

ASD Antibacterial Compact & Laminates





Introducing

ASD Antibacterial

Hygienic | Safe & Durable | Easy to Clean | Easy to Maintain

ASD Antibacterial surfaces may repel or resist the initial attachment of bacteria by either exhibiting an antibiofouling affect or by inactivating any cells coming into contact with the surface, causing cell death, therefore exhibiting a bactericidal effect.



Why is it important?

Infections by pathogenic microorganisms present a serious concern for our health, as such infections kill more people than any other cause. Surfaces are continually at risk of becoming contaminated with harmful microorganisms and, therefore, it is a hazard to humans itself because of the potential for it to pass on these disease-causing microorganisms.

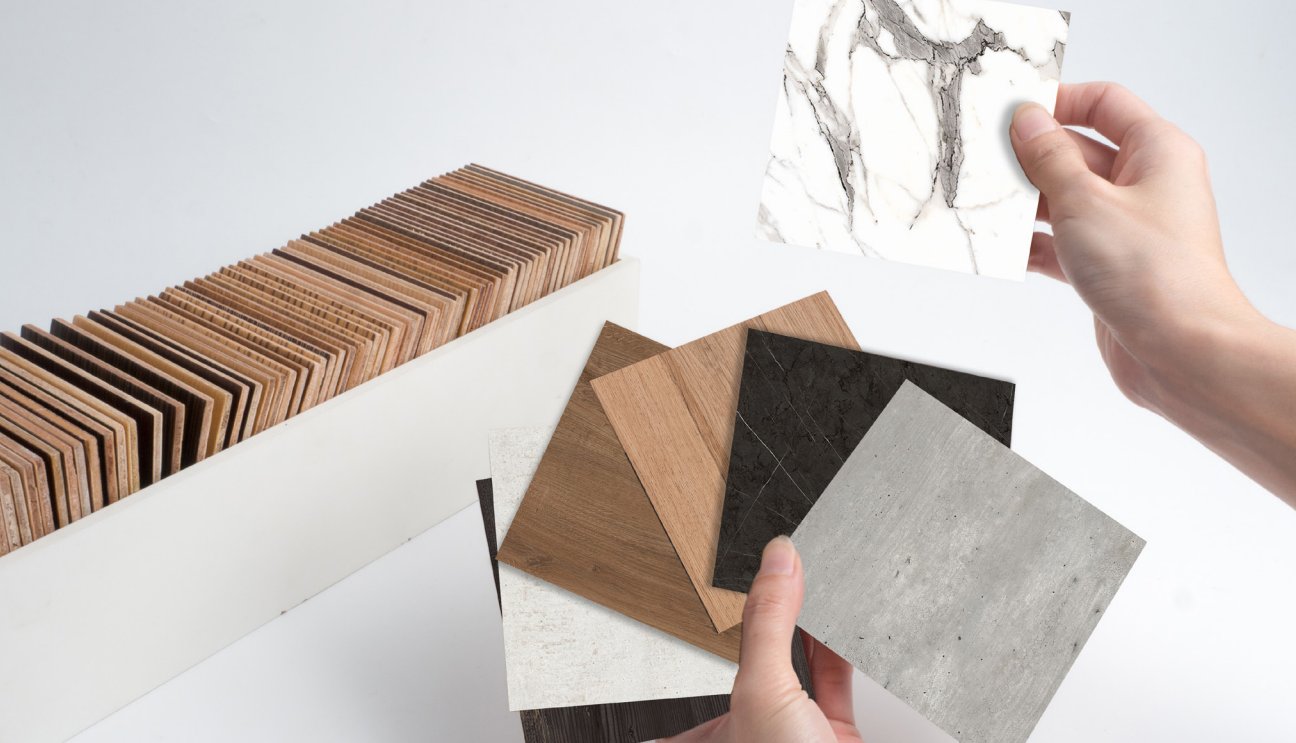
The world has long experienced the impact of surface fouling with biofilms, not only in economic terms, but also, importantly, the adverse effect that biofilms can have with regard to public health.

