



FLEXIBOND®
AN ATTACHMENT



AP|EX
Aluminium High-Pressure Laminates

WOODEN | MARBLE | CORTEN | METALIC



The high-pressure laminate -Apex designed by Flexibond 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. Flexibond's AHPL is a product that is both easy to work on and remarkably strong at the same time. Our AHPL 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.

		
High Thermal Insulation Properties	Good At Acoustic Properties	Water Resistant
		
Overall High Combined Strength	Least Waste At Site	Ease To Fabricate And Handle
		
Eco Friendly Product	Bendable Material Compare To Hpl	Low Expansion Contraction

FUTURISTIC

INNOVATION

GIVE YOUR SPACE AN ELEGANT TOUCH!


OUTDOOR
CLADDING


FACADES


GATE
ELEVATION


FENCES


BALCONY
CLADDING


RAFTERS


LOUVERS


CANOPY


RAILING


CEILING

Flexibond is forever committed to exceeding your needs and so we have introduced our newest corten steel collection which displays a rustic antique appearance. In it's most basic meaning, utilizing corten steel collection will present your structure with a look that's natural, rough, aged, and casual but at the same time has that modern tactility. In short, by applying these, you can kiss the conventional style goodbye!



C|O|R|T|E|N



Corten Copper

FB - 722 RC



Corten Bronze

FB- 723 RC



Corten Grey

FB- 724 RC

CLASS
RESIDES
HERE
FOR GOOD



Nature has never failed to amaze mankind with its flawlessness, keeping that in mind Flexibond has come up with the latest collection of wooden partition panels. Crafted precisely, every detail in our partition panel is nothing but utter excellence. Above all, we have various natural wood look finishes and you are assured to love the stimulus these nature-inspired products create with their soothing visuals.



