

A Product Of
Greenlam
Industries Limited



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 **Mikasa**
LAMINATES
FX-EXTERIOR PANELS

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FX-EXTERIOR PANELS

EXTERIOR PANELS

ABOUT US

Greenlam Industries Limited ranks among the top three laminate manufacturers globally and is a leading integrated substrate and surface solutions provider. The company offers a wide range of products to customers in over 120 countries, consistently delivering innovation and quality. Its diverse product portfolio includes decorative laminates and compacts, interior and exterior cladding, restroom cubicles and locker solutions, decorative veneers, engineered wood floors & doors, plywood, pre-laminated chip board & MDF.

With five state-of-the-art manufacturing facilities located across India—in Behror (Rajasthan), Nalagarh (Himachal Pradesh), Prantij (Gujarat), Tindivanam (Tamil Nadu), and Naidupeta (Andhra Pradesh), Greenlam is committed to both quality and environmental responsibility. The company ethically sources its raw materials and holds numerous sustainability certifications ensuring its products are both safe and eco-friendly.



We began as NewMika, bringing beauty and quality to every surface we touched. Today, the name evolves, but the soul stays the same. Because the trust, the craft, and the promise you believed in, remain unchanged.

For years, Mikasa has shaped your world with floors that carried your laughter, doors that opened to new journeys, veneers that wrapped your walls in elegance, and plywood that gave strength to the heart of your home.

Now, it all comes together under one name. NewMika becomes Mikasa. It's not just a change in identity but a unified world of complete solutions for every space you call your own.

Because your trust deserves one commitment,
one promise,
one Mikasa.





Mikasa

LAMINATES

FX-EXTERIOR PANELS

Introducing Mikasa FX - an extraordinary collection of exterior-grade panels that will transform any space into a masterpiece! With a perfect blend of sophistication, durability, and simplicity, Mikasa FX encapsulates the essence of exceptional craftsmanship. Engineered with advanced weather-resistant technology, Mikasa FX provides exceptional longevity and protection against rain, wind, UV rays and sunlight. Whether in scorching summers or freezing winters, Mikasa FX ensures long-lasting performance, making it the ultimate choice for all-weather endurance.

The designs and the elements used in this catalog take inspiration from nature and it's seasons. The graphical illustrations depict the elements of nature, such as wind and water as our new-age exterior facade panels keep all the harshness of weather at bay.

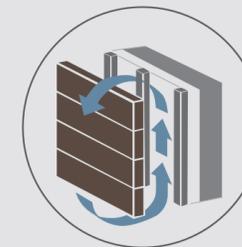
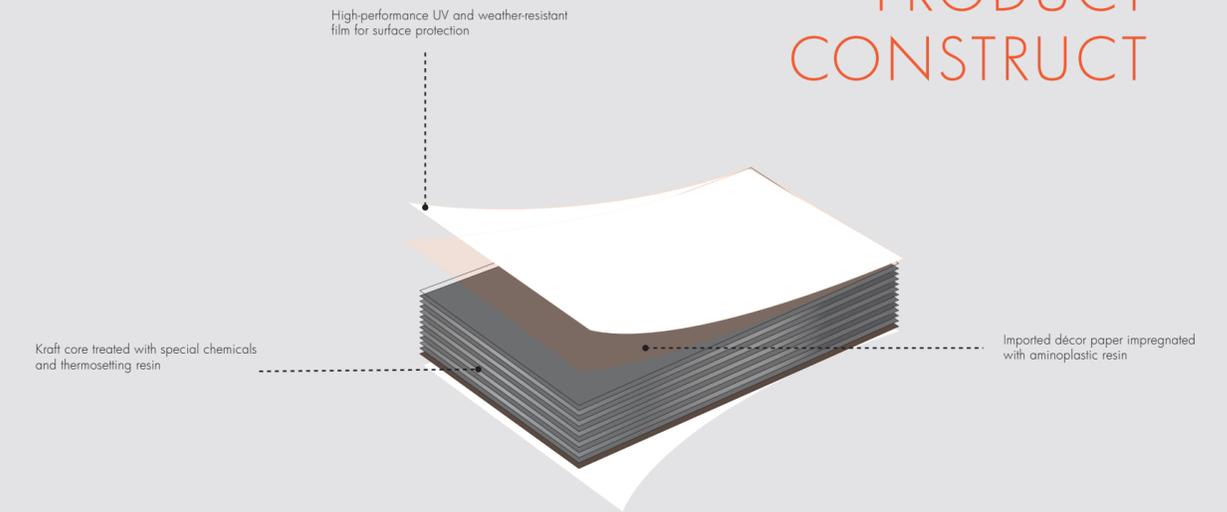


CUTTING-EDGE TECHNOLOGY

Remaining steadfast in our endeavour to provide robust exterior grade panels, we harness advanced technology across all our range. Crafted with NMEF-Technology, our exterior façade surfaces exude intrinsic durability. This range features a UV-resistant Top Coating, fortified by Poly Vinylidene (PV) and Acrylic layers, ensuring the preservation of the decorative surface against fading. Our panels are meticulously manufactured under high pressures and temperatures, yielding an exceptionally dense and durable composition. This empowers them to effortlessly endure even the harshest weather conditions.



