







The Holistic way of living









ABOUT US

For years Asia's leading brand of laminates, Greenlam has manufactured products which promise to perform beyond comparison. From developing technology to designs with superior functionality, Greenlam has always received appreciation from the industry and customers across the globe.

Backed by ISO 9001, ISO 14001, OHSAS 18001 awards for offering advanced product line along with world-class working systems, Greenlam has also received global recognitions, namely NEMA, BS and EN-438 for meeting rigid international standards. It has also received recognition with the prestigious GREENGUARD certification for producing eco-friendly and sustainable products.

And now Greenlam introduces
Safeguard Plus Anti Bacterial
Laminates, for the first time in India.
An exceptional laminate solution that
retards the growth of microbes with
utmost efficiency. This makes your
living space free from any kind of
germs, secure and hygienic, further
adding a spectacular look to the
overall decor."











BACTERIAL GROWTH The time bomb is ticking!

Bacteria is present everywhere. You can find them in the air, on food, plants and animals, in the soil, in the water, and on just about every other surface — including your own body. Bacterial growth is formidable adversaries because they're constantly mutating to breach your immune system's defenses. Knowing more about how germs work can increase your chances of avoiding infection. Many disease-causing bacteria produce toxins — powerful chemicals that damage cells and make you ill.

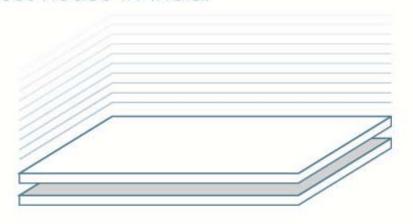
Have you ever realized how harmful they are? Don't you wish you were safeguarded against all bacterial growth for a 24*7 active lifestyle? Protecting your health and the health of those around you depends on many factors that may seem overwhelming when they are discussed at the same time. As with most life changes, practice will make it all seem simple. Now falling sick can be prevented with the solution that Greeniam Safeguard Plus Anti Bacterial Laminates bring to the world and make life seem that much nicer.

THE PRODUCT

Greenlam Safeguard Plus Anti Bacterial Laminates retard the growth of nearly 99% of common form of bacteria on any decorative surface. Greenlam Safeguard Plus Laminate surface is produced by permanently incorporating a US-EPA approved, well known and widely used anti microbial agent during the manufacturing. The anti microbial agent used for manufacturing these laminates is also a common ingredient in many cosmetics and oral hygiene products in everyday use.



Tested as per ASTM G-22 Standards, Greenlam Safeguard Plus Laminates retard the growth of the microbes with great efficiency. The testing was done by Shri Ram Institute for Industrial Research, New Delhi, an ISO - 9001 certified institute and an approved test house in India.



COMMON BACTERIA ERADICATED WHEN YOU USE GREENLAM SAFEGUARD PLUS LAMINATES IN YOUR INTERIORS:

Staphylococcus Aureus

Streptococcus Faecalis

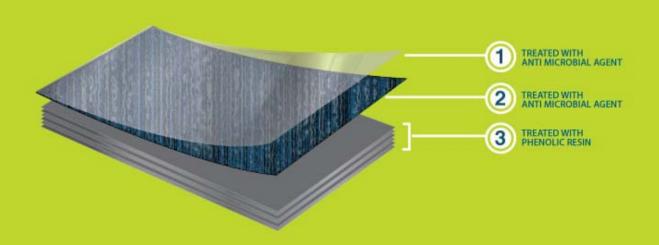
Escherichia Coli

Klebisella Pneumoniae

GREENLAM SAFEGUARD PLUS LAMINATE

Construction Technique

GREENLAM SAFEGUARD PLUS Anti Bacterial Laminates come in 1mm (Standard Grade) thickness.

