



NEW **MIKA** **FX**<sup>TM</sup>  
EXTERIOR GRADE COMPACT LAMINATE



Greenlam is among the world's top three, Asia's largest, and India's No. 1 surfacing solutions brand. With its presence in over 100 countries, Greenlam has focussed 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.

30306 SUD Pietra Brown

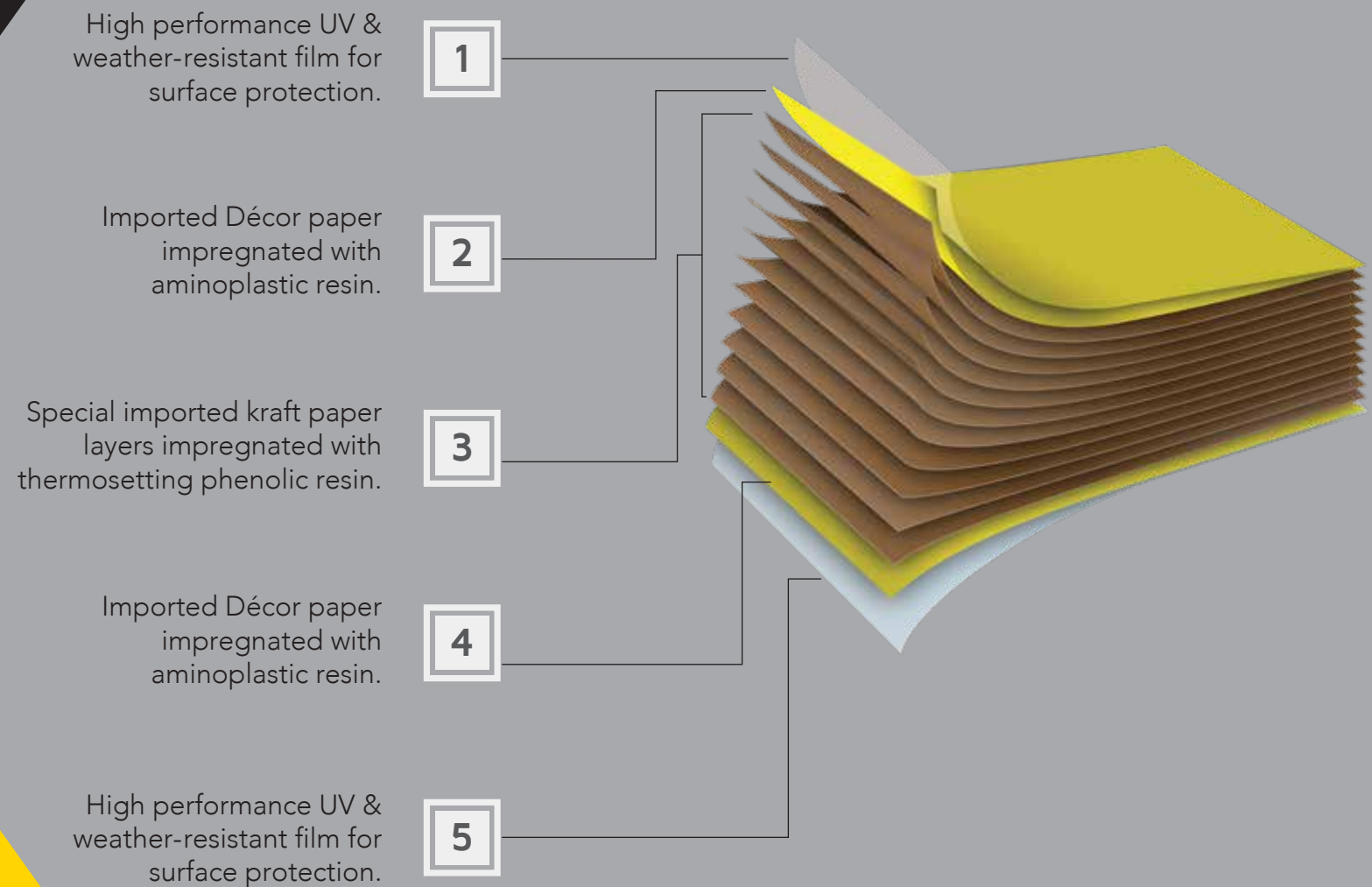
Application images shown are for illustration purpose only, please refer to actual product samples for color and finish available.