PRODUCT CONSTRUCT



VENTILATED FACADE

Ventilated façade features a cladding system separated from the insulation by an air gap. This ventilation layer safely removes moisture, ensures rapid drying of external walls, and prevents capillary moisture ingress - resulting in a comfortable indoor climate. The structural separation of insulation and cladding also provides effective fire, sound, thermal, and weather protection. As the components are not glued, they can be dismantled and recycled separately, making the system sustainable. Proper airflow is essential - air must enter at the bottom, circulate freely behind the cladding, and exit at the top for optimal performance. Beyond performance, ventilated façades offer exceptional design flexibility, allowing the use or combination of materials such as fibre cement, glass, or clinker. They are also widely used in energy-efficient renovations.

Key Advantages:

- ◆ Clear separation of structure and weather protection
- ◆ Excellent moisture management through ventilation
- ◆ Low maintenance and high durability
- ◆ Wide creative freedom in material choices
- ◆ Easy dismantling and recycling
- ◆ Comfortable indoor climate in both summer and winter
- ◆ Ideal for energy-saving insulation upgrades
- ◆ Long-term value retention and enhancement

FEATURES

TEMPERATURE STABILITY

Withstand temperatures as low as -50°C and as high as 80°C maintaining their form and structure even in adversities



WEATHER-RESISTANT

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



FIRE-RETARDANT

Comes with **BS1D0** – the best-in-the-category fire rating. This ensures the panels won't go up in flames when in contact with fire



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



UV-RESISTANT

Comes with a special UV-treated coating to prevent fading of surfaces, making the product fit for usage on exteriors



TERMITE-RESISTANT

Comes with a termite-resistant treatment, that ensures termites don't damage your beautiful exteriors



ANTI-GRAFFITI

Say good bye to your worries about spray paints, stains, or marks as these surfaces are super easy to clean and maintain



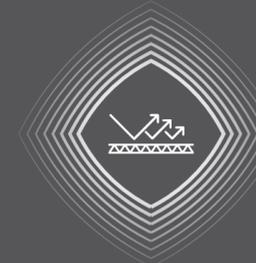
CLIMATIC SHOCK-RESISTANT

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



ABRASION-RESISTANT

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



CORROSION-RESISTANT

Prevent corrosions due to environmental reactions



QUALITY ASSURANCE



To know more about test reports
 Please scan the QR code above or visit
www.mikasalaminates.com/exterior-panels



APPLICATIONS



SEGMENTS



Residence



Commercial



Ropeway Station



Hospital



Educational Institutes



Health care



Port



Train/Metro Stations



Airport



Bus Terminus

Meet the Multifunctional Mikasa FX Exterior Panels

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

COLLECTION

Explore a wide range of meticulously crafted designs for your exteriors. This new edition features enhanced offerings with one brand new texture Shale and a new category Meta Luxe.



NEW TEXTURE
NEW CATEGORY

META LUXE

Timeless elegance of metallic surfaces that exudes a modern aesthetic, with a sense of luxury, depth, and luminosity.

SHALE

Shale boasts a striking texture that perfectly mimics authentic stone surfaces' intricate patterns and rugged charm.

