

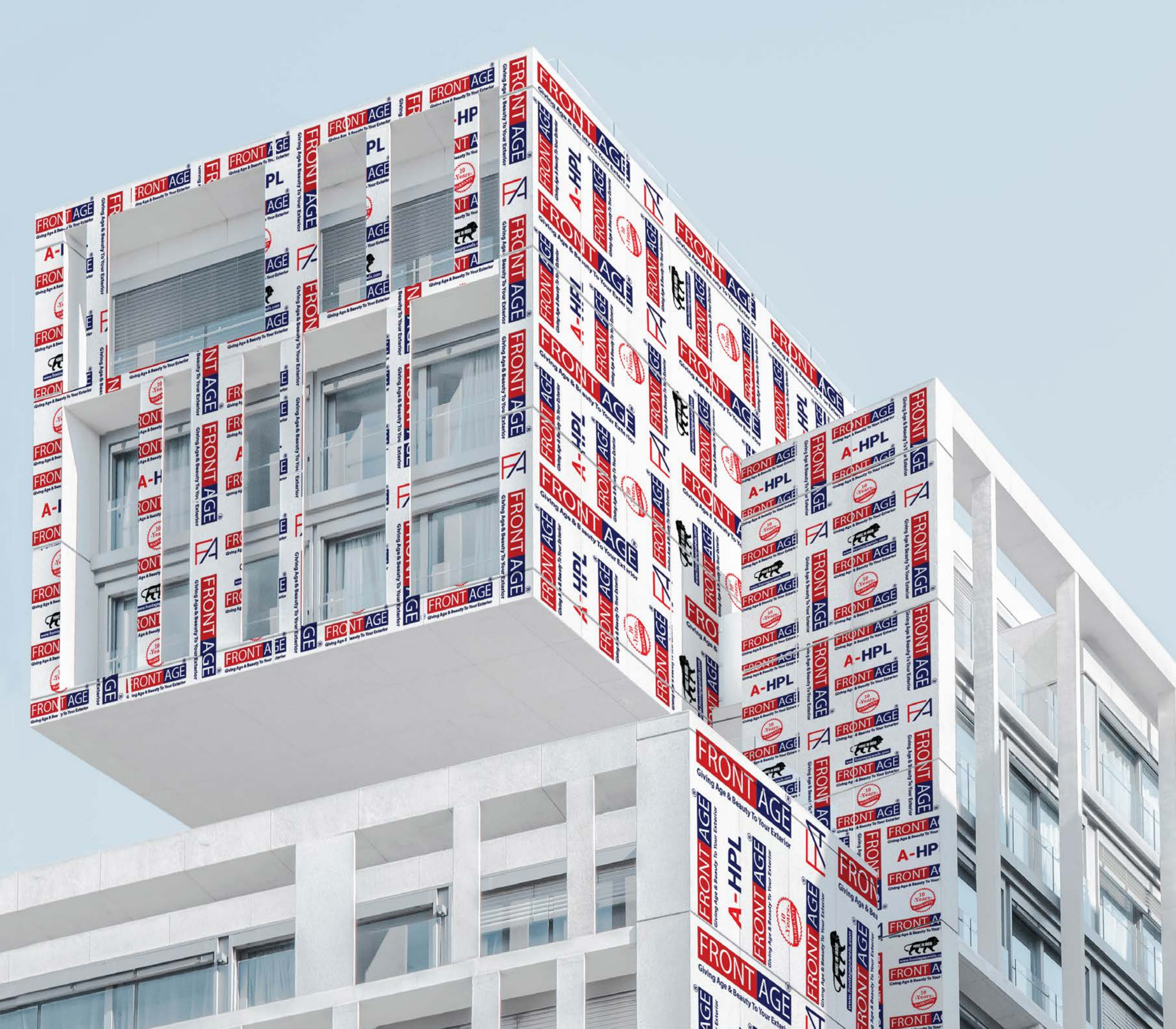


FRONT AGE[®]

Giving Age & Beauty To Your Exterior

A-HPL

• INSPIRED BY NATURE •



The Frontage Group is one of the fastest growing Organization in the interior and exterior infrastructure. Having its presence PAN India and catering more than 500 dealers. Frontage group is established by Mr. Naresh Ahuja in 1989.

The A-HPL designed by Frontage have all the attributes of a new generation product which we have gained by combining excellent artistic features with virtues of interest for all architectural design solutions, starting from ductility to strength. A-HPL is a product that is both easy to work on and remarkably strong at the same time. Our A-HPL is resistant to scratches, heavy impact, chemical substances, and heat. All these attributes make it an ideal material for diverse applications. To ensure further properties, it is also antibacterial and fireproof, therefore they are especially suitable for applications in public places or areas where hygiene important for eg, kitchens & hospitals.