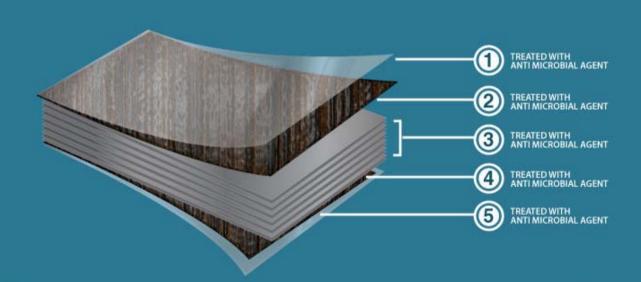


		STANDARD GRADE LAMINATE	GREENLAM SAFEGUARD PLUS LAMINATE
1	Top Layer Tissue Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti Microbial Agents
2	2nd Layer Decorative/Design Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti Microbial Agents
3	Rest Layers Kraft/Brown Paper	Treated with Phenolic Resin	Treated with Phenolic Resin

GREENLAM SAFEGUARD PLUS COMPACT LAMINATE

Construction Technique

GREENLAM SAFEGUARD PLUS Anti Bacterial Compact Grade Laminates come in a range of 4mm to 18mm thickness.



	COMPACT LAMINATE	GREENLAM SAFEGUARD PLUS COMPACT LAMINATE
Top Layer Tissue Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti Microbial Agents
2nd Layer Decorative/Design Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti Microbial Agents
Rest Layers Kraft/Brown Paper	Treated with Phenolic Resin	Treated with Phenolic Resin + High-efficiency Anti Microbial Agents
2nd Last Layer Decorative/Design Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti Microbial Agents
Bottom Layer Tissue Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti Microbial Agents
	Tissue Paper 2nd Layer Decorative/Design Paper Rest Layers Kraft/Brown Paper 2nd Last Layer Decorative/Design Paper Bottom Layer	Top Layer Tissue Paper 2nd Layer Decorative/Design Paper Rest Layers Kraft/Brown Paper 2nd Last Layer Decorative/Design Paper 2nd Last Layer Decorative/Design Paper Bottom Layer Treated with Melamine Resin only Treated with Melamine Resin only Treated with Melamine Resin only

OUR APPLICATION AREAS:



IN ALL OUR ACTIVITIES IN DAILY LIFE, WE STRIVE TO MAKE THE MINIMUM IMPACT ON THE ENVIRONMENT. WHERE IT IS UNAVOIDABLE, WE STRIVE TO REDUCE THE NEGATIVE EFFECTS AS MUCH AS POSSIBLE. IN THIS ENDEAVOUR, GREENLAM SAFEGUARD PLUS ANTI BACTERIAL LAMINATES PLAY A VITAL ROLE IN PROTECTING YOUR PERSONAL SPACE FROM ALL HARMFUL MICROBES AND BACTERIAL AGENTS AND ALSO IMPROVING THE DÉCOR.

THE ANTI BACTERIAL LAMINATES MAY BE USED IN ALL AREAS WHERE A LAMINATE IS APPLICABLE, ESPECIALLY:



Since bacteria can cause infections that cannot be seen, one can either ignore them or fear the illnesses they can cause. A more effective approach is to try to increase the ability of the human body to resist infection. Usage of Greenlam Safeguard Plus Laminates in hospitals and health care centres reduces the contact with bacteria and viruses, thus giving everyone complete protection from bacterial growth.









Many times, tables at restaurants are cleaned with dirty rags carrying all types of bad bacteria. Thus, the risk of transmission of bacteria from a person's hand to food increases greatly. Keeping food on the tables made of Greenlam Safeguard Plus Laminates reduces the risk of contamination and spreading of bacteria from one to the other.





Everyone tries to protect their kids from harmful and bad influences but the spread of bacteria cannot be stopped. Especially in schools, kids come in contact with bacteria on a daily basis. Because of that, they seem to be constantly spreading bacteria from one place to another. Greenlam Safeguard Plus Laminates when used on walls and cabinets as part of vertical application and on tables as horizontal application can retard the growth of bacteria to a large extent, thus keeping the environment bacteria-free.