WOODGRAIN

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

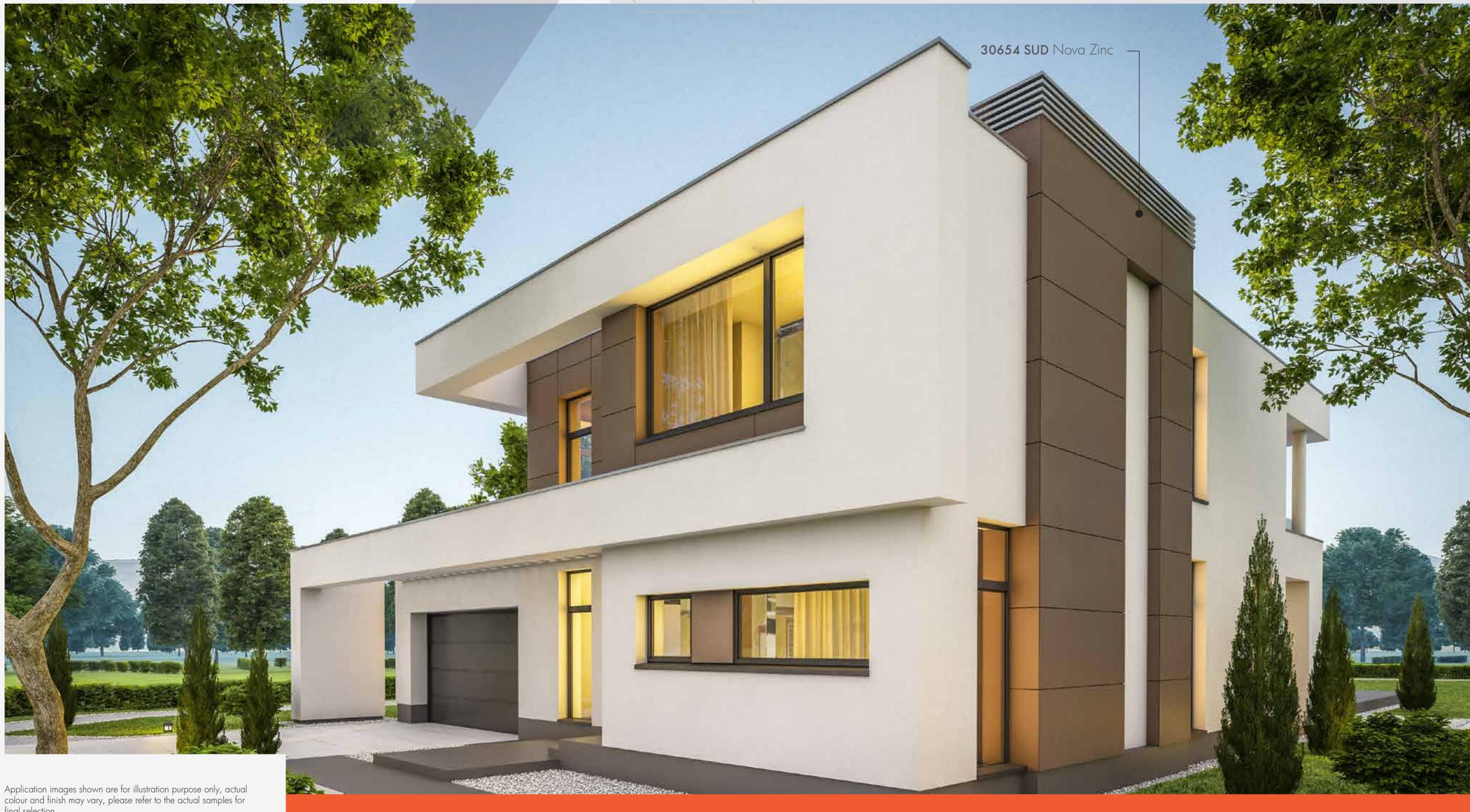
SOLID

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

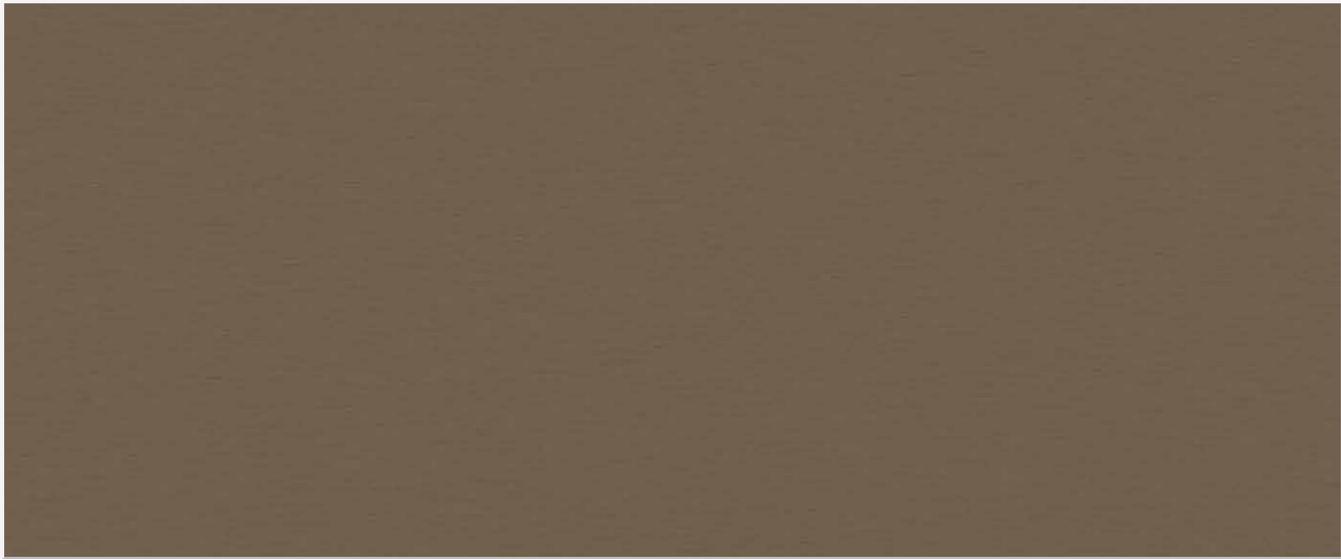
ABSTRACT

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

META LUXE



Application images shown are for illustration purpose only, actual colour and finish may vary, please refer to the actual samples for final selection.



