



EXTERIOR GRADE COMPACT LAMINATE



Greenlam is among the world's top 3, Asia's largest and India's No. 1 surfacing solutions brand. With its presence in over 100 countries,
Greenlam has focused on developing quality products with great passion for innovation. It offers end to end surfacing solutions spread across laminates, compacts, interior and exterior grade cladding, restroom cubicles and locker solutions, decorative veneers, engineered wooden floors and doors. With two state-of-the-art manufacturing facilities in the country, it is the first choice of home owners, architects and interior designers when it comes to transforming residential and commercial spaces.



NewMika FX, an embodiment of bold

designs and superb functionality, is the

perfect go-to cladding solution.

The extensive range comes with a 10-year

warranty to accentuate the aesthetics of a

building for the longest of times.

Not to mention, it is equipped to handle

all weather & allied conditions that'll

come its way.



DESIGNED TO WITHSTAND ALL WEATHER CONDITIONS

A continent-sized nation, India, is a land of great geographical diversity. From severe hot spells to bone-chilling cold to incessant rains, India experiences extreme climatic conditions. What was required was a one-stop solution to meet all these varied Climates & Weather. And so, we designed the all-weather **NewMika FX**, a range of high-quality exterior façade solution that is made for India and Made in India.

To reinforce our claims of strong and sturdy surfaces, we make use of the latest technology for all our products. Designed with NMEF - Technology, these exterior facade surfaces are durable to the core. Making them strong enough to withstand extreme weather conditions.

The range has a UV-Resistant Top Coating treated with Poly Vinylidene (PV) and Acrylic layers to protect the décor surface from fading. The product is manufactured under high pressures and temperatures to yield an exceptionally durable and dense panel.

High performance UV & weather resistant film for surface protection. Décor paper impregnated with aminoplastic resin. Special imported kraft paper layers impregnated with thermosetting phenolic resin. Décor paper impregnated with aminoplastic resin. High performance UV & weather resistant film for surface protection.





Moisture-Resistant

With a faćade that's resistant to moisture, you needn't worry abo humid or wet weather condition wearing down the exteriors of your building.



For buildings that look as good new, the surfaces have the abilit prevent corrosions that can hap due to environmental reactions.



Whether it is a paint spray (graft other similar stains and marks. N FX do not let these to overcome beauty of your exterior facade k an easy-to-clean surface.



With modified phenolic resin providing a great flexural streng & modulus of elasticity, these Mechanical Shock surfaces don't buckle under inte force or shock.



Maintaining their form and struc even in the face of adversity, the surfaces can stand temperature low as -50° C and as high as 80°



Superior abrasion resistance properties makes these surfaces durable, keeping them in near mint condition.

APPLICATIONS

Meet the Multifunctional FX

NewMika FX offers a range of application possibilities. It can adorn a myriad of external surfaces, giving a new personality to that space.

Application Areas:

- Ceilings
- Entrances
- Balcony

Pillars

Doors

Gates

- Railings
- Ventilated Facades

- Fencing
- Partitions
- Outdoor Furniture and many more

Sectors:

- Healthcare
- Public Facilities

Hospitality

- Airports
- Sports Facilities

Educational

Institutions

Commercial Spaces

Shopping Malls

- Metro Stations
- Railway Stations

Segment:











Residence

Hotel



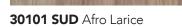
30404 SUD Tawny Taupe





30105 SUD Cherry Glow







30103 SUD Walapter Oak



30102 SUD Deep Larice



30106 SUD Dana Walnut



30107 SUD Unique Teak



30109 SUD Fresh Mahogany



30104 SUD Walnut Haze



30110 SUD Urban Wood



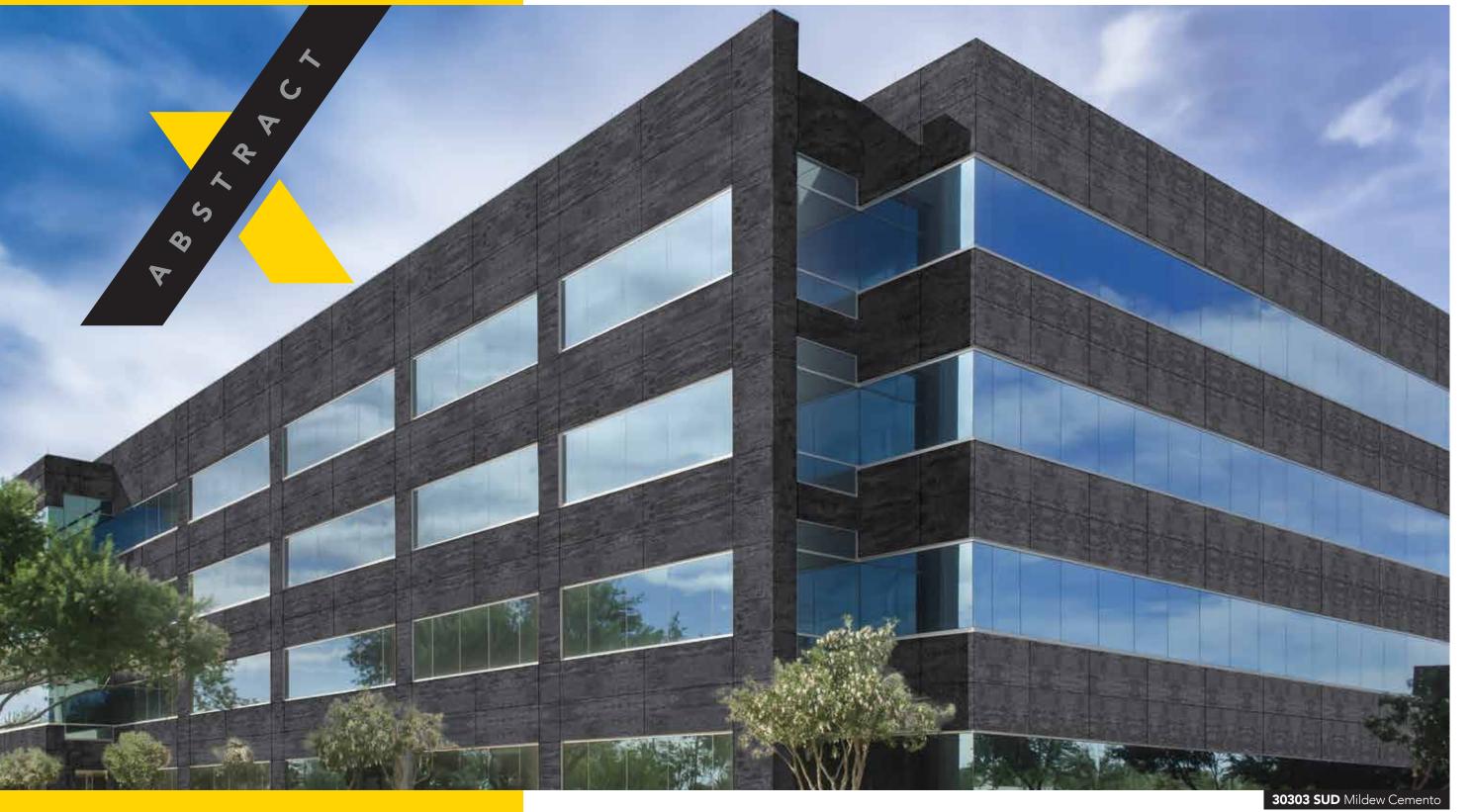
30108 SUD Dark Rosewood

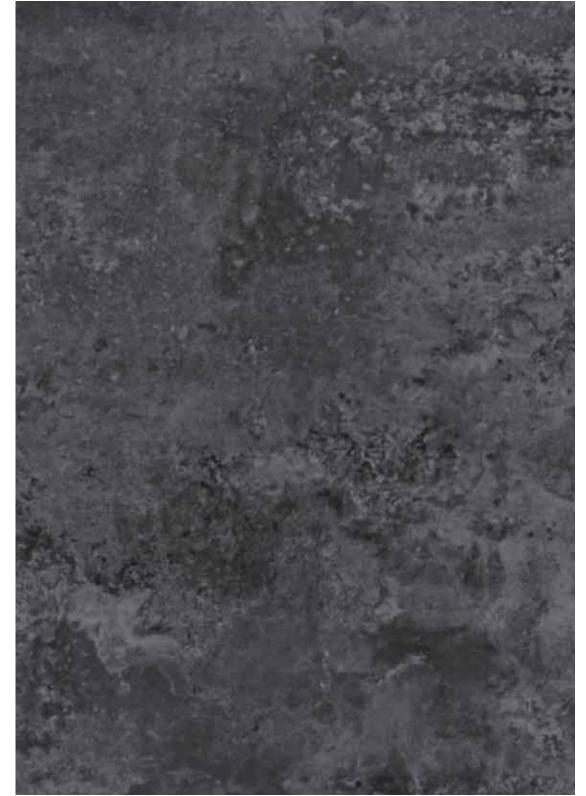


30112 SUD Wenge Dungeon



30111 SUD Ronan Maple





30303 SUD Mildew Cemento





INSTALLATION

Setting Up NewMika FX

The NewMika FX panels behave like wood in changing weather conditions. They expand when absorbing moisture and contract in dry air discharging moisture. Taking into consideration these properties, during installation the appropriate compensation clearance should be applied (the expansion gaps between panels 8-10 mm), assuring a possibility of uniform expansion of panels.

RIVETED

A tried-and-tested method that makes use of PU-coated rivets that make the panels strong and durable when installed. **NewMika FX** panels of 6mm, 8mm, and 10 mm are suitable for riveted system on an aluminium substructure. This system is applied to high rise buildings.

- i. Installed with rivets on an aluminium Box Section substructure (Practiced in Asian countries)
- ii. Installed with rivets on an aluminium L & T Section substructure (Practiced in other countries)

ADHESIVE

