



PRODUCTS:  
EXTERIOR GRADE COMPACT HPL  
INTERIOR GRADE COMPACT HPL



1<sup>ST</sup>  
JAN  
2024

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# ABOUT US

**37**  
YEARS OF SUCCESS

- **Established Legacy:** Samrat, a renowned Indian brand, boasts over 35 years of expertise in manufacturing top-notch Plywood, Laminates, and HPL Claddings.
- **Industry Leadership:** Since its inception in 1988, Samrat has evolved into a leading player in the Plywood and Laminate sector in India, supported by three state-of-the-art factories in North India.
- **Product Excellence:** Samrat's commitment to delivering the highest quality products is reflected in prestigious certifications such as CE, CARB, FSC, FR: BS1D0, E0, E05, GRIHA, GREEN PRO, ISI, ISO, EN 636, Anti-Viral, and Antibacterial.
- **Values-Driven Approach:** The company's work ethic revolves around its Values, Vision, and Mission, ensuring customer satisfaction at the highest level in terms of communication, service, and quality.
- **Global Presence:** With a strong footprint in 21 states across India and a global reach spanning 25 countries, Samrat Plywood has earned a reputation for excellence and reliability in the industry.

# SAMRAT HPL PRODUCTS

- 
- EXTERIOR COMPACT HPL
  - INTERIOR COMPACT HPL
  - TABLE TOP COMPACT HPL
  - PERFORATED COMPACT HPL
  - LAB GRADE COMPACT HPL
  - ANTI BACTERIAL COMPACT HPL
  - CLEAN ROOM COMPACT HPL
  - FR GRADE COMPACT HPL
  - ANTI VIRAL COMPACT HPL

## THICKNESS :

- 3 mm
- 4 mm
- 6 mm
- 8 mm
- 10 mm
- 12 mm
- Upto 20 mm

## SIZES OFFERED :

- 1300 mm x 3050 mm
- 1220 mm x 3050 mm
- 1300 mm x 2800 mm
- 1220 mm x 2440 mm
- 900 mm x 2150 mm

# WHAT IS HPL?



## OVERVIEW

- HPL, meeting EN 438 standards, offers outstanding characteristics like durability, cleanability, and wear resistance.
- Provides a wide range of technical and design possibilities.
- Easy to process and maintain, making it suitable for various applications.

## MANUFACTURING AND COMPOSITION

- A cellulosic fibrous-based core material (normal paper) is impregnated with a thermosetting resin.
- Pressed under simultaneous heat application (temperature  $> 120^{\circ}\text{C}$ ) and high specific pressure ( $\geq 50\text{MPa}$ ).
- Results in a homogenous, non-porous material with a density  $\geq 1.35\text{g/cm}$ .
- Decorative surfaces feature material resins known for hardness, and core layers consist of cured Phenolic resin.
- Exterior-grade HPL may include an additional outer layer or coating for enhanced weather and light protection.

## DECORATIVE SCOPE

- Available in a wide range of colours, patterns, and abstract designs.
- Different textures and gloss levels enhance aesthetic possibilities.
- Excellent reproduction of natural materials, including textiles, fabrics, exotic wood veneers, and stone.
- Customized designs are achievable through various printing technologies (digital, screen, offset).
- Alternative finishes such as metal, real wood veneer, and pearlescent effects broaden the designer's palette.

## WHAT MAKES SAMRAT HPL SPECIAL?

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Introducing the all new innovation from house of Samrat, Special fade resistance range of Exterior Cladding to withstand the adverse action of atmospheric Ultra Violet Rays and exterior atmospheric effects with minimum fading of colours.

Those cladding are strong, self supporting and durable, promising incredible value and trendy designs, paired with greater durability which allows your outdoors to withstand the weather and withering effects.

Versatile, durable and practical, Samrat Exterior Cladding are ideal for facades, balconies, outdoor furniture and other exterior applications, Samrat's high quality Exterior Cladding are available in large format panels for cladding balconies and building facades.

Enveloped with Samrat's perfection, your building will cast an unforgettable impression everytime.