30654 SUD Nova Zinc **NEW**



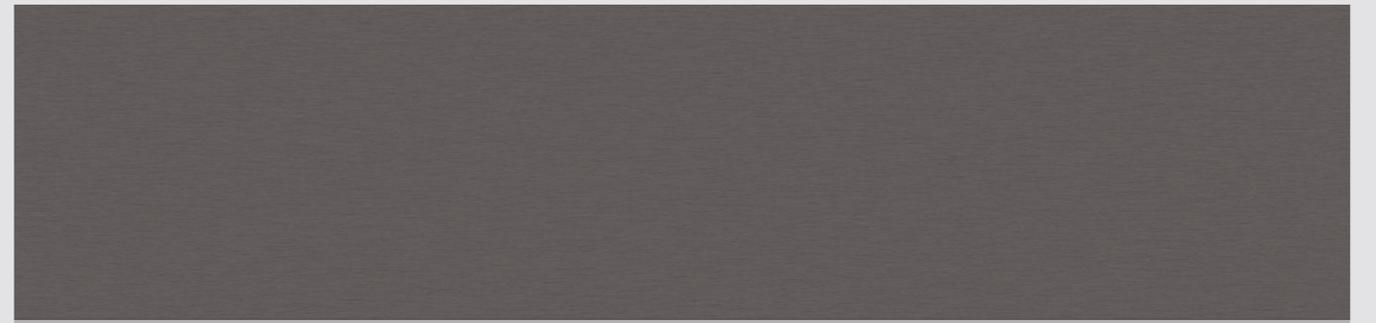
30655 SUD Cuprum **NEW**



META LUXE



30651 SUD Neo Silver **NEW**



30652 SUD Silvera **NEW**



30653 SUD Argelux **NEW**



META LUXE

SHALE



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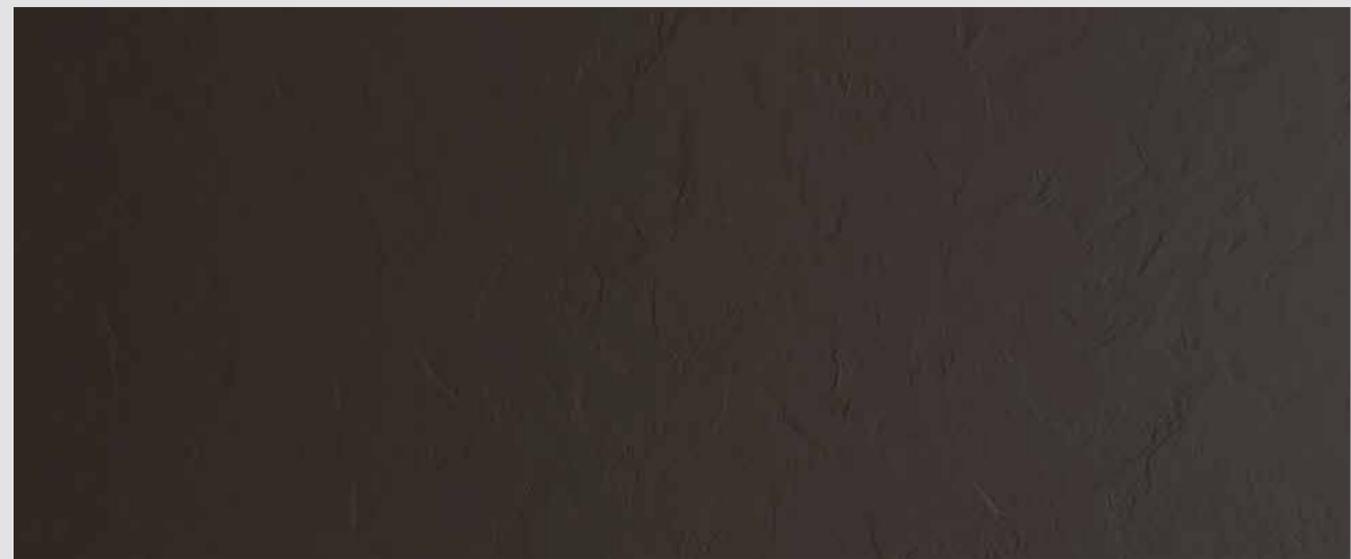
30314 SHL Troy Cement **NEW**