For a clean and sharp look, that's relatively affordable, 3M or equivalent adhesive is used to fix the panel. An alternative to visible mechanical fixing with rivets is gluing the NewMika FX panels with gluing systems specifically developed for this purpose. It works on normal planed aluminium sub-constructions. Gluing is a clean and simple solution for rear-ventilated facades, attics, visible roof under faces, reveals, etc.



FRAMING AND TOOLING GUIDELINES



1. Framework Distance

For wall maximum is 450mm
For soffit maximum is 400mm



6. Fastener

HRD U 10x80mm Universal Plastic
Frame Anchor or MMC fastener bolt.



2. Cutting Machine

- A) Bosch GKS 235
- B) Bosch GDC 34m

(speed 2500rpm to 8000rpm) Cutting Blade is Diamond and Carbide, Number of teeth for cutting blade should be minimum 80 to 120.



7. Riveting Gun: Pneumatic Gun

Make-

- A) Accubird
- B) Sumak and Model No- ST66151 (options also available)



3. Drill Machine

Bosch GSB 1300/ equivalent
Drill bit should be VHM drill or
HSS type H.



8. Panels Gap

(Vertical and Horizontal)
Minimum 6mm gap.



4. Hammer Machine

Bosch GBH 222RE/ Equivalent



9. Rivet Distance

Maximum distance is 450mm for façade and 400mm for soffit.



5. Brackets

- A) Pi Brackets with thickness 4mm
- B) Langle of 2mm Thickness

(Maximum for 1 KPA wind speed).

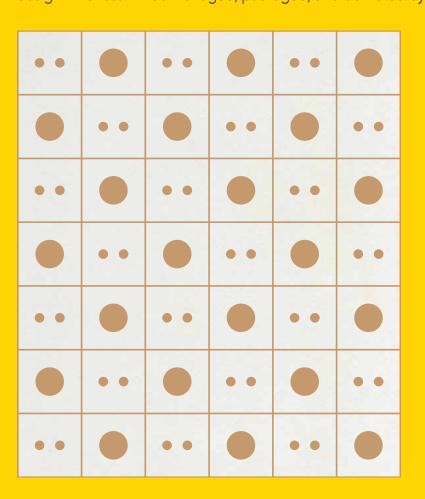


38x38 and 38x74 of 14 Gauge.