The company is committed to serve the best quality of HPL in Both Paper & Aluminium Based. Our products are at par with global standards which are high on design, quality and style. Powered by research and development team we have developed Metal Based A-HPL with 6mm thickness which is perfectly suitable for extreme and completely unpredictable Indian weather. Metal Based A-HPL is widely used in miscellaneous fields due to its excellent mechanical and physical performance which make it one of the most popular materials in various application areas such as:-

- Balcony Cladding
- Wall Cladding
- Gate Elevation
- Attic Cladding
- Rafters
- Fence
- Ceiling
- Canopy
- Louvers
- Railings
- Pergola



A-HPL

Frontage A-HPL Series is a premium product which is available with 20 different attractive eye catching appeal wooden and marble colours with warranty of 10 years. The **Frontage A-HPL** series coating based on advanced nano particle chemistry in the form of silica filled siloxane sol-gels that cur to form a clear and extremely thin scratch resistance layer. **Frontage A-HPL** series panels have specially designed to meet the challenges i.e. beauty of smooth surface coating with abrasion resistance properties as well as incorporate stain and solvent resistance. Frontage wood A-HPL series panels are used each with unique qualities, such as colour, durability hardness, visual structure, etc. offering numerous solutions for the design of facdes.

TECHNICAL SPECIFICATIONS

Technical Specifications of A-HPL		
S.No	Items	A-HPL
1	Thickness of composite panel (mm)	6mm
2	Skin Thickness (mm)	0.25mm / 0.50mm
3	Iacquering	LUMIFLON/PVDF
4	Polyethylene type LDPE (g/cm3)	0.92
5	Weight (kg/sqm)	7.5kg
6	Temperature Resistance	From -50°C to +80°C

Mechanical Properties of ACM		
S.No	Items	A-HPL
1	Tensile Strength (ASTM E-8)	3.2 Kgmp2
2	Yield Strength (ASTM E-8)	4 kg/mm2
3	Flexural Elasticity (ASTM C-393)	4030 kg/mm2
4	Thermal Expansion (ASTM D-698)	1.1 mm/m/50.C
5	Elongation (ASTM E-8)	13%

Mechanical Properties of Aluminium Skin		
S.No	Items	A-HPL
1	Aluminium Alloy Grade	H 18 - 1 100
2	Yield Strength	14 kg/mm2
3	Modules of Elasticity (ASTM C-393)	7000 kg/mm2
4	Bond Integrity (ASTM C-297)	118 kg/cm2
5	Deflection Temperature (ASTM D-698)	100°C

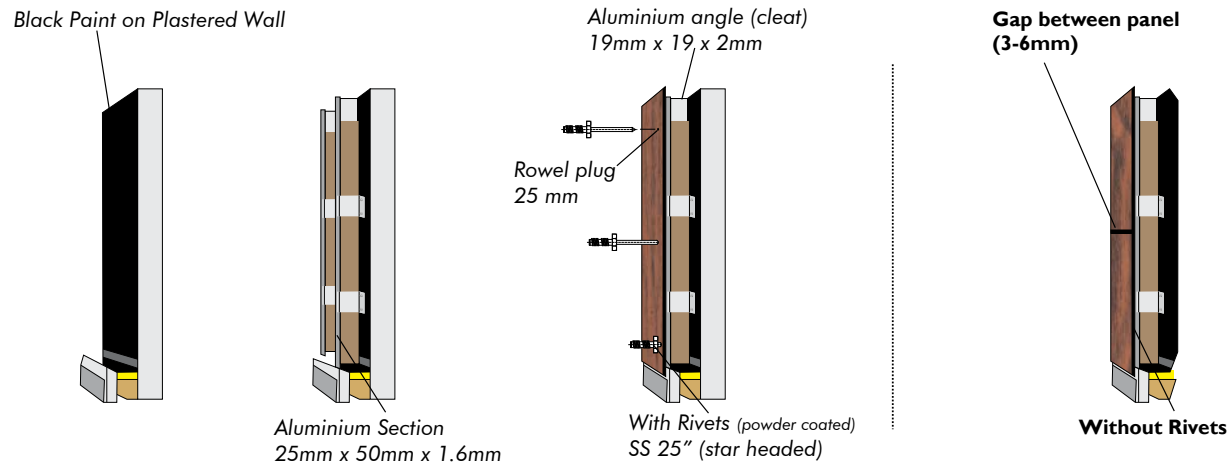
General Properties		
S.No	Items	A-HPL
1	Rigidity E-J (KN cm 2/3)	B65
2	Hardness (Pencil hardness)	3H
3	Abrasion Resistance (ASTM-D-968-81)	The painted film Doesn't wear out through pouring 50 litre of sand on the surface of the coated panel.
4	Elongation ASTM E-8	A50>=3%
5	Film Hardness (Pencil hardness)	2H
6	Gloss at 600	26
7	Reverse Impact Crosshatch ASTM01737-62	2T. No Cracking



Accoustical Properties		
S.No	Items	A-HPL
1	Loss Factor D	0.0057
2	Airborn Sound Insulation Index RW (DB)	24
3	Sound Absorption Factor as	0.05



Fixing Method

(Recommendation)



