









TRUE BEAUTY STAYS SPOTLESS

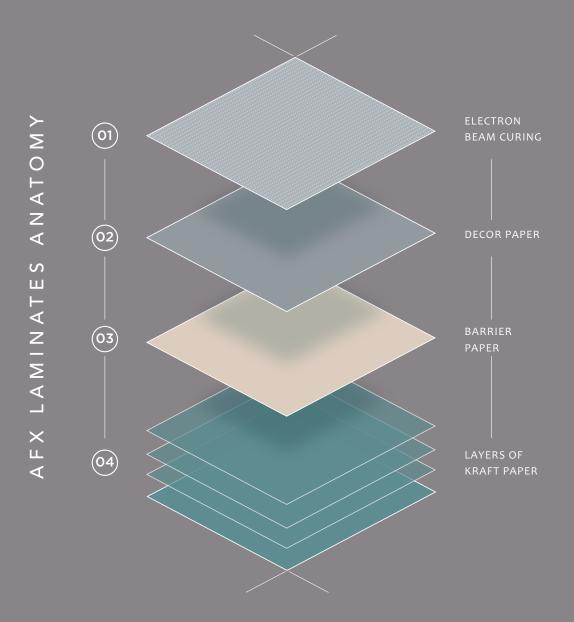
True beauty by nature and design is timeless. Its charm always stays the same. Inspired by this very idea of beauty, Greenlam created a surface that is beautiful enough to leave an indelible mark on its admirers without letting any mark settle on it and ruin its beauty.

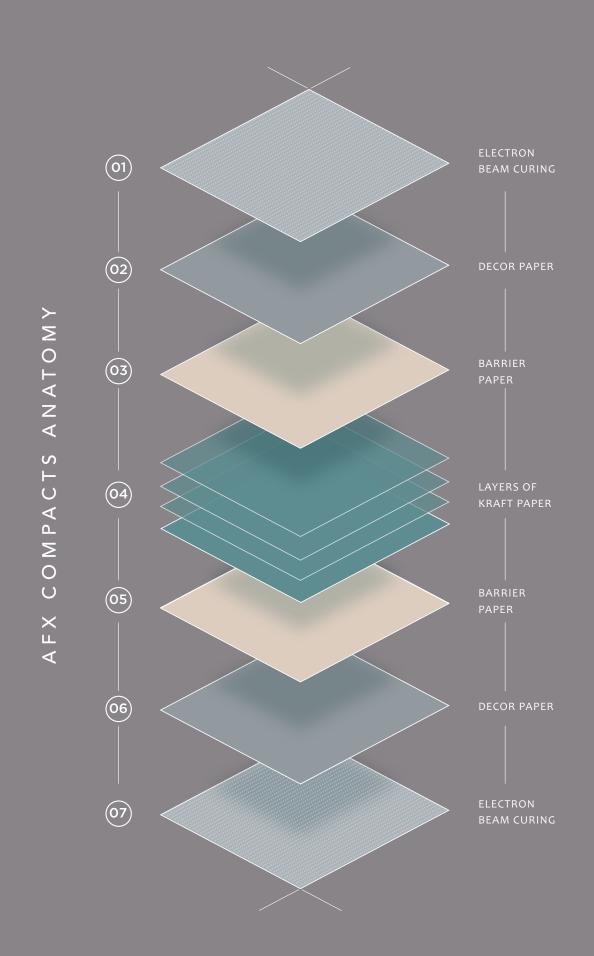
The pursuit of creating this unique surface led to the revolutionary Greenlam AFX, the ultra matt compacts and laminates. They look so beautiful you cannot resist touching them. Touch all you want because the craftsmanship that leaves a lasting impression ensures no fingerprint mark spoils their beauty. 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.





FEATURES THAT MAKE

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





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).

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

THE DIFFERENCE

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.

LOW LIGHT



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

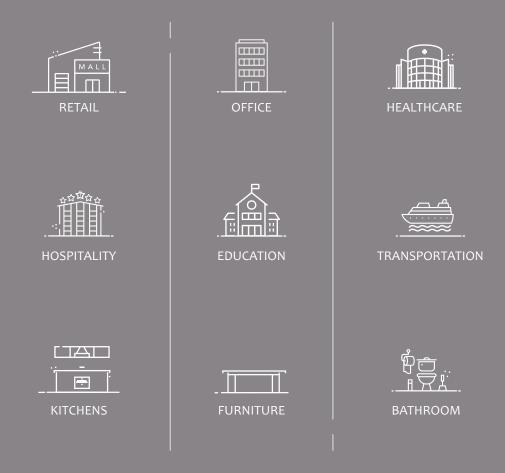




SCRATCH RESISTANCE

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.