11. Flexible Mouth Piece

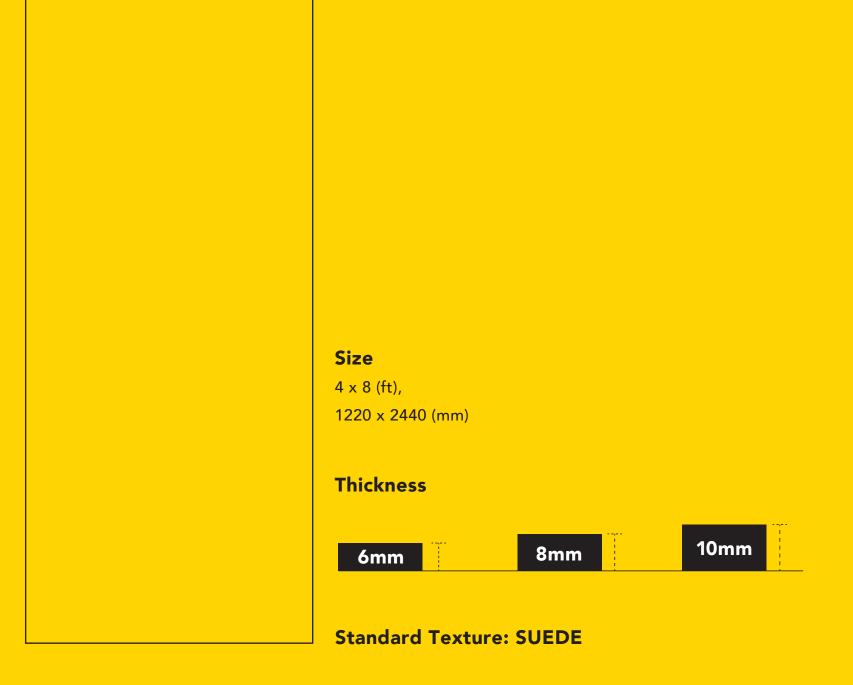
INFINITE POSSIBILITIES

What's unique about **NewMika FX** is its ability to adapt as per your requirements. Each exterior cladding panel can be tailor-made and all you'll have to do is pick a geometrical shape (made of straight cuts), the abstract pattern, and a perforable design. The rest will be managed, packaged, and delivered by us.





DIMENSION



COMPARISON CHART

NEWMIKA FX – as compared with other Cladding materials

	HARDWOOD	STONE	ACP	TILE	NEW MIKA
Corrosion Resistant	×	×	×	×	✓
Weather Resistant	×		×	√	✓
Easy to Maintain	×	×	1	✓	✓
Quick & Easy Installation	√	×	1	×	/
Colour Fastness	×	×	×	✓	/
Large Panel (4'x8')	×	×	/	×	/
Cost Effective	×	×	×	×	/
Customizability	×	×	×	×	/

MATERIAL HANDLING

CLEANING

MAINTENANCE: CLEANING



The NewMika FX panels are amazingly easy to maintain as most dirt can be removed simply by wiping with a damp cloth or sponge. The more stubborn stains can be handled with any suitable household detergent. The UV-resistant panels can be cleaned with alcohol-based cleaners, but it's always a good practice to test-clean an unobtrusive area before undertaking complete cleaning. Products containing abrasives are not recommended for use with

NewMika FX. Pressure washing will also present no problem; just be mindful that the jet should be directed from the bottom to top of each panel then laterally at a distance of 20-30 cm, finishing with a rinse of clean water. Jet wash pressure should not exceed 100 bar and water temperature should be no higher than 90-100°C.

Although the adhesion of inks/paints is very low on the NewMika FX Panels, we recommend not to clean the surface dry or by using any tools. The risk of damaging the special top polymeric surface is too high. Alternatively, solvent cleaners could be used for removing varnishes, paint sprays (graffiti), and other similar stains and marks.

TRANSPORT AND HANDLING



The NewMika FX panels offer exceptional durability. While in storage or handling, however, the surfaces and edges can be damaged if managed poorly. The panels are supplied with a foil protection covering, but it's recommended that when stacked, dust and larger particles should be removed from between the panels. Stack the panels with the thicker end at the bottom and be careful not to over-load the stack. The protective

foil should not be exposed to continual direct sun or heat.