30404 SHL Tawny Taupe **NEW**



30304 SHL Rustic Copper **NEW**

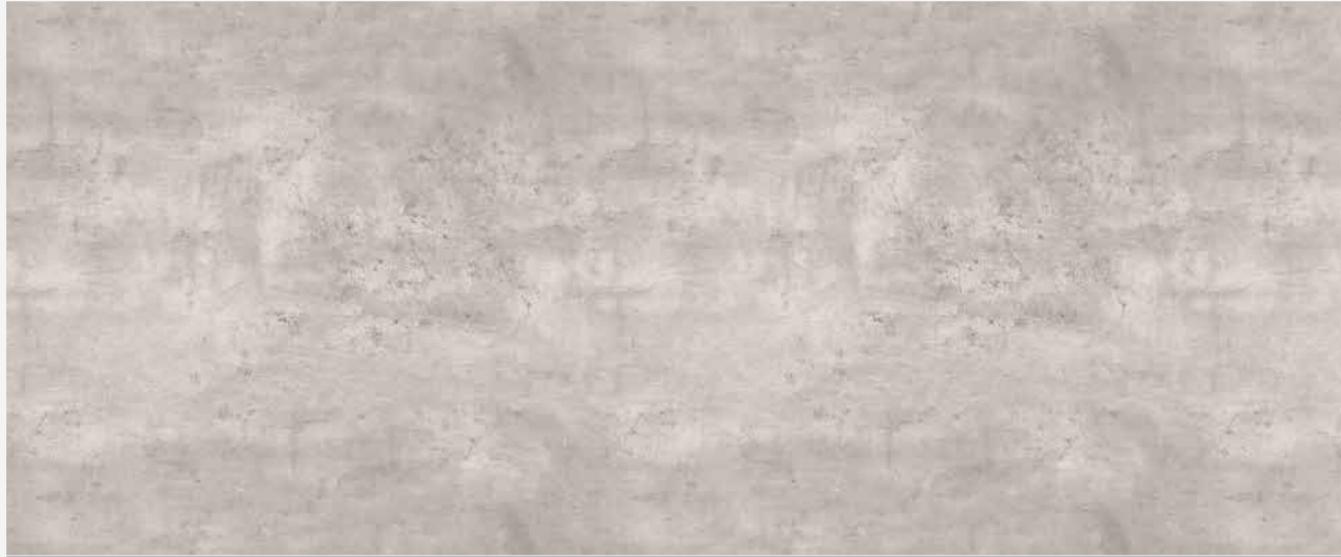


30412 SHL Basil Brown **NEW**



SHALE

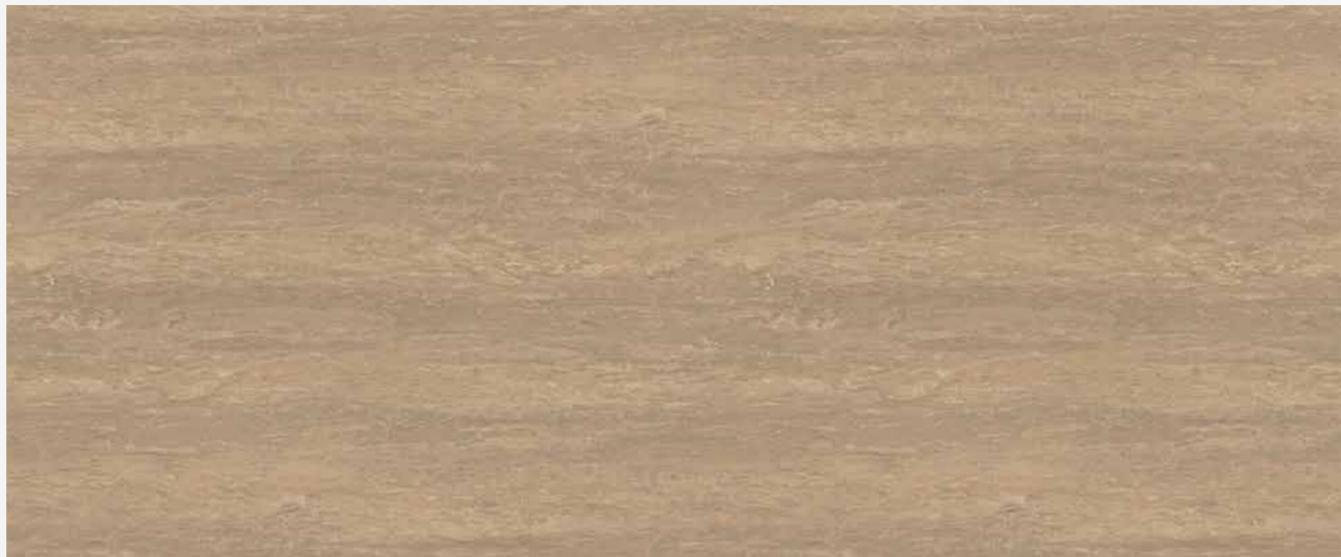
SHALE



30505 SHL Castello Grey **NEW**



30510 SHL Albario Grey **NEW**



30508 SHL Traviso **NEW**



30509 SHL Albario Anthracite **NEW**



SHALE

SHALE



30507 SHL Driftstone **NEW**



30506 SHL Rustique **NEW**



SHALE



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WOODGRAIN



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30103 SUD Walapter Oak



30117 SUD Noce Siwa



30114 SUD Redo Walnut



WOODGRAIN



30116 SUD Greenwich Pine



30107 SUD Unique Teak



30109 SUD Fresh Mahogany



WOODGRAIN



30120 SUD Velura Pine **NEW**



30121 SUD Larion **NEW**



30105 SUD Cherry Glow



WOODGRAIN



