

TIMEX EXTERIOR COMPACT LAMINATESTM
HPL

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HPL



UNCOVER
T H E U N S E E N





TO UNVEIL

T H E U N P R E C E D E N T E D



TIMEX EXTERIOR™

Compact Laminates

Established in the year 1986, we are India's one of the most chosen exterior brands. We are into the manufacturing as well as the marketing of top of the line, world class exterior laminates. Timex specializes in creating a range of innovative products that are in line with the latest global trends and demands of the market. Timex's latest Exterior Compact laminates are a valid testimony to this fact.

Since the inception of Timex, our range of laminates have constantly & wholeheartedly been accepted by architects, designers and constructors alike across the country. The exterior grade films employed by Timex are double-layered, and are highly efficient against severe weather and harsh UV rays. The laminates have inherent properties, such as low surface tension, UV ray resistance and strong chemical resistance, etc.

ACRYLIC RESIN LAYER

DECORATIVE PAPER

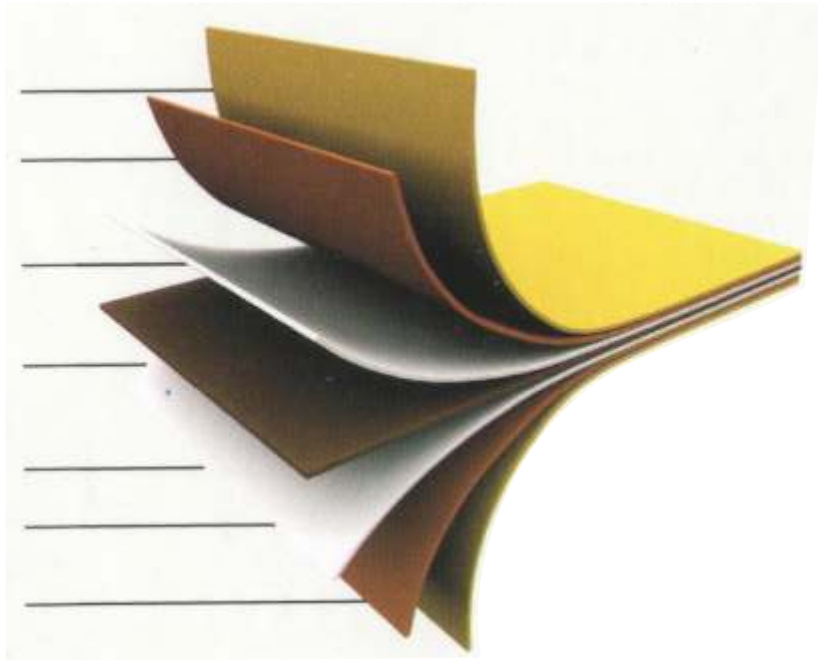
MELAMINE TREATED BARRIER PAPER

PHENOLIC TREATED CRAFT PAPER

MELAMINE TREATED BARRIER PAPER

DEORATIVE PAPER

ACRYLIC RESIN LAYER



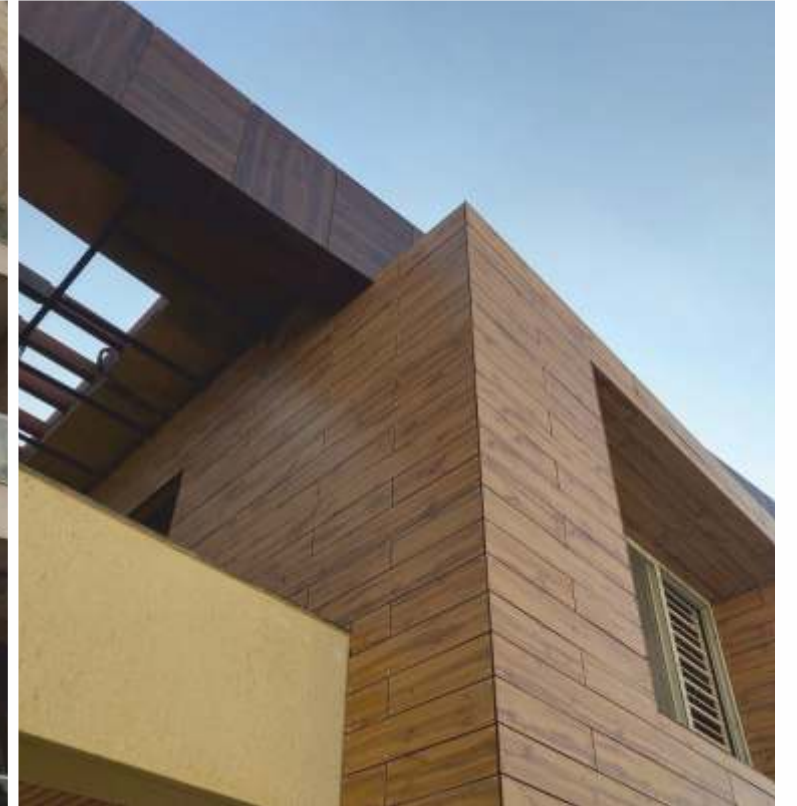
TIMEX EXTERIOR COMPACT LAMINATES

Timex Exterior Compact Laminates are a Solid Exterior Grade Compact High Pressure Laminate as per EN 438-6 Type EDS and EGS, manufactured using specially treated Acrylic Resin under high pressure and temperature, and hardened with Electron Beam Curing. Thus, providing Weather Resistance and UV Resistance.