Points to remember:

- NewMika FX must be secured against slippage during transport.
- When loading or unloading, the panels must be lifted not dragged.
- Do not push or pull them over the edge.
- Installation protection films must be removed from both the surfaces immediately after the installation.

STORAGE AND CONDITIONING



NewMika FX panels must be stacked horizontally on flat, balanced supports and supporting panels. The goods must lie completely flat. After removal of panels or cut panels, PE films must be closed over the stack once again.

Incorrect storage can lead to permanent deformation of the panels. NewMika FX panels are to be stored in closed rooms under normal climatic conditions, duly wrapped with PE film. Climate differences on the two surfaces of a panel are to be avoided.

- Stacking of NewMika FX panels should done up to 250mm in height (numbers may vary depending on the thickness of panel).
- Stacking should be done on sturdy raised platform

DO's AND DON'TS FOR TRANSPORTATION AND HANDLING



DO's

Ensure storage of NewMika FX in dry, clean, frost-free, and enclosed warehouses where normal interior conditions (18°C - 30°C and 50% - 65% relative humidity) are maintained.

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Cover the top board of each stack with a moisture barrier / cover board with sufficient weight to remain flat and in contact with the whole surface area of the top.

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The panels or cut panels must be stored on a rigid and levelled surface that ensures support across the surface area.

NewMika FX will remain flat when stored horizontally in packs on a flat base board with its edges flush with one another.

Allow time for the stack of the panels or cut panels for conditioning at the fabrication site and allow them to reach equilibrium with the environment

Try and keep the protection peel coat film till the installation is complete to avoid scratches, surface stains, dust etc.

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In case it is required to remove the protection peel coat film, please ensure that the film applied on both sides is removed at the same time.

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DON'Ts

Don't stack the panels in open yards or expose the stacks to sunlight and rainfall directly till they are fabricated and installed.

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Don't allow the panels to rest on moisture absorbing supports like paper, cloth, or gunny bags. The base board must be dry and should ideally be covered with a material impervious to water to act as a moisture barrier.

Don't keep the panels or cut panels in a leaning position against walls,

supports, or board stacks. This would cause the panels to warp.

Failure to store NewMika FX properly, for any length of time, can cause deformation which is almost impossible to rectify.

Don't attempt to fix the panels immediately after cutting and routing. This can lead to warping or twisting. Allow them to condition in the environment for few hours.

Never keep one side's film intact and remove the film from the other surface. This causes an imbalance in the panel and can lead to warp.

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S. No.	Properties	Test Standard	Unit	Specified Values	Typical Test Values	Specified Values	Typical Test Values
1	Classification	EN 438-6-Cl. 4: 2016		ERIOR, SEVERE USE FLAN EDF PHYSICAL & DIMENS		DE,	
2	Nominal Thickness		mm	6	.0	8.0	
3	Thickness Variation	EN 438-2 – 5	mm	6.0 ± 0.40	6.0 ± 0.30	8.0 ± 0.50	8.0 ± 0.35
4	Length and Width Variation	EN 438-2 – 6	mm	1220 X 2440mm	+5mm /-0mm	1220x2400mm	+5mm
				+10mm /-0mm		+10mm /-0mm	/-0mm
5	Edges Straightness	EN 438-2 – 7	mm/M	1.5 (max)	≤ ≤1	1.5 (max)	≤≤ ≤1
6	Edges Squareness	EN 438-2 – 8	mm/M	1.5 (max)	Complies	1.5 (max)	Complies
7	Flatness	EN 438-2 – 9	mm/M	5.0 (max)	Complies	5.0 (max)	Complies
8	Density	EN ISO 1183 -1:2004	g/cm3	1.35	1.38	1.35	1.38
9	Dimensional Stability at Elevated Temperature	EN 438-2 -17					
9	Longitudinal Direction	LIV 430-2 - 17	%	0.30 (max.)	0.18	0.30 (max.)	0.17
	Transverse Direction		%	0.60 (max)	0.38	0.60 (max)	0.35