# TECHNOLOGY

To stand true to our claims of strong and sturdy surfaces, we make use of the latest technology for all our products. Designed with NMEF-Technology these exterior façade surfaces are durable to the core. 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 further manufactured under high pressures and temperatures to yield an exceptionally durable and dense panel. Making them strong enough to withstand extreme weather conditions.

## PRODUCT CONSTRUCT





30406 SUD Tawny Mustard

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# FEATURES



### Climatic Shock Resistant

Nothing can shock these surfaces. Not even sudden changes in temperature and humidity.



### Weather-Resistant

Be it heat, humidity, or extreme cold, these surfaces can handle it all.



### Fire-Retardant

These surfaces come with BS1DO – the best-in-the-category fire rating. Rest assured they won't go down in flames when in contact with heat and fire.



### Termite-Resistant

To ensure that termites don't damage your beautiful décor, the product comes with a termite-resistant treatment.



### UV-Resistant

NewMika FX comes with a special UV-treated coating to prevent fading of surfaces. Making the product fit for usage on exteriors.



### Abrasion-Resistant

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



### Moisture-Resistant

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



### Corrosion-Resistant

For buildings that look as good as new, the surfaces have the ability to prevent corruptions that can happen due to environmental reactions.



### Anti-Graffiti

Worried about spray paints, stains, or marks spoiling your beautiful facade? Don't be. Because these surfaces are super easy to clean and maintain.



### Mechanical Shock Resistant

With modified phenolic resin providing a great flexural strength and modulus of elasticity, these surfaces don't buckle under intense force or shock.



### Temperature Stability

Maintaining their form and structure even in the face of adversity, these surfaces can withstand temperatures as low as -50° C and as high as 80° C.



# APPLICATIONS



## Meet the Multifunctional NewMika 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
- Fencing
- Pillars
- Partitions
- Doors
- Railings
- Gates
- Outdoor Furniture and many more
- Ventilated Facades

### Sectors:

- Healthcare
- Public Facilities
- Shopping Malls
- Sports Facilities
- Airports
- Educational Institutions
- Commercial Spaces
- Residential
- Metro Stations
- Builder Apartments
- Railway Stations
- Bungalows
- Hospitality

### Segments:



Residence



Shopping Mall



Hotel



Office Building



Store

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Choose from a plethora of exquisitely crafted design range for your exteriors. The collection offers styles under three categories: timeless Wood, bold Abstract, and robust Solid.

# COLLECTION

With classic woodgrain patterns adorning your space, bring alive the exuberance of nature.

Embrace the exotic range of abstract designs and attractive patterns to add a contemporary twist.

Deck your space with solid yet vibrant colours to make a bold statement.