30110 SUD Urban Wood



30119 SUD Cairo Dark



30115 SUD Besai Walnut

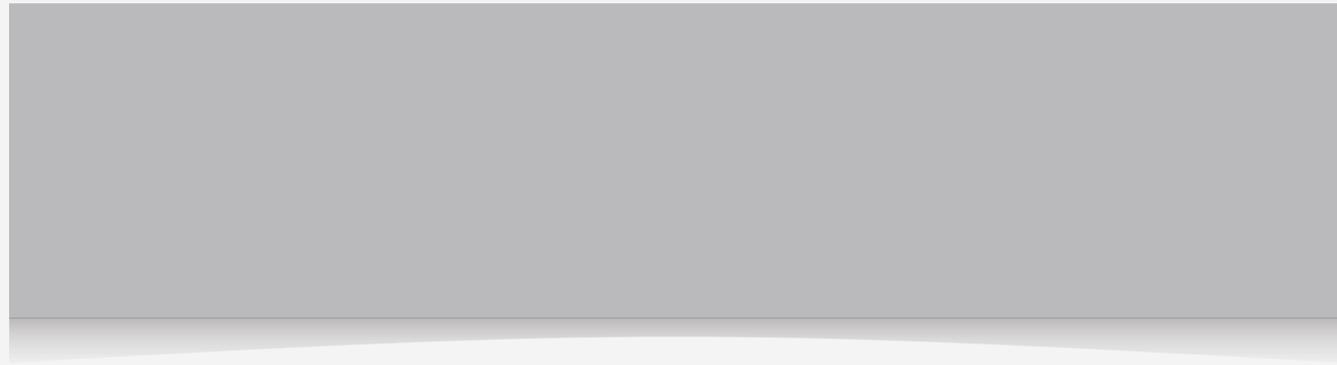


WOODGRAIN

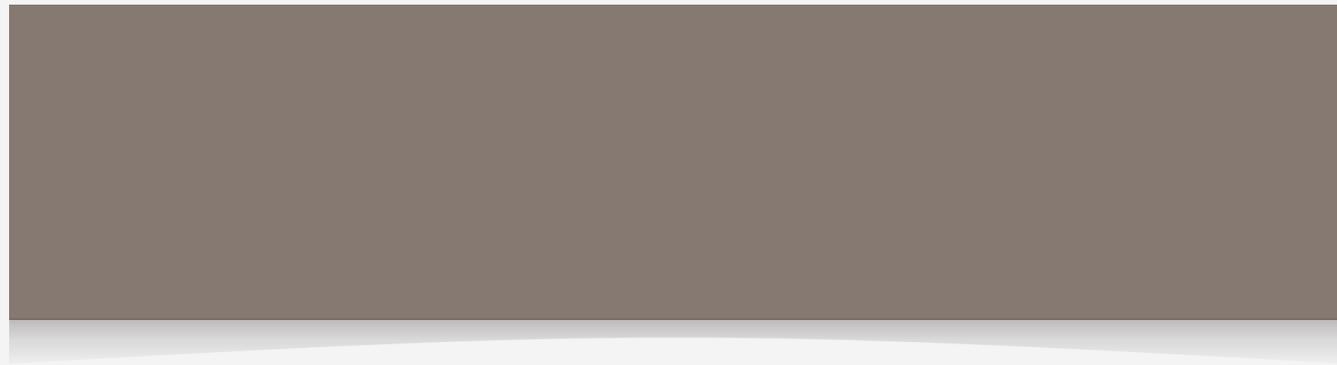
SOLID



Application images shown are for illustration purpose only, actual colour and finish may vary, please refer to the actual samples for final selection.



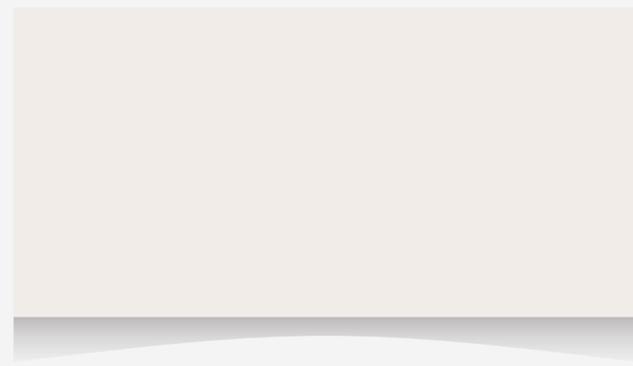
30403 SUD Twill Grey



30404 SUD Tawny Taupe



30405 SUD Woody Beige



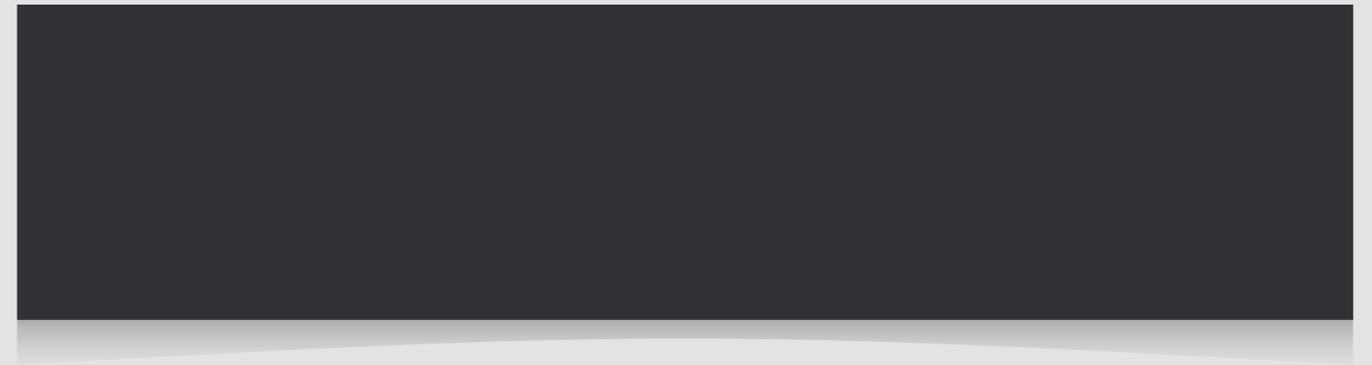
30402 SUD Surreal White



SOLID



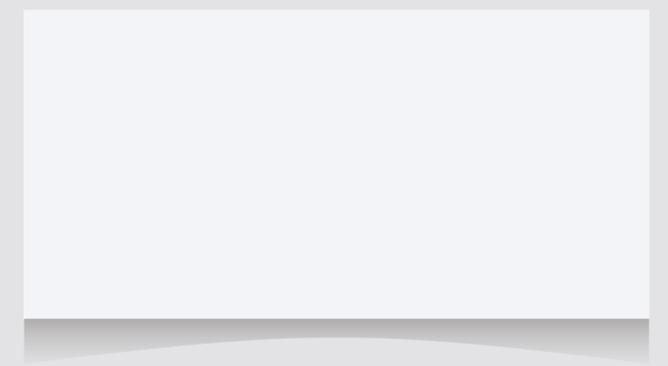
30406 SUD Tawny Mustard



30410 SUD Freur Grey



30412 SUD Basil Brown



30401 SUD Sea White



SOLID

ABSTRACT



Application images shown are for illustration purpose only, actual colour and finish may vary, please refer to the actual samples for final selection.