Technology

Antibacterial Technology is effective against a broad spectrum of harmful bacteria including E. Coli and MRSA (Methicillin Resistant Staphylococcus Aureus); Antimicrobial Technology minimizes the presence of bacteria, mold and fungi. Antimicrobial substances offer a greater level of product protection by continuously inhibiting the growth of microbes on the surface for a very long time. This broad spectrum performance of antimicrobial substances make the product perfect for use in hygiene and critical environments like Schools, Hospitals, Commercial Kitchens, etc.



ASD Antibacterial quality offers antimicrobial and antifungal protection, reducing of microbes on the surface up to 99.9%



Formats

Laminate & Compact Laminate

1000 mm x 2150 mm 3.28 ft x 7.05 ft	1220 mm x 2440 mm 4 ft x 8 ft	1300 mm x 3050 mm 4.27 ft x 10 ft	1300 mm x 3660 mm 4.27 ft x 12 ft
1400 mm x 3660 mm 4.60 ft x 12 ft	1400 mm x 4200 mm 4.60 ft x 13.78 ft	1540 mm x 3660 mm 5 ft x 12 ft	1600 mm x 4200 mm 5.25 ft x 10.5 ft
1300 mm x Any 4.27 ft x Any	1400 mm x Any 4.60 ft x Any		

Finishes

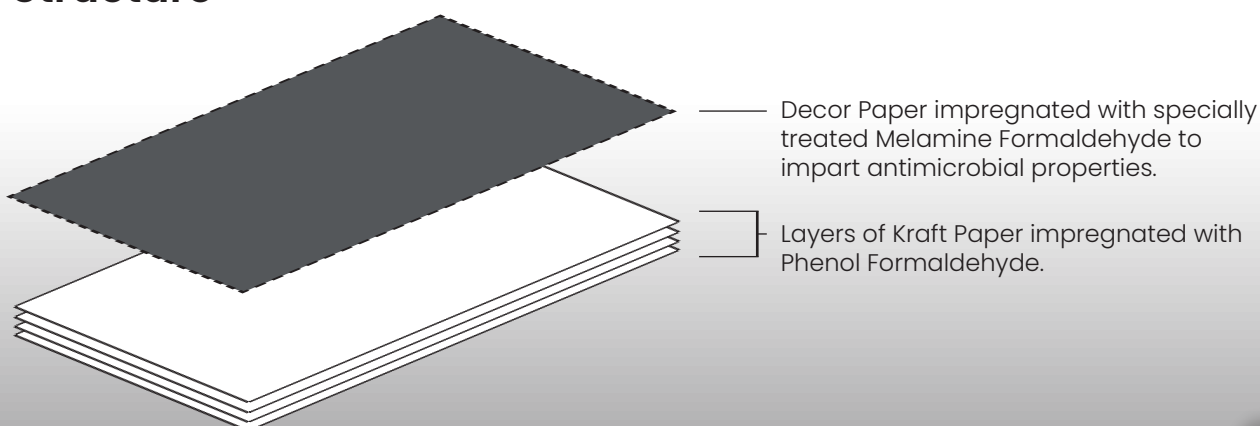
ASD Antibacterial Greade is available in over 30+ finishes.

Standards

EN 438.3 (for thin laminate) & EN 438.4 (for compact laminate)

Antibacterial is a grade tested in accordance to **ISO 22196:2011 (JIS Z 2801:2000)**. The surface of Antibacterial is immune to accommodating bacterias up to 99.9%. Antibacterial is also tested and certified in accordance **EN 1186 & EN 13130** Food Contact Materials.