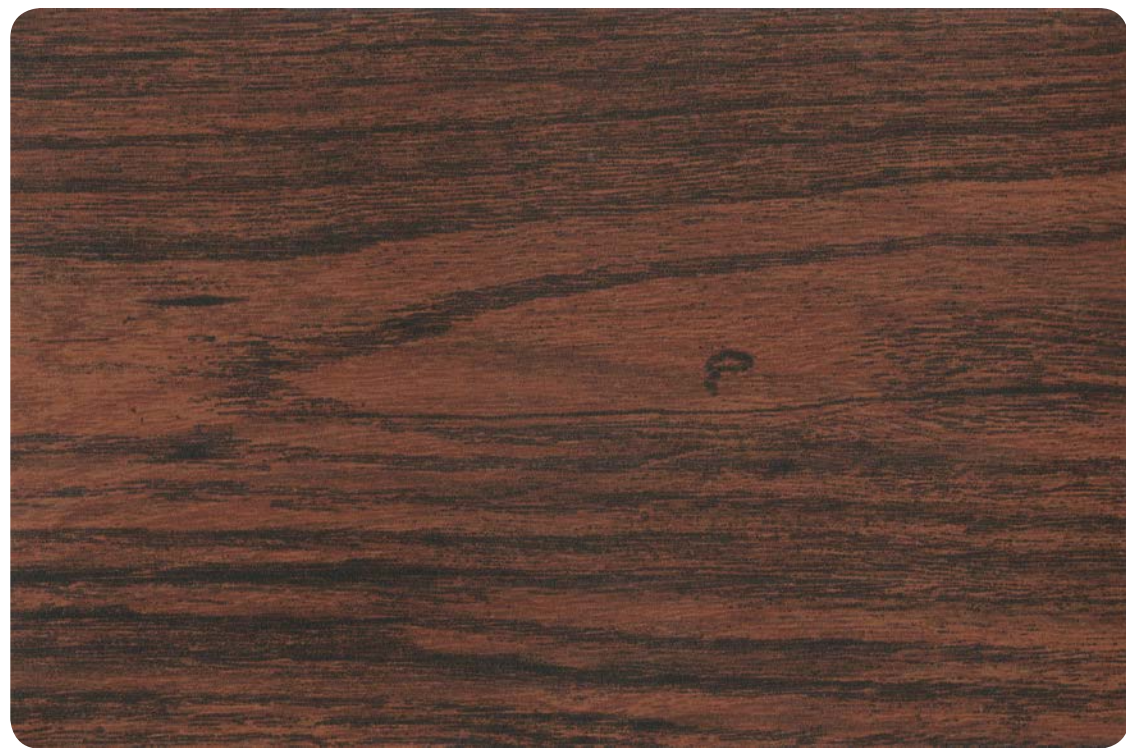
Thickness of Sheet	Minimum distance of holes to edge	Maximum distance between the holes-width	Maximum distance between the holes-length
6mm	10-20mm	450mm	550
 Panels can be in CONVEX or CONCAVE shapes		 Panels can be bend on 90° angle	

Fixing Detail (with Rivets)	Fixing Detail (without Rivets)
<ul style="list-style-type: none">Black Paint on Plastered Wall.Fix aluminium section on wall, maintain gap of 400 - 700mm center to center with help of cleat vertically.Pilot hole must be pre- drilled before fastening rivets tight.Size of rivets must be three times the thickness of panel and gauge of aluminium. Ensure rivets used are fully threaded.	<ul style="list-style-type: none">Slightly rub off the surface of aluminium section & portion of plank with the help of sand paper.Don't use any silicon in gap filling.Maintain the minimum gap of 3mm to 6mm in between the Planks.
* Product color may vary from actual shade. Please refer shade card / sample for actual shade before placing the order.	



A- HPL FEATURES

- PVDF/Lumiflon Coating
- Termite & Bacteria Proof
- 90° Bendable
- 10 Years Warranty
- Easy to Clean
- Easy Installation
- CNC Cutting
- Green Product
- Water & Fungus Proof
- Durability
- Weather Resistant