COLLECTION AT A GLANCE



11 Decors



SIZE(S)



THICKNESS





- Grey
- Black

N T R O D U C I N G A

















9852 EDEN GREY CLICK ——

PANTONE BLACK 7 CP, RAL:9011, LRV:04.46 ±1, NCS S 8500-N BLACK X 9861

CLICK —

PANTONE P174-124, RAL:7043, LRV:11.41 ±1, NCS S 7000 N

9853 ANTHRACITE CLICK

9851 WHITE X CLICK.

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















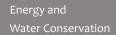








GREENLAM GOES GREEN









Zero Liquid Discharge



Renewable Energy Utilisation

Responsible Forestry



Environment-Friendly
Products







Responsible Logistics Systems



Effective Waste Management



GOODNESS IS IN THE DETAILS

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COMPACTS

UL	ICK to download TDS ——													C			
			18.0 mm 12.0 mm) mm	10.0 mm 9.0 mm			8.0 mm		6.0	6.0 mm		4.0 mm		
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						C	ompact Gener	al purpose sta	ndard, CGS					
								ONAL PROPER									
3	Thickness Length & width	mm	EN 438-2 - 5 EN 438-2 - 6		Complies Complies	12.0 ± 0.50 +10mm/ -Nil	Complies Complies	10.0 ± 0.50 +10mm/ -Nil	Complies Complies	9.0 ± 0.50 +10mm/ -Nil	Complies Complies	8.0 ± 0.50 +10mm/ -Nil	Complies Complies	6.0 ± 0.40 +10mm/ -Nil	Complies Complies	4.0 ± 0.30 +10mm/ -Nil	Complies
4	Density	g/cm3	EN ISO 1183	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
_	D' ' 1011'' 15 15		-1:2004														
5	Dimensional Stability at Elevated Temperature Longitudinal Direction	%	EN 438-2 -17	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
6	Resistance to Immersion in Boiling		EN 438-2 -12				MECHANI	CAL PROPERTIE	S								
U	Water (2 hours)		LIV 430-2 -12														
	Mass Increase Thickness Increase	% %		2.0 (max) 2.0 (max)	0.2 0.6	2.0 (max) 2.0 (max)	0.24 0.68	2.0 (max) 2.0 (max)	0.29 0.78	2.0 (max) 2.0 (max)	0.31 0.84	2.0 (max) 2.0 (max)	0.39 0.95	2.0 (max) 2.0 (max)	0.64 1.12	2.0 (max) 2.0 (max)	0.94 1.48
	Appearance	Rating		Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5
7	Desistence to large of health and Discourt of Dell			than 4		than 4		than 4		than 4		than 4		than 4		than 4	
7	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
8	Flexural Modulus	Mpa E	N ISO 178; 2003	3 9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies	9000 (min)	Complies
9	Flexural Strength	Мра		80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies	80 (min)	Complies
10	Resistance to Crazing	Rating	EN 438-2 -24		5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5
				than 4		than 4	CHDEAC	than 4 E PROPERTIES		than 4		than 4		than 4		than 4	
11	Resistance to Water Vapor	Rating	EN 438-2 -14	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5
				than 4		than 4		than 4		than 4		than 4		than 4		than 4	
12	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
13	Resistance to Wet heat @100°C	Rating	EN 438-2 -18	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5
14	Decision as to Confess Wasse ID	Davi	FN 400 0 10	than 4	0	than 4	0	than 4	0	than 4	0	than 4	0	than 4	0	than 4	Osmalisa
14 15	Resistance to Surface Wear, IP Resistance to Scratching	Rev.	EN 438-2 -10 EN 438-2 -25	150 (min) 2.0 (min)	Complies 2.5 (min)	150 (min) 2.0 (min)	Complies 2.5 (min)	150 (min) 2.0 (min)	Complies 2.5 (min)	150 (min) 2.0 (min)	Complies 2.5 (min)	150 (min) 2.0 (min)	Complies 2.5 (min)	150 (min) 2.0 (min)	Complies 2.5 (min)	150 (min) 2.0 (min)	Complies 2.5 (min)
	notice to obtationing	Rating	EN 438-2 -25		5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5	Not worse	5
				than 4		than 4		than 4		than 4		than 4		than 4		than 4	
16	Resistance to staining Group 1 & 2	Rating	EN 438-2 -26	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Group 3			4	≥4	4	≥4	4	≥ 4	4	≥4	4	≥4	4	≥4	4	≥4
17	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
	urey ocure contract	nating	LIV 450 Z ZI	7103	Compiles	7100		ERFORMANCE	Compiles	7100	Compiles	7103	compiles	7103	Compiles	7103	Compiles
18	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
19	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
20	Food safe	EN 13130-1			YES	HEAL	TH & ENVIRON	MENTAL CHAR <i>i</i> -	YES		YES		YES		YES		YES
	Contents' migration as per	EN 13130-1 EN 1186-1,			TLJ		ILO				ı maximum pe				ILU		ILU
	Food Commission Regulation	3 & 14: 2002															
	Formaldehyde emission (release)	EN 16516-2017		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
23	Volatile Organic Compouns (VOC) Emission	ISO 16000-9 UL 2818 - 2013			A	-	A	-	А	- GREENG	A UARD GOLD		A	-	A	-	A
24	AntiViral Efficacy Reduction	ISO 21702:2019		050: (: :	00.051.4	050: 1	00.5017	050: 1	00.051.6			050: 1	00.05: ()	050: 4 : :	00.051.4	050: (: :	20.051.6
	% Reduction in 24 hours Activity after 24 hours		% Log Reduction	95% (min) 2.0 (min)	99.9% (min) Exceeds	95% (min) 2.0 (min)	99.9% (min) Exceeds	95% (min) 2.0 (min)	99.9% (min) Exceeds	95% (min) 2.0 (min)	99.9% (min) Exceeds	95% (min) 2.0 (min)	99.9% (min) Exceeds	95% (min) 2.0 (min)	99.9% (min) Exceeds	95% (min) 2.0 (min)	99.9% (min) Exceed
25	Anti-bacterial Efficacy & activity % Reduction in 24 hours	JIS 2801-2012	%	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	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
00	A-t: F F#	AOTIA C 24 22	Reduction														
26	Anti-Fungus Efficacy Growth after 28 days	ASTM G-21-201	5 Class	1	0 (No	1	0 (No	1	0 (No	1	0 (No	1	0 (No	1	0 (No	1	0 (No
	,				Growth)		Growth)		Growth)		Growth)		Growth)		Growth)		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 (Methicilllin Resistant Stapphylococcus Aureus) 8. Salmonella Enterica