W|O|O|D|E|N



Brazilian Scupira

FB-821 RW



Knotty Wood

FB - 823 RW



Country Oak

FB - 822 RW



Cuban Chestnut

FB-824 RW





African Ipe

FB-825 RW



Novoceno Pine

FB - 826 RW



Dark Oak

FB- 827 RW



Illusion Teak

FB- 828 RW



Mexican Teak

FB - 801



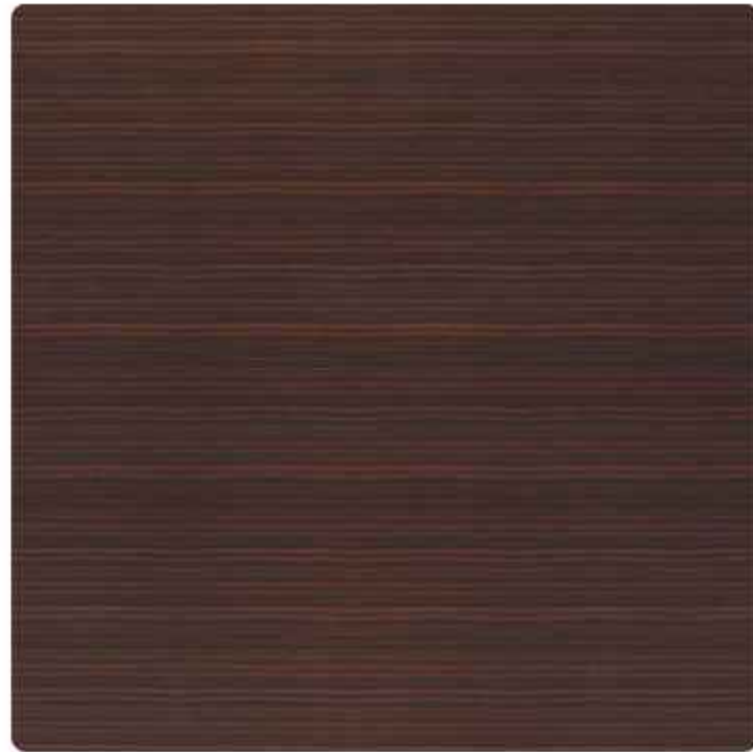
Canadian Cherry

FB - 802 RW



Brazilian Walnut

FB-804



African Sapeli

FB - 805



Ebony

FB - 808



Gemini Oak

FB - 809



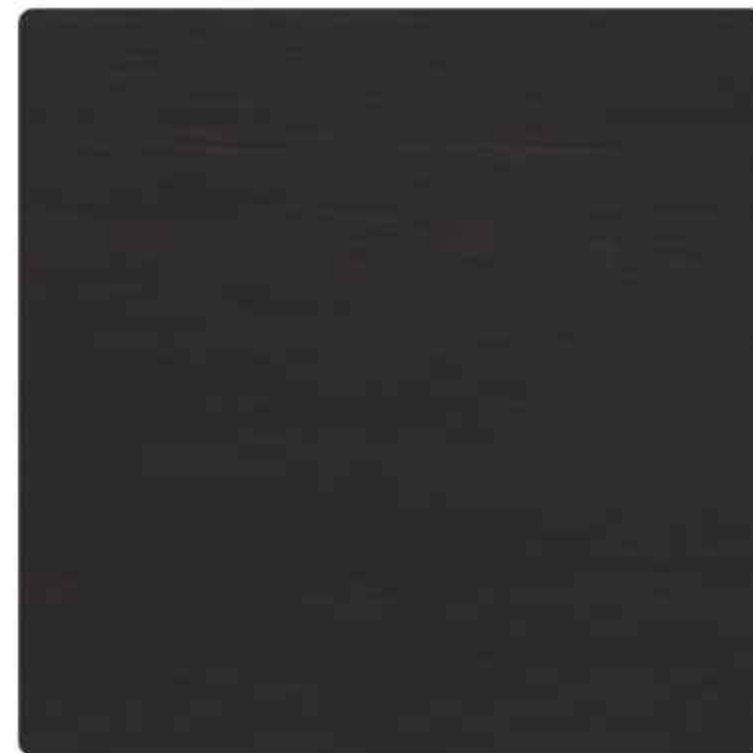
Congo Sapeli

FB-806



Finland Cherry

FB-807 RW



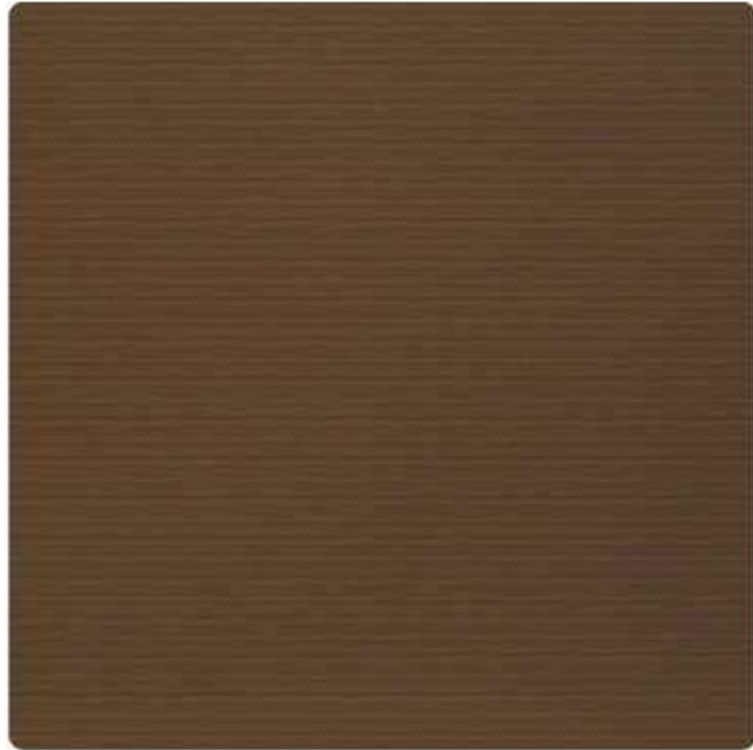
Sisam Wood

FB - 810



Rose Wood

FB - 811



Golden Teak

FB-812 RW



Laurel Wood

FB - 813 RW



Burn Walnut

FB - 816



Saw Cut Wood

FB - 817



Bruma Teak

FB - 814 RW



California Walnut

FB - 815



Antique Wood

FB - 818

**EXCLUSIVE
SET OF
FUTURISTIC
DESIGNS**

Marble is a spellbinding substance of 'mother nature' and amongst stones 'marble' is the most marvellous, considering this Flexibond has introduced the latest collection of marble series. This collection of panels is so precise in mimicking marbles that it seems as if they are actually quarried from mother earth. Be it a home or a corporate office, we have designs that come with a promise of earthy elegance and enhance the overall ambiance at the drop of a hat.



