

## SURFORMA® SANDWICH PANELS

Wood based panels with surface on both sides

### DESCRIPTION

SURFORMA®'s Sandwich Panels are wood based panels, surfaced on both sides by SURFORMA®'s decorative laminates.

Particleboard Standard grade low formaldehyde emission Class E1, surfaced with decorative SURFORMA® laminates, type General, Metallic or Ultra Smooth grade. The surface of the laminate is antibacterial, validated accordingly to Japanese regulation JIS Z 2801.

SURFORMA® Sandwich Panels are available in a variety of colors, patterns and surface textures, providing extensive options for architects and designers.

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

### APPLICATIONS

Due to their functionality, SURFORMA® Sandwich Panels are suitable to domestic and public spaces with medium and heavy use such as shops, schools, hotels, hospitals, airports or train stations.

They are also suitable to horizontal and vertical applications, such as furniture, cabinets, doors, walls and shopfitting solutions.



FOR PANELING



OFFICES & EDUCATION



RESTAURANTS & HOTELS



RETAIL & EXHIBITIONS



KITCHENS



DOORS



ROOMS

### PROPERTIES



ABRASION RESISTANT



VERSABILITY



DURABILITY



SCRATCH RESISTANT



DIMENSIONAL STABILITY



EASY TO CLEAN



STAIN RESISTANT

### RECOMMENDATIONS

SURFORMA® Sandwich Panels should be stored so that they are protected from moisture, humidity and direct sunlight.

They should be applied Horizontally and stored flat in enclosed and dry areas (approximately 20°C and 55 to 65% relative humidity) to exclude warping or dimensional changes due to climatic conditions. Vertical storage is not recommended. To avoid damage during storage, appropriate racking systems should be used. Worktops should be handled and transported with due care.

SURFORMA® Sandwich Panels require no special maintenance because of their durable, hygienic and waterproof surface. 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.

Sandwich Panels can be processed with conventional woodworking machines.

These materials are classified as non-hazardous; no additional product description labels are needed. They are cured materials and chemically inert. REACH classification does not apply. They can be brought to controlled waste disposal sites according to current national and/or regional regulations.

## SURFORMA® SANDWICH PANELS

Wood based panels with surface on both sides

### GENERAL FEATURES – SURFACE HPL GENERAL GRADE

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		HGP / VGP
General Requirements (EN 438-2:2016, Clause n.º)				
Resistance to surface wear	EN 438-2:10	Revolutions (min.)	Initial Point	150/ 50
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
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)	All finishes	4
Resistance to impact by small diameter ball	EN 438-2:20	Spring force, N (min.)		20
Resistance to scratching	EN 438-2:25	Force (min.)	Smooth/ Textured finishes	2 / 3
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Group 1 e 2 / Group 3	5 / 4
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4 to 5

### GENERAL FEATURES – SURFACE HPL METALLIC

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		MTP
General Requirements (EN 438-2:2016, Clause n.º)				
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)		3
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)		4
Resistance to impact by small diameter ball	EN 438-2:20	Spring force, N (min.)		20
Resistance to scratching	EN 438-2:25	Force (min.)		1
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Group 1 e 2 / Group 3	4
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4

## SURFORMA® SANDWICH PANELS

Wood based panels with surface on both sides

### GENERAL FEATURES – SURFACE HPL ULTRA SMOOTH

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		AF
General Requirements (EN 438-2:2016, Clause n.º)				
Resistance to surface wear	EN 438-2:10	Revolutions (min.)	Decorative coating	50
		Initial Point	Average	250
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)		4
Resistance to dry heat (160 °C)	EN 438-2:16	Appearance, rating (min.)		4
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)		4
Resistance to impact by small diameter ball	EN 438-2:20	Spring force, N (min.)		15
Resistance to scratching	EN 438-2:25	Force (min.)		2
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Group 1 e 2 / Group 3	5 / 4
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4

### GENERAL FEATURES – SUBSTRATE PARTICLEBOARD STANDARD P2 E1

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)	PB STANDARD
General Requirements			
Bending strength (1)/(2)	EN 310	N/mm <sup>2</sup>	11
Modulus of elasticity (mOe) (1)/(2)	EN 310	N/mm <sup>2</sup>	1.600
Internal Bond (1)	EN 319	N/mm <sup>2</sup>	< 0,35
Surface soundness (1)	EN 311	N/mm <sup>2</sup>	0,8
Moisture content (3)	EN 322	%	5 to 13
Density variation within the board	EN 323	%	± 10
Formaldehyde emission			E1

(1) All figures are average values

(2) In machine direction

(3) The value refers to moisture contents measured within five days after the date of production

## SURFORMA® SANDWICH PANELS

Wood based panels with surface on both sides

### GENERAL FEATURES – SANDWICH PANEL

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		SP
General Requirements				
Length Tolerance	EN 324-1	mm (max. variation)	L nominal	± 5
Width Tolerance	EN 324-1	mm (max. variation)	W nominal	± 1
Thickness Tolerance	EN 324-1	mm (max. variation)	T nominal	± 0,4
Squareness	EN 324-2	mm/m (max. deviation)		3
Flatness	EN 14323	mm/m (max. deviation)		3
Adhesive Durability	EN 204	Class		D4 , adhesive PUR

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. For more information about these properties, please refer to the corresponding Technical Datasheet.

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 (0519 EN)

The Company reserves the right to change specifications at any time without prior notification.

### CERTIFICATIONS

