

SPECIALITY LAMINATES

MAGNETIC
LAMINATE

MIRROR
LAMINATE

METALLIC
LAMINATE

ANTI FINGER PRINT
LAMINATE



COMPACT LAMINATE

+GUARD - CHEMICAL RESISTANT LAMINATE

FIRE RETARDANT LAMINATE

INDUSTRIAL LAMINATE

MIRROR - HIGH GLOSS
LAMINATE

ANTI STATIC
LAMINATE

POST FORMING
LAMINATE

UNICORE
LAMINATE

CHALK & MARKER

DiGi *delight*
DIGITAL
LAMINATES
[HD+]

MAGNETIC LAMINATE



Philosophically, when you see something exciting, pleasant and wonderful, you tend to come closer. Taking this to the world of laminates, here you have magnetic laminates.

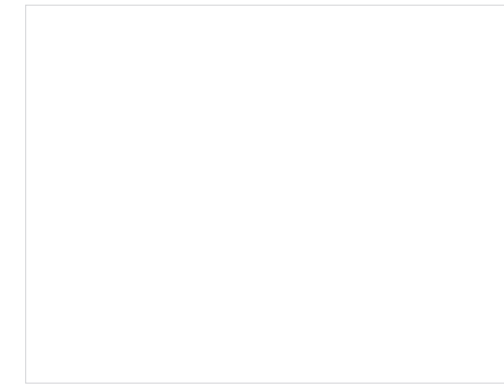
Magnetic Collection, from the house of Stylam, is the high-tech hybrid of industrial flair and sophisticated design. Widely used for vertical applications and as an accent to countertops, the Decorative Metals line is surprisingly adaptable and a virtually unbreakable addition to any commercial project.

We have a full line of Decorative Metal Laminate Sheets ideal for light-duty horizontal or vertical applications such as signage, displays, furniture and fixtures.

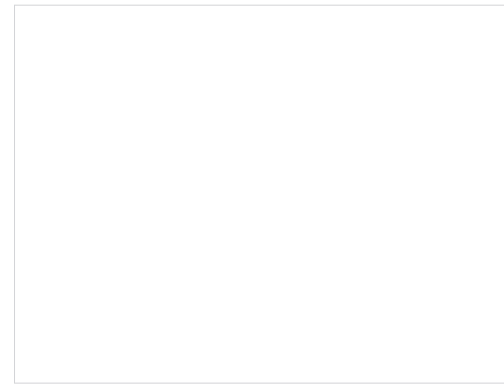
Magnetic Laminates have a strong magnetic effect and can be written on with chalks or special board markers ideal for a wide variety of applications in environments such as retail, education, commercial and residential. Magnetic Laminate is a special type of Laminate that can use magnet to stick the paper or picture directly to the laminate.

Available size: **1220 x 2440 mm**

Available thickness: **1mm & above**



OffWhite 1020 M/GL



White Shining 1060 M/AFP



Green Chalk Grade 199 M/TX



Black Chalk Grade 142 M/TX

We would be pleased to make Magnetic Laminate available to you in any SOLID COLOR, depending upon the quantity ordered.

APPLICATIONS

GLOSSY WHITE
whiteboards, meeting room, writeable walls, classroom walls for displaying drawings, pictures and/ or writing on the wall, residential applications for writeable splash backs, such as laundries.

MATT BOARD
chalkboards, teaching environments, children's bedroom wall surfaces or feature panels, kitchen door panel surfaces or splash backs where lists and notes can be kept.



MIRROR LAMINATE

Sometimes you need to see beyond the obvious. Something unconventional, something unbelievable. Here is what can make you see more, believe more.

Stylam has come up with an interesting type of laminate that can add immense value to the interiors, especially the modern ones. The mirror laminates. They are manufactured using real Aluminum, Stainless Steel and Copper foils bonded to a backing of Phenolic, resin impregnated Kraft paper giving a durable, semi rigid sheet for easy fabrication and handling.

Mirror laminates are considered ideal for adding flair to light duty horizontal or vertical applications: walls, furniture, retail fixtures, signage, exhibits and displays. Taking the type of materials go behind the making of the laminates, it is understood that they would be durable, wear resistant and fire resistant.

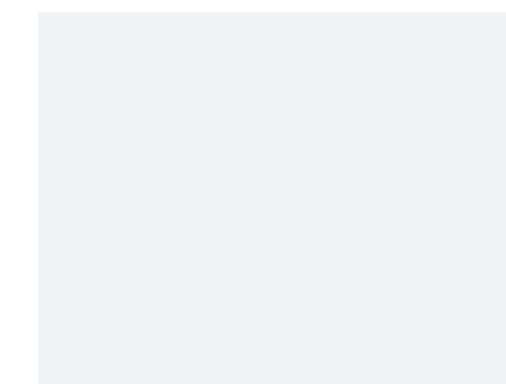
Available size: **1220 x 3050 mm**

Available thickness: **1mm & above**



APPLICATIONS

- Hospitality industry
- Kids activity areas
- Interior/architect specific areas
- Healthcare
- Retail displays
- Furniture designs



Silver 9651 MR Mirror



Gold 9652 MR Mirror



Copper 9653 MR Mirror



Gunmetal 9654 MR Mirror

METALLIC LAMINATE

Combining the durability of metal with the versatility of laminates, Stylam presents High Pressure Metallic Laminates designed for vertical interior or ceiling applications where a special accent is required or a special mood is desired. Metallic laminates are manufactured by pressing metallic foils along with kraft paper core sheets impregnated with phenolic resin. An assembly of these papers is then placed in a press and bonded under heat and pressure into a thermosetting plastic sheet. Finished sheets are trimmed and the backs sanded to facilitate bonding.

Stylam Metal Foil Laminates are durable & strong to give your interiors varying levels of depth. Recommended for use only on vertical surfaces of your interiors. When used on any horizontal surface, they should be protected under glass or other equivalent materials.

It doesn't allow dust particles to accumulate on surface, resulting in a clean and healthy place.



Available size:
1220 x 2440 mm
1220 x 3050 mm

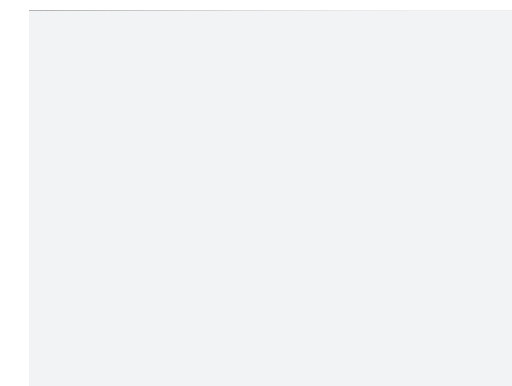
Available thickness:
0.8 mm & above

APPLICATIONS

- Hospitality Sector
- Gaming & Entertainment Industry
- Interior & Set designing
- Retail Segment
- Signage & display
- Cruise and furniture industry



METALLIC LAMINATE



Silver 9663 MT *Metallic*



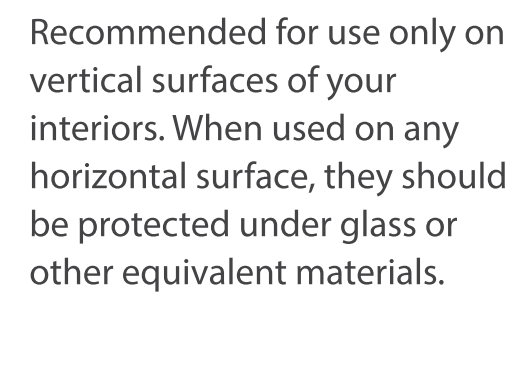
Gold 9667 MT *Metallic*



Copper 9665 MT *Metallic*



Gunmetal 9664 MT *Metallic*



Rustic 9666 MT *Metallic*

Recommended for use only on vertical surfaces of your interiors. When used on any horizontal surface, they should be protected under glass or other equivalent materials.