## ENVIRONMENTAL AND HEALTH ADVANTAGES OF SAMRAT HPL

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- Samrat HPL are cured and **chemically inert**.
- Samrat HPL **formaldehyde emission levels** are well below the limit for wood-based materials.
- Samrat HPL is **approved** for **contact with foodstuffs**, with **no migration** affecting food.
- Samrat HPL Surfaces are **resistant to common household solvents** and chemicals, making them ideal for applications where cleanliness and hygiene are crucial.
- The non-porous Samrat HPL surface and edges are **easy to disinfect** with hot water, steam, and common disinfectants used in hospitals and commercial facilities.
- Samrat HPL is considered an article, not a chemical substance, **exempting it from REACH regulations**. However, an information exchange with raw material suppliers on REACH-relevant substance properties is maintained.

# WHY USE SAMRAT HPL?



## Special Fade Resistance:

Introducing Samrat's latest innovation the **Special Fade Resistance range of Exterior Cladding**, designed to withstand the adverse effects of atmospheric ultraviolet rays and minimize colour fading.

## Robust and Durable:

Samrat Exterior Cladding is known for its **strength, self-supporting structure, and remarkable durability**, ensuring a long-lasting and appealing outdoor aesthetic.

## Value and Trendy Designs:

Experience the perfect blend of value and **contemporary design**, promising **incredible aesthetics** while maintaining longevity against weather and external elements.

## Versatile Applications:

Ideal for a range of **exterior applications, including facades, balconies, outdoor furniture**, and more. These cladding solutions are adaptable to various outdoor spaces.

## Large Format Panels:

Samrat's high-quality Exterior Cladding is available in **large format panels**, specifically crafted for cladding balconies and building facades, providing a seamless and visually appealing finish.

## Unforgettable Impression:

Enveloped with **Samrat's commitment to perfection**, these cladding solutions ensure that your building leaves an **unforgettable impression every time**, combining innovation with enduring style.

## 10-Year Peace of Mind Warranty:

Rest easy with our Exterior Cladding backed by a **10-year warranty**, safeguarding **against fading and delamination** for unparalleled durability and quality assurance.

## Luxurious Decor Papers:

Immerse yourself in opulence with our **premium Decor Papers** sourced from renowned **German companies** Schattdecor, Chiyodo, Lamigraf, Interprint, Munksjo, and Technocell. This forms the exquisite **All Blue scale 6 Plus Decor Paper collection**.

## Diverse Design Collection:

Explore one of the most extensive UV-grade Exterior Cladding collections, showcasing over **75 designs** from **prestigious companies** like Schattdecor, Chiyodo, Lamigraf, Interprint, Munksjo, Technocell, and more.

## Industry Pioneers:

With over a **12 years of experience**, we proudly stand among the **first companies** to **manufacture Exterior Claddings** in India, contributing to the industry's growth and fostering innovation.

## Proven Excellence:

Trust our expertise with a proven track record—over **2 million square meters installed globally in the past 12 years**. This reflects our unwavering commitment to excellence and customer satisfaction.

## Extensive Network:

Benefit from our **widespread Pan India network of dealers, covering 21 states and 300 cities/towns**. Experience accessibility and support wherever you are in your architectural endeavours.

## Global Trust:

Extend your trust globally, as our **presence** spans over **25 countries**, exemplifying international acceptance and recognition of our **high-quality Exterior Cladding**.

## Top-Notch Materials:

Crafted with precision, all our panels utilize **Virgin Kraft** primarily **imported from Sweden and the USA**, ensuring unmatched quality, strength, and durability.

## Architect's Choice:

**Preferred by senior architects** across India for **prestigious projects**, our panels adorn nationalized banks, hospitals, institutions, government projects, hotels, and more. A testament to the **superior quality** and design of our products.

## Expert Consultation:

Access **24/7 in-house consultancy** from an industry-renowned professional, **offering expert guidance** on Exterior Claddings. Make informed decisions for your projects with confidence.

# CHARACTERISTIC ADVANTAGES OF SAMRAT HPL

- **Aesthetic Appeal** - Uniform decors and colours which come in different shapes and sizes give you freedom to architectural view.
- **Resistant to UV Rays** - Samrat Exterior Cladding is highly resistant to UV rays found in Sun Light and therefore, panels do not lose its original colour and hue in direct sun light.
- **Weather Resistance** - Excellent dimensional stability under different extreme weather conditions.
- **Easy to Clean** - Panels do not attract dust and therefore easily using cleanable with damp cloth.
- **Fire Retardant** - HPL are difficult to ignite and have properties that retard spreading of flames. In a fire situation they do not soften or release burning droplets.

Through the right selection of quality and thickness (standard or fire retardant grade HPL can meet the highest fire performance achievable with organic materials.