M | A | R | B | L | E



Italian Crema

FB - 701



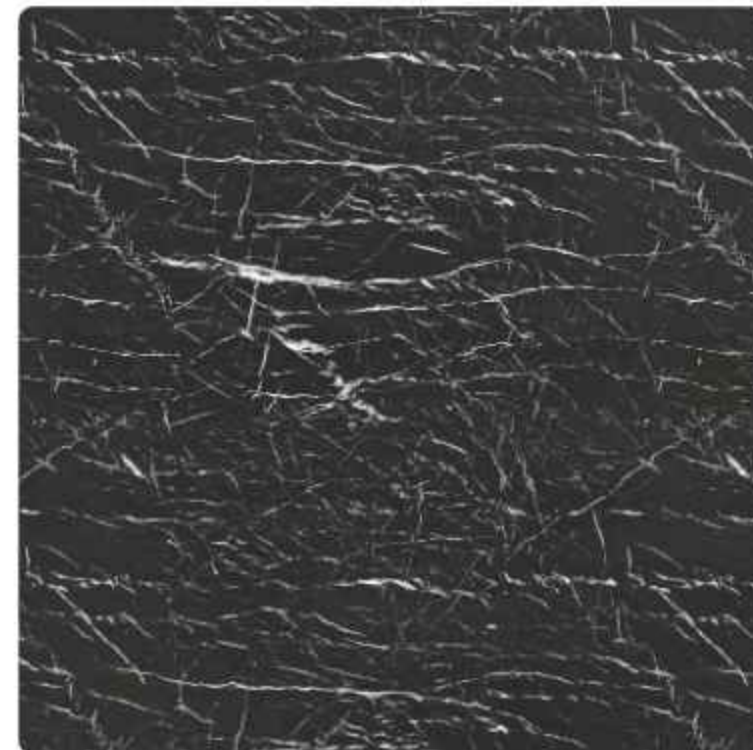
Travertine Crema

FB - 702 RM



Emperador Dark

FB - 705



Onyx Green

FB - 706



Forest Green

FB - 707



Italian Black

FB - 708



Italian Brown

FB - 709



Dove Grey

FB - 721 RM



Statuario

FB - 711



HPL Installation with Rivets on Aluminium Tubes with no Gap or 6MM / 8MM GAP

STEP 1

Before starting the installation, The wall must be plastered well and painted with black paint.

STEP 4

Drill Flexibond AHPL - Plank with 5mm drill bit at a distance of 25mm from both ends.

STEP 2

The aluminum substructure normally consists of a vertical support that is fixed on the wall by angle brackets. Mount aluminum tubes (thickness - 1.6 mm) on the wall with the help of aluminum angle brackets while maintaining a horizontal gap between two aluminum tubes to a maximum of 450 mm (18). I) 5x25mm (1 "x3") for horizontal joints between two plans. II) 25 x40mm (1 "x1.5") for all other planks.

STEP 5

with the help of a rivet gun, install the plank on the wall . Use rivet gun recommended by Flexibond for better results. Only use rivets supplied by Flexibond.