TECHNICAL PROPERTIES

High Pressure Laminates (HPL) as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS range.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-2 & 3)
EN-438 Laminate Classification					
1 SURFACE QUALITY					
1.1	Surface quality	EN 438-2:2016 (Clause-4)	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1
			Fibres, hairs and scratches	mm/m ²	≤ 10
2 DIMENSIONAL PROPERTIES					
2.1	Thickness	EN 438-2:2016 (Clause-5)	Thickness tolerance	mm	0.5≤T<1 : ±0,1
				mm	1≤T<2 : ±1,5
2.2	Size	EN 438-2:2016 (Clause-6)	Length and width	mm	+ 10 / - 0
2.3	Straightness of edges	EN 438-2:2016 (Clause-7)	Straightness of edges	mm/m	≤ 1,5
2.4	Squareness	EN 438-2:2016 (Clause-8)	Squareness	mm/m	≤ 1,5
2.5	Flatness	EN 438-2:2016 (Clause-9)	Flatness (measured on full-size sheet)	mm/m	60
3 PHYSICAL PROPERTIES					
3.1	Resistance to surface wear	EN 438-2:2016 (Clause-10)	Wear Resistance - Initial Point	Revolutions	≥ 150(HGS) / ≥ 50(VGS)
3.2	Resistance to immersion in boiling water	EN 438-2:2016 (Clause-12)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.3	Resistance to water vapour	EN 438-2:2016 (Clause-14)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.4	Resistance to dry heat (180°C)	EN 438-2:2016 (Clause-16)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.5	Dimensional stability at elevated temperatures	EN 438-2:2016 (Clause-17)	Cumulative dimensional change	Longitudinal %	≤ 0,55(HGS) / ≥ 0,75(VGS)
				Transversal %	≤ 1,05(HGS) / ≥ 1,25(VGS)
3.6	Resistance to Wet Heat	EN 438-2:2016 (Clause-18)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.7	Resistance to impact with Small diameter ball	EN 438-2:2016 (Clause-20)	Spring Force	N	≥ 25 (HGS) / ≥ 15 (VGS)
3.8	Resistance to cracking under stress	EN 438-2:2016 (Clause-23)	Appearance	Rating	≥ 4
3.9	Resistance to scratching	EN 438-2:2016 (Clause-25)	Appearance - Smooth Finishes	Rating	≥ 2 (HGS) / ≥ 1 (VGS)
			Appearance - Textured Finishes	Rating	≥ 3 (HGS) / ≥ 2 (VGS)
3.10	Resistance to staining	EN 438-2:2016 (Clause-26)	Appearance - Group 1 & 2	Rating	≥ 5
			Appearance - Group 3	Rating	≥ 4
3.11	Light fastness (Xenon arc)	EN 438-2:2016 (Clause-27)	Contrast	Grey scale rating	4 to 5
3.12	Density	EN ISO 1183-1	Density	gm/cm ³	≥ 1,35

Disclaimer: This Product Technical Sheet gives technical information relevant to the performance of product as tested by STYLAM and External certified testing agencies. STYLAM reserves the right to change product composition and characteristics at any time.

CARE & MAINTENANCE

Stylam's MAGNETIC & MIRROR Laminates can be cleaned with non-abrasive or non-harsh alkaline cleaning agents. Do not use abrasive scourers and cleaners, even those in liquid form, as these may permanently reduce the stain resistance of the surface. These laminates should only be cleaned using a soft, moist cloth or moist chamois and then dried with a soft dry cloth. Before the first use, peel off the protective plastic film and clean the surface to remove any adhesive residue.

Gloss finish Laminate surface:
Suitable for marking with whiteboard markers (not permanent markers). Once dry, these markings can be wiped off using a soft dry board eraser or soft cloth, such as a microfiber cloth. (There is no guarantee that Stylam Magnetic Laminates can always be cleaned so that they are completely free of residue or markings, because the use and quality of marker pen is beyond our control. Please check the recommendations by the manufacturers of the marker pen before use.)

Matt finish Laminate surface:
Suitable for use with marking chalk or liquid chalks. Use a soft dry board eraser or soft cloth to wipe dry board. Due to the matt nature of the surface it cannot always be wiped completely clean in the dry condition. For complete cleaning use a soft moist cloth.

STORAGE: Stylam Magnetic Laminates must be stored in an area closed off from external conditions, kept dry at room temperature and with a relative humidity around 50-60%. Sheets must be stored horizontally and well supported with evenly spaced supports, at a distance of at least 200mm from the floor.

Protect the stored sheets from:

- moisture or water
- exposure to direct sunlight
- hot air currents
- direct exposure to heat, e.g. light bulbs or other heat sources.

The surface temperature of the laminate sheet should not exceed 70°C

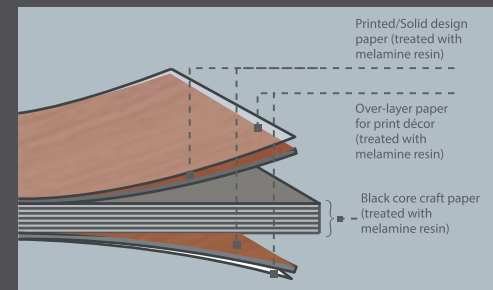
CERTIFICATIONS



COMPACT LAMINATE

Stylam Compact laminates are formulated with inner core of celluloid fibres impregnated with special thermosetting resins. These resins and the special heat and pressure cycles impart properties of a solid, load bearing hard laminate, which is resistant to wide range of atmospheric and chemical agents for use in internal and external atmospheric conditions. High values of Flexural strength and tensile strength ensures that these laminates are suitable for saw cutting, drilling, machining and punching as per requirement.

Stylam Industries Limited has been awarded European CE Certification for its both Internal and External application Compact laminates range by ITC Inc., Czech Republic and has fulfilled all requirements as applicable as per EN 438-7:2005. Stylam Industries Limited is the first laminate manufacturer in India and among very few in the world to be awarded this coveted certification.



Available Options - Brown cores, Black cores, Sandwiched Design cores, Multi Color Stripe Cores, Unicore etc.

APPLICATIONS

The prominent applications include both Interiors & Exteriors spaces:

- Flooring
- Cabin Partitions,
- Laboratory Furniture
- Interior Walls
- X-ray Tables
- Bedroom Cupboards
- Kitchen Working Surfaces
- Living Room Cabinets
- Bathroom Doors,
- Wall Panels
- Exhibition Stands



CHEMICAL RESISTANT LAMINATE

With excellent AB & AF properties, +Plus Guard STYLAM Compact Panels will meet the demands in areas where chemicals and water are used more and where contamination is a genuine threat. A very special acrylic resin formulation is applied over decorative surface paper to achieve highest degree of chemical resistance together with a maximum scratch resistance. The decorative paper is impregnated with several acrylic coating to make the surface free from any porosity and then hardened by electron beam curing. The impregnated decor paper then is assembled with several layers of Phenolic resin treated Kraft paper and pressed under 90Kg/sq cm specific pressure and at about 150°C temperature for about 30 to 40 min.

+Plus Guard STYLAM Laminate is resistant to large number of relatively strong chemicals used in a laboratory making it ideal to be used in Chemical, Analytical, micro-biological, healthcare, pharmaceuticals & educational laboratories. +Plus Guard STYLAM Laminate provides a highly durable surface in lab conditions and has better abrasion & Scratch Resistance.



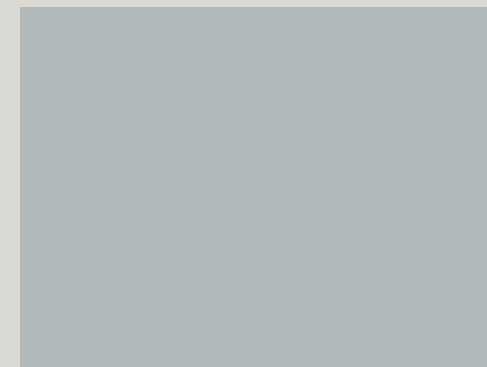
Sheet sizes

SIZE 1 : 1550 x 3660 mm

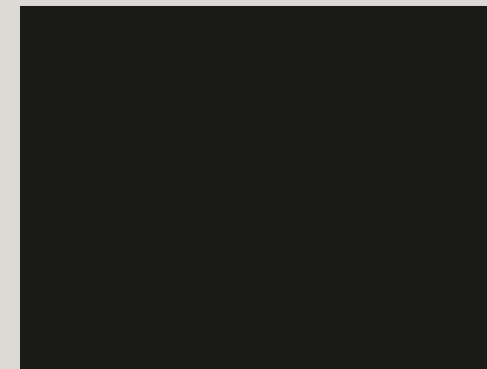
Available thickness: 1mm & above (as per Standard Grade)



Lab White CR-0043/S2



Lab Grey CR-0044/S2



Lab Black CR-0042/S2

APPLICATIONS

- Kitchen Sinks
- Table Counters
- Wardrobes
- Cabinets
- Wall panels
- Lab benches
- Clinics Furniture
- Photographic Labs
- Science Labs
- Space Research Labs
- Operational Rooms
- Chemical Industry

INDUSTRIAL LAMINATE

Stylam Industrial Laminates are structural composite materials that consists of two components - a reinforcement material and a thermosetting resin system. The two components are cured together under pressure at high temperature into the finished composite material. The reinforcement materials and the resin systems can be combined individually, making it possible to construct composite materials with very specific properties which helps it being attractive and versatile in nature when compared to its alternatives in other structural materials.