- **Cost Effective** - No maintenance cost, replacement of individual panel is possible.

Acts as a barrier of wind, rain and sunlight.

- **Mechanical and Physical Properties**  
Resistance to scratching  
Resistance to abrasion  
Impact strength  
Resistance to cigarette burns  
Resistance to heat  
Light fastness  
Antistatic up to electrical dissipation.

- **Chemical Properties**  
Resistance to staining  
Resistance to chemical attack  
Resistance to organic solvents  
Resistance to steam  
Resistance to boiling water.

- **Physiological Characteristics of HPL Surfaces** - HPL are hygienic, harmless, non toxic and can be safely used in contact with food.

- **Diffusion Barrier** - When bonded to a substrate HPL acts as a barrier preventing the emission of potential volatile substances.

- **Durability** - Compared to other decorative materials like paints, thermoplastic foils, veneers etc, HPL offers a significantly longer life of more than 15 Years, can be expected without loss of appearance and performance.



# FEATURES



**12 YEAR  
WARRANTY\***



**CHEMICAL  
RESISTANT**



**ANTI-DUST**



**LOW VOC  
EMISSION**



**TERMITE  
RESISTANT**



**EXCELLENT ANTI  
GRAFFITI PROPERTIES**



**CORROSION  
RESISTANT**



**MATCHING  
RIVETS**



**ENVIRONMENT  
FRIENDLY**



**FIRE  
RETARDANT**



**ENERGY  
EFFICIENT**



**MOISTURE  
RESSISTANT**



**RESISTANCE  
TO ACID RAINS**



**ANTI - BACTERIAL  
AND ANTI - FUNGAL**



**CAN WITHSTAND EXTREME TEMPERATURE  
CONDITION FROM - 60C TO +80C**

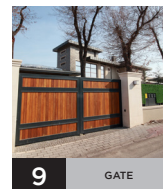
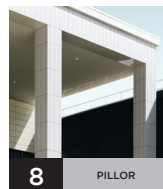
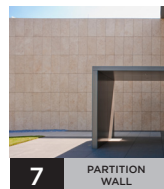
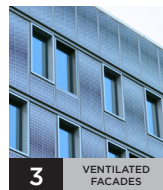
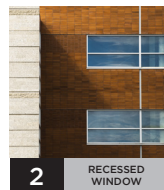
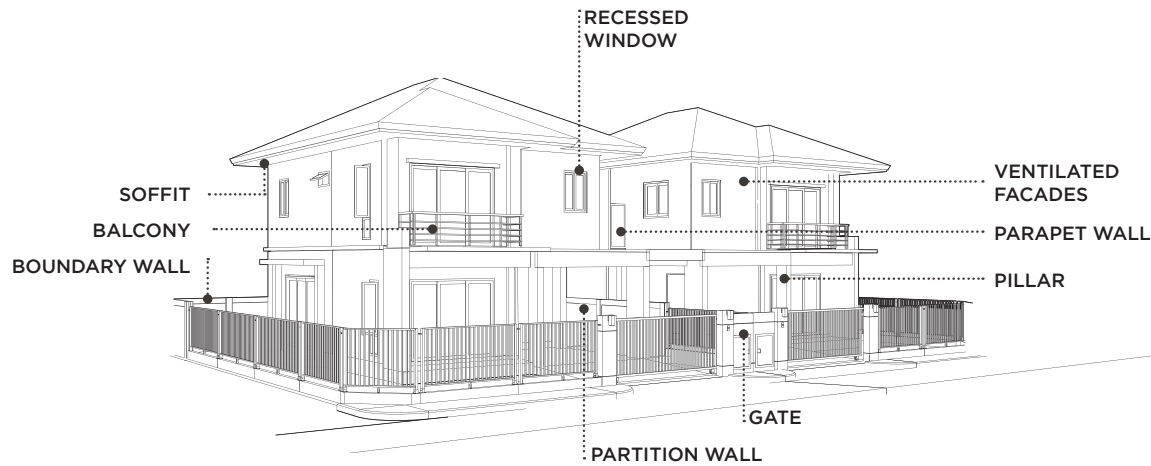


**ACOUSTIC  
RESSISTANCE**



**SUPERIOR LIGHT FASTNESS  
PERFORMANCE (UV RESISTANCE)**

# APPLICATION FIELDS FOR HPL



## Market Segments

- Private and residential housing
- Hospital and laboratories
- Public buildings
- Railway station and airport terminal/infrastructure
- Transportation
- Hotels
- Education
- Retail and commercial buildings
- Sports and recreation centres
- Industrial buildings