Everyone uses public restroom at one time or another, usually at school, office, theatre, store or sporting event. And thousands of people visit these same restrooms. One can only imagine how many varieties of microbes are left by these users on doors, faucets, soap dispensers, towel dispensers, and toilet flushers. Greenlam Safeguard Plus Laminates when applied on walls as a part of vertical application help to counter bacteria at an amazing rate.









To clean the kitchen counters and sink, everyone uses a sponge or rag or a one-time wipe to make it all perfectly clean. But not everytime do they seem to yield the optimum results. Bacteria spreading in the kitchen are through hands that come in direct contact with the food or with the food kept exposed to the atmosphere. Only Greenlam Safeguard Plus Laminates can make kitchens bacteria and germs-free. These laminates come with a special quality that retards bacterial growth thus keeping a family healthy all the time.





Everyone encounters bacterial transmission in their daily lives. Greenlam Safeguard Plus Laminates are the best alternative to get protection from infection. Everyday, researchers and technologists work with harmful chemicals and reacting agents in the laboratory. An accidental spill of these agents may contaminate the hands which may soon pass and have a negative effect on the body. Using Greenlam Safeguard Plus Laminates on the surface of tables and walls in the laboratory will prove to be a big boon as it provides bacterial protection to the health in this particular surrounding.







Germs, including bacteria, are everywhere but they can be particularly concentrated where there are large amounts of people packed into close quarters, especially in public transports, stairs and corridors. This description practically defines public transportation across all environments, which is why it is so important to have a healthy immune system while traveling. When Greenlam Sateguard Plus Anti Bacterial Laminates are applied in these places, they prevent bacteria from multiplying, reducing chances of infection.

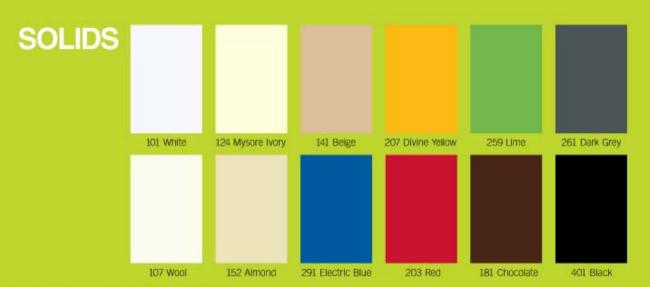




Range & Product Availability: STANDARD GRADE LAMINATE (1mm Thick)

ABSTRACT PATTERNS SIGNATURE SEMINATION OF THE PROPERTY OF TH





All designs here are available in Suede Finish unless mentioned.

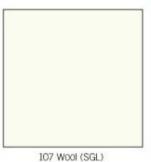
For actual color, pattern & finish refer live samples as due to printing limitations there might be slight variation.



FINISHES

SUPER GLOSS







SGL denotes Super Gloss Finish

WOODGRAINS



5026 Sulphur Spring 682 Hiland Pine





















738 Oak



5006 Thansau Maple







731 Wenge







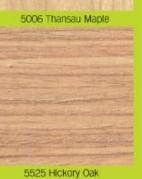
COMPACT GRADE LAMINATE OFFERS THICKNESS OF 4/6/9/12/18mm. OTHER THICKNESSES ALSO AVAILABLE ON SPECIAL REQUEST.

SIZES:

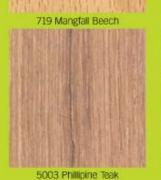
1830mmx1830mm	6ftx6ft
1830mmx3660mm	6ftx12ft

















5018 Brooks Walnut



749 Sapele 5061 Fine Wenge



[#] All designs here are available in Suede Finish unless mentioned. # For actual color, pattern & finish refer live samples as due to printing limitations there might be slight variation.

