

SURFORMA® COMPACT DIGITAL

Compact for decorative solutions

DESCRIPTION

SURFORMA® Compact Digital is a decorative high-pressure material that can be customized.

The decorative Compact 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 product meet the stringent requirements for hygiene, fire resistance, humidity resistance and mechanical properties. The surface of the Compact is antibacterial, validated accordingly to Japanese regulation JIS Z 2801.

White and Grey core are fire resistant (B-s2,d0)

SURFORMA® Compact Digital are available in a variety of images and surface textures, providing extensive options for architects and designers.

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

PROPERTIES



LOW EMISSIONS



ABRASION RESISTANT



DURABILITY



EASY TO CLEAN



STAIN RESISTANT



SCRATCH RESISTANT



VERSABILITY



ANTI-STATIC



LIGHT RESISTANT



DIMENSIONAL STABILITY

APPLICATIONS

Decors, photographs, logos, graphs and other images, transformed into SURFORMA® Compact Digital allow for complete customization in interior design and in public spaces, both commercial and private.

SURFORMA® Compacts are intended for applications to interior 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 and various self-supporting components in construction and transport industries.



FOR PANELING



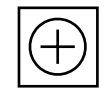
SPORTS & LEISURE



RESTAURANTS & HOTELS



BATHROOMS



HEALTHCARE & LABORATORIES



KITCHENS



OFFICES & EDUCATION



RETAIL & EXHIBITIONS



HEALTH & WELLNESS

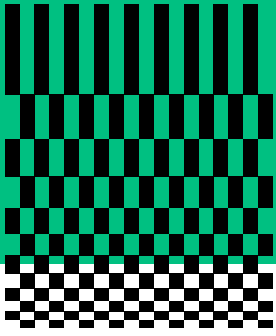
RECOMMENDATIONS

The SURFORMA® Compact should be stored so they are protected from moisture, humidity and direct sunlight. The laminates should preferably be store flat in horizontal racks.

The SURFORMA® Compact, 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.

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

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

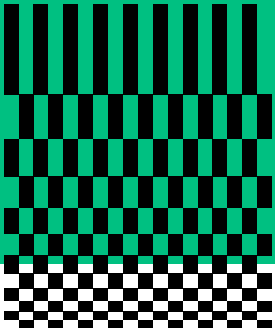


SURFORMA® COMPACT DIGITAL

Compact for decorative solutions

GENERAL FEATURES

PROPERTIES	TEST MEHOD	UNIT (MAX OR MIN)	DIGITAL CGS	DIGITAL CGF	
Dimensional tolerance requirements (EN 438-2:2016, Clause No.)					
Thickness	EN 438-2:5	mm (max. variation)	$2.0 \leq t < 3.0$	± 0.20	
			$3.0 \leq t < 5.0$	± 0.30	
			$5.0 \leq t < 8.0$	± 0.40	
			$8.0 \leq t < 12.0$	± 0.50	
			$12.0 \leq t < 16.0$	± 0.60	
			$16.0 \leq t < 20.0$	± 0.70	
			$20.0 \leq t \leq 25.0$	± 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	
			$t \geq 10.0$	3.0 mm /m	
General Requirements					
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.)			
		Surface	All finishes	4	
		Edge	All thicknesses	3	
		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		
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)	$2.0 \leq t < 5.0$ Longitudinal	0.40	
			$2.0 \leq t < 5.0$ Transversal	0.80	
			$t \geq 5.0$ Longitudinal	0.30	
			$t \geq 5.0$ Transversal	0.60	
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)	All finishes	4	



SURFORMA® COMPACT DIGITAL

Compact for decorative solutions

PROPERTIES	TEST MEHOD	UNIT (MAX OR MIN)		DIGITAL CGS	DIGITAL CGF
Resistance to impact by large diameter ball	EN 438-2:21	Drop height, mm (min.)	$20 \leq t < 60$		1400
			$t \geq 60$		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 ³ (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 ≥ 6 mm	B-s1,d0 (required 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

Smoke density and toxicity	NF F 16-101	Typical performance level	F2 or better Depending on the application and on the vehicle category
Railways applications	EN 45545-2	Typical performance level	
Transport applications	Directive 95/28/EC	Typical performance level	

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.

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