## Application areas interior

- Walls and partitions
- Ceilings
- Doors
- Flooring
- Stairs
- Furniture/chairs
- Trims
- Window slims
- Tables
- Work tops, counter tops
- Vanity units
- Cubicles
- Display/shop systems

## Exterior

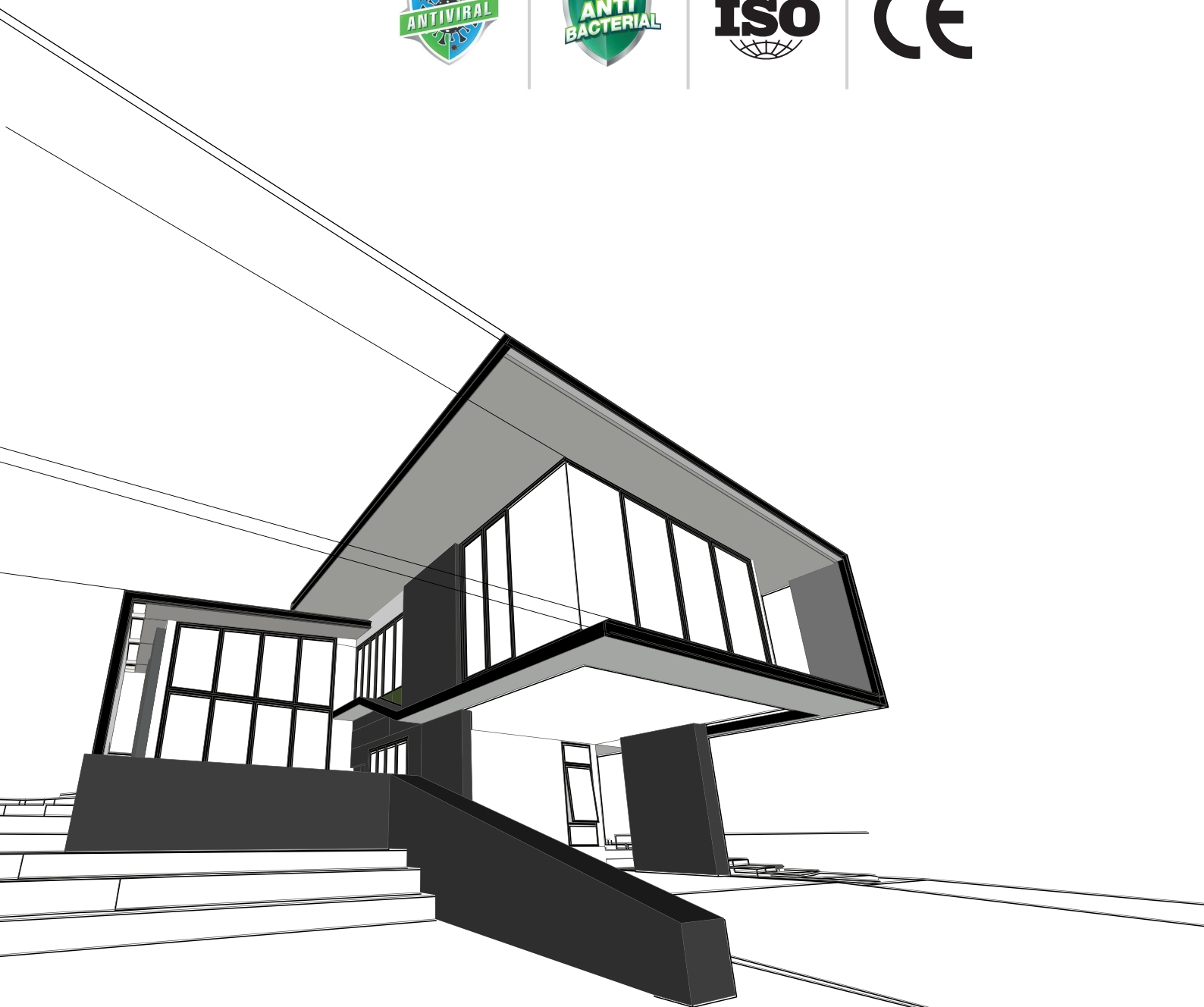
- Balconies
- Facades
- Furniture and signs
- Urban elements
- Orientation systems

