

NOVODECOR® COMPACTS

Standard and Fire Retardant Compacts

DESCRIPTION

NOVODECOR® 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.

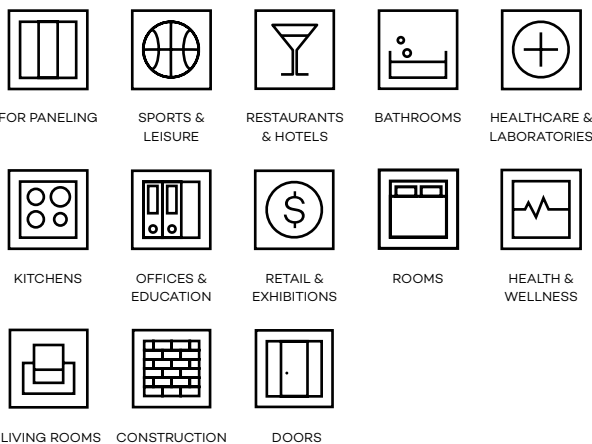
NOVODECOR® Compact materials are available in a variety of colours, patterns and surface textures, providing extensive options for architects and designers.

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

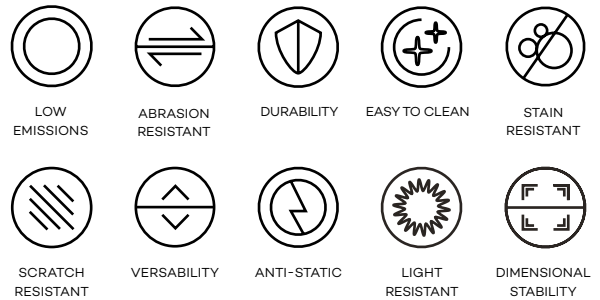
APPLICATIONS

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

NOVODECOR® 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



RECOMMENDATIONS

NOVODECOR® compacts should be stored properly so that they are protected from moisture, humidity and direct sunlight. The materials should be carried as described in the Material Safety Data Sheet and there is no need to apply preventive special measures. We recommend the use of specific gloves while handling NOVODECOR®'s Compact materials.

NOVODECOR® 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.

As Compact 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 to them.

NOVODECOR® Compacts 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	
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	
			$10.0 \leq t$	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.)	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 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 \geq 6mm	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 (railway rolling stock)	F2 or better
Railways applications	EN 45545-2	Typical performance level	Depending on the application and on the vehicle category
Transport applications	Directive 95/28/EC	Typical performance level	

NOVODECOR® Compacts 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 NOVODECOR® Compacts 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.