APPLICATION



PROJECTS BY TIMEX
EXTERIOR COMPACT LAMINATES



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EXTERIOR COMPACT LAMINATES



PROPERTIES



Weather Resistance:

Timex Exterior Compact Laminates are highly weather resistant. There is no effect on the surface or the core of the Timex Exterior Compact Laminate material when exposed to extreme weather conditions, such as high temperature to low temperature and high humidity to low humidity.



UV Resistance:

A special UV protected treatment makes Timex Exterior Compact Laminates UV resistant, which does not allow the decorative surface to discolour when exposed to direct sunlight for extended periods.



Climatic Shock Resistance:

Timex Exterior Compact Laminates are resistant to sudden change in temperature and humidity of the atmosphere, and maintains its physical and mechanical properties for long period.



Corrosion Free:

Timex Exterior Compact Laminates are absolutely corrosion-free, unlike other external cladding products.



Graffiti Resistance:

Timex Exterior Compact Laminates are graffiti resistant. Any writing marks made on the surface can be easily removed with diluted solvents such as Acetone, Water Raz, Thinner.



Moisture Resistance:

Timex Exterior Compact Laminates are highly moisture resistant; hence, ideal for use in all types of exterior cladding on buildings such as Residential, Workplaces, Business Centers, Banks, Airport Terminals and Hospitals.



Mechanical Properties:

Timex Exterior Compact Laminates are impact resistant. The flexural strength and modulus of elasticity are very good because of the use of specially modified phenolic resin.



Termite Resistance:

Timex Exterior Compact Laminates are completely resistant to termites and fungal attacks.



Abrasion Resistance:

Timex Exterior Compact Laminates have superior abrasion and wear resistance; hence, the life of Timex Exterior Compact Laminates is far more longer than most of the other wall-cladding materials.

EASE OF USE



Install: Less time and effort is required for installation

Maintain : Can be cleaned using a damp cloth or sponge and a mild soap or detergent

Replace: Reproduction of same colour of Timex Exterior Compact Laminates is possible; so replacement with matching colour is possible

Renovate: Can be installed on existing wall surface

HIGHLY DECORATIVE



Multitude of designs - wood grains/patterns

Different panel sizes are available enabling project optimization

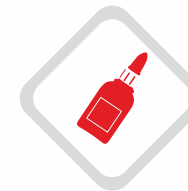
Different shapes can be offered (Even amoebic shapes are possible)

Designed for vertical and horizontal panel configurations

Clear, sharp edges give a neat and clean look to the exterior

Matching colour rivets are easily available in the market

INSTALLATION SCHEMATICS



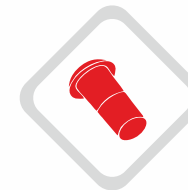
ADHESIVE



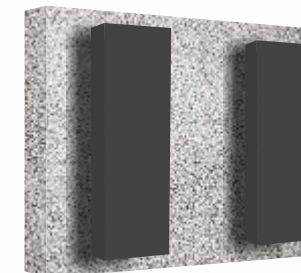
ADHESIVE
FIXING
TO COMPACT



FINISHED WALL



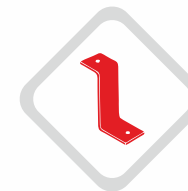
RIVETED



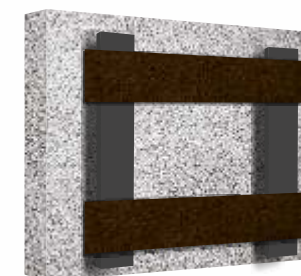
RIVETED FIXING
TO COMPACT



FINISHED WALL



Z-CLIP



Z CLIP FIXING
TO COMPACT



FINISHED WALL

WELCOME TO THE
TIMEX EXTERIOR EXPERIENCE

Turn over to have a dekko of the
TIMEX EXTERIOR COMPACT LAMINATES series.
A range representing superior workmanship,
finesse and exquisiteness.