30510 SUD Albario Grey **NEW**



30511 SUD lumen Grey **NEW**



30309 SUD Terrazzo Naturalle



ABSTRACT



30508 SUD Traviso **NEW**



30507 SUD Driftstone **NEW**



30506 SUD Rustique **NEW**



ABSTRACT



30315 SUD Cracked Cemento Light



30316 SUD Cracked Cemento Dark



30307 SUD Pietra Grey



ABSTRACT



30505 SUD Castello Grey **NEW**



30314 SUD Troy Cement



30509 SUD Albario Anthracite **NEW**



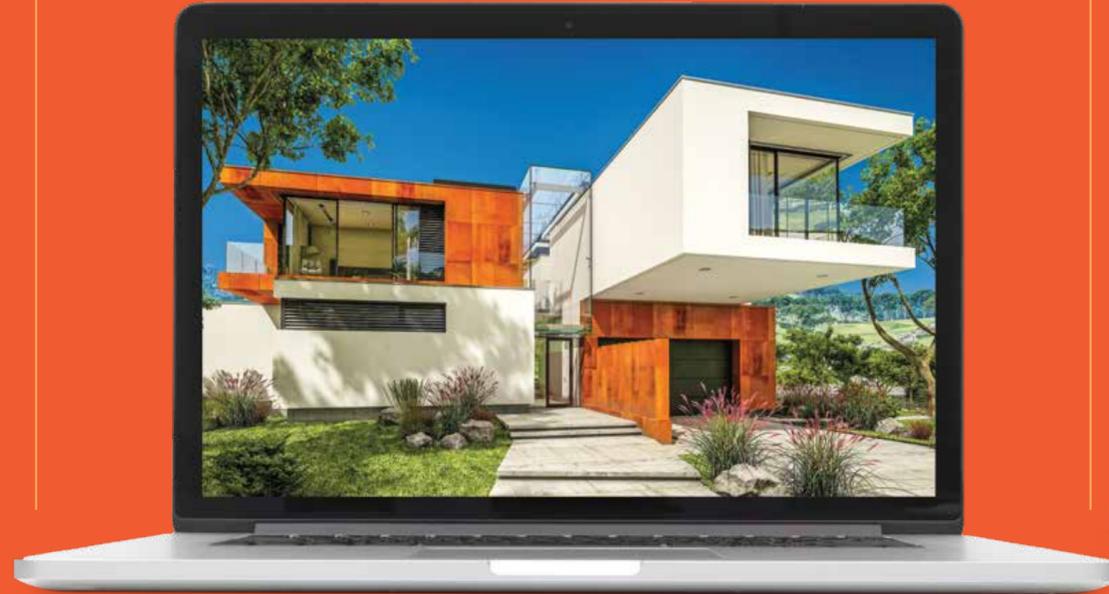
30304 SUD Rustic Copper



ABSTRACT



DESIGN LAB



Experience the bespoke solution to visualize your building's exterior with Mikasa FX.

Follow 3 simple steps to avail the service by connecting with our Sales Representative:

1. Simply capture a photo of your project with your smartphone.
2. Select the Mikasa FX designs as per your choice from the range or take our Design Lab expert advice.
3. Get your project visualized with multiple options within 48 hours.

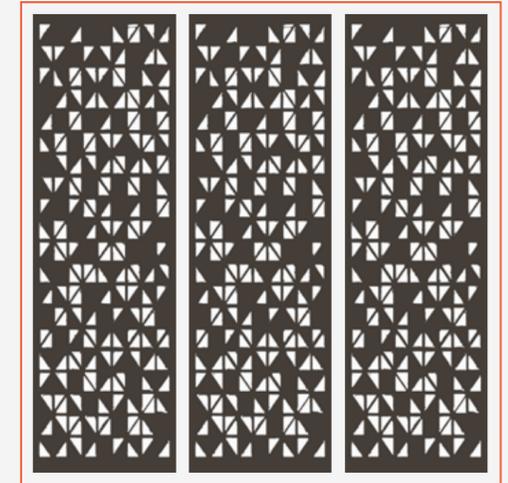
Choose the best-in-class makeover of your project. With Mikasa FX sculpt your exteriors and witness them transform them into reality.

INFINITE POSSIBILITIES

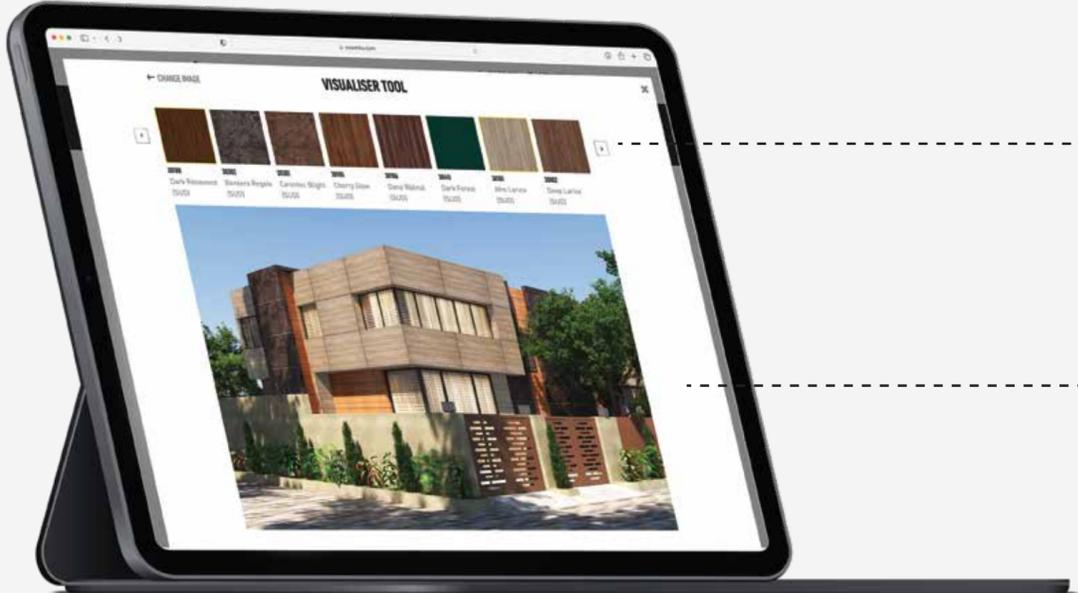
What's unique about **Mikasa FX** is its ability to adapt as per your requirements. Each exterior panel can be tailor-made and modified with cutting-edge CNC customisation. All you have to do is pick a geometrical shape (made of straight cuts), an abstract pattern or a perforable design.