Laminates also have stable geometry at high temperatures and have minimal deformation when subjected to loads. In addition, they have a high strength to weight ratio and also have properties that do not deteriorates with age. From their other application as insulating material in electro-mechanical designs, modern laminates have spread to a large number of other industries, resulting in a constantly increasing number of new applications.

APPLICATIONS

Mechanical applications:

- Engineering materials
- Wear and Slide parts

Electrical applications:

- Electrical Insulation
- Engineering materials



FIRE RETARDANT LAMINATE

Stylam Fire Retardant Laminates are manufactured by impregnating papers with special of phenolic resin having imported fire retardant chemicals in its composition. This special resin formula ensures high resistance to the flame propagation. These Laminates ensures immediate full extinguish as soon as the flame source is removed thus eliminates the risk of toxic smoke. Stylam Fire Retardant Laminates have been certified conforming to Euroclass-Brequirement by Applus Laboratory, Spain. These laminates are designed for use requiring flame and smoke resistance in all modern day furniture and industrial applications

APPLICATIONS

- Fire prone areas
- Kitchens, Cabinets, Interior Doors, Wall Panels
- Airports
- Hotels
- Office buildings
- Shopping malls
- Multiplexes
- Hospitals
- Schools
- Apartments



FABRICATION

- **SAWING:** To avoid chipping, it is important that the saw blade teeth cut into the decorative face.
- **CIRCULAR SAWING:** To avoid vibration that causes chipping, make sure to provide support to the material near the point of blade contact.
- **ROUTING:** Electric or air powered carbide tip routers could be used for routing. Recommended router speed is 16000 to 22000 rpm. For special edge trimming very high speed routers should be used to achieve smooth-edge chip-free work.
- **EDGE FINISHING:** Belt sanders may be used to push the self-edge before the laminate top is applied.
- **ADHESIVES:** Special Post Forming Adhesive is recommended.
- **PROTECTIVE FILM:** The protective film should be removed as soon as the application is complete. Else exposure to strong lights may cause a pale residue and make it difficult to remove the protective film.

CARE & MAINTENANCE

STORAGE AND AIR CONDITIONING:

- Store Stylam compact laminate panels in a dry, clean, frost-free area as incorrect storage can lead to permanent deformation of the panels
- Keep panels in the original packaging wherever possible.
- Place pallets and panels on a level surface which provides full support.
- Remove steel straps if the panels are to be stored for a long time.
- All panels must be stacked horizontally on flat, stable supports and supporting panels and the panels must lie completely flat.
- Cover plates must always be left on the stack. The top cover should be weighted down.
- Panels are to be stored in closed rooms under normal climatic conditions.
- Climate differences on the two surfaces of a panel are to be avoided. Use intermediate layers of wood or plastic to ensure that the climatic effect is uniform on all sides of the panels.
- Do not place any moisture-sensitive (paper) layers between the panels. Place interleaving
- padding (slip-sheet or protective cardboard strips) between panels when stacking.
- Material should not be stored near exterior doors that may result in exposure to rain or temperature/humidity variations.
- Avoid storing in excessive heat/humidity extremes. All materials should be acclimated for a minimum of 72 hours before fabrication/installation.
- Prevent a film of moisture from forming between the panels.
- Remove any type of sticker / marking / coding immediately after installation of panels.

CLEANING:

Stylam compact laminate panels have hygienic and sealed surface - it needs no major looking after. Cleaning is necessary under certain circumstances and is most easily done by using clean, warm water, clean clothes or rags, and soap (household cleaners available in shops). Avoid scouring and rough substances.

In case of Chemical Resistant Compact panels, kindly Use a damp cloth or sponge and a mild soap or detergent to clean the surface. Use of abrasive cleaners, powders, scouring pads, steel wool, sandpaper, etc., will damage the finish and can permanently reduce the chemical and stain resistance of the laminate. Good laboratory practice dictates that all chemical spills should be wiped up promptly. Stubborn stains may be removed by use of organic solvent or hypochlorite bleach, followed by wiping with a soft, damp cloth.

SPECIAL CARE FOR PANELS WITH ADHESIVE PROTECTIVE FILM:

- The transport protection film is only for transportation and it must not be exposed to heat or direct sunshine.
- The protective films are designed for the temporary surface protection against dirt, scratches and tooling marks if any. They will not be able to provide protection against corrosion, humidity or chemicals.
- The laminates covered with the protective film shall be stored in a clean, dry place at room temperature (optimum 20 °C), avoiding weathering and UV exposure.
- The protective film must be removed from the surface of the laminates after the application and before putting into the use the finite element. In case of panels with the protective film on both sides, it must always be removed from both sides at the same time.
- Stylam Industries cannot be responsible for the misuse of the laminates covered with the protective film, nor for the consequences for non-recommended applications.

TECHNICAL PROPERTIES

High Pressure Laminates (HPL) as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS and Anti-finger range.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-4)
			EN-438 Laminate Classification		CGF/EDF
1 SURFACE QUALITY					
1.1	Surface quality	EN 438-2.4	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1
			Fibres, hairs and scratches	mm/m ²	≤ 10
2 DIMENSIONAL PROPERTIES					
2.1	Thickness	EN 438-2.5	Thickness tolerance	mm	1 ≤ T < 2 : ± 0.15
				mm	2 ≤ T < 3 : ± 0.2
				mm	3 ≤ T < 5 : ± 0.3
2.2	Size	EN 438-2.6	Length and width	mm	+ 10 / - 0
2.3	Straightness of edges	EN 438-2.7	Straightness of edges	mm/m	≤ 1,5
2.4	Squareness	EN 438-2.8	Squareness	mm/m	≤ 1,5
2.5	Flatness	EN 438-2.9	Flatness (measured on full-size sheet)	mm/m	Max, 8,0
3 PHYSICAL PROPERTIES					
3.1	Resistance to surface wear	EN 438-2.10	Wear Resistance	Revolutions	≥ 350
			Mass increase	%	CGF - ≤ 7
3.2	Resistance to immersion in boiling water	EN 438-2.12	Thickness increase	%	CGF - ≤ 9
			Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.3	Resistance to water vapour	EN 438-2.14	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.4	Resistance to dry heat (180°C)	EN 438-2.16	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.5	Dimensional stability at elevated temperatures	EN 438-2.17	Cumulative dimensional change - 2 ≤ T < 5mm	L %	≤ 0,40
				T %	≤ 0,80
3.6	Resistance to impact with large diameter ball	EN 438-2.21	Indent. dia. 10mm - Drop Height	mm	≥ 1400
3.7	Resistance to crazing	EN 438-2.24	Appearance	Rating	≥ 4
3.8	Resistance to scratching	EN 438-2.25	Appearance - Smooth Finishes	Rating	≥ 2
			Appearance - Textured Finishes	Rating	≥ 3
3.9	Resistance to staining	EN 438-2.26	Appearance - Group 1 & 2	Rating	≥ 5
			Appearance - Group 3	Rating	≥ 4
3.10	Light fastness (Xenon arc)	EN 438-2.27	Contrast	Grey scale rating	4 to 5
3.11	Flexural modulus	EN ISO 178	Stress	Mpa	≥ 9000
3.12	Flexural strength	EN ISO 178	Stress	Mpa	≥ 80
3.13	Density	EN ISO 1183	Density	gm/cm ³	≥ 1,35
4 FIRE PERFORMANCES			Test as per EN 13823 (SBI test) and EN ISO 11925-2 (Small-burner test)		
4.1	Fire Reaction Classification, EGF-EDF	EN 135 01	Classification - 3 ≤ T < 6 mm	Rating	B - s2, d0
			Classification - T ≥ 6 mm	Rating	B - s1, d0
4.2	Fire Reaction Classification, EGS-EDS	EN 135 01	Classification - T ≥ 10 mm	Rating	B - s1, d0
5 OTHER PROPERTIES					
5.1	Release of Formaldehyde	EN 438-7.4.11.1	Classification	Rating	E1

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CERTIFICATIONS



ELECTROSTATIC DISSIPATIVE LAMINATE

Electrostatic Dissipative laminates (ESD) diffuse static electricity to protect electronics and other static-sensitive devices from electric charges that could cause damage during manufacturing or assembly.

