



Greenlam

AFOX

ANTI FINGERPRINT SURFACES



TRUE BEAUTY STAYS SPOTLESS

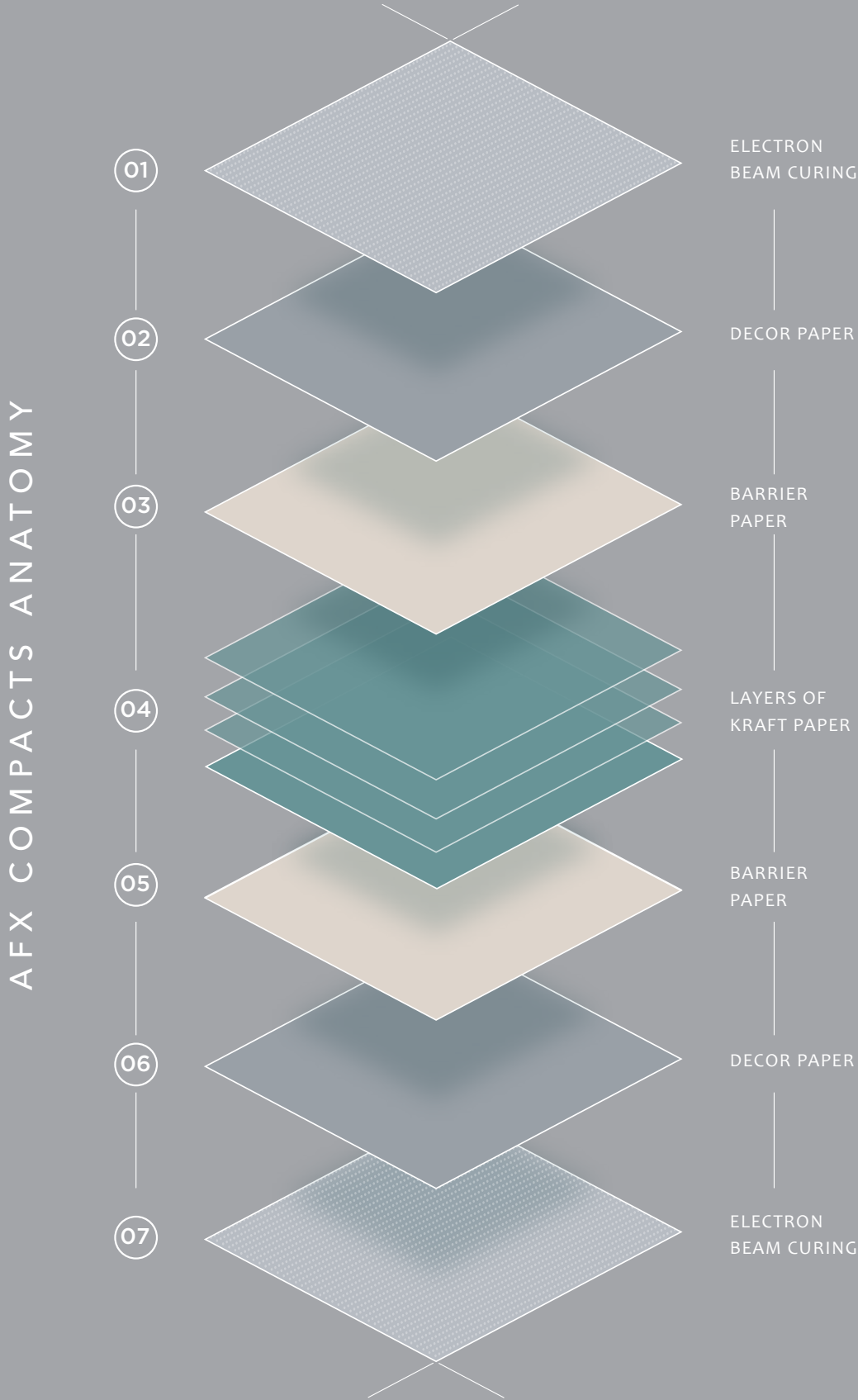
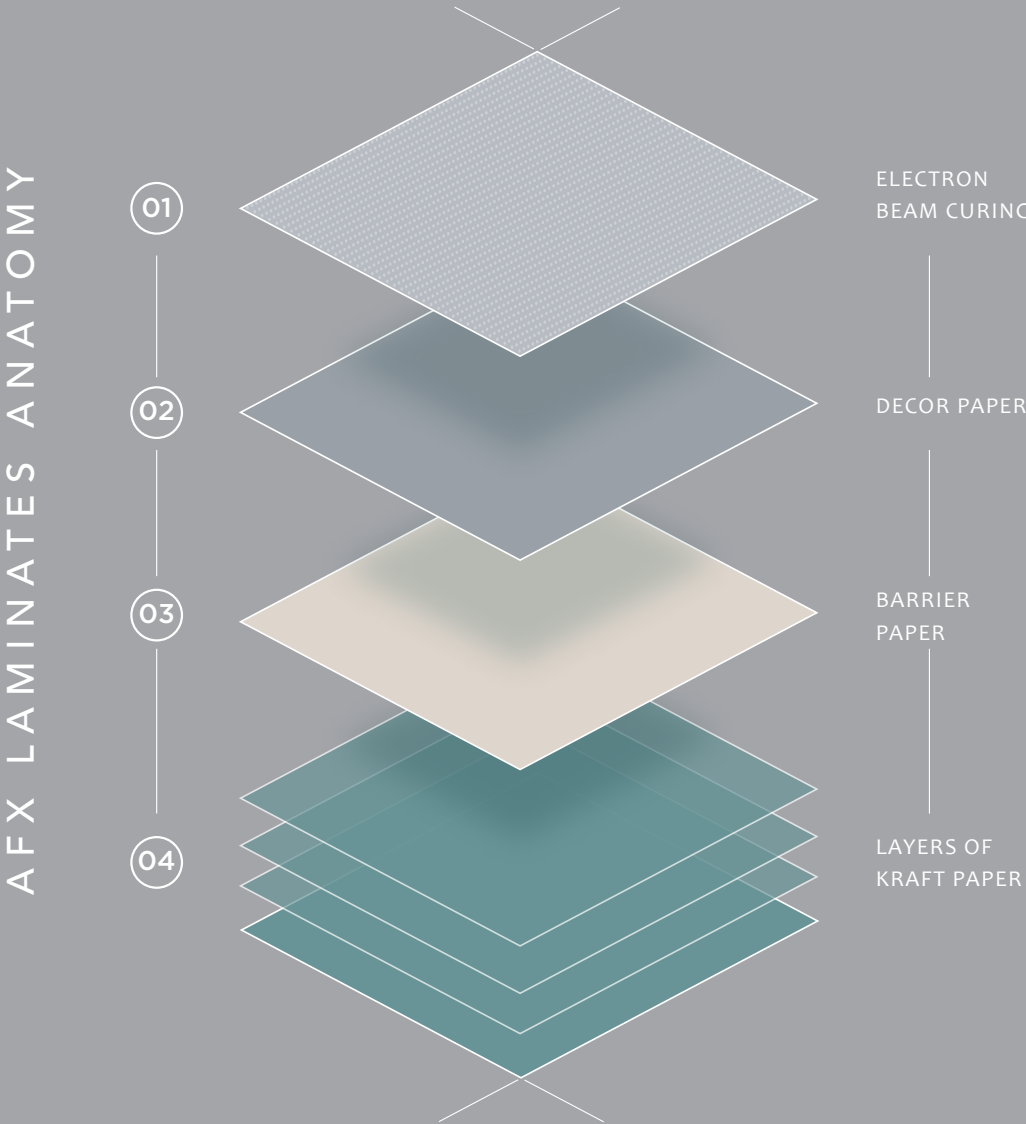
True beauty by nature and design is timeless. Its charm always stays the same. Inspired by this very idea of beauty, Greenlam created a surface that is beautiful enough to leave an indelible mark on its admirers without letting any mark settle on it and ruin its beauty.