Structure



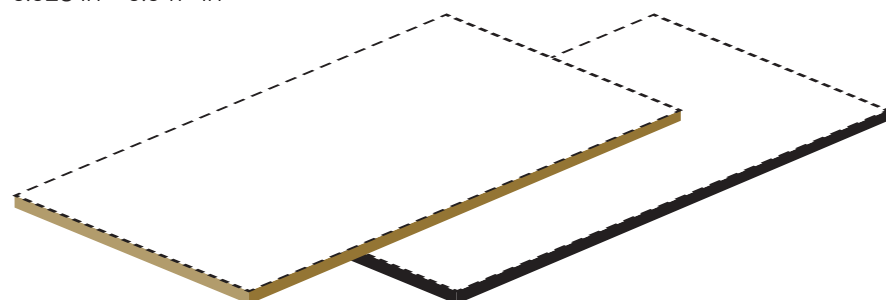


Thicknesses

Laminate

0,5 mm < 2,00 mm

0.028 in - 0.047 in



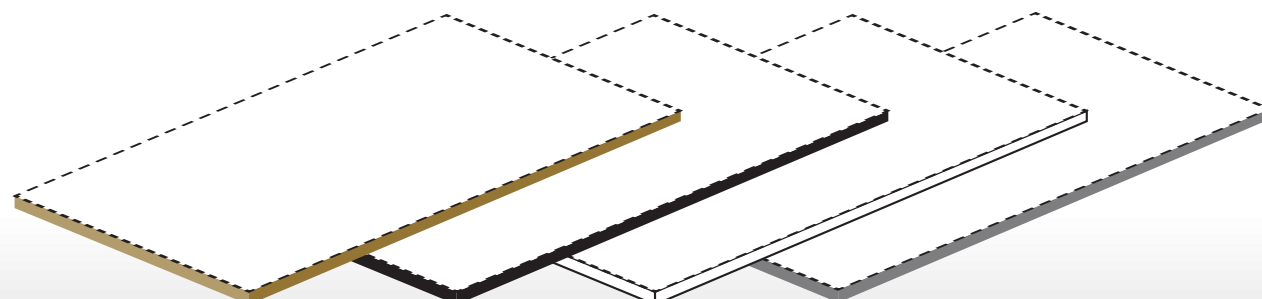
Brown
Core

Black
Core

Compact Laminate

2,0 mm - 20 mm

0.079 in - 0.787 in



Brown
Core

Black
Core

White
Core

Gray
Core

For sizes different from standard, please contact your local ASD Laminat representative.



Product Features

Antibacterial & Antimicrobial



Holds the Dual Technology of Antibacterial & Antimicrobial properties reducing harmful bacteria and microbes up to 99.9%.

Antifungal



Resistant to fungal colonization.

Approved for Food Contact



Reduces the chances of contaminating safe food during preparation, storage, and service by removing bacteria and other microorganisms.

Easy to Clean



Suitable for frequent cleaning and sanitization needs.

High Resistance to Impact



Safe, durable and effective in high traffic environments.

Moisture Resistant



Maintains dimensional stability when exposed to high humidity.

Typical Applications

ASD Antibacterial is mostly preferred in areas where bacteria or other microorganisms can spread rapidly or there is a certain risk of contamination and contagion. Designing ASD Antibacterial surfaces has become extremely important to minimize infections associated with direct contact in medical, educational, commercial and leisure environments which are a major cause of serious health problems.