FA-812 RUSTIC WOOD

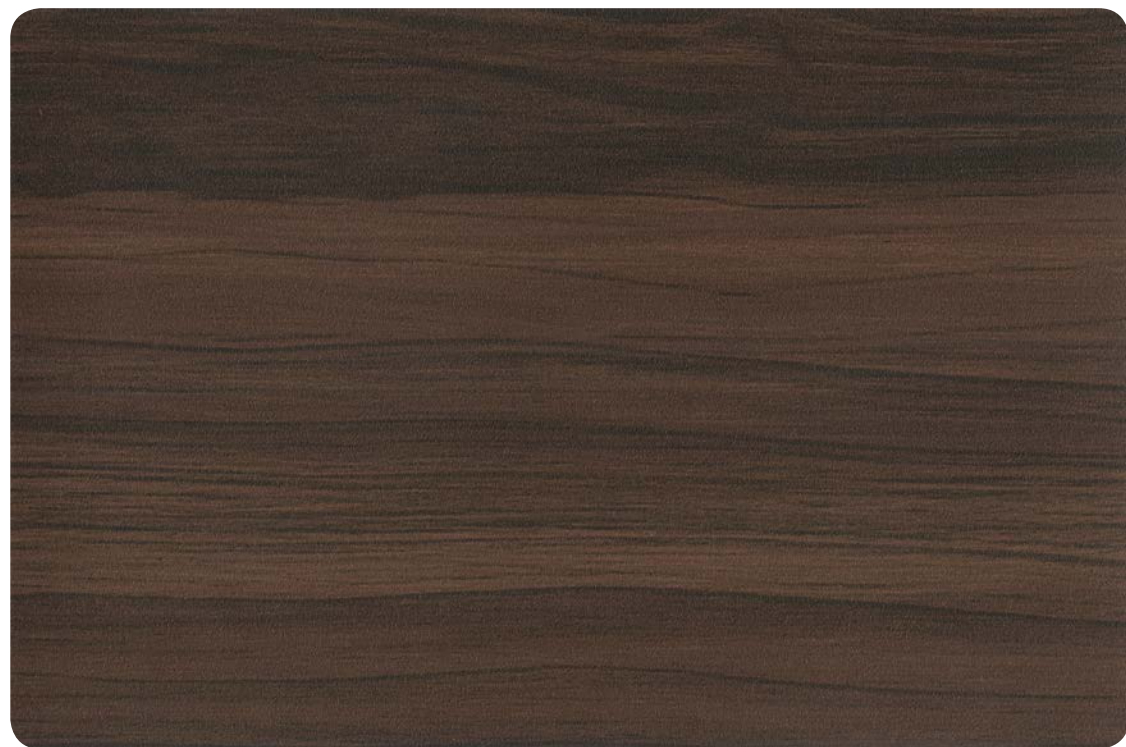


FA-800 ROYAL WALNUT





FA - 803 TURKEY PINE



FA - 804 DARK OAK

DESIGN : FA-803



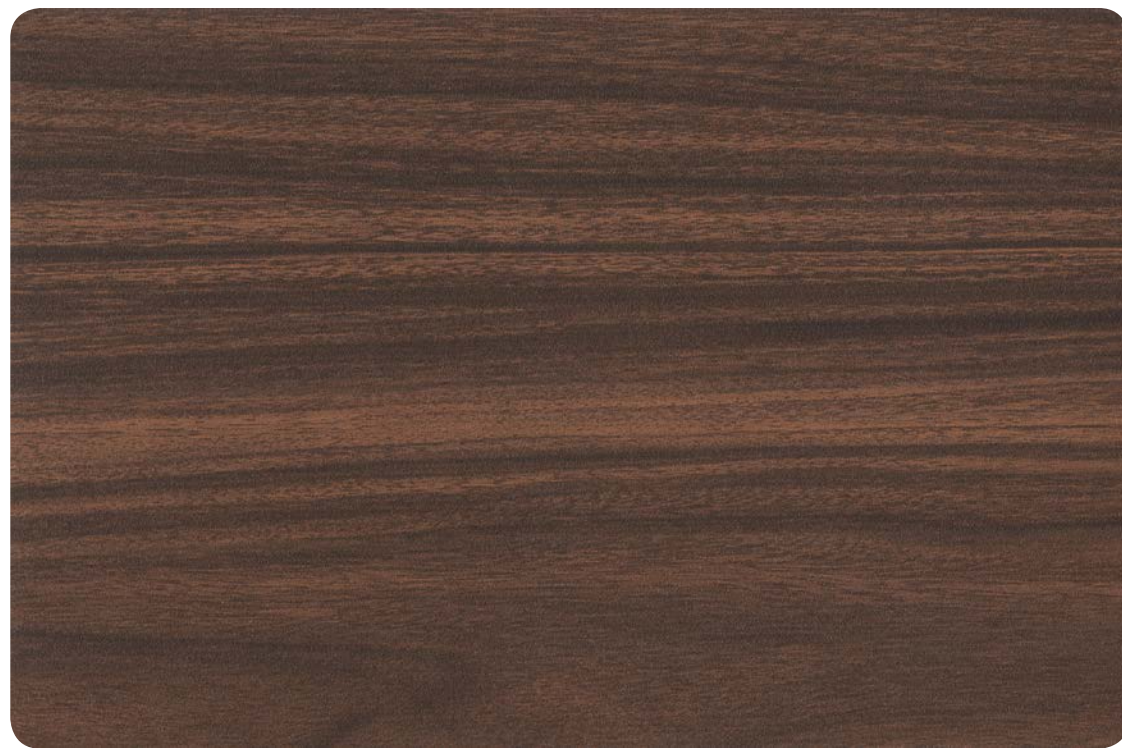


FA-806 ENGLISH WOOD

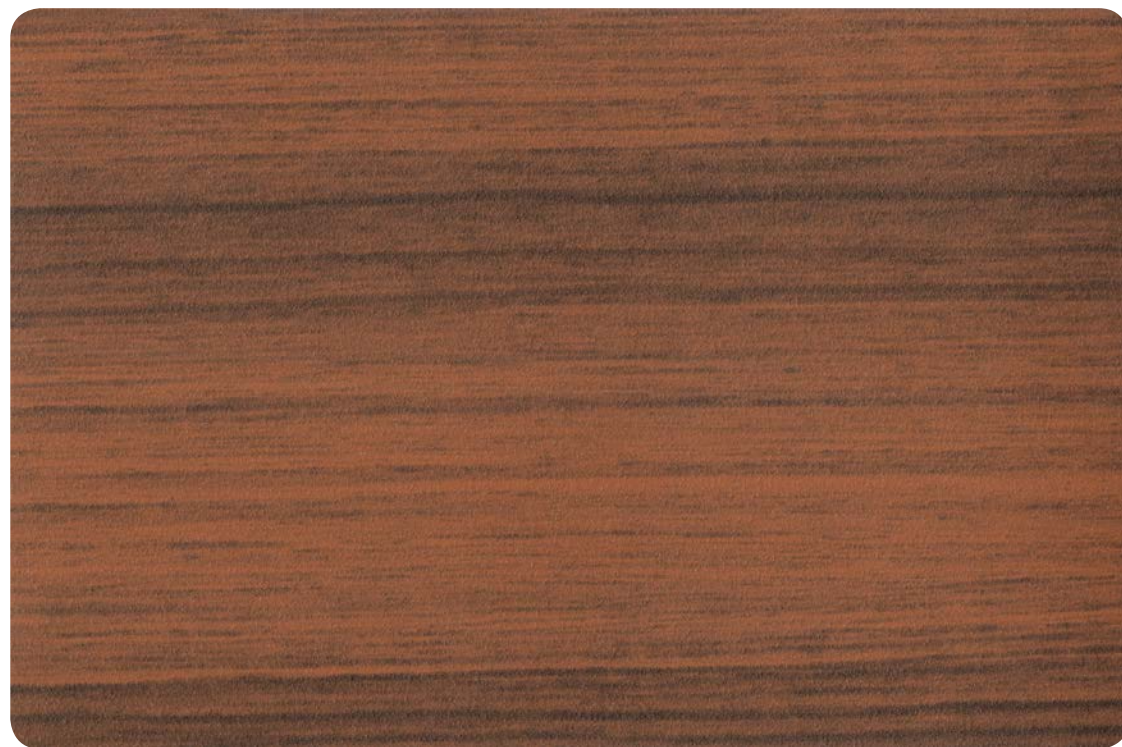


FA-801 PRINCESS WALNUT