Page No.	Products
1	TM-604 Baltic Pine TM-705 Walnut Blossom
2	TM-3484 Dutch Walnut (New) TM-9201 Vintage Palisander (New)
3	TM-319 Oak Leaf TM-320 Mochaccino Oak
4	TM-752 Burma Walnut TM-530 Canyon Walnut
5	TM-369 Exotic Walnut TM-370 Cairo Walnut
6	TM-626 Olive Oak TM-625 Champagne Oak
7	TM-605 Mombassa TM-712 Laurel Wood
8	TM-702 Parana Walnut TM-701 Smoked Walnut
9	TM-697 Plateau Apple TM-698 Palm Jumeira
10	TM-9560 Eucalyptus TM-9562 Angico
11	TM-9205 Citron illusion (New) TM-679 Honey Comb
12	TM-335 Oxford Grey (New) TM-336 Roasted Beans (New)
13	TM-307 Milford Oak TM-308 Riverbed Oak
14	TM-751 Opart Black & White TM-614 Black Thunder
15	TM-680 Dark Water

PRODUCT RANGE



TM-604 Baltic Pine



TM-3484 Dutch Walnut (New)



TM-705 Walnut Blossom



TM-9201 Vintage Palisander (New)

PRODUCT RANGE



TM-319 Oak Leaf



TM-752 Burma Walnut



TM-320 Mochaccino Oak



TM-530 Canyon Walnut

PRODUCT RANGE



TM-369 Exotic Walnut



TM-626 Olive Oak



TM-370 Cairo Walnut



TM-625 Champagne Oak

PRODUCT RANGE



TM-605 Mombassa



TM-712 Laurel Wood



TM-702 Parana Walnut



TM-701 Smoked Walnut

PRODUCT RANGE



TM-697 Plateau Apple



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TM-9560 Eucalyptus



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PRODUCT RANGE



TM-9205 Citron illusion (New)



TM-679 Honey Comb



TM-335 Oxford Grey (New)



TM-336 Roasted Beans (New)