FEATURES

Low electrical resistance

Absolute charge drainage and zero voltage suppression

ESD is post formable but will require a larger radius than standard laminate

Resistant to most common solvents, hot solder and fluxes.

ESD is guaranteed to maintain its static control properties.

APPLICATIONS

- Static-sensitive electronic components manufacturing workstations
- Hospitals
- Medical Facilities
- Technical Departments/BPO Offices
- Science Laboratories
- Mobile Manufacturing Units
- Pharma Labs
- Electronic Units



SIZE 1 : 1220 x 2440 mm
SIZE 2 : 1300 x 3050 mm

Available in any color depending upon order quantity

POST FORMING LAMINATE

Post Forming Laminate range has been exclusively designed for usage on vertical and horizontal interior surfaces where the laminate is required to roll in a simple radius over the edges of a substrate. With added flexibility, malleability and excellent thermoforming properties for forward and reverse bending applications, Post Forming Laminate enhances the decorative property of the edges of any regular laminate since it gives no seams around corners and a smooth, evenly laminated surface.

These are fully cured Post Forming laminates inheriting and exhibiting exactly the same properties as general purpose laminates. Manufactured by using a controlled reaction process in which the resin is allowed to cure fully but the reaction is controlled in such a way that even extra heating will not have an effect on its post forming properties.

APPLICATIONS

- Shutters
- Countertops
- Furniture tops
- Executive tables
- Modular office systems
- Computer workstations
- Kitchen cabinet doors & shutters
- Storage cabinet doors
- Shelving systems



FABRICATION

- **SAWING:** To avoid chipping, it is important that the saw blade teeth cut into the decorative face.
- **CIRCULAR SAWING:** To avoid vibration that causes chipping, make sure to provide support to the material near the point of blade contact.
- **EDGE FINISHING:** Belt sanders may be used to push the self-edge before the laminate top is applied.
- **ADHESIVES:** Special Post Forming Adhesive is recommended.
- **PROTECTIVE FILM:** The protective film should be removed as soon as the application is complete. Else exposure to strong lights may cause a pale residue and make it difficult to remove the protective film.

SIZE 1 : 1220 x 2440 mm
SIZE 2 : 1300 x 3050 mm

THICKNESS: 0.6 mm onwards

Available in any color depending upon order quantity

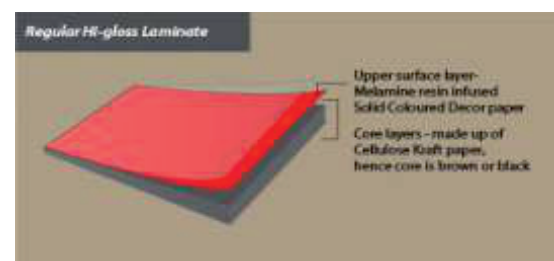
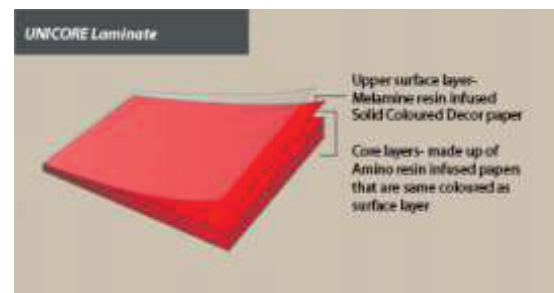
UNICORE LAMINATES

Unicore Laminates are unique combo of identical colors with core layered decorative surfaces. Tastefully selected decorative papers for surface layers are infused with treated melamine resins. Same decorative papers are used as core layers that are infused with specially treated Amino resins.

Unicore is a world where you could feel vibrancy of colors through & through, flaunt your desks, doors, counter-tops, table-tops, drawers, display shelves, shutters and all the furniture with stunning, beautiful & flawless Unicore surface that uniform look all across.

What makes UNICORE unique is the identical color of the decorative surface and the core layers too! Flaunt your desks, doors, counter-tops, table-tops, drawers, display shelves, shutters and all the other furniture with stunning and flawless UNICORE surface that has uniform look all across.

How it's made?
Tastefully selected decorative papers for surface layers are infused with treated Melamine resins. Same decorative papers are used as core layers that are infused with specially treated Amino resins.



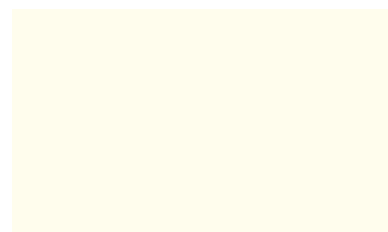
Pure White 8001 UHG



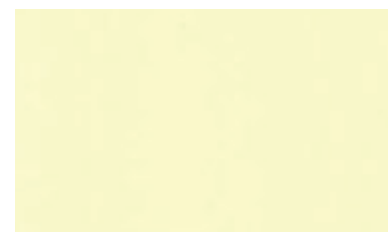
Pure White 8001 U



GOLDENWOOD 8504 UHG



Mysore Grey 8008 U



Ivory 8020 U



PO Red 8553 U



Warm Grey 8007 U



Black 8180 U



Federal Blue 8452 U

Finish Size : 1220 x 2440 mm
Available Finish - Gloss, Matt, Suede
Thickness : 1 mm & Above

Unicore range available in any solid colors, depending upon the order quantity

CHALK & MARKER BOARD

Stylam Chalk/Marker Board are made with special type of synthetic polymer which imparts durability to surface with easy cleaning of dry erase markers or wet erase markers. Chalkboard Laminate is the perfect solution for any space or application that demands a durable and affordable writing surface, and unlike other chalkboard surfaces, it requires no special maintenance.

Marker Board Laminate provides absorbent, dry erase compatible instant messaging surface suitable for variety of applications for board rooms, schools, clinics & hospitals. These laminates have non-porous Glossy white laminate surface which imparts excellent properties with special marker pens.

APPLICATIONS

- Office meeting rooms
- School class rooms
- Message boards for patients
- Other work environments
- Memo boards
- Athletic facilities
- Cafeteria menu boards



AVAILABLE SIZES

1220 x 2440 mm

AVAILABLE COLOURS

Green (Chalk Board)
White (Marker Board)

AVAILABLE THICKNESS

0.8 mm

CARE & MAINTENANCE

Stylam's range of Laminates can be cleaned with non-abrasive or non-harsh alkaline cleaning agents. Do not use abrasive scourers and cleaners, even those in liquid form, as these may permanently reduce the stain resistance of the surface. These laminates should only be cleaned using a soft, moist cloth or moist chamois and then dried with a soft dry cloth. Before the first use, peel off the protective plastic film and clean the surface to remove any adhesive residue.

Gloss finish Laminate surface:
Suitable for marking with whiteboard markers (not permanent markers). Once dry, these markings can be wiped off using a soft dry board eraser or soft cloth, such as a microfiber cloth. (There is no guarantee that Stylam Magnetic Laminates can always be cleaned so that they are completely free of residue or markings, because the use and quality of marker pen is beyond our control. Please check the recommendations by the manufacturers of the marker pen before use.)

Matt finish Laminate surface:
Suitable for use with marking chalk or liquid chalks. Use a soft dry board eraser or soft cloth to wipe dry board. Due to the matt nature of the surface it cannot always be wiped completely clean in the dry condition. For complete cleaning use a soft moist cloth.

STORAGE: Stylam Laminates must be stored in an area closed off from external conditions, kept dry at room temperature and with a relative humidity around 50–60%. Sheets must be stored horizontally and well supported with evenly spaced supports, at a distance of at least 200mm from the floor.

Protect the stored sheets from:

- moisture or water
- exposure to direct sunlight
- hot air currents
- direct exposure to heat, e.g. light bulbs or other heat sources.