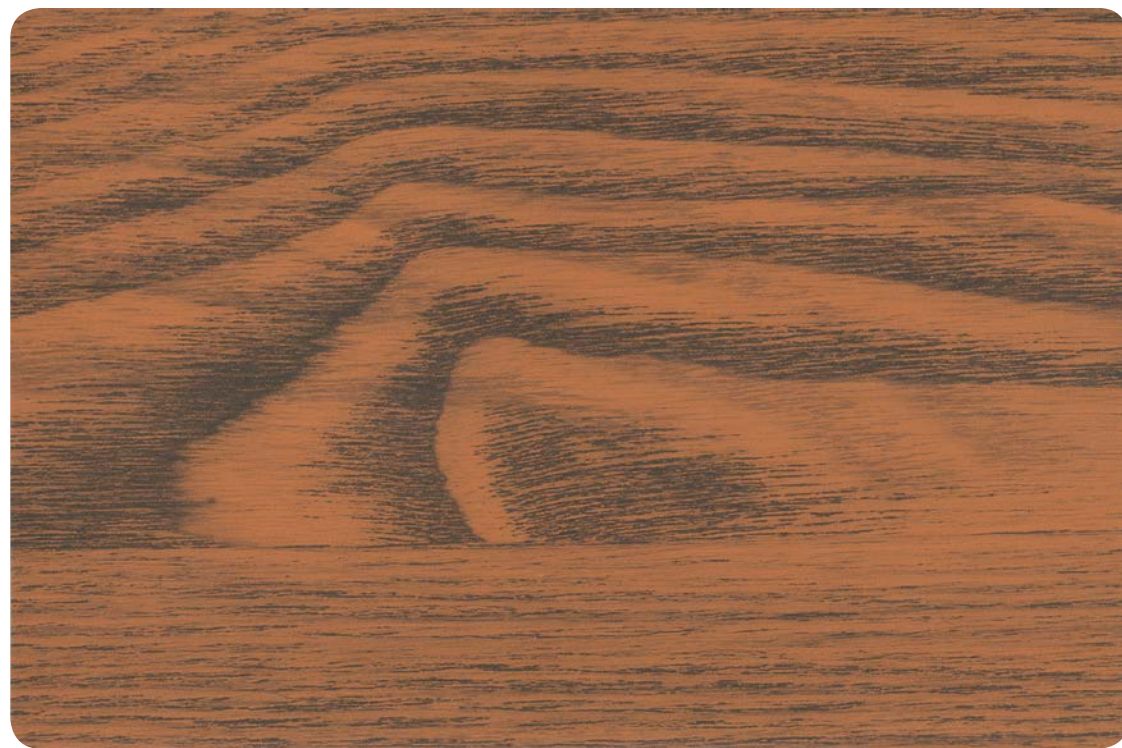


FA-802 AMERICAN WALNUT



FA-808 ROYAL TEAK



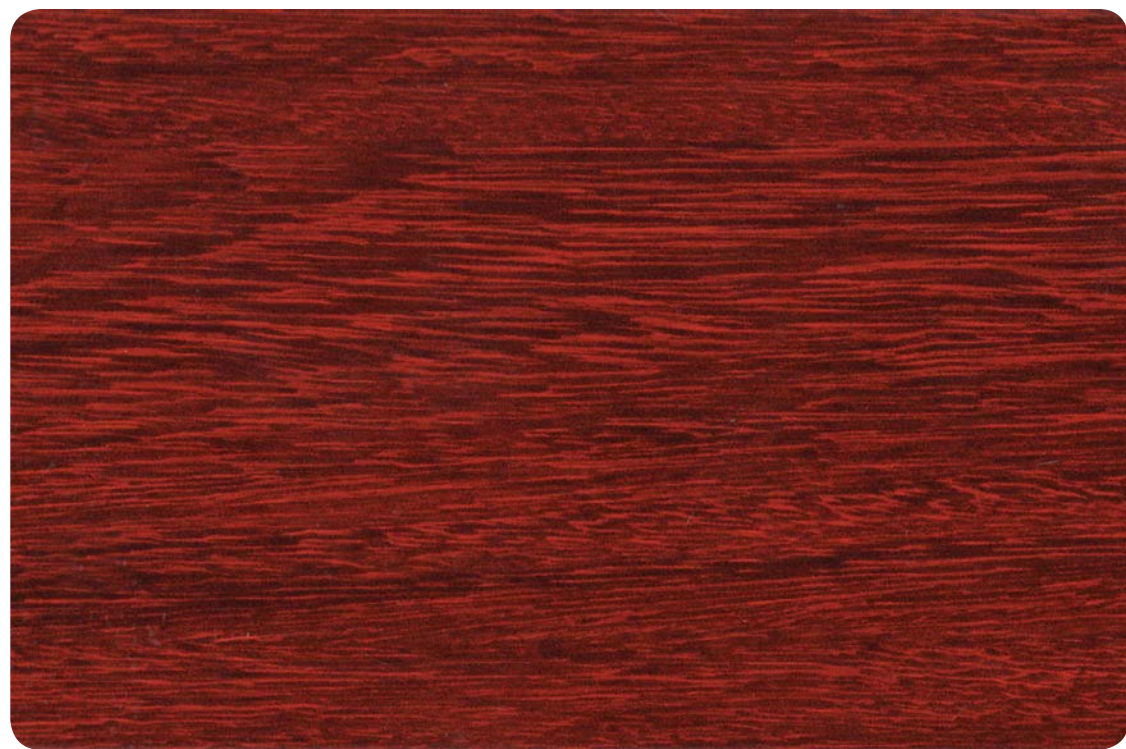


FA-807 ASIAN WALNUT

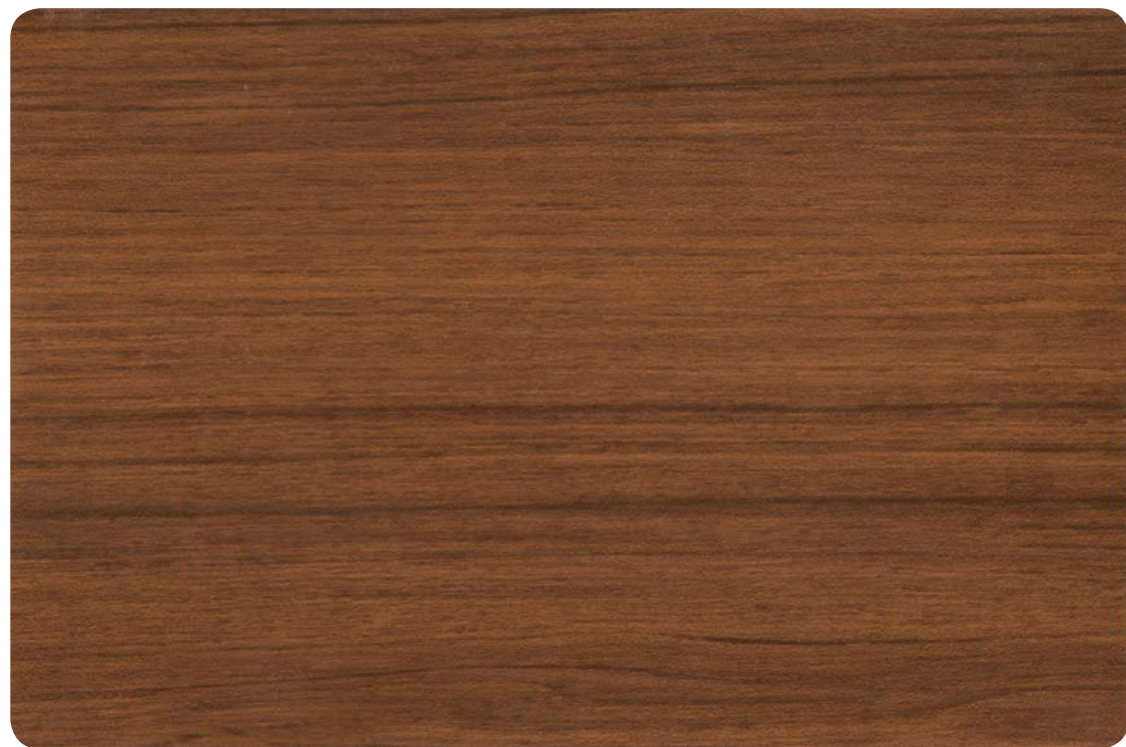


FA-809 EBONY





FA-805 ROSE WOOD



FA-814 BURMA TEAK



DESIGN : FA-805