WOOD

ABSTRACT

SOLID

30404 SUD Tawny Taupe

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30105 SUD Cherry Glow



30105 SUD Cherry Glow

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**30101 SUD** Afro Larice



**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



ABSTRACT



30303 SUD Mildew Cemento



30303 SUD Mildew Cemento

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**30305 SUD** Oxy Steel



**30307 SUD** Pietra Grey



**30302 SUD** Bonzera Regale



**30301 SUD** Carentec Blight



**30304 SUD** Rustic Copper



**30306 SUD** Pietra Brown

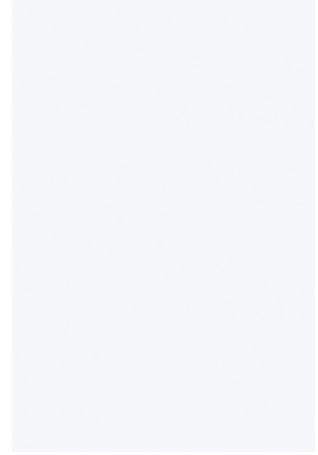




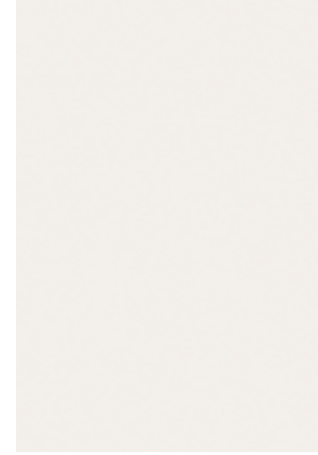
**SOLID**



**30401 SUD** Sea White; **30407 SUD** Coral Red



**30401 SUD** Sea White



**30402 SUD** Surreal White



**30405 SUD** Woody Beige



**30406 SUD** Tawny Mustard



**30403 SUD** Twill Grey



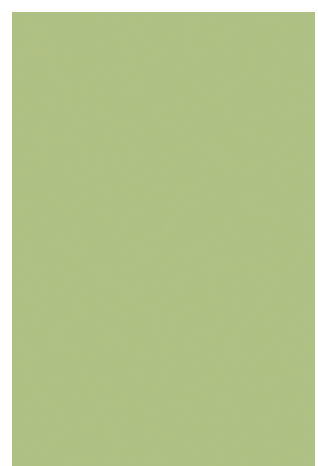
**30404 SUD** Tawny Taupe



**30410 SUD** Freur Grey



**30409 SUD** Robin Blue Lapis



**30408 SUD**ocado Green



**\*30407 SUD** Coral Red



**30411 SUD** Dark Forest

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# 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, make sure during installation the appropriate compensation clearance should be applied (the expansion gaps between panels must be 6mm), 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 10mm are suitable for riveted system on an aluminium substructure. This system is applied to high-rise buildings. Riveted is the recommended option.

- 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)



# 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: 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; Model No.: ST66151 (Options also available)



### 3. Drill Machine

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



### 8. Panel Gap

Vertical and Horizontal  
-Gap: 6mm minimum



### 4. Hammer Machine

Bosch GBH 222RE/ Equivalent



### 9. Rivet Distance

Maximum distance for façade: 450mm  
Maximum distance for soffit: 400mm



### 5. Brackets

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

(Maximum for 1 KPA wind speed)