# PRODUCT ADVANTAGES OF HPL

	HARDWOOD	ACP	GLASS	STONE	TILE	SAMRAT CLADS
<b>FIRE RETARDANT</b>	×	×	✓	✓	✓	✓
<b>EASY TO MAINTAIN</b>	×	✓	×	×	✓	✓
<b>QUICK &amp; EASY INSTALLATION</b>	✓	✓	×	×	✓	✓
<b>DURABILITY</b>	×	×	×	✓	✓	✓
<b>ANTI-GRAFFITI</b>	×	×	×	×	×	✓
<b>ENERGY EFFICIENT</b>	×	×	×	×	×	✓
<b>CHEMICAL RESISTANT</b>	×	×	×	×	×	✓
<b>ANTI-DUST</b>	×	×	×	×	×	✓
<b>CORROSION RESISTANT</b>	×	×	×	×	×	✓
<b>CUSTOMISABLE</b>	×	×	×	×	×	✓



# QUALITY ASSURANCE



70 CHANNEL PARTNERS  
COVERING 25 COUNTRIES  
GLOBALLY

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OVER 2.5 MILLION  
SQUARE METERS  
INSTALLED GLOBALLY  
IN THE PAST 12 YEARS

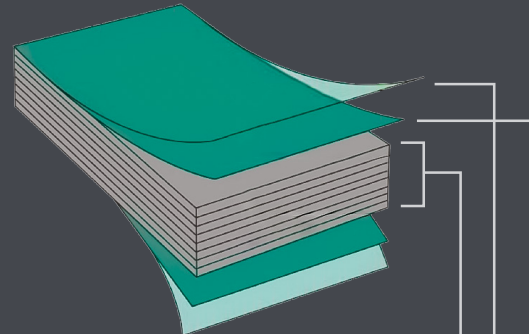


# PRODUCT CONSTRUCT

## INTERNAL STRUCTURAL DETAILS

Samrat HPL are self-supporting high pressure laminates (HPL) with a decorative surface that is suitable for exteriors. It is fade-resistant, weather-proof, and compliant to the standards of EDF (EN 438-6 Exterior Grade Severe Use Flame Retardant) which is the best in this classification.

The polymeric resins used are made with Non-Halogenated Fire Retardant chemicals which make the HPL fire-retardant.



### PRODUCT CONSTRUCTION

Special Polymeric Film for Surface Protection Both Sides

Special Exterior Décor Paper Impregnated with Thermosetting Resin on Both Sides

Kraft Core Treated with Special Chemicals and Halogen-Free HR Additives in Thermosetting Resin

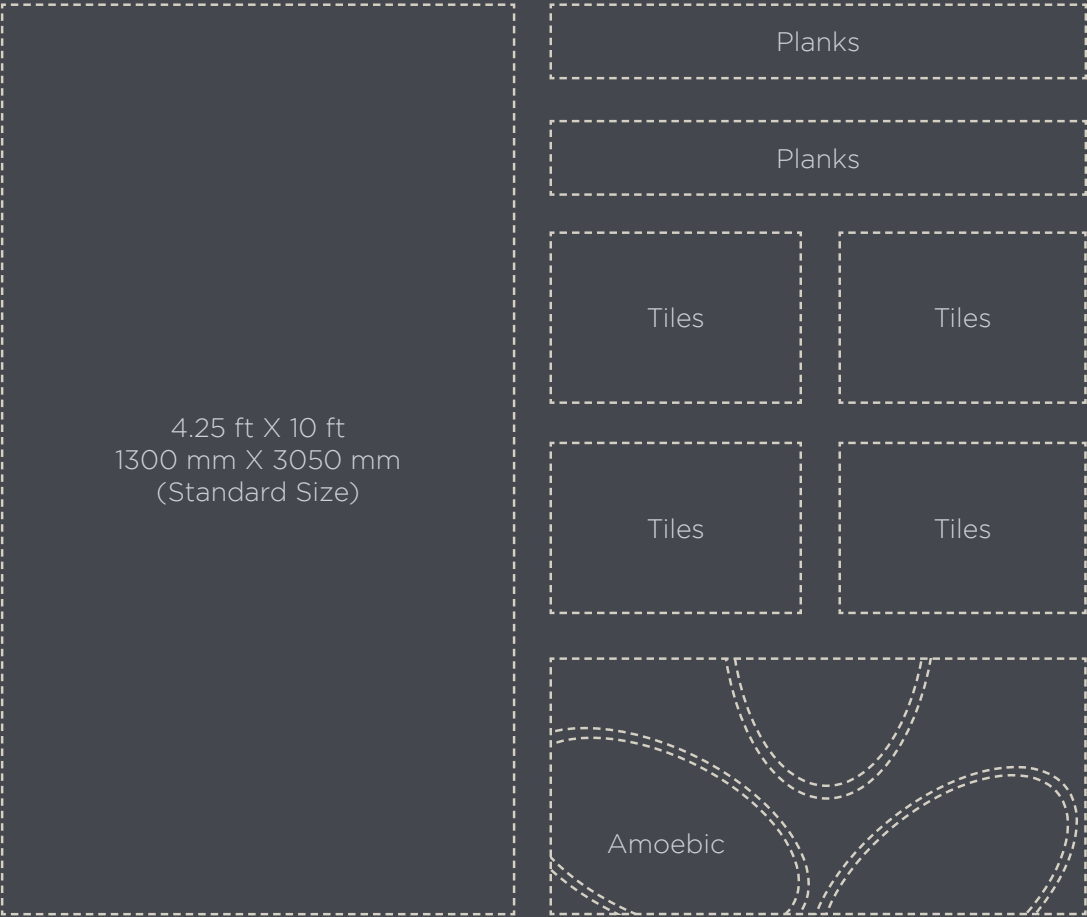
## THE PRODUCT IS MADE UP OF:

1. Layers of kraft paper impregnated with halogen free FR-Grade phenolic resins that make the product fire-retardant.
2. Both the sides have a special exterior-grade decorative paper surface made using extreme light stable pigments, special chemicals, and inks that are then impregnated with melamine resins. The decor paper is rated 3-5 on Grey Scale, hence making it fit to use for exteriors.
3. Best quality polymeric surface protection film layer on the front and rear surface of the board. This film layer guards the surface of Samrat Clads when exposed to the combined action of direct sunlight, rains/acid rains, hail, wind, frost, exhaust fumes, graffiti, and corrosion/salt deposition.

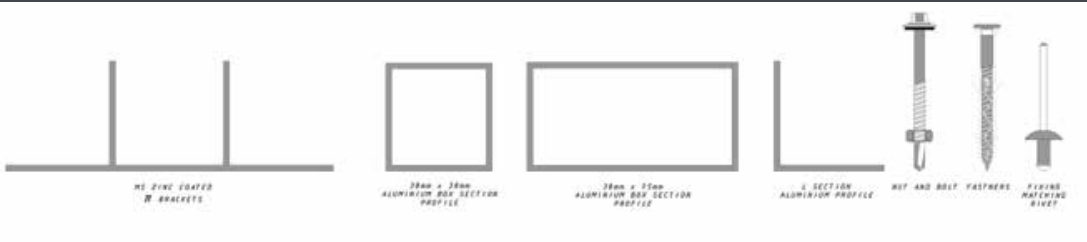
# PRODUCT SPECIFICATIONS

THICKNESS	WEIGHT (KG)		
	3050mm X 1300mm	3050mm X 1220mm	2440mm X 1220mm
6 mm	34.65	32.5	26
8 mm	46.2	43.35	34.6
10 mm	57.75	54.15	43.25
12 mm	69.3	65	52

## INSTALLATION PATTERNS



## FIXING PROFILES OF CLADS



# DESIGNS COLLECTIONS



322



324



410



453



454



484



662



817



818



823



953



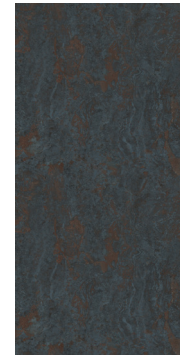
2028



2029



2031



2032



2204



2221



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2233



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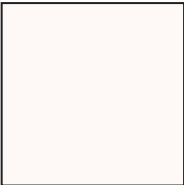
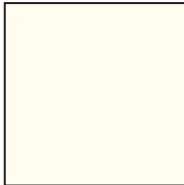
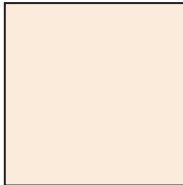
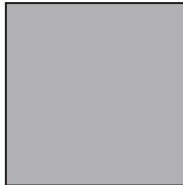