Healthcare Facilities

Laboratories

Kitchens & Bathrooms

Restrooms, Lounges and Storage Rooms

Restaurants and Catering Areas

Offices & Public Buildings

Schools and Day Care Centers

ASD Antibacterial

Technical Data Sheet

Properties	Test Method	Property or Attribute	Unit (max or min)	Values	
				HGS – HGP	VGS – VGP
SURFACE QUALITY					
Surface Quality	EN-438-3	Spots, dirt and similar surface defects	mm²/m²	≤1	
		Fibres, hairs and scratches	mm²/m²	≤10	
DIMENSIONAL TOLERANCES					
Dimensional Tolerances	EN 438-2.5	Thickness tolerance	mm	0,5≤t<1,0mm:±0,10 mm 1,0<t<2.0 mm:±/-0,15 mm	
	EN 438-2.6	Length and width (b)	mm	+10/-0	
	EN 438-2.7	Straightness of edges (b)	mm/m	≤1,5	
	EN 438-2.8	Squareness	mm/m	≤1,5	
	EN 438-2.9	Flatness (a)	mm/m	60	
GENERAL PROPERTIES					
Resistance to surface wear	EN 438-2.10	Initial Point	Revolutions	≥ 150	≥50
		Wear Value	Revolutions	≥ 350	≥150
Resistance to immersion in boiling water	EN 438-2.12	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to water vapor	EN 438-2.14	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to dry heat (160°C)	EN 438-2.16	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to wet heat (100°C)	EN 12721	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change	Longitudinal (%)	≤ 0,55	≤ 0,75
		Cumulative dimensional change	Transversal (%)	≤ 1,05	≤ 1,25
Resistance to impact with small diameter ball	EN 438-2.20	Spring Force	N	≥ 20	≥ 15
Resistance to impact with large diameter ball	EN 438-2.21	Drop height	mm	≥ 800	≥ 600
		Indentation diameter	mm	≤ 10	≤ 10
Resistance to cracking under stress	EN 438-2.23	Appearance	Rating (min)	4	
Resistance to scratching	EN 438-2.25	Appearance	Rating (min)	3	2
Resistance to staining	EN 438-2.26	Appearance-Group 1&2	Rating (min)	5	
		Appearance-Group 3	Rating (min)	4	
Light fastness (Xenon-arc)	EN 438-2.27	Contrast	Grey scale rating	4-5	
Formability (HGP – VGP)	EN 438-2.31-32	Radius	L(parallel to fibre direction) mm	≤ 10 x laminate nominal thickness	
		Radius	T (right angles to fibre direction) mm	≤ 20 x laminate nominal thickness	
Resistance to blistering	EN 438-2.33-34	Time to blister	Seconds-nominal thickness<0,8mm	≥ 10	
		Time to blister	Seconds-nominal thickness≥0,8mm	≥ 15	
Density	EN ISO 1183	Density	g / cm3 (min)	≥1,35	
Formaldehyde emission	EN 717-2	Gas analysis	mg/(m²*h)	0,5	
		Classification	Rating	E1	
Resistance to bacteria	ISO 22196/JIS 2808:2007	Reduced bacteria	%	E.coli %99 Staphylococcus %99	

(a): Provided that the laminates are stored in the manner and conditions recommended by the manufacturer the shall comply with the flatness requirements specified in Table 4 when measured in accordance with EN 438-2 Clause 9.

(b):Tolerances for cut – to – size panels shall be agreed between supplier and purchaser.

Disclaimer

Due to variations in the photographic and printing processes the colours shown may vary compared to the actual product. It is recommended that actual product samples and or retailer displays are viewed prior to purchase. ASD Laminat A.S. reserves the right to amend the specification of the products shown without prior notice.



About ASD Laminat

ASD Laminat is a world-leading decorative laminate manufacturer supplying sustainable and contemporary architectural solutions to its partners across the globe in **65+** countries with a production line consisting of 5 Impregnation, 5 High Pressure Laminate, 3 Continuous High Pressure Laminate lines, and Resin Reactors all in all with an annual production capacity of **35,000,000 m² | 377,000,000 ft²** of decorative laminate offering one of the foremost comprehensive and extensive decor & design, product, grade and finish collections within the entire global industry.

Sustainability

We believe in being the change ourselves that we would like to see in the world. Therefore, we believe in living in harmony with our planet, not off of it. Over the many years, sustainability has become an essential part of who we are, we strive to take good care of our planet. We believe in absolute minimum waste and complete, controlled and sustainable protection of our beautiful nature. ASD Laminat sheets and panels do not contain biocides, heavy metals, organic halogen, chlorine, fluorine, bromine, asbestos, wood protection agents such as fungicides, pesticides and are free of sulfur, mercury, and cadmium. Neither do ASD Laminat sheets and panels release any gases, vapors, solvents or fluids.

Roughly 70% of ASD Laminat sheets and panels consist of natural wood. We source raw materials from FSC™ certified establishments. The FSC™ standards ensure that the wood is produced in compliance with internationally applicable regulations for sustainable forestry.



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