### 10. Box Section Size and Thickness

38x38 and 38x74 of 14 gauge

### 11. Flexible Mouth Piece

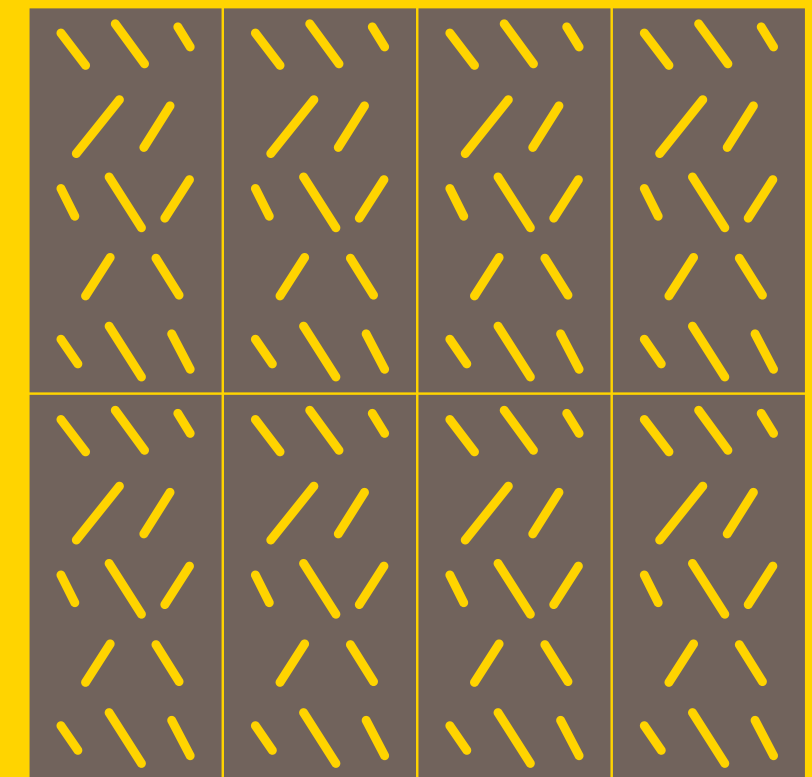


**30108 SUD** Dark Rosewood

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## 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 have to do is pick a geometrical shape (made of straight cuts), an abstract pattern, and a perforable design. The rest will be managed, packaged, and delivered by us. Connect with our sales representatives to know more and explore the possibilities.





# DIMENSION



**Size**  
 4 x 8 (ft)  
 1220 x 2440 (mm)

**Thickness**



**Standard Texture: SUEDE**

# COMPARISON CHART

NEWMIKA FX in comparison to other cladding materials

	HARDWOOD	STONE	ACP	TILE	 <small>EXTERIOR GRADE COMPACT LAMINATE</small>
Corrosion Resistant	×	×	×	×	✓
Weather Resistant	×	✓	×	✓	✓
Easy to Maintain	×	×	✓	✓	✓
Quick & Easy Installation	✓	×	✓	×	✓
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 be 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.

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.

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.

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.



### 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.

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.





# TECHNICAL SPECIFICATION

S. No.	Properties	Test Standard	Unit	Specified Values	Typical Test Values	Specified Values	Typical Test Values
1	Classification	EN 438-6-Cl. 4: 2016	EXTERIOR, SEVERE USE FLAME RETARDANT GRADE, EDF PHYSICAL & DIMENSIONAL PROPERTIES				
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 +10mm /-0mm	+5mm /-0mm	1220x2400mm +10mm /-0mm	+5mm /-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					
	Longitudinal Direction		%	0.30 (max.)	0.18	0.30 (max.)	0.17
	Transverse Direction		%	0.60 (max)	0.38	0.60 (max)	0.35

S. No.	Properties	Test Standard	Unit	Specified Values	Typical Test Values	Specified Values	Typical Test Values					
	Nominal Thickness		mm	6.0		8.0						
<b>MECHANICAL PROPERTIES</b>												
10	Resistance to Wet Conditions,	EN 438-2 : 15										
	Increase in Mass		%	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	EN 438-2 -22	Drop Height	mm	1800	2000	1800	2000				
			Diameter of Indentation	mm	10 (max)	7	10 (max)	7				
13	Flexural Strength	EN ISO 178:2003	Mpa	80 (min)	100	80 (min)	100					
14	Flexural Modulus	EN ISO 178:2003	Mpa	9000(min)	10700	9000(min)	10700					
15	Thermal Conductivity	EN 12524:2000	W/M²K	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					
<b>SURFACE PROPERTIES</b>												
17	Resistance to UV Light, after 1500 hours Exposure	EN 438-2-28	Rating	Grey Scale contrast-3 (min)	3~4	Grey Scale contrast-3 (min)	3~4					
				Appearance- 4 (min.)	4~5	Appearance- 4 (min.)	4~5					
18	Resistance to Artificial Weathering Including Light Fastness, after 650 MJ/M² Radiant Exposure	EN 438-2-29	Rating	Grey Scale contrast-3 (min)	3~4	Grey Scale contrast-3 (min)	3~4					
				Appearance-4 (min.)	4~5	Appearance- 4 (min.)	4~5					
<b>FIRE PERFORMANCE</b>												
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					
<b>HEALTH CHARACTERISTICS</b>												
21	Antibacterial Efficacy & Activity	IS 2801-2012										
	% Reduction in 24 hours							%	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	Antifungus Efficacy	ASTM G-21-2015					0 ( No Growth)					
	Growth after 28 days							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 liability/warranty, expressed or implied.  
 • Greenlam Industries Limited 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.  
 • 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:







#### **CORPORATE OFFICE**

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