The pursuit of creating this unique surface led to the revolutionary Greenlam AFX, the ultra matt compacts and laminates. They look so beautiful you cannot resist touching them. Touch all you want because the craftsmanship that leaves a lasting impression ensures no fingerprint mark spoils their beauty. But there is more to this ultra matt surface than just being fingerprint-resistant. These compacts and laminates are anti-bacterial, anti-virus, hydro-, mould-, and scratch-resistant too – which means they are easy to maintain. Now that is redefining interior surfaces. And that is what sets Greenlam AFX apart from the rest.

A NEW BENCHMARK IN SURFACE TECHNOLOGY

Much has been said about what makes Greenlam AFX surfaces so impressive. Let’s understand the technology behind this super smooth, ultra matt surface. Its state-of-the-art technique of EBC (Electron Beam Curing) ensures the surface is non-porous. The special treated decorative surface is then compressed with Kraft Paper under high temperature and pressure to create Greenlam AFX. Its non-porous, thermal healing top surface rejects the reflection of light and thus brings you an ultra matt, anti-fingerprint surface.

Take a more detailed look at the construction behind our pioneering new AFX Laminate and Compacts.



F E A T U R E S T H A T M A K E T H E D I F F E R E N C E

It's the end of sore sights of fingerprints and wiping the surface clean. Simply relax and admire the beauty of spotless surface for years.



ANTI-FINGERPRINT



EASY TO CLEAN



No more breaking sweat on cleaning. Just a soft sponge and water are enough for a squeaky-clean surface. (No hard cleaning agents should be used).

Not just beautiful surfaces but 99.99% virus- and bacteria-resistant too. Adding a layer of safety for you and your family.



ANTI-VIRUS
ANTI-BACTERIAL*



FOOD CONTACT
SUITABLE



The specially treated exterior eliminates any kind of bacterial growth on the surface. Making it perfect for kitchens.

SOFT TOUCH



Smooth and silky. It never forgets to trigger a pleasant feeling every time you touch the surface.

Designed to effectively protect the surface from water spills and moisture from spoiling its beauty.



HYDRO-RESISTANCE

LOW LIGHT
REFLECTION



The surface by design hardly reflects any light. Hence, they are pleasing to look at as they are easy on eyes.

What feels soft and silky is in fact made of tough exterior. Making sure the surface remains scratch-free from humans and pets due to its thermal healing properties



SCRATCH
RESISTANCE



AFX ACES 8
PERFORMANCE TESTS
SCAN TO WATCH

*As per the test report virus gets 99.99% retarded in 24 hours of contact.
As per the test report bacteria gets 99.99% retarded in 24 hours of contact.

FREEDOM OF APPLICATION

There is a lot that you can do with Greenlam AFX. The fact that it is a versatile surface to decorate your interiors gives you more freedom to plan and experiment. Be it horizontal or vertical – these compacts and laminates make cleaning quick and easy. Its hydro-repellent property makes it suitable to install in wet areas such as kitchens, toilets and backyards. It is also popularly used in making furniture and interiors of heavy traffic industry such as offices, commercial buildings, healthcare, spas, malls, etc.



RETAIL



OFFICE



HEALTHCARE



HOSPITALITY



EDUCATION



TRANSPORTATION



KITCHENS



FURNITURE



BATHROOM

COLLECTION AT A GLANCE



DECOR/
TEXTURE(S)

11 Decors

Ultra Matt Finish



SIZE(S)

4.25'x10'

or

1300 x 3050mm



THICKNESS

0.7 mm

to

24 mm



CORE

- White
- Grey
- Brown
- Black

• Standard core offering for laminates is brown • Standard core offering for compacts is black
• Customisation from the 4 core colors available at differential pricing • All FR products will be offered in default brown core only • Standard core offering for 9861 Black X laminates is black.