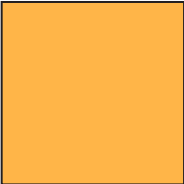
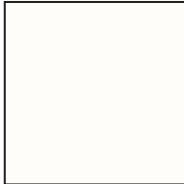
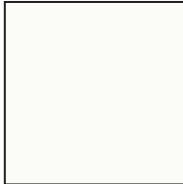
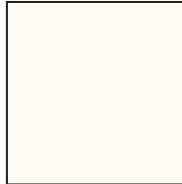
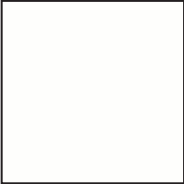

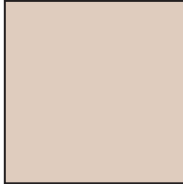
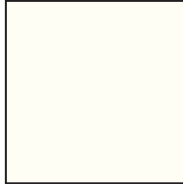
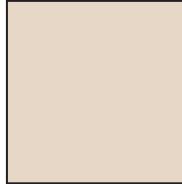



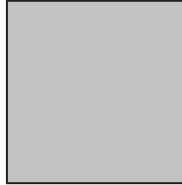
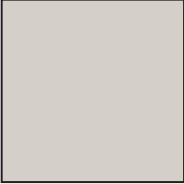
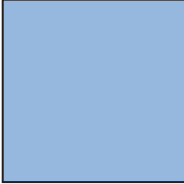
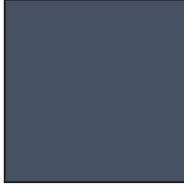
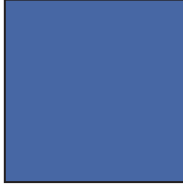
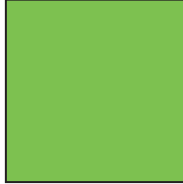
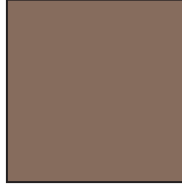
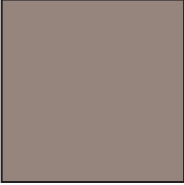


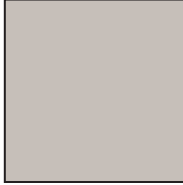
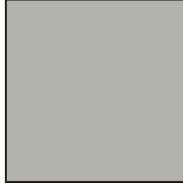
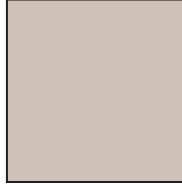
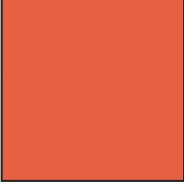