The surface temperature of the laminate sheet should not exceed 70°C

TECHNICAL PROPERTIES

High Pressure Laminates (HPL) as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS range.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-2 & 3)
EN-438 Laminate Classification					
HGS / VGS					
1 SURFACE QUALITY					
1.1	Surface quality	EN 438-2:2016 (Clause-4)	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1
			Fibres, hairs and scratches	mm/m ²	≤ 10
2 DIMENSIONAL PROPERTIES					
2.1	Thickness	EN 438-2:2016 (Clause-5)	Thickness tolerance	mm	0.5≤T<1 : ±0,1
				mm	1≤T<2 : ±1,5
2.2	Size	EN 438-2:2016 (Clause-6)	Length and width	mm	+ 10 / - 0
2.3	Straightness of edges	EN 438-2:2016 (Clause-7)	Straightness of edges	mm/m	≤ 1,5
2.4	Squareness	EN 438-2:2016 (Clause-8)	Squareness	mm/m	≤ 1,5
2.5	Flatness	EN 438-2:2016 (Clause-9)	Flatness (measured on full-size sheet)	mm/m	60
3 PHYSICAL PROPERTIES					
3.1	Resistance to surface wear	EN 438-2:2016 (Clause-10)	Wear Resistance - Initial Point	Revolutions	≥ 150 (HGS) / ≥ 50 (VGS)
3.2	Resistance to immersion in boiling water	EN 438-2:2016 (Clause-12)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.3	Resistance to water vapour	EN 438-2:2016 (Clause-14)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.4	Resistance to dry heat (160°C)	EN 438-2:2016 (Clause-16)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.5	Dimensional stability at elevated temperatures	EN 438-2:2016 (Clause-17)	Cumulative dimensional change -	Longitudinal %	≤ 0,55 (HGS) / ≥ 0,75 (VGS)
				Transversal %	≤ 1,05 (HGS) / ≥ 1,25 (VGS)
3.6	Resistance to Wet Heat	EN 438-2:2016 (Clause-18)	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.7	Resistance to impact with Small diameter ball	EN 438-2:2016 (Clause-20)	Spring Force	N	≥ 25 (HGS) / ≥ 15 (VGS)
3.8	Resistance to cracking under stress	EN 438-2:2016 (Clause-23)	Appearance	Rating	≥ 4
3.9	Resistance to scratching	EN 438-2:2016 (Clause-25)	Appearance - Smooth Finishes	Rating	≥ 2 (HGS) / ≥ 1 (VGS)
			Appearance - Textured Finishes	Rating	≥ 3 (HGS) / ≥ 2 (VGS)
3.10	Resistance to staining	EN 438-2:2016 (Clause-26)	Appearance - Group 1 & 2	Rating	≥ 5
3.11	Light fastness (Xenon arc)	EN 438-2:2016 (Clause-27)	Appearance - Group 3	Rating	≥ 4
3.12	Density	EN ISO 1183-1	Density	gm/cm ³	≥ 1,35
4.1	Anti-bacteria property	JIS Z 2801: 2010	Bacteria: Staphylococcus aureus, E.coli and Pseudomonas aeruginosa	Antimicrobial value of evaluation, R	≥ 2.0

Issue date : 01/04/2019

CERTIFICATIONS



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ANTI FINGER PRINT LAMINATE

TouchMe - Anti Finger Print Laminate by Stylam bring utility and style to a whole new level.

No matter how many hands touch the surface, no matter how many times the laminate is exposed to scratches, any trace won't be seen anymore. This also means, less wear and tear in long run and freedom from getting it cleaned every now and then.

TouchMe - Anti Finger Print Laminate has super matte finish with soft-to-touch feel. This unique property results in a premium look and easy maintenance. And also, the laminates can be used on a number of more surfaces than usual.

The thermal healing capability and anti-microbial surface protection enhances the likability of the laminates. Over a period of time, the laminates aren't going to look old from outside or disintegrate from inside. Therefore, no more unpleasant smell, no more unwanted stains.

Laminates that stays clean, remains looking new, and are easy to maintain.



Sheet sizes

SIZE 1 : 1220 x 2440 mm
 SIZE 2 : 1220 x 2440 mm
 SIZE 3 : 1300 x 3050 mm

Available Thickness : 1 mm & Above



Giallo Amber 1755



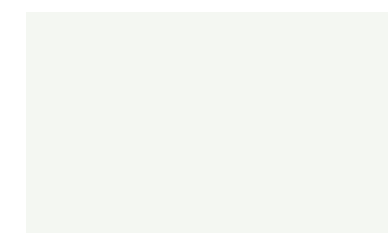
Verdian Green 1724



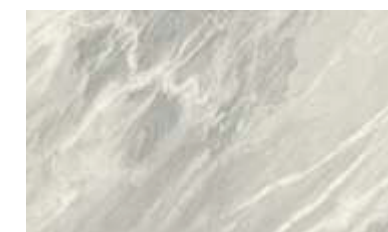
Beige Aviza 1715



Rosso Jaipur 1721



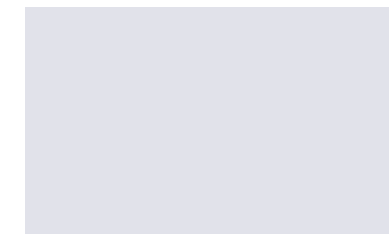
Form White 1088



White Van 1482



Rosso Qnta 1763



BiancoWhite 1756



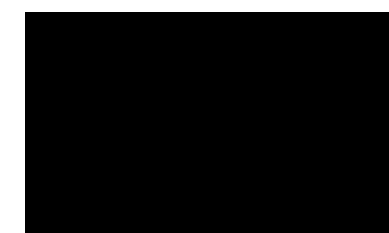
Deep Purple 1725



Red Uno 1719



Premium Green 1722



Coal Black 142A



Silk Line Bold 2061



Verde Green 1754



Almond 1757



Antacite Grey 1713



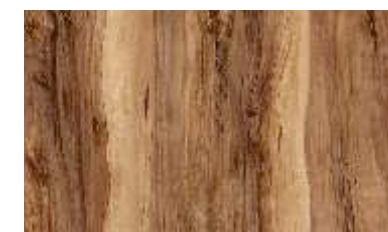
Cocoa Qnta 1720



Castoro Beige 1723



Cinder 1460



Indian Shesham 2244

Many other colors available in standard size depending upon order quantity.

We are global pioneer for
HOT COATING PROCESS
 of PU+ Lacquer touching on thin laminates

First ever in India state-of-the-art machine with cutting edge German technology for producing flawless finish thin HPL



ATTRIBUTES & KEY FEATURES



anti finger print



smudge resistant



soft-to-touch super matt finish



durable & long-lasting



hygienic & safe



scratch resistant



abrasion resistant



competitively priced



easy to maintain



attractive



moisture resistant



solvent resistant



environment friendly



wide range of colours & designs

APPLICATIONS

cafes... **casual dining**

countertops...

spots quick-service

tables...

restaurants... hotels...

doors...

stores... healthcare...

partitions...

commercial offices...

cabinets

classrooms...

wall cladding...

kitchen...

desktops...



CARE & MAINTENANCE

ROUTINE CARE

- To clean the AFP finish laminate surface, use a damp cloth or sponge and a mild soap or detergent. Rinse thoroughly with warm water and wipe dry.
- Difficult stains such as coffee or tea can be removed using a mild household cleaner/detergent and a soft bristled brush, repeating as necessary.
- If a stain persists, use a paste of baking soda and water and apply with a soft bristled brush. Light scrubbing for 10 to 20 strokes should remove most stains. Although baking soda is a low abrasive, excessive scrubbing or exerting too much force could damage the decorative surface, especially if it has a gloss finish.
- Stubborn stains that resist any of the above cleaning methods may require the use of undiluted household bleach or nail polish remover. Apply the bleach or nail polish remover to the stain and let stand no longer than two minutes. Rinse thoroughly with warm water and wipe dry. This step may be repeated if the stain appears to be going away and the color of the laminate has not been affected.
- WARNING: Prolonged exposure of the laminate surface to bleach will cause discoloration.
- Hot pans and heat-producing appliances (such as electric skillets), when set directly upon countertops, can mar the product's beauty. Always use a heat shield, hot pad or trivet.

CLEANING INSTRUCTIONS

- For the long term usage of AFP surface by Stylam for a long term, we sharing few guiding points on cleaning and maintaining Touch Me Laminate with simple cleaning agents and which cleaning agents you should avoid.