I N T R O D U C I N G A F X C O L L E C T I O N

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9857 COUNTRY BLUE ▶

9858 VICTORIAN VIOLET ▶



9857 COUNTRY BLUE

PANTONE 2965U, RAL : NA, LRV : 05.50±1, NCS S 7020-R90B

9860 TWILIGHT BLUE





9859 SEA WEED GREEN ►

RECEPTION



9859 SEA WEED GREEN

PANTONE : P 132-16U, RAL : 6012, LRV : 07.23 ±1, NCS S 8005-G20Y





PANTONE 5215U, RAL: 4009, LRV: 25.07 ±1, NCS S 3010-R30B



9858 VICTORIAN VIOLET

PANTONE P 33-16-4 BLACK 5U, RAL : 8019, LRV : 08.20 ±1, NCS 8005-Y80R

9856 COFFEE BEAN



9856 COFFEE BEAN ▶



9852 ▶
EDEN GREY

9853 ▶
ANTHRACITE

9861 ▶
BLACK X

9851 WHITE X ▶

PANTONE P 1-1C, RAL: 9003, LRV: 92.85 ±1, NCS S 0300-N



9851 WHITE X

PANTONE P 169-8C, RAL: 7039, LRV: 17.57 ±1, NCS S 5502-Y



9852 EDEN GREY

PANTONE P 174-124, RAL: 7043, LRV: 11.41 ±1, NCS S 7000 N



9853 ANTHRACITE

PANTONE BLACK 7CP, RAL: 9011, LRV: 04.46 ±1, NCS S 8500-N



9861 BLACK X

THE WORLD OF GREENLAM

Creating beautiful and unique spaces is how Greenlam started its journey. For over two decades Greenlam has been known and respected for its exceptional artistry, unsurpassed quality, and unyielding passion for excellence. With thousands of decors and surface solutions spread across laminates, compacts, decorative veneers, engineered wooden floors and doors, Greenlam has emerged as one of the foremost surfacing solution brands in the world. Its pioneering and innovative designs have won acclaim in over 100 countries with millions of delighted customers. The newness and innovations Greenlam offer make it the preferred choice of architects and consumers.

Greenlam as a responsible brand understands its commitment towards the people, planet and processes and takes all measures to ensure a healthier, safer world. From sourcing to manufacturing to recycling, we have many stringent measures in place.

APPROVED WITH DISTINCTION







GREENLAM GOES GREEN

Energy and Water Conservation

Manufactured with Natural Products

Zero Liquid Discharge

Renewable Energy Utilisation

Responsible Forestry

Environment-Friendly Products

HEALTHY
Monitored Indoor Air Quality (IAQ)