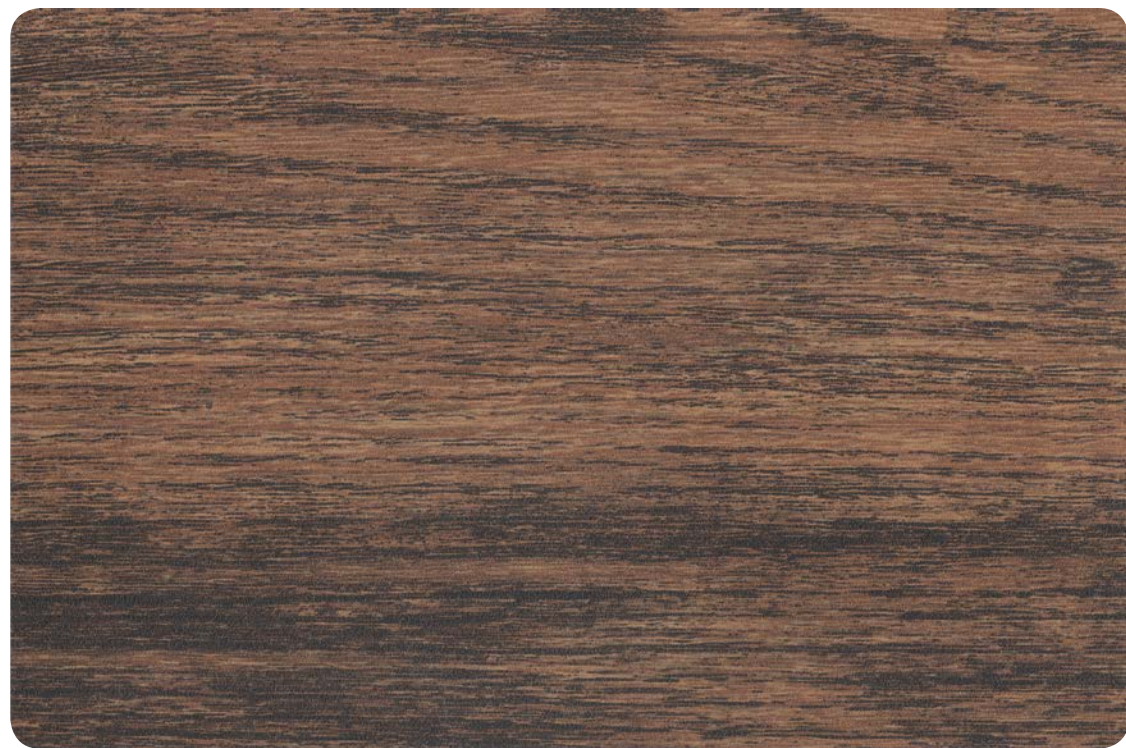


FA-813 NATURAL OAK



FA-810 ZEBRA WOOD





FA-811 AFRICAN WOOD



FA-005 DARK GREY



DESIGN : FA-811



FA-901 BLACK MARBLE



FA-904 TRAVATINO



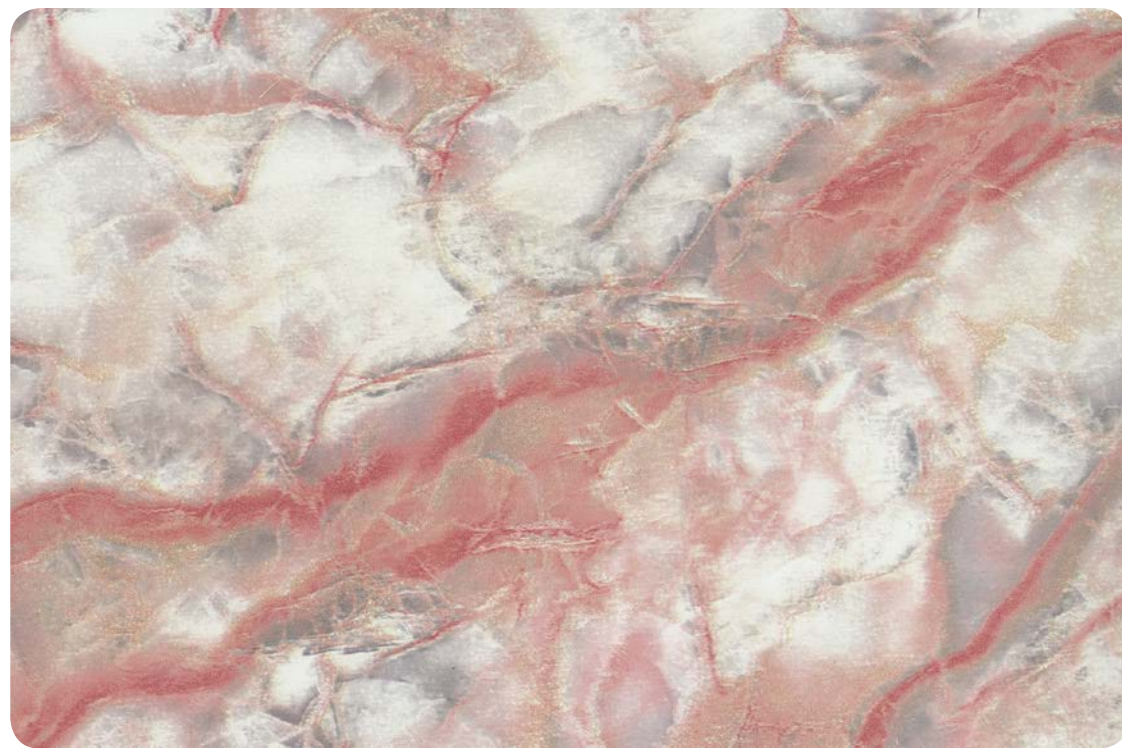


FA-903 ITALIAN OAK

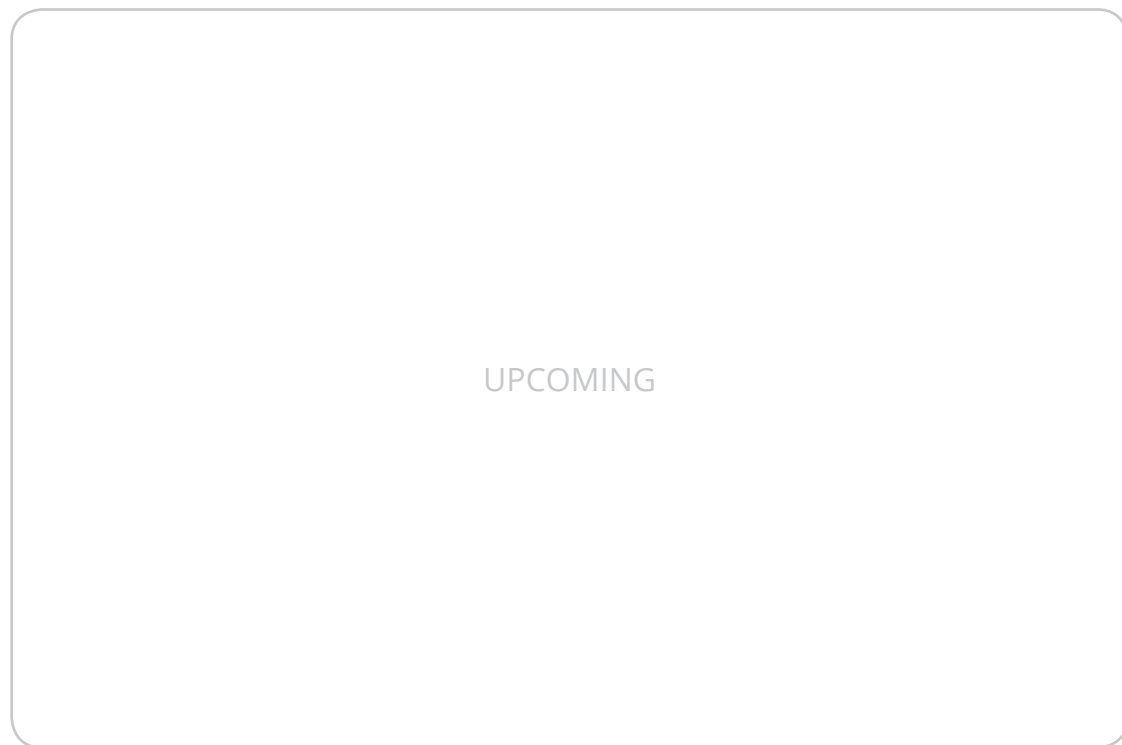


FA-900 EMPERADOR





FA-902 ITALIAN ONYX



UPCOMING





FRONT AGE[®]

Giving Age & Beauty To Your Exterior

For sales and inquiry

Info@frontagehpl.com

www.frontagehpl.com

www.frontagepanels.com

*Colour may vary from batch to batch $\Delta \pm 5$

To avoid colour variation, place an order the total quantity for one particular building.
To avoid possible reflection of light variation, install panels in the same direction as marked on the protective film.

*Incase of any manufacturing fault, the liability will be limited only to the Product only.

Channel Partner :