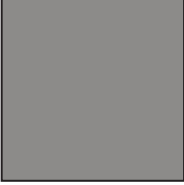




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# PLAIN COLORS

					
100	101	102	106	112	117
					
147	200	351	352	353	354
					
355	356	357	358	359	360
					
361	362	363	364	366	367
					
369	370	371	372	373	374
					
375	376	377	378	379	380
					
381	382	383	384	385	386
					
387	1118	1120	1121		

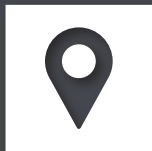
TECHNICAL DATA SHEET



Sr. No	Test		Test Method	Requirement	Result
1	Resistance To Scratching		EN 438-2-25	Min. 3	4
2	Resistance To Impression In Boiling Water	Gloss Finish	EN 438-2-12	Min. 3	4
		Other Finish		Min. 4	5
3	Resistance To Impact By Small Diameter Ball		En 438-2-20	Min. 25	30
4	Resistance To Dry Heat At 160° C	Gloss Finish	EN 438-2-16	Min. 3	4
		Other Finish		Min. 4	5
5	Resistance To Wet Heat At 100° C	Gloss Finish	EN 438-2-18	Min. 3	4
		Other Finish		Min. 4	5
6	Resistance To Surface Wear		EN 438-2-10	≥350	420
7	Stain Resistance	Group 1 & 2	EN 438-2-26	Min. 5	5
		Group 3		Min. 4	5
8	Dimensional Stability	Macine Direction	EN-438-2-17	Min. 0.45	0.059
		Cross Direction		Min. 0.90	0.097
9	Surface Finish		EN 438-3-6.2.3		No Significant Colour & gloss change observed
10	Surface Quality		EN 438-3-6.2.5.2		No sign of dirt, Spots, scratches or other defects observed
11	Edge Quality		EN 438-3-6.2.5.3		No sign of moisture marks and corner damage observed on four edges of the laminate
12	Visual Inspection		EN 438-3-6.2.5		Satisfactory
13	Resistance To Water Vapour	Gloss Finish	EN 438-2-16	Min. 3	4
		Other Finish		Min. 5	5
14	Flatness		EN 438-2-9	≤60	1.02
15	Density		EN ISO 1183-1	≥1.35	1.44
16	Straightness		EN 438-2-7	≤1.5	0.082
17	Dimension	Length	EN 438-2-6	=10/0	1001
		Width		=10/0	998
		Thickness	EN 438-2-5	0.5 to 2.0± [0.10 to 0.15]	0.60
18	Resistance To Impact By Large Diameter Ball		EN 438-2-21	Min. 1000	1800
19	Light Fastness		EN 438-2-29	Min. 5	5
20	Staining Agent		Contact Time	Observation	Result
	Toothpaste, Handcream, Urine, Alcoholic Beverages, Natural Fruits And Vegetable Juices, Lemonade And Fruit Drinks, Meat And Sausages, Animals And Vegetables Fats And Oils, Water, Yeast Suspension In Water, Salt [Nacii] Solution		16 Hours	No Visible Changes	Rating 5
	Cleaning Solution	Dedocyl Benzene Sulfonate [23%]			
		Alkyl Aryl Poly Glycol Ether [10%]			
		Water [67%]			
	Commercial Disinfectants				
	Stain Or Paint Removers Based On Organic Solvents				
	Citric Acid [10% Solution]				
21	Formaldehyde Contant		Astm D6191		<1
22	Anti - Viral	Exptl. Condition Control (A) (Pfu/ MI)	Neutralizer Toxicity Control (B) (Pfu/ MI)	Dilution–Neutralization Control (C) (Pfu/ MI)	Result
	Ms2 Bacteriophage	50	52	54	Satisfactory
23	Anti Viral	Quantitative Assessment Of Antiviral Activity –Iso 21702: 2019			Result
		Untreated: Average No. Of Plaques Recovered At 0 Hours (U0): 1.00x 105 Pfu/Sq. Cm.		Log = 5.00	Satisfactory
		Untreated: Average No. Of Plaques Recovered At 24 Hours (Ut): 1.24 X 105 Pfu/Sq. Cm.		Log = 5.09	
		Average No. Of Plaques Recovered From Treated [At]	Log Of Plaques Recovered From Treated [At]	Antiviral Activity(R) (Log Ut- At)	Virus Reduction Percentage
		< 10	<1	>4.09	>99.99
24	Anti-Bacterial	Quantitative Assessment Of Activity: Jis Z 2801: 2010; Amendment 1: 2012		Avg. Count	Log
		Untreated Control: Inoculum On Untreated Sample At 0 Hours (U0) Cfu/Cm2		18750	4.27
		Untreated Control: Inoculum On Untreated Sample After 24 Hours (Ut) Cfu/Cm2		98125	4.99
		Sample Identification	No. Bacteria On Treated Sample Cfu/Cm2 [At]	Log Of Bacteria On Treated Sample [At]	Antimicrobial Activity R = (Ut - U0) – (At - U0)
		High Pressure Laminate	<6.25	<0.80	>4.21 [>99.99%]
25	Anti-Bacterial	Quantitative Assessment Of Activity: Jis Z 2801: 2010; Amendment 1: 2012		Av. Count	Log
		Untreated Control: Inoculum On Untreated Sample At 0 Hours (U0) Cfu/Cm2		25000	4.40
		Untreated Control: Inoculum On Untreated Sample After 24 Hours (Ut) Cfu/Cm2		241667	5.38
		Sample Identification	No. Bacteria On Treated Sample Cfu/Cm2 [At]	Log Of Bacteria On Treated Sample [At]	Antimicrobial Activity R = (Ut - U0) – (At - U0)
		High Pressure Laminate	<6.25	<0.80	>4.61 [>99.99%]
26	Fire Resistant			Requirement	Result
	Smoke Development En-13501-L			Very Limited Smoke Development Of Class S1	Yes
	Burning Droplets En-13501-L			No Burning Droplets Or Particle Of Class D0	Yes



## Reach Us Here



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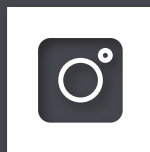
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