The rest will be managed, packaged and delivered by us.

Connect with your **Mikasa FX** representative to know more and explore the possibilities.



VISUALISER



Choose any Décor

Result

The Visualiser Tool lets you apply any decor from our collection and a façade to see how it really looks on an exterior space.

Scan the QR code to visit the Mikasa FX website and experience the Mikasa FX.



Scan QR Code

COMPARISON CHART

Mikasa FX in comparison to other cladding materials

	 Mikasa LAMINATES FX-EXTERIOR PANELS	HARDWOOD	ACP	GLASS	STONE	TILE
 Fire-retardant	●			●	●	●
 Easy to maintain	●		●			●
 Quick & easy installation	●	●	●			●
 Durability	●				●	●
 Ant-graffiti	●					
 Energy efficient	●					
 Chemical-resistant	●					
 Corrosion-resistant	●					
 Customisable	●					

MATERIAL HANDLING



The Mikasa 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 Mikasa 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 20-30cm, 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 Mikasa 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.



The Mikasa 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 overload the stack. The protective foil should not be exposed to continual direct sun or heat.

Points to remember:

- Mikasa FX must be secured against slippage during transport.
- When loading or unloading, the panels must be lifted and 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.



Mikasa 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. Mikasa 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 Mikasa 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 TRANSPORTATION AND HANDLING

✓ DO'S

- Ensure storage of Mikasa FX in dry, clean, frost-free and enclosed warehouses where normal interior conditions (18° - 30° 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.
- Mikasa 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 Mikasa 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

PROPERTIES	TEST STANDARD	UNIT	SPECIFIED VALUES	TYPICAL TEST VALUES	SPECIFIED VALUES	TYPICAL TEST VALUES
Classification	EN 438-6-Cl. 4: 2016		EXTERIOR, SEVERE USE FLAME RETARDANT GRADE, EDF			
PHYSICAL & DIMENSIONAL PROPERTIES						
Nominal Thickness		mm	6.0		8.0	
Thickness Variation	EN 438-2 - 5	mm	6.0 ± 0.40	6.0 ± 0.30	8.0 ± 0.50	8.0 ± 0.35
Length and width Variation	EN 438-2 - 6	mm	1220 X 2440 +10mm /-0mm	+5mm /-0mm	+10mm /-0mm	+5mm /-0mm
Edges Straightness	EN 438-2 - 7	mm/M	1.5 (max)	≤ 1	1.5 (max)	≤ 1
Edges Squareness	EN 438-2 - 8	mm/M	1.5 (max)	Complies	1.5 (max)	Complies
Flatness	EN 438-2 - 9	mm/M	5.0 (max)	Complies	5.0 (max)	Complies
Density	EN ISO 1183 -1:2004	g/cm ³	1.35	1.38	1.35	1.38
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
MECHANICAL PROPERTIES						
Resistance to wet conditions, 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
Resistance to climatic shock	EN 438-2 : 19	Rating	Appearance -4 (min)	4	Appearance -4 (min)	4
		Index	D _s - 0.80 (min)	≥ 0.95	D _s - 0.80 (min)	≥ 0.95
		Index	D _m - 0.80 (min)	≥ 0.95	D _m - 0.80 (min)	≥ 0.95
Resistance to Impact by Large Diameter Ball						
Drop Height	EN 438-2 -22	mm	1800	2000	1800	2000
Diameter of Indentation		mm	10 (max)	7	10 (max)	7
Flexural Strength	EN ISO 178:2003	Mpa	80 (min)	100	80 (min)	100
Flexural Modulus	EN ISO 178:2003	Mpa	9000(min)	10700	9000(min)	10700
Thermal Conductivity	EN 12524:2000	W/M ² K	No requirement	0.24	No requirement	0.24
Resistance to fixing (Screw pull out strength)	ISO 13894-1; 9	N	2000 (min)	≥2000	2000 (min)	≥2000
SURFACE PROPERTIES						
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
Resistance to artificial weathering including light fastness, after 650 MJ/M ² 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
FIRE PERFORMANCE						
Reaction to Fire	EN 13501-1	Euro class	B-s2, d0	B-s1, d0	B-s2, d0	B-s1, d0
Calorific Value	ISO 1716: 2010	MJ/kg	19.91 (max)	19.88	19.91 (max)	19.88
HEALTH CHARACTERISTICS						
Anti-bacterial Efficacy & activity	JIS 2801-2012	%	95.0 (min)	99.99	95.0 (min)	99.99
% Reduction in 24 hours		Log Reduction	2.0 (min)	Exceeds	2.0 (min)	Exceeds
Activity after 24 hours						
Anti-Fungus Efficacy	ASTM G-21-2015	Class	1	0 (No Growth)	1	0 (No Growth)
Growth after 28 days						

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 funiculosum, 3. Gliocladium virens, 4. Chaetobium globosum 5. Aurobasidium pullulans



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Limited Warranty: Greenlam Industries Limited warrants to the original buyer that Mikasa FX Panel will be free of defects under normal, proper and intended usage, within acceptable manufacturing specification, buyer's remedy in case of claims, as a result of defective panel, shall be limited to only the replacement of panel by Greenlam Industries Limited.