TECHNICAL SPECIFICATIONS

For your reference, technical specifications of our range of laminated panels are stated below:

Properties	Specified values as per IS: 2046 - 1995, Type S, HGS	Greenlam Safeguard Plus Conforms	
Thickness	1.00mm (± 0.10mm)	1	
Resistance to surface wear	350 (revolution)	1	
Resistance to immersion in boiling water - Mass increase (%) - Thickness increase (%) - Appearance	10.0 (Maximum) 11.8 (Maximum) Not worse than 4	ź	
Resistance to dry heat 180°C	Not worse than 4	1	
Dimensional stability at deviated temperature - Longitudinal (%) - Transverse (%)	0.55 (Maximum) 1.025 (Maximum)	4	
Dimensional stability at 20°C - Longitudinal (%) - Transverse (%)	0.375 (Maximum) 0.60 (Maximum)	4	
Resistance to impact by small diameter ball	20 N (Minimum)	1	
Resistance to cracking	Not worse than 4	/	
Resistance to scratching	2 N (Minimum)	1	
Resistance to staining	Not worse than 5	1	
Resistance to colour change (wool standards) - In Xenon arc light - In enclosed Carbon arc light	Not worse than 6 Not worse than 5	4	
Resistance to cigarette burns	Not worse than 3	1	
Resistance to steam	Not worse than 4	1	
Appearance	Should be free from foreign particles	1	

Greenply warrants that all its products are free from manufacturing defects and perfectly fit for use under normal conditions. In case of any claims, the liability of the company is however limited to the cost of the product only.

Note: The samples shown here are only indicative of the colour patterns and finishes available.

· Greenalm Safeguard Plus is available in 1.00mm thickness

COMPACT LAMINATE - CGS

TECHNICAL SPECIFICATIONS FOR GREENLAM (TYPE CGS) - 12MM

S.NO.	PROPERTIES	UNIT	SPECIFIED VALUES NEMA LD 3-2005	GREENLAM SAFEGUARD PLUS TYPICAL VALUE
1	Thickness	mm	12.00 ± 0.60	12.00 ± 0.40
2	Appearance		No ABC def.	No ABC def.
3	Straightness	mm/meter (Max.)	1.5	1.2
4.	Diagonal difference	mm (Max.)	.6	3
5	Warpage a) Single side decorative surface b) Double side decorative surface	mm (Max.) mm (Max.)	120 12	40 6
6	Light resistance	Rating (Min.)	Slight effect	Slight effect
7	Cleanability	Rating (Max.)	20	10
8	Stain a) Reagents 1 - 10 b) Reagents 11 - 15	Rating (Min.)	No effect Moderate effect	No effect Slight effect
9	Boilling water resistance	Rating (Min.)	No effect	No effect
10	High temperature resistance	Rating	Slight effect	No effect
11	Ball impact resistance	mm (in) (Min.)	1900 (75*)	2540 (100*)
12	Radiant heat resistance coil method	Sec (Min.)	200	250
	Dimensional change a) Machine direction b) Cross direction	% (Max.) % (Max.)	0.3 0.7	0.15 0.30
14	Room temprature dimensional stability a) Machine direction b) Cross direction	% (Max.) % (Max.)	0.3 0.7	0.10 0.20
15	Wear resistance	Cycles (Min.)	400	Plains - 400-500 Prints - 700
16	Flexural strength a) Machine direction b) Cross direction	Mpa (Min.) (MD) Mpa (Min.) (CD)	124 82.7	130 85
17	Flexural modulus a) Machine direction b) Cross direction	Mpa (Min.) (MD) Mpa (Min.) (CD)	11000 9650	11500 10000
18	Tensile strength a) Machine direction b) Cross direction	Mpa (Min.) (MD) Mpa (Min.) (CD)	124 82.7	135 90

Other thicknesses also available as per requirement.

ANTI BACTERIAL TEST PROPERTIES:

DESCRIPTION OF TEST	TEST RESULTS OF GREENLAM SAFE GUARD PLUS LAMINATES	
TEST PROTOCOL	ASTM G 22	
RESISTANCE TO BACTERIA	NO BACTERIAL GROWTH	
SUSCEPTIBILITY TO BACTERIA	NO SURFACE CONTAMINATION BY THE FOLLOWING BACTERIA: STAPHYLOCOCCUS AUREUS STREPTOCOCCUS FAECALIS ESCHERICHIA COLI KLEBSIELLA PNEUMONIAE	

