0 \leq t < 5.0$	5.0	7.0
			$t \geq 5.0$	2.0	3.0
		Thickness increase % (max)	$2.0 \leq t < 5.0$	6.0	9.0
			$t \geq 5.0$	2.0	6.0
Edge, rating ( min)		All thickness		3	3
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)	All finishes		4
Resistance to dry heat (160 °C)	EN 438-2:16	Appearance, rating (min.)	All finishes		4
Dimensional stability at elevated temperature	EN 438-2:17	Cumulative dimensional change % (max.)	$2.0 \leq t < 5.0$ Longitudinal		0.40
			$2.0 \leq t < 5.0$ Transversal		0.80
			$t \geq 5.0$ Longitudinal		0.30
			$t \geq 5.0$ Transversa		0.60
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)	All finishes I		4

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PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		CGS	CGF
Resistance to impact by small diameter ball	EN 438-2:21	Drop height, mm (min.)	$2.0 \leq t < 6.0$		1400
			$t \geq 6.0$		1800
Resistance to crazing	EN 438-2:24	Appearance (min.)	Grade		4
Resistance to scratching	EN 438-2:25	Force, rating (min.)	Smooth / textured finishes		2 / 3
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
Flexural Modulus	EN ISO 178	Stress, MPa (min.)	Longitudinal & Transversal		9000
Flexural Strength	EN ISO 178	Stress, MPa (min.)	Longitudinal & Transversal		80
Density	EN ISO 1183-1	Density, g/cm <sup>3</sup> (min.)			1.35

### Typical EN 13501-1 classifications of Compacts in the field of building construction

In Europe, laminate panels intended for construction applications are tested in accordance with EN 13823 [1] (SBI test) and EN ISO 11925-2 [2] (Small-burner test), and the resulting reaction-to-fire performance is expressed in accordance with EN 13501-1

CGF $\geq$ 6mm	B-s2,d0 or better
CGF < 6mm	C-s2,d0 or better
CGS	D-s2,d0 or better

### Additional requirements for reaction to fire - Type F Compacts

For applications other than construction, test methods and specifications can vary from one country to another. Below some examples of how Compacts typically relate to some of the more common European test methods.

Railways applications	EN 45545-2	R1 requirements	HL2
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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.

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