 Safe and Non-Hazardous Products

Responsible Logistics Systems

Effective Waste Management



Scan the QR code to download the TDS

GOODNESS IS IN THE DETAILS – TECHNICAL SPECIFICATIONS

COMPACTS

S. No.	Properties	Unit	Test method as per EN 438 Part 2 & 4 :2016	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam
1	Classification		EN 438-4- 4	Compact General purpose standard, CGS													
PHYSICAL & DIMENSIONAL PROPERTIES																	
2	Nominal Thickness	mm			18.0		12.0		10.0		9.0		8.0		6.0		4.0
3	Thickness	mm	EN 438-2 – 5	18.0 ± 0.70	Complies	12.0 ± 0.50	Complies	10.0 ± 0.50	Complies	9.0 ± 0.50	Complies	8.0 ± 0.50	Complies	6.0 ± 0.40	Complies	4.0 ± 0.30	Complies
4	Length & width	mm	EN 438-2 – 6	+10mm/- Nil	Complies	+10mm/- Nil	Complies	+10mm/- Nil	Complies	+10mm/- Nil	Complies	+10mm/- Nil	Complies	+10mm/- Nil	Complies	+10mm/- Nil	Complies
5	Density	g/cm3	EN ISO 1183 -1:2004	1.35 (min)	1.4	1.35	1.4	1.35	1.4	1.35	1.4	1.35	1.4	1.35	1.39	1.35	1.39
6	Dimensional Stability at Elevated Temperature		EN 438-2 -17														
	Longitudinal Direction	%		0.30 (max)	0.06	0.30 (max)	0.08	0.30 (max)	0.1	0.30 (max)	0.11	0.30 (max)	0.12	0.30 (max)	0.16	0.40 (max)	0.28
	Transverse Direction	%		0.60 (max)	0.14	0.60 (max)	0.15	0.60 (max)	0.19	0.60 (max)	0.21	0.60 (max)	0.25	0.60 (max)	0.29	0.80 (max)	0.38
MECHANICAL PROPERTIES																	
7	Resistance to Immersion in Boiling Water (2 hours)		EN 438-2 -12														
	Mass Increase	%		2.0 (max)	0.2	2.0 (max)	0.24	2.0 (max)	0.29	2.0 (max)	0.31	2.0 (max)	0.39	2.0 (max)	0.64	2.0 (max)	0.94
	Thickness Increase	%		2.0 (max)	0.6	2.0 (max)	0.68	2.0 (max)	0.78	2.0 (max)	0.84	2.0 (max)	0.95	2.0 (max)	1.12	2.0 (max)	1.48
	Appearance	Rating		Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
8	Resistance to Impact by Large Diameter Ball																
	Drop Height	mm	EN 438-2 -21	1800	1900	1800	1900	1800	1900	1800	1900	1800	1900	1800	1900	1400	1500
	Diameter of Indentation	mm		10 (max)	7	10 (max)	7	10 (max)	8	10 (max)	8	10 (max)	8	10 (max)	8	10 (max)	7
9	Flexural Modulus	Mpa	EN ISO 178; 2003														
				9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies
10	Flexural Strength	Mpa		80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies
11	Resistance to Crazing	Rating	EN 438-2 -24	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
SURFACE PROPERTIES																	
12	Resistance to Water Vapor	Rating	EN 438-2 -14	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
13	Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