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

TECHNICAL SPECIFICATIONS

LAMINATES -

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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,								
				att Surface, Thermal healing of micro s	scratches					
2	Draduct offer L v D		IONAL PROPERTIES		1.30M x 3.05M					
3 4	Product offer, L x B Surface Quality	M mm²/M²	EN 438-3-6.3, 5.2.4	1.0 (max)	Complies					
5	Fibers, Hairs & Scratches	mm/M²	LIN 430-3-0.3, 3.2.4	10.0 (max)	Complies					
6	Thickness & Maximum variation	mm	EN 438-2 – 5	0.70 ± 0.10	0.70 ± 0.05					
Ū				0.80 ± 0.10	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					
			ACE 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	Poting (min)	EN 420 0 06	Ę	E					
	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						
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	Class	EN 438-2 -30	No requirement	5					
	(Surface visual assessment)									
19	Surface Gloss	GU	EN 13722	<10 ± 3	Less than 4					
20	Chemical Spot Test	Level	SEFA 8-PL-2010	Not more than 4 Level-3	Less than 4 conditions					
		DUVC	Method 81 ICAL PROPERTIES	conditions						
21	Posistance to Impact by Large Diameter Rell	PHYS	EN 438-2 – 21							
21	Resistance to Impact by Large Diameter Ball a) Drop Height	mm	EN 430-2 - 21	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 Property Property	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					
28	Reaction to Fire (Tested according to	Euro class	E PERFORMANCE EN 13501-1: 2007+	See foot note on Fire Preformance**						
20	EN 13823:2010 & EN 11925-2 :2010)*	Luio dass	A1:2009	occion note on the Fleionnance						
		HEALTH AND EN	IVIRONMENTAL PROPERT	TIES						
29	Formaldehyde Release	ppm	EN 16516:2017	0.1	0.02					
		Certificate	UL-2818:2013	Greenguard Gold	Complies					
		Rating	EN 13986	No requirement	Less than E1					
30	Emissions with respect to Indoor Air Quality:	mg/M³	UL-2818:2013	0.22	Conforms					
	TVOC	ppb ³	Greenguard Gold	7.3	Conforms					
	Formaldehyde (CAS 50-00-0 9)	ppm	standards	0.043	Conforms					
	Total Aldehydes	μg/M ³		6.5	Conforms					
	4-Phenylcyclohexene (CAS 4994-16-5)	μg/M³		20	Conforms					
	Particle Matter less than 10 µm	μg/M³		160 1/2 CREL or 1/100th TLV	Conforms Conforms					
31	1-Methyl-2-pyrrolidinone (CAS 872-50-4) Product sanitization/hygiene		NSF/ANSI 35	NEMA Assessment	Conforms					
32	Transfer of constituents to Food during contact	Migration of	EN 1186-1:2002	3% Acetic Acid	1.0					
02		10 mg/dm ²	EN 1186-3:2002	95% Ethanol	1.1					
		J. 4	EN 1186-14:2002	Iso-Octane	Less than 0.1					
33	Antibacterial Efficacy	Reduction	JIS Z 2801: 2010	2.0 (min)	Complies					
	Microbial activity & Microbial Kill			99.5% (min)	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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