A FEW NOTES OF CAUTION

- Acidic or abrasive cleaners can damage laminate surfaces; do not use them.
- Drain cleaners containing lye will permanently damage any Stylam HPL surface. If you spill a drain cleaner, wipe it up immediately and rinse several times with water.
- Hair, textile and food dyes can cause permanent stains. If dye should happen to spill, wipe it up immediately with dishwashing detergent or an all-purpose cleaner.
- Never place pots or dishes directly from the oven or burner on an unprotected laminate surface; such extreme heat can cause cracking or blistering.
- Do not work with oven cleaners on an unprotected countertop. Wipe spills away promptly and rinse several times with water.
- Rust removers contain harsh chemicals which will quickly cause permanent damage. If a spill occurs, wipe off all residues immediately, wash thoroughly with soapy water and rinse several times.
- Steel wool and other abrasive pads will damage Stylam HPL. Don't use them for cleaning and don't store steel wool pads on your countertop; the metal can rust and leave stains.
- Toilet bowl cleaners contain harsh chemicals that can cause permanent damage. If spills occur, wipe up immediately, wash surface with soapy water and rinse several times.

TECHNICAL PROPERTIES

High Pressure Laminates (HPL) as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS and Anti-finger range.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-2 & 3)
			EN-438 Laminate Classification		HGS / VGS
1 SURFACE QUALITY					
1.1	Surface quality	EN 438-2:2016 (Clause-4)	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1
			Fibres, hairs and scratches	mm/m ²	≤ 10
2 DIMENSIONAL PROPERTIES					
2.1	Thickness	EN 438-2:2016 (Clause-5)	Thickness tolerance	mm	0.5≤T<1 : ±0.1
				mm	1≤T<2 : ±1.5
2.2	Size	EN 438-2:2016 (Clause-6)	Length and width	mm	+ 10 / - 0
2.3	Straightness of edges	EN 438-2:2016 (Clause-7)	Straightness of edges	mm/m	≤ 1.5
2.4	Squareness	EN 438-2:2016 (Clause-8)	Squareness	mm/m	≤ 1.5
2.5	Flatness	EN 438-2:2016 (Clause-9)	Flatness (measured on full-size sheet)	mm/m	60
3 PHYSICAL PROPERTIES					
3.1	Resistance to surface wear	EN 438-2:2016 (Clause-10)	Wear Resistance - Initial Point	Revolutions	≥ 250(HGS) / ≥ 150(VGS)
3.2	Resistance to immersion in boiling water	EN 438-2:2016 (Clause-12)	Appearance	Rating	≥ 4
3.3	Resistance to water vapour	EN 438-2:2016 (Clause-14)	Appearance	Rating	≥ 4
3.4	Resistance to dry heat (160°C)	EN 438-2:2016 (Clause-16)	Appearance	Rating	≥ 4
3.5	Dimensional stability at elevated temperatures	EN 438-2:2016 (Clause-17)	Cumulative dimensional change -	Longitudinal %	≤ 0.55 (HGS) / ≥ 0.75 (VGS)
				Transversal %	≤ 1.05 (HGS) / ≥ 1.25 (VGS)
3.6	Resistance to Wet Heat	EN 438-2:2016 (Clause-18)	Appearance	Rating	≥ 4
3.7	Resistance to impact with Small diameter ball	EN 438-2:2016 (Clause-20)	Spring Force	N	≥ 25 (HGS) / ≥ 15 (VGS)
3.8	Resistance to cracking under stress	EN 438-2:2016 (Clause-23)	Appearance	Rating	≥ 4
3.9	Resistance to scratching	EN 438-2:2016 (Clause-25)	Appearance - Smooth Finish	Rating	≥ 2 (HGS) / ≥ 1 (VGS)
3.10	Resistance to staining	EN 438-2:2016 (Clause-26)	Appearance - Group 1 & 2	Rating	≥ 5
			Appearance - Group 3	Rating	≥ 4
3.11	Light fastness (Xenon arc)	EN 438-2:2016 (Clause-27)	Contrast	Grey scale rating	4 to 5
3.12	Density	EN ISO 1183-1	Density	gm/cm ³	≥ 1.35
3.13	Gloss Level	DIN 67530	Gloss Level @ 60°	GU	≤ 4

Issue date : 01/04/2019

CERTIFICATIONS



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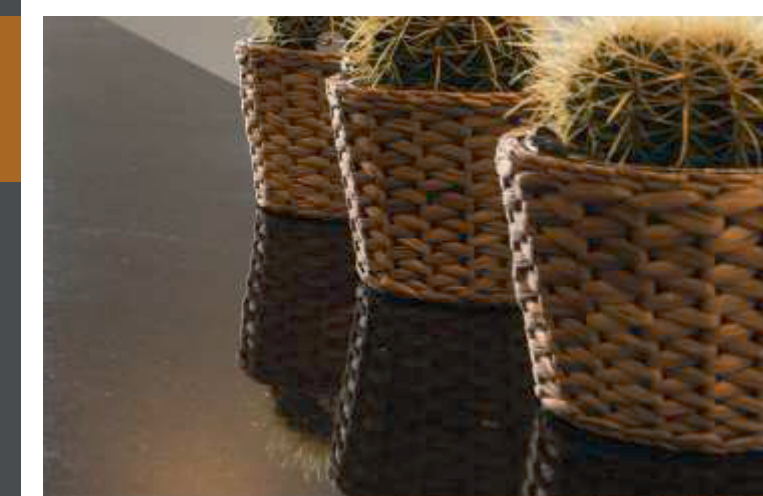
MIRROR - HIGH GLOSS LAMINATE

Scratch-proof shiny surfaces aren't a fiction anymore. Stylam introduces GlossPRO+ High Gloss Laminates crafted with first ever in India State-of-the-art machine with cutting edge German technology. The brilliance of gloss shall stay through years without any sign of wearing out!

This technologically advanced product gives excellent mar and abrasion resistance thereby maintaining the gloss level three times sustained than ordinary High Gloss laminates. Furthermore, GlossPRO+ High Gloss Laminate is resistant to stain and shows better results as compared to other high gloss laminates.

Absolute High Gloss

Mirror-like Reflective Surface



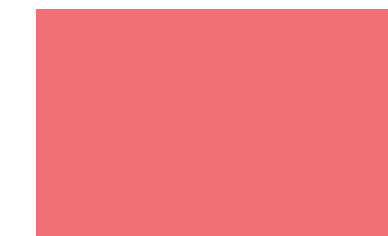
Sheet sizes

SIZE 1 : 1220 x 2440 mm
 SIZE 2 : 1220 x 3050 mm
 SIZE 3 : 1300 x 3050 mm

Available thickness: 1 mm & above



Egg White 8002



Pink Rose 1154



Shy Cherry 8223



Coffee 8231



Bottle Green 1156



Violet Blue 1153



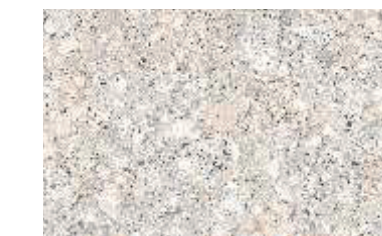
Purple Dye 1159



Black 8142



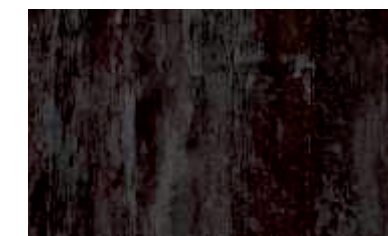
Kashmiri White 1519



Regel Stone 1494



Twilight Banana Wood 2245



Frozen Wood 2233

Rest all Colors available in Standard Sizes depending upon order Quantity

We are global pioneer for HOT COATING PROCESS

of PU+ Lacquer touching on thin laminates

First ever in India state-of-the-art machine with cutting edge German technology for producing flawless finish thin HPL



ATTRIBUTES & KEY FEATURES



APPLICATIONS

modular kitchens
retail spaces
hospitality
residential spaces



CARE & MAINTENANCE

GENERAL TIPS

- While laminates can take a lot of wear and tear, they can get scratched by sharp objects. So take care not to use any sharp objects or abrasive materials such as steel scrubbers to clean them.
- Laminates generally tend to fade with prolonged exposure to sunlight. Keep laminate furniture away from direct sunlight to prevent discoloration.
- Moisture and dampness will damage laminate surfaces and cause warping. Protect floors and furniture from excess water, even while cleaning.