14	Resistance to Wet heat @100°C	Rating	EN 438-2 -18	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
15	Resistance to Surface Wear, IP	Rev.	EN 438-2 -10	150 (min)	Complies	150 (min)	Complies	150 (min)	Complies	150 (min)	Complies	150 (min)	Complies	150 (min)	Complies	150 (min)	Complies
16	Resistance to Scratching	N	EN 438-2 -25	2.0 (min)	2.5 (min)	2.0 (min)	2.5 (min)	2.0 (min)	2.5 (min)	2.0 (min)	2.5 (min)	2.0 (min)	2.5 (min)	2.0 (min)	2.5 (min)	2.0 (min)	2.5 (min)
		Rating	EN 438-2 -25	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
17	Resistance to staining	Rating	EN 438-2 -26														
	Group 1 & 2 Group 3			5 4	5 ≥ 4	5 4	5 ≥ 4	5 4	5 ≥ 4	5 4	5 ≥ 4	5 4	5 ≥ 4	5 4	5 ≥ 4	5 4	5 ≥ 4
18	Light fastness (Xenon Arc Lamp)- Grey Scale Contrast	Rating	EN 438-2 -27	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies
FIRE PERFORMANCE																	
19	Reaction to Fire	EN 13501-1	Euroclass	D-s2, d0	Complies	C-s2, d0	Complies	C-s2, d0	Complies	D-s2, d0	Complies	D-s2, d0	Complies	D-s2, d0	Complies	D-s2, d0	Complies
20	Calorific Value	ISO 1716: 2010	MJ/kg	19.91 (max)	19.88	19.91 (max)	19.88	19.91 (max)	19.88	19.91 (max)	19.88	19.91 (max)	19.88	19.91 (max)	19.88	19.91 (max)	19.88
HEALTH & ENVIRONMENTAL CHARACTERISTICS																	
21	Food safe	EN 13130-1	-	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES	-	YES
22	Contents' migration as per Food Commission Regulation	EN 1186-1, 3 & 14: 2002	Migration	Migration of Simulants is less than maximum permitted by Regulation													
23	Formaldehyde emission (release)	EN 16516-2017	ppm	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
24	Volatile Organic Compounds (VOC)	ISO 16000-9 Emission	Class	-	A	-	A	-	A	-	A	-	A	-	A	-	A
25	AntiViral Efficacy Reduction	ISO 21702:2019															
	% Reduction in 24 hours	%		95% (min)	99.9% (min)	95% (min)	99.9% (min)	95% (min)	99.9% (min)	95% (min)	99.9% (min)	95% (min)	99.9% (min)	95% (min)	99.9% (min)	95% (min)	99.9% (min)
	Activity after 24 hours	Log Reduction		2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceed
26	Anti-bacterial Efficacy & activity	JIS 2801:2012															
	% Reduction in 24 hours	%		95.0 (min)	99.99	95.0 (min)	99.99	95.0 (min)	99.99	95.0 (min)	99.99	95.0 (min)	99.99	95.0 (min)	99.99	95.0 (min)	99.99
	Activity after 24 hours	Log Reduction		2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds	2.0 (min)	Exceeds
27	Anti-Fungus Efficacy	ASTM G-21:2015															
	Growth after 28 days	Class		1	0 (No Growth)	1	0 (No Growth)	1	0 (No Growth)	1	0 (No Growth)	1	0 (No Growth)	1	0 (No Growth)	1	0 (No Growth)