GREENPLY INDUSTRIES LIMITED

Decorative Division 1501-1505, Narain Manzil, 23, Barakhamba Road, New Delhi-110001, INDIA

Tel: (91) 11 4279 1300

E-mail: decosales@greenply.com

Website: www.greenply.com, www.greenalc.com

Green DESIGN STUDIO

Laminate & Veneer Experience Center

BANGALORE

Green Design Studio 142, 1st Main Road, Sheshadripuram Bangalore – 560020 Tel: 080-23317084/23445729

BHATINDA

Green Design Studio Sham Plywood Amrik Singh Road, Bhatinda Tel 9888903801

BHOPAL

Green Design Studio Guru Kripa Complex Shop No. 8, Ground Floor M. P. Nagar, Zohe – II Bhopal Tel. 0755-2550574

CHANDIGARH

Green Design Studio SCO-2943-44 Sec-22C, Chandigarh, Tel: 0172-2703586

ERODE

Green Design Studio No. 46, Perundurai Road Palayapalayam, Erode-63801 Tel: 9750577770/71

GANGTOK

Green Design Studio Pani House, National Highway 31 A. Gangtok, Sikkim-737101 Tel: 03592-645503

KOLKATA

Green Design Studio Sree Ram Nagar, Shop No.9, Teoghoria, Kolkata-700052. Tel. 033-24868914/ 24868915

LUDHIANA

Green Design Studio Shop No. 343, Bus Stand Road Bharat Nagar Chowk, Ludhiana. Tel: 0161-2770380

NOIDA

Green Design Studio E-102-103 Sector – 9, Noida Ultar Pradesh – 201301, Tel: 0120-4315310/4211818

RAIPUR

3reen Design Studio //jay Motors. Central College Building -aladih, Raipur, Chattisgarh-192009. [e] 98271979008

INTERNATIONAL OFFICES

CHINA: Greenlam Asia Pacific Pte Ltd.
HONG KONG: Greenlam Asia Pacific Pte Ltd.
INDIA: Greenply Industries Ltd.
INDONESIA: Greenlam Asia Pacific Pte Ltd.
INDONESIA: Greenlam Asia Pacific Pte Ltd.
MALAYSIA EAST: Greenlam Asia Pacific Pte Ltd.
MALAYSIA WEST: Greenlam Asia Pacific Pte Ltd.
SINGAPORE: Greenlam Asia Pacific Pte Ltd.
TAIWAN: Greenlam Asia Pacific Pte Ltd.
THAILAND: Greenlam Asia Pacific (Thailand) Co. Ltd.
THE NETHERLANDS: Greenlam Europe
UAE: Greenply Industries Ltd.
USA: Greenlam America Inc.

DOMESTIC BRANCHES

SURAT: 09909983390 THANE: 022-40244375 VIJAYWADA: 0866-2523135

AMMEDABAD: 079-26640244/ 26642880
BANGALORE: 080-22118721/ 22118722
BHUBANESHWAR: 0674-2384230
CHANDIGARH: 0172-5073185/ 09779450511
CHENNAI: 044-42822672/ 42822673
COIMBATORE: 042-4370407/ 2474002
DELHI: 011-45901300
GHAZIABAD: 0120-4131561/ 09717596741
GURGAON: 0124-4221720/ 4146634
GUWAHATI: 0361-2733306
HYDERABAD: 080-24801429/ 32901429
INDORE: 0731-4230297/ 4206153
JAIPUR: 0141-4039612/ 2281747
KOCHI: 0184-2531598
KOLKATA: 09748743203
LUCKNOW: 0522-4000475
MUMBAI: 022-29152803/ 26125204
NAGPUR: 0712-2421129/ 3296859/ 2420607
NASHIK: 0250-2318110/ 16
PATNA: 0612-6450235/ 6450224
PUNE: 020-26129507
RAIPUR: 0771-6460849
RANCHI: 099034314471/ 09934314472
ROHTAK: 01262-239502/ 099969999611
SILIGURI: 09800860655