STORAGE

- Stylam GlossPro+ laminate Sheets should be stored horizontally with the top sheet turned face down and a thick hard board placed on top to protect the material from possible damage and reduce the chances of getting warped. Stored laminate stock should be rotated such that older sheets will be used first. Laminate sheets should be protected from moisture, and should never be stored where they may come in contact with the floor or outside wall. Always carry sheet vertically. Never slide the sheet but, lift it while moving it from one place to another. We recommend that ideally two people should carry a full size sheet as carelessness can damage the decorative surface. The protective film should not be removed unless the job is complete.

CLEANING

- To clean the surface, use a damp cloth or sponge and a mild soap or detergent. Stains belonging to Coffee, black tea, milk (condensed and evaporated), cola beverages, vinegar, hydrogen peroxide (3% solution), ammonia (10% solution of commercial concentrate), nail polish remover, lipsticks, water colour, laundry marking ink, ball point ink can be removed using a mild household cleaner/detergent and a soft bristle brush.
- If a stain persists, apply a paste of baking soda and water with a soft bristled brush. Light scrubbing, 10 to 20 strokes should remove most stains. Although baking soda is a low abrasive, excessive scrubbing or exerting too much force may damage the decorative surface, especially if it has a gloss finish.

MAINTENANCE

- Abrasives: Abrasive pads, scouring powders or cleansers may permanently damage the laminate surface making it susceptible to staining.
- Harsh chemicals: Harsh chemicals such as oven cleaner, toilet cleaner, or drain cleaner will etch and discolour the decorative surface. High Pressure Decorative Laminates are not designed to resist continual contact with these chemicals. If any of these products spill over the surface remove immediately, rinse thoroughly, and wipe dry.
- Hot objects: Even though HPL has high heat resistance, exposure to temperatures greater than 135°C is not recommended. Hence, do not place hot frying pans or dishes directly from the oven or cooktop on the laminate surface. As a precaution, protect the surface from heat generating appliances such as pressing irons, toasters, curling irons and electric cookers by using a trivet or insulated pad. Prolonged exposure to temperatures above 65°C may result in separation of the laminate from the substrate.

TECHNICAL PROPERTIES

HPL as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS and High gloss (Gloss Pro+) range.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-2 & 3)
			EN-438 Laminate Classification		HGS / VGS
1 SURFACE QUALITY					
1.1	Surface quality	EN 438-2:2016 (Clause-4)	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1
			Fibres, hairs and scratches	mm/m ²	≤ 10
2 DIMENSIONAL PROPERTIES					
2.1	Thickness	EN 438-2:2016 (Clause-5)	Thickness tolerance	mm	0.5≤T<1 : ±0,1
				mm	1≤T<2 : ±1,5
2.2	Size	EN 438-2:2016 (Clause-6)	Length and width	mm	+ 10 / - 0
2.3	Straightness of edges	EN 438-2:2016 (Clause-7)	Straightness of edges	mm/m	≤ 1,5
2.4	Squareness	EN 438-2:2016 (Clause-8)	Squareness	mm/m	≤ 1,5
2.5	Flatness	EN 438-2:2016 (Clause-9)	Flatness (measured on full-size sheet)	mm/m	60
3 PHYSICAL PROPERTIES					
3.1	Resistance to surface wear	EN 438-2:2016 (Clause-10)	Wear Resistance - Initial Point	Revolutions	≥ 250 (HGS) / ≥ 150 (VGS)
3.2	Resistance to immersion in boiling water	EN 438-2:2016 (Clause-12)	Appearance	Rating	≥ 3
3.3	Resistance to water vapour	EN 438-2:2016 (Clause-14)	Appearance	Rating	≥ 3
3.4	Resistance to dry heat (160°C)	EN 438-2:2016 (Clause-16)	Appearance	Rating	≥ 3
3.5	Dimensional stability at elevated temperatures	EN 438-2:2016 (Clause-17)	Cumulative dimensional change	Longitudinal %	≤ 0,55 (HGS) / ≥ 0,75 (VGS)
				Transversal %	≤ 1,05 (HGS) / ≥ 1,25 (VGS)
3.6	Resistance to Wet Heat	EN 438-2:2016 (Clause-18)	Appearance	Rating	≥ 3
3.7	Resistance to impact with Small diameter ball	EN 438-2:2016 (Clause-20)	Spring Force	N	≥ 25 (HGS) / ≥ 15 (VGS)
3.8	Resistance to cracking under stress	EN 438-2:2016 (Clause-23)	Appearance	Rating	≥ 4
3.9	Resistance to scratching	EN 438-2:2016 (Clause-25)	Appearance - Smooth Finish	Rating	≥ 2 (HGS) / ≥ 1 (VGS)
3.10	Resistance to staining	EN 438-2:2016 (Clause-26)	Appearance - Group 1 & 2	Rating	≥ 5
			Appearance - Group 3	Rating	≥ 4
3.11	Light fastness (Xenon arc)	EN 438-2:2016 (Clause-27)	Contrast	Grey scale rating	4 to 5
3.12	Density	EN ISO 1183-1	Density	gm/cm ³	≥ 1,35
3.13	Gloss Level	DIN 67530	Gloss Level @ 60°	GU	≥ 90
3.14	DOI Value	RHO Point meter	DOI value	Level	≥ 93
3.15	RIQ Value	RHO Point meter	RIQ value	Level	≥ 80
3.16	Tape resistance	IHD-W-464	Adhesion test (cross cut)	Rating	0

Disclaimer : This Product Technical Sheet gives technical information relevant to the performance of product as tested by STYLAM and External certified testing agencies. STYLAM reserves the right to change product composition and characteristics at any time.

CERTIFICATIONS



DIGITAL LAMINATE

DiGi delight
DIGITAL LAMINATES
[HD+]

Let your imagination loose on your laminates.

Allow us to customize your world with our collection of laminates with digital impressions. Or design your own laminate and share it with us - it can be an image or any other design. We will help you convert your imagination into reality on our laminates.

Imagination has no boundaries. But the real art is, when you can translate your imagination to something that you can see, touch and feel. This is what sums up the intention of STYLAM Digital Laminates. With themes ranging from Abstract, Nature, Childhood, Youthful and Retro, you can choose from any category. Come, explore a whole new world of creative and quality laminates to discover the ocean of inspiration to match your ideas.