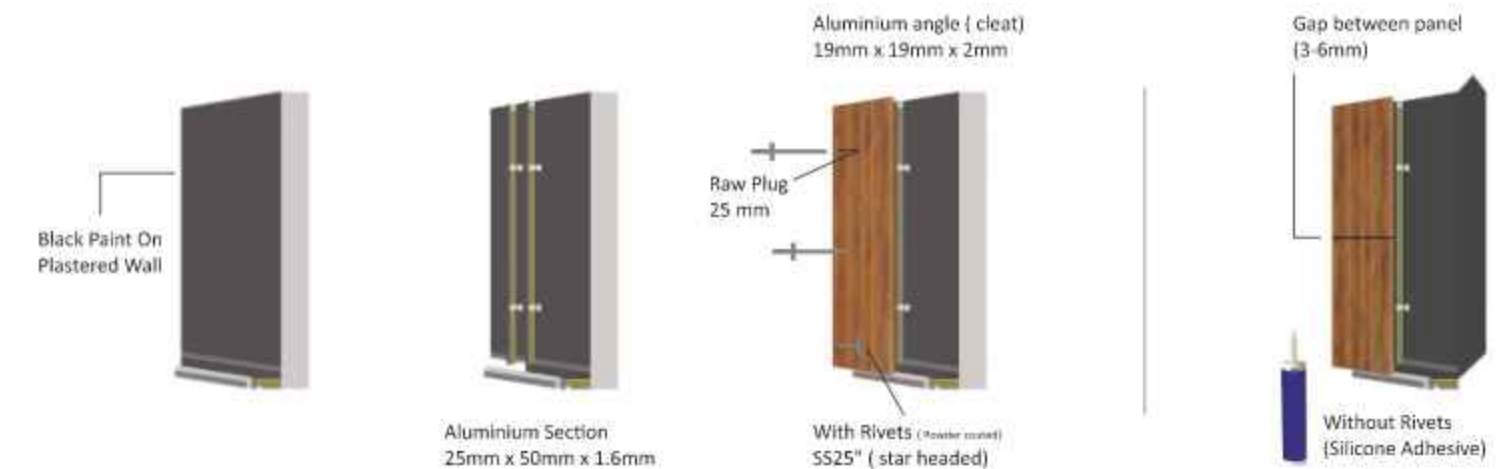
STEP 3

The AHPL must be used as per customer requirement. The installation process starts from the corner, left border or Centre as per the uniform property of the facade.

Dimensions

Standard Sheet Size	4'x8'	Thickness of sheet	Minimum distance of holes to edge	Minimum distance between the holes - width	Minimum distance between the holes - lenght
Thickness	6mm	6mm	10-20 mm	450mm	550mm
		Panels can be in CONVEX OR CONCAVE shapes			Panels can be bend on 90° angle

Fixing Method



Fixing Detail (With Rivets)	Fixing Detail (Without Rivets)
<ul style="list-style-type: none">Firstly, the plastered wall should be painted black.Thereafter, mount the aluminium sections on wall while maintaining a gap of 400 - 700mm centre to centre with help of cleat vertically.Pre - drill the pilot hole before fastening the rivets tightly.The thickness of panel and gauge of aluminium must be three times less compared to the size of rivets and also the rivets used must be fully threaded.	<ul style="list-style-type: none">First of all, the surface of the aluminum section & portion of the plank must be rubbed with sand paper, following this the adhesive should be applied.Avoid using silicon for gap filling.Have a 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.	



Washing & Cleaning Instructions

- Routine cleaning is recommended depending on different environmental conditions;
- To wash the contaminated areas in some parts just the use of tap water is not enough, It is necessary to use diluted household detergent (1-4% with water) and following the cleaning, the area should be wiped by a soft cloth. Try rinsing it using a soft cloth with light pressure to get rid of the stain. If the stain stays after drying, then utilize neutral detergents mixed with water.
- Flexibond advises not to clean the panels by cleaning agents, which are used for cleaning windows, glazed tiles and sanitary ware, for example, detergents with some alkali (hydroxide of potassium and sodium).
- Rinse the surface with water after cleaning.
- Flexibond recommends the cleaning: for rural areas-01 time/year, city area -01 times/year. For areas with insufficient rains and/or coastal area - 01 time/year industrial area - 02 times/year.

