

**BIOCARBON<sup>®</sup>**  
**LAMINATES**

• BREATHING SUSTAINABILITY •



## TECHNICAL DATASHEET SOLID GRADE LAMINATES WASHROOM COLLECTION

### PROPERTIES

- A Carbon Neutral product
- The security of an Anti-Bacterial and Anti-Microbial surface
- Fire Retardant as standard to B-s1,d0 for  $\geq 10\text{mm}$
- Ease of maintenance
- Decorative on both sides
- Exceptional resistance to impact in high traffic areas and potential vandalism
- Good resistance to surface wear and staining etc
- Surface impervious to water
- Self-Supporting
- Information on Light Reflective Values and colour references can be provided and are available for most solid decors
- Available in a wide range of decors in colours, minerals, woods etc

### Key features



Carbon Neutral



Fire Performance



Anti-Bacterial and  
Anti-Microbial  
Protection



Easy to clean



High Resistance  
to Impact



Moisture Resistant

■ Standard Feature

### APPLICATIONS

- BioCarbon Solid Grade Laminates Washroom Collection provide the security of Anti-Microbial protection, and the ability to withstand high-traffic areas with heavy duty use.
- Hygiene sensitive areas and impact resistant properties are essential in Healthcare, Hospitality, Washrooms and Lockers, Commercial interiors, Leisure facilities, Retail, Educational, Transport and Auditoriums.
- Suitable for freestanding applications in Toilet Cubicles, Shower Cubicles, Vanity Tops, Lockers and IPS Panelling are just some of the many applications where Anti-Microbial protection would be important.

### AVAILABILITY

	SGL			
Thickness (mm)	10.0	12.5		
*Sheet sizes (mm)	3660 x 1530	2445 x 1850*	3660 x 1530	4900 x 1850*
Grade	FR as standard			
Finish	ES			

\*A few decors are supplied with an 1830mm width due to current available paper size, please contact us for clarification.

Other sheet sizes are available to order. When ordering FSC<sup>®</sup> certified materials please ensure this is requested on your purchase order as availability on FSC<sup>®</sup> certified material may vary.

### SAMPLES

To order samples please contact our UK Distributor  
Performance Panels Ltd.

+44 (0) 1422 310319

info@performance-panels.co.uk

www.performance-panels.co.uk

[www.biocarbonlaminates.com](http://www.biocarbonlaminates.com)

# BIOCARBON LAMINATES

## SGL TECHNICAL SPECIFICATIONS

TEST	STANDARD	FIELD	UNIT	BIOCARBON LAMINATES
Density	ISO 1183	Mass	g/cm <sup>3</sup>	≥ 1.35
Length and width	EN 438 2-6	Size	mm	+5/-0
Straightness of edges	EN 438 2-7	Plate	mm/m	≤ 1.5
Squareness	EN 438 2-8	Size	mm/m	≤ 1.5
	In-house Test	Size	mm	2445 x 1850mm* difference between diagonals ≤ 4.5 3660 x 1530mm difference between diagonals ≤ 6 4900 x 1850mm* difference between diagonals ≤ 7.5
Resistance to surface wear	EN 438 2-10	Initial point	Cycles	300
		Final Wear	Cycles	600
		Appearance	Grade	≥ 4
Scratch resistance	EN 438 2-25	Unit	Grade/N	3/4N
Surface quality	EN 438 2-4	Stains, dirt, similar defects on the surface	mm <sup>2</sup> /m <sup>2</sup>	≤ 1
		Fibers, hairs and stripes	mm/m <sup>2</sup>	≤ 20
Thickness	EN 438 2-5	5 ≤ e < 8		tol +/- 0.4
		8 ≤ e < 12	mm	tol +/- 0.5
		12 ≤ e < 13		tol +/- 0.6
Flatness	EN 438 2-9	10 ≤ e	mm/m	3
Resistance to boiling water immersion	EN 438 2-5	Increase gain	% e < 5.0mm	< 2
		Increase gain	% e > 5.0mm	< 2
		Thickness increase	% e < 5.0mm	< 2
		Thickness increase	% e > 5.0mm	< 2
		Bright finished appearance	Grade	≥ 3
		Appearance other finishes	Grade	≥ 4
		Appearance of edges	Grade	≥ 3
Electric resistance	EN 613140 4-1	RV (23°C / 50% RH)	Ohm	1 x 10 <sup>9</sup> - 1 x 10 <sup>11</sup>
High temperature dimensional stability	EN 438 2-17	Longitudinal	%	≤ 0.25
		Transversal	%	≤ 0.25
Impact Resistance (Large diameter ball)	EN 438 2-21	Indentation diameter	mm	≤ 8
Moisture resistance	EN 438 2-15	Increase gain	%	≤ 3
		Appearance	Grade	≥ 4
Screw retention	ISO 13894-1	10mm thickness	N	≥ 3000
		12.5mm thickness	N	≥ 3000
Resistance to the climatic shock	EN 438 2-19	Flexural strength index	Index	1.02
		Flexion module index	Index	0.97
		Appearance	Grade	5
Lineal thermal expansion	ASTM D 696	Dimensional Variation	°K <sup>-1</sup>	L = 1.6 x 10 <sup>-5</sup> T = 3.4 x 10 <sup>-5</sup>
Cracking susceptibility	EN 438 2-24	Appearance	Grade	≥ 4
Resistance to light (Xenon arch lamp)	EN 438 2-27	Contrast (Grayscale)	Grade	≥ 4
Modulus of elasticity	EN ISO178	Longitudinal	Mpa	≥ 12000
		Transversal	Mpa	≥ 12000
Flexural strength	EN ISO178	Longitudinal	Mpa	≥ 133
		Transversal	Mpa	≥ 133
Tensile strength	EN ISO527-2	Longitudinal	Mpa	> 70
		Transversal	Mpa	> 70
Reaction to fire	ASTM E84 EN 13501-1	Rating	Class - thickness ≥ 10mm	Fire Rated Compact A Fire Rated Compact B-s1, d0
Formaldehyde emissions	EN 438-7:2015 EN 717-2	Rating	Class	E1
Thermal conductivity	EN 12664 : 2001	Thermal conductivity	W/mK	0.3≤
Resistance to dry heat (160°C/320 °F)	EN 438 2-16	Appearance	Grade	≥ 4
Moist heat resistance (100°C/212 °F)	EN 438 2-18	Appearance	Grade	≥ 4
Resistance to stains	EN 438 2-26	Appearance group 1-2		5
		Appearance group 3	Grade	≥ 4