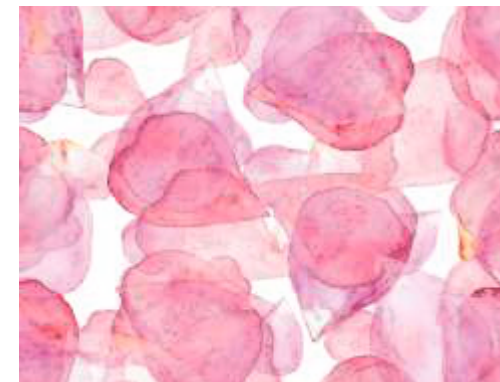
Sheet sizes

Available thickness: **1 mm & above**

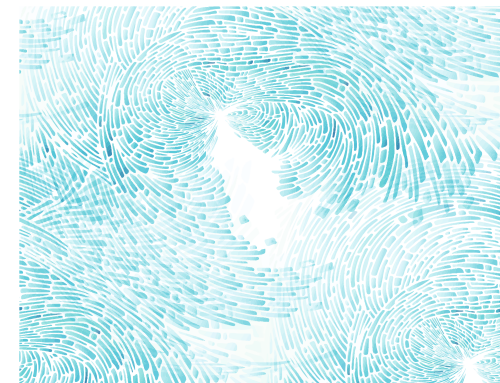
SIZE 1: STANDARD - **4' X 8'**

SIZE 2: MAKE TO ORDER - **4' X 10'**

ABSTRACT



AB 01



AB 02



AB 03

NATURE



NA 01

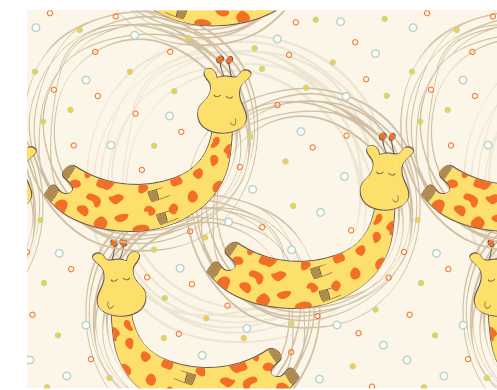


NA 02



NA 05

CHILDHOOD



CH 02



CH 04

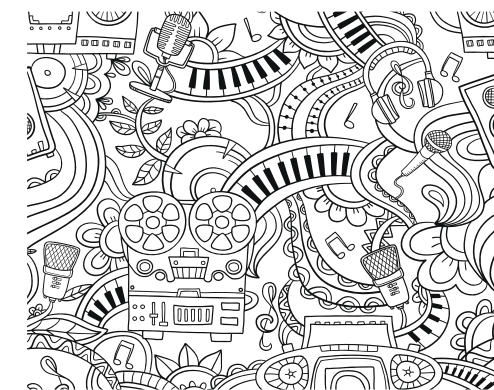


CH 05

YOUTHFUL



YU 01

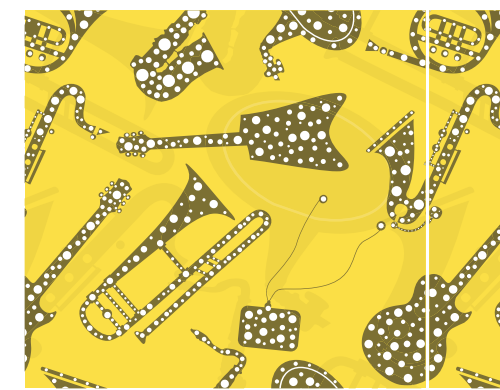


YU 04



YU 05

RETRO



YU 06



RT 02



APPLICATIONS

RESIDENTIAL SPACES modular kitchens, children's rooms, living area, bedrooms

RETAIL & COMMERCIAL SPACES showrooms, display counters, office cubicles, boardrooms, meeting rooms, reception area

HOSPITALITY restaurants, cafes, bars, hotel receptions, spas, gyms, clubs



CARE & MAINTENANCE

GENERAL TIPS

- While laminates can take a lot of wear and tear, they can get scratched by sharp objects. So take care not to use any sharp objects or abrasive materials such as steel scrubbers to clean them.
- Laminates generally tend to fade with prolonged exposure to sunlight. Keep laminate furniture away from direct sunlight to prevent discoloration.
- Moisture and dampness will damage laminate surfaces and cause warping. Protect floors and furniture from excess water, even while cleaning.

STORAGE

- Stylam Digital Laminate Sheets should be stored horizontally with the top sheet turned face down and a thick hard board placed on top to protect the material from possible damage and reduce the chances of getting warped. Stored laminate stock should be rotated such that older sheets will be used first. Laminate sheets should be protected from moisture, and should never be stored where they may come in contact with the floor or outside wall. Always carry sheet vertically. Never slide the sheet but, lift it while moving it from one place to another. We recommend that ideally two people should carry a full size sheet as carelessness can damage the decorative surface. The protective film should not be removed unless the job is complete.

CLEANING

- To clean the surface, use a damp cloth or sponge and a mild soap or detergent. Stains belonging to Coffee, black tea, milk (condensed and evaporated), cola beverages, vinegar, hydrogen peroxide (3% solution), ammonia (10% solution of commercial concentrate), nail polish remover, lipsticks, water colour, laundry marking ink, ball point ink can be removed using a mild household cleaner/detergent and a soft bristle brush.
- If a stain persists, apply a paste of baking soda and water with a soft bristled brush. Light scrubbing, 10 to 20 strokes should remove most stains. Although baking soda is a low abrasive, excessive scrubbing or exerting too much force may damage the decorative surface, especially if it has a gloss finish.

MAINTENANCE

- Abrasives: Abrasive pads, scouring powders or cleansers may permanently damage the laminate surface making it susceptible to staining.
- Harsh chemicals: Harsh chemicals such as oven cleaner, toilet cleaner, or drain cleaner will etch and discolour the decorative surface. High Pressure Decorative Laminates are not designed to resist continual contact with these chemicals. If any of these products spill over the surface remove immediately, rinse thoroughly, and wipe dry.
- Hot objects: Even though HPL has high heat resistance, exposure to temperatures greater than 135°C is not recommended. Hence, do not place hot frying pans or dishes directly from the oven or cooktop on the laminate surface. As a precaution, protect the surface from heat generating appliances such as pressing irons, toasters, curling irons and electric cookers by using a trivet or insulated pad. Prolonged exposure to temperatures above 65°C may result in separation of the laminate from the substrate.

TECHNICAL PROPERTIES

High Pressure Laminates (HPL) as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS and Anti-finger range.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREM ENT	RESULTS (AS PER EN 438-4)	
			EN-438 Laminate Classification		CGF/EDF	
1 SURFACE QUALITY						
1.1	Surface quality	EN 438-2.4	Spots, dirt and similar surface defects	mm ² /m ²	≤ 1	
			Fibres, hairs and scratches	mm/m ²	≤ 10	
2 DIMENSIONAL PROPERTIES						
2.1	Thickness	EN 438-2.5	Thickness tolerance	mm	1 ≤ T < 2 : ± 0.15	
				mm	2 ≤ T < 3 : ± 0.2	
				mm	3 ≤ T < 5 : ± 0.3	
2.2	Size	EN 438-2.6	Length and width	mm	+ 10 / - 0	
2.3	Straightness of edges	EN 438-2.7	Straightness of edges	mm/m	≤ 1,5	
2.4	Squareness	EN 438-2.8	Squareness	mm/m	≤ 1,5	
2.5	Flatness	EN 438-2.9	Flatness (measured on full-size sheet)	mm/m	Max, 8,0	
3 PHYSICAL PROPERTIES						
3.1	Resistance to surface wear	EN 438-2.10	Wear Resistance	Revolutions	≥ 350	
				Mass increase	%	CGF - ≤ 7
				Thickness increase	%	CGF - ≤ 9
3.2	Resistance to immersion in boiling water	EN 438-2.12	Appearance - Gloss Finish	Rating	≥ 3	
				Appearance - Other Finishes	Rating	≥ 4
				Appearance - Gloss Finish	Rating	≥ 3
3.3	Resistance to water vapour	EN 438-2.14	Appearance - Other Finishes	Rating	≥ 4	
				Appearance - Gloss Finish	Rating	≥ 3
3.4	Resistance to dry heat (180°C)	EN 438-2.16	Appearance - Other Finishes	Rating	≥ 4	
				Appearance - Gloss Finish	Rating	≥ 3
3.5	Dimensional stability at elevated temperatures	EN 438-2.17	Cumulative dimensional change - 2 ≤ T < 5mm	L %	≤ 0,40	
				T %	≤ 0,80	
3.6	Resistance to impact with large diameter ball	EN 438-2.21	Indent. dia. 10mm - Drop Height	mm	≥ 1400	
3.7	Resistance to crazing	EN 438-2.24	Appearance	Rating	≥ 4	
				Appearance - Smooth Finishes	Rating	≥ 2
3.8	Resistance to scratching	EN 438-2.25	Appearance - Textured Finishes	Rating	≥ 3	
				Appearance - Group 1 & 2	Rating	≥ 5
3.9	Resistance to staining	EN 438-2.26	Appearance - Group 3	Rating	≥ 4	
				Appearance - Group 1 & 2	Rating	≥ 5
3.10	Light fastness (Xenon arc)	EN 438-2.27	Contrast	Grey scale rating	4 to 5	
3.11	Flexural modulus	EN ISO 178	Stress	Mpa	≥ 9000	
3.12	Flexural strength	EN ISO 178	Stress	Mpa	≥ 80	
3.13	Density	EN ISO 1183	Density	gm/cm ³	≥ 1,35	
4 FIRE PERFORMANCES			Test as per EN 13823 (SBI test) and EN ISO 11925-2 (Small-burner test)			
4.1	Fire Reaction Classification, EGF-EDF	EN 135 01	Classification - 3 ≤ T < 6 mm	Rating	B - s2, d0	
			Classification - T ≥ 6 mm	Rating	B - s1, d0	
4.2	Fire Reaction Classification, EGS-EDS	EN 135 01	Classification - T ≥ 10 mm	Rating	B - s1, d0	
5 OTHER PROPERTIES						
5.1	Release of Formaldehyde	EN 438-7.4.11.1	Classification	Rating	E1	

Disclaimer : This Product Technical Sheet gives technical information relevant to the performance of product as tested by STYLAM and External certified testing agencies. STYLAM reserves the right to change product composition and characteristics at any time.

CERTIFICATIONS



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