Delivery, Storage & Handling

- It is important to assure precise delivery & packaging of the panels, to prevent it from damage or deformation.
- We should do packing and handling of the panels in such a way that during transportation, the corners remain secure. The shifting among individual sheet should be next to none. Unload, collect and place the panels in such a manner that bending, warping, twisting, surface or corner damage is zero.
- Always ensure that the panels are placed in areas with dryness with a positive inclination for seepage of water.
- Do not store panels near other materials that may cause staining, scratching or other surface damage.

TECHNICAL SPECIFICATIONS

S.NO	ITEMS	FLEXIBOND AHPL
1	Thickness of Composite Panel (mm)	6mm
2	Skin Thickness (mm)	0.25mm
3	Weight (Kg/Sqm)	7.5Kg
4	Polyethylene type LDPE (g/ cm3)	0.92
5	Surface	————
6	lacquering	LUMIFLON / PVDF
7	Brilliance (Initial Value)	30-30% accord to Gardner
8	Hardness (Pencil hardness)	3H
9	Temperature Resistance	From- 50 to +80° C
10	UV Stability	Brillant
MECHANICAL PROPERTIES OF ACM		
11	Tensile Strength (ASTM E-8)	4.2 Kgm P²
12	Yield Strength (ASTM E-8)	4 Kgm P²
13	Elongation (ASTM E-8)	13%
14	Flexural Elasticity (ASTM C-393)	4030 Kg/mm²
15	Thermal Expansion (ASTM D-698)	1.1 mm/M/50° C
MECHANICAL PROPERTIES OF ALUMINIUM SKIN		
16	Aluminium Alloy Grade	H 18 -1100
17	Yield Strength (ASTM E-8)	14Kg / mm²
18	Modules Of Elasticity (ASTM C- 393)	7000Kg /mm²
19	Bond Integrity (ASTM C-297)	118 Kg/cm²
20	Deflection Temperature (ASTM D-648)	110° C
ACOUSTICAL PROPERTIES		
21	Sound Absorption Factor as	0.05
22	Ari Born sound insulation index RW (DB)	24
23	Loss Factor d	0.0057
24	Gloss at 60°	26

25	Elongation ASTM E-8	A50>»3%
26	Abrasion Resistance (ASTM-D-968-81)	The painted Film doesn't wear out through pouring 50 Ltr of sand on the surface of the coated panel
27	Hardness (Pencil hardness)	3H
28	film hardness (Pencil hardness)	2H
29	Rigidity E-J (KN cm 2/3)	865
30	Reverse Impact Crosshatch ASTM0 1737-62	2T.no Cracking
ADHESION		
31	Dry ASTM D-3359 Method 8	No Change
32	Wet 37.8°C, 24 Hrs	No Change
33	Boiling Water 1000C, 20mm	No Change
CHEMICAL RESISTANCE		
34	HCL (ASTM D1308 -79)	No Change
35	H2 SO4 (ASTM D1308-79)	No Change
36	Detergent (ASTM D2248-73)	No Change
37	Oil Resistance	No Change
38	Dirt Resistance	No Change
WEATHERABILITY		
39	Colour Retention (ASTM D-2244-89 Max 5 Unitts	4000 Hrs
40	Gloss Retention ASTM D-523-89 70%	4000 Hrs
41	Chalking ASTM D-4214-89 Max 8 Units	No Chalking was seen 4000Hrs
42	Salt Spray	No Change 3000Hrs
43	Humidity ASTM D-2247-87	No Blister, No Craking, 10 Cycles:24 Hrs X 100% RH, 37.8°C-2 HrsX 18°C 4HrsX24°C
44	Humidity (Thermal ASTM D-2244-65)	None to very few # 8 blisters 100%
45	Condensing Humidity 54.4°C ASTM 4585-87	Rhx 54.4°C; 2500Hrs



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