Fire test performance will depend on laminate & compact thickness and construction, substrate type and thickness, and adhesive used. It is advised to contact the laminate manufacturer for details of test reports and certifications held. Greenlam can supply type S and F HPLs.

Class (Rating) – 1= Surface damage, 2= Severe appearance alteration, 3= Moderate change, 4= Slight change visible at certain angle, 5= No change

Virus tested – MS2 Bacteriophage

Bacteria tested – Pseudomonas. 2. Entrococcus Faecalis, 3.Candida Albicans 4.Pseudonomas Aeruginosa 5. Escherichia Coli 6. Klebsiella

7. MRSA (Methicillin Resistant Staphylococcus Aureus) 8. Salmonella Enterica

Fungus tested: 1.Aspergillus niger 2. Penicillium funiculososum 3. Gliocladium virens 4. Chaetobium globosum 5. Aurobasidium pullulans



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LAMINATES

S. NO.	PROPERTIES	Unit	TEST METHOD AS PER EN 438 Part 2 : 2016	SPECIFIED VALUES	TYPICAL GREENLAM
1	Classification		EN 438-3 Table- 3	HGS*	HGS*
2	Product features		Electron Beam Cured, Anti Finger Print, Near Zero Reflection, Ultra Matt Surface, Thermal healing of micro scratches		
DIMENSIONAL PROPERTIES					
3	Product offer, L x B	M			1.30M x 3.05M
4	Surface Quality	mm²/M²	EN 438-3-6.3, 5.2.4	1.0 (max)	Complies
5	Fibers, Hairs & Scratches	mm/M²		10.0 (max)	Complies
6	Thickness & Maximum variation	mm	EN 438-2 – 5	0.70 ± 0.10 0.80 ± 0.10	0.70 ± 0.05 0.80 ± 0.05
7	Length & Width	mm	EN 438-2 – 6	+10mm /-0mm	+5mm /-0mm
8	Flatness	mm/M	EN 438-2 – 9	60.0 (max)	≤ 50
9	Edges Straightness	mm/M	EN 438-2 – 7	1.5 (max)	≤ 1
10	Edges Squareness	mm/M	EN 438-2 – 8	1.5 (max)	Complies
SURFACE PROPERTIES					
11	Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	Not worse than 4	5
12	Resistance to Surface Wear	Revolutions	EN 438-2 - 10	150 (min.) IP	300
13	Resistance to Stains				
	Group 1 & 2 Group 3	Rating (min.) Appearance	EN 438-2 - 26	5 4	5 ≥ 4
14	Resistance to Wet Heat at 100°C	Rating	EN 438-2 - 18	5	5
15	Resistance to Scratching	Rating	EN 438-2 - 25	5	5
16	Resistance to Water Vapor, Appearance	Rating	EN 438-2 -14	4 (min.)	5
17	Light Fastness (Xenon-Arc Light)	Contrast	EN 438-2 - 27	4 to 5	4
18	Resistance to Micro scratches (Surface visual assessment)	Class	EN 438-2 -30	No requirement	5
19	Surface Gloss	GU	EN 13722	<10 ± 3	Less than 4
20	Chemical Spot Test	Level	SEFA 8-PL-2010 Method 81	Not more than 4 Level-3 conditions	Less than 4 conditions
PHYSICAL PROPERTIES					
21	Resistance to Impact by Large Diameter Ball		EN 438-2 – 21		
	a) Drop Height	mm		800 (min.)	1000
	b) Diameter of Indentation	mm		10 (max)	7
22	Resistance to Impact by Small Diameter Ball	Rating	EN 438-2 - 20	20 (min)	25
23	Resistance to Immersion in Boiling Water	Rating	EN 438-2 - 12	4 (min)	5
24	Dimensional stability at Elevated temperatures		EN 438-2 - 17		
	Longitudinal	%		0.55 (max.)	Complies
	Transverse	%		1.05 (max.)	Complies
25	Resistance to cracking	Rating	EN 438-2 - 23	4 (min)	5
26	Density	g/cm³	EN ISO 1183 -1 :2004	1.35 (min.)	1.38
27	Electrostatic Dissipation Property	Ω	EN 61340-4-1	No requirement	1 x 10 ¹⁰ to 10 ¹¹
FIRE PERFORMANCE					
28	Reaction to Fire (Tested according to EN 13823:2010 & EN 11925-2 :2010)*	Euro class	EN 13501-1: 2007+ A1:2009	See foot note on Fire Preformance**	
HEALTH AND ENVIRONMENTAL PROPERTIES					
29	Formaldehyde Release	ppm Certificate Rating	EN 16516:2017 UL-2818:2013 EN 13986	0.1 Greenguard Gold No requirement	0.02 Complies Less than E1
30	Emissions with respect to Indoor Air Quality: TVOC	mg/M³	UL-2818:2013	0.22	Conforms
	Formaldehyde (CAS 50-00-0 9)	ppb ³	Greenguard Gold standards	7.3	Conforms
	Total Aldehydes	ppm		0.043	Conforms
	4-Phenylcyclohexene (CAS 4994-16-5)	µg/M³		6.5	Conforms
	Particle Matter less than 10 µm	µg/M³		20	Conforms
	1-Methyl-2-pyrrolidinone (CAS 872-50-4)	--		1/2 CREL or 1/100th TLV	Conforms
31	Product sanitization/hygiene	--	NSF/ANSI 35	NEMA Assessment	Conforms
32	Transfer of constituents to Food during contact	Migration of 10 mg/dm²	EN 1186-1:2002 EN 1186-3:2002 EN 1186-14:2002	3% Acetic Acid 95% Ethanol Iso-Octane	1.0 1.1 Less than 0.1
33	Antibacterial Efficacy Microbial activity & Microbial Kill	Reduction	JIS Z 2801: 2010	2.0 (min) 99.5% (min)	Complies Complies
34	AntiViral Efficacy	Reduction	ISO 21702:2019	95.0 (min)	99.9
35	Antifungal Efficacy	Growth after 28 days	ASTM G-21-2015	Rating 1	Rating 0 (No Growth)

Note: Whereas Greenlam products are manufactured thoroughly to standards, the nature of the application procedure is beyond our control. The values given above are to the best of knowledge but without liability/warranty, expressed or implied. I Greenlam AFX Compact Laminates can be made available in Fire Retardant variants also.

Surface Finish: Ultra Matt ● Robust, resistant to dirt, Anti finger Marks, caressing silky feel. ● Size available : 1300 x 3050 mm i.e. 4.25' x 10'

● Thickness offering : 0.7 mm – 24 mm.



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