. No.	Properties	Test Standard	Unit	Specified Values	Typical Test Values	Specified Values	Typical Test Values
	Nominal Thickness		mm	6.0	0	8.0	
			MECHANIC	AL PROPERTIES			
	Resistance to Wet Conditions,						
10	Increase in Mass	EN 438-2 : 15	%	8.0 (max)	4.1	8.0 (max)	4.0
	Surface Rating		Rating	4 (min)	5	4 (min)	5
	Edge Rating		Rating	3 (min)	3	3 (min)	3
11	Resistance to climatic shock	EN 438-2 : 19	Rating	Appearance -4 (min)	4	Appearance -4 (min)	4
			Index	Ds - 0.80 (min)	≥ 0.95	Ds - 0.80 (min)	≥ 0.95
			Index	Dm - 0.80 (min)	≥ 0.95	Dm - 0.80 (min)	≥ 0.95
12	Resistance to Impact by Large Diameter Ball						
12	Drop Height	EN 438-2 -22	mm	1800	2000	1800	2000
	Diameter of Indentation		mm	10 (max)	7	10 (max)	7
13	Flexural Strength	EN ISO 178:2003	Мра	80 (min)	100	80 (min)	100
14	Flexural Modulus	EN ISO 178:2003	Мра	9000(min)	10700	9000(min)	10700
15	Thermal Conductivity	EN 12524:2000	W/M°K	No requirement	0.24	No requirement	0.24
16	Resistance to Fixing (Screw pull out Strength)	ISO 13894-1; 9	N	2000 (min)	≥2000	2000 (min)	≥2000
			SURFACE	PROPERTIES			
17	Resistance to UV Light, after 1500 hours Exposure	EN 438-2-28	Rating	Grey Scale contrast-3 (min) Appearance- 4 (min.)	3~4 4~5	Grey Scale contrast-3 (min) Appearance- 4 (min.)	3~4 4~5
18	Resistance to Artificial Weathering Including Light Fastness,	EN 438-2-29	Rating	Grey Scale contrast-3 (min)	3~4	Grey Scale contrast-3 (min)	3~4
10	after 650 MJ/M ² Radiant Exposure	LIV 100 2 27		Appearance-4 (min.)	4~5	Appearance- 4 (min.)	4~5
			FIRE PER	RFORMANCE			
19	Reaction to Fire	EN 13501-1	Euro class	B-s2, d0	B-s1, d0	B-s2, d0	B-s1, d0
20	Calorific Value	ISO 1716: 2010	MJ/kg	19.91 (max)	19.88	19.91 (max)	19.88
			HEALTH CH	IARACTERISTICS			
21	Anti-bacterial Efficacy & Activity						
	% Reduction in 24 hours	IS 2801-2012	%	95.0 (min)	99.99	95.0 (min)	99.99
	Activity after 24 hours		Log Reduction	2.0 (min)	Exceeds	2.0 (min)	Exceeds
22	Anti-Fungus Efficacy	ASTM G-21-2015					0 (No
22	Growth after 28 days	A311VI G-21-2013	Class	1	0 (No Growth)	1	Growth)

- CLASS (RATING): 1 = Surface Damage; 2 = Severe appearance alteration; 3 = Moderate Change; 4 = Slight change visible from certain angle; 5 = No Change

 Bacteria Tested: 1. Pseudomonas Aeruginosa, 2. Enterococcus Faecalis, 3. Candida Albicans, 4. Pseudomonas Aeruginosa, 5. Escherichia Coli, 6. Klebsiella Pneumoniae, 7. MRSA (Methicillin Resistant Staphylococcus Aureus), 8. Salmonella Enterica

 Fungus Tested: 1. Aspergillus niger, 2. Penicillium funicolosum, 3. Gliocladium virens, 4. Chaetobium globosum 5. Aurobasidium pullulans

DISCLAIMER: Whereas Greenlam products are manufactured to thorough standards, the nature of the application procedure is beyond our control. The values given above are to the best of knowledge but without laibility/warranty, expressed or implied.

Application images shown are for illustration purpose only, please refer to actual product samples for color and finish available.

Greenlam Industries Limited warrants that all it's 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.

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

CERTIFICATIONS

Uncompromised Quality

NewMika FX believes that trust is built by delivering high-quality products that adhere to the global standards of quality assurance and environmental safety. Here are some of the certifications that add to the excellence and credibility of our product offering:























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