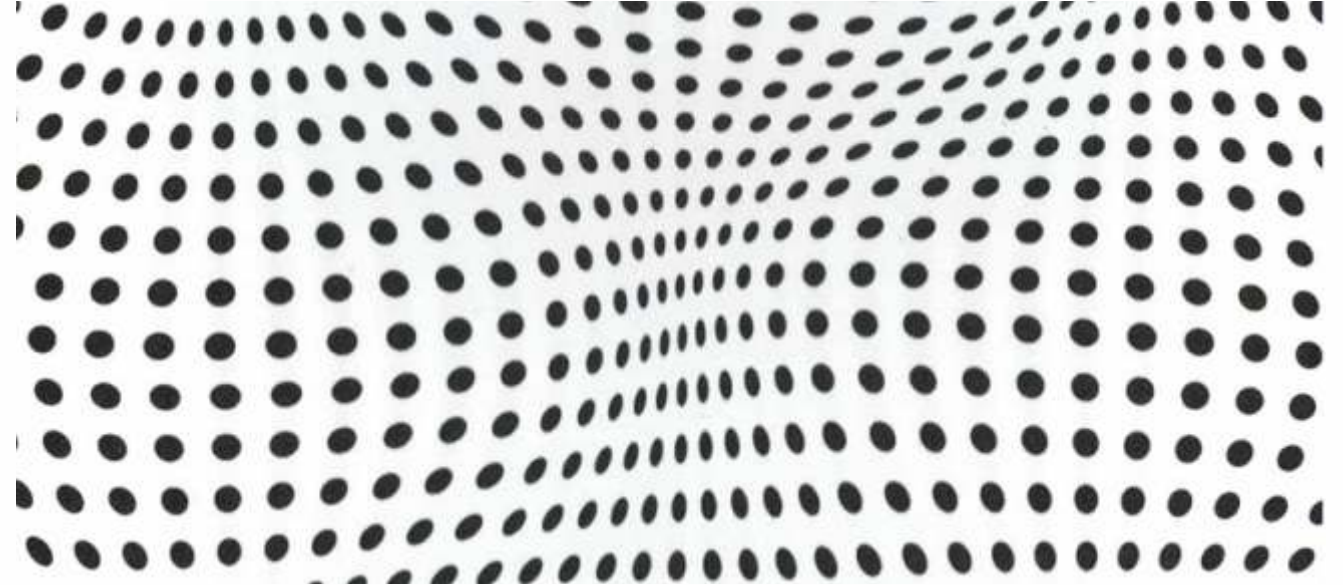
PRODUCT RANGE



TM-307 Milford Oak



TM-308 Riverbed Oak



TM-751 Op-art Black & White



TM-614 Black Thunder

PRODUCT RANGE



TM-680 Dark Water

New Arrival

New Arrival

New Arrival

New Arrival

New Arrival

New Arrival

New Arrival



100 White Satin



212 Dove Grey



171 Misty Grey



111 Natural White



222 Espresso



234 Sandalwood



101 Bluish White



177 Silver Grey



172 Stealth



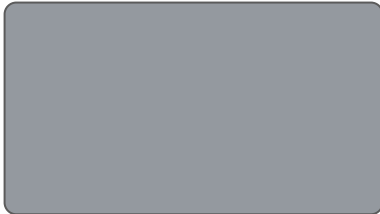
103 Mysore Ivory



253 Naturally Calm



137 Mother Earth



165 Bluish Grey



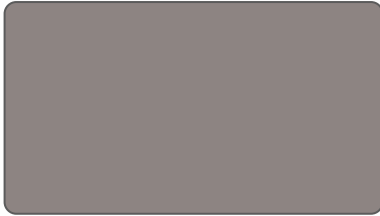
230 Gothic Grey



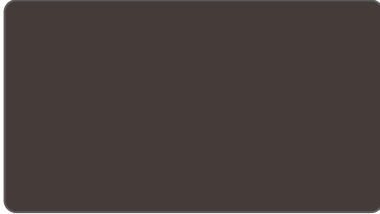
108 Black



126 Margarita



135 Roman Clay



124 Choco Chip



300 Jade Green



121 Canary



299 Salmon Orange



115 Scarlet



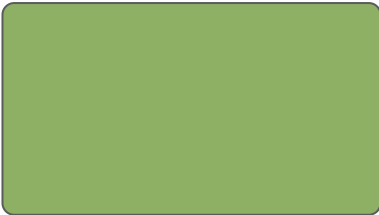
132 Salsa



163 Sapphire



223 Meadow



192 Green Apple



130 Florida Pink



180 Coral



272 Very Berry



122 French Blue



186 Olive



2170 Orange



152 Bubble Gum



161 Electric Pink



216 Rhine Blue



200 Indigo

MATERIAL HANDLING NORMS

Storage and handling:

Timex Exterior Compact Laminate panel is a heavy material. During transport, use pallets to support the complete sheet area. Pallets should be strong and stable enough to support their load without bending or buckling.

The surface of each board must be free from debris, grit or foreign bodies which can damage he decorative surface. When loading and unloading, do not push or drag panels over one another; lift cleanly by hand or suction device. Make stacked panels secure against slipping.

Also, Timex Exterior Compact Laminates undergo a certain amount of dimensional movement when subjected to humidity, hence to minimise the risk of bowling, take care of the following:

Always cut the panels with the long edge parallel to the length of the panel. Dimensional movement across the width of the panel is twice as great as it is along the length, so cutting panels with the long dimension running across the width of the panel greatly increases the risk of the bowing.

As far as possible, the ambient conditions should be the same on each side of the panel, as it is important that both sides gain or lose moisture at roughly the same rate. Where panels are mounted on a wall, provide adequate ventilation to ensure that temperature and humidity conditions at the back of the panels are essentially the same as those in the front.

Make fixing centres sufficiently close to prevent movement:

Store Timex Exterior Compact Laminates enclosed in a warehouse where normal interior conditions (18 - 25 and 50 % - 60 % relative humidity) are maintained. Timex Exterior Compact Laminates will remain flat if stored horizontally in packs on a flat base board. The base board must be dry, and should ideally be covered with a material impervious to water, to act as a moisture barrier. Cover the top sheet of each stack with a moisture barrier / cover board, with sufficient weight o remain flat in contact with the whole surface area of the Timex Exterior Compact Laminate panel. Maintain procedure throughout the storage (whether in a warehouse or on the fabrication shop floor) and reinstate it whenever a sheet is removed from the stack. Failing to store Timex Exterior Compact Laminate panels flat for any length of time causes deformation which is almost impossible to rectify, particularly with thicker boards. If protective films are provided, these should be removed from both sides of the board simultaneously.

Profile cutting and edge finishing :

It is not necessary to apply edging strips or edge sealants to Timex Exterior Compact Laminate panels. For many applications, clean saw edges are sufficient. To achieve a superior finish or a profiled edge, use a spindle moulder or router. For this type of work PCD tooling is recommended. It is not possible completely to avoid cutter marks, but they can be minimised by feeding the work at a constant controlled speed with a mechanical power feed. Take care to avoid pausing during cutting and profiling, which may result in burn marks that are difficult to remove. To obtain clean edges free of cutter marks, carry out a further sanding and scraping operation. Buffing with steel wool and applying silicone free oil enhance edges. Chamfering or profiling the edges of Timex Exterior Compact Laminate panels reduce the risk of edge impact damage.

Drilling:

The most suitable drills for use on Timex Exterior Compact Laminate panels are those designed for plastic sheets. These drills have a point angle of 60° - 80° instead of the normal 120° for drilling metal.To avoid break-out on the reverse side, gradually reduce the feed speed of the drilling head and the pressure applied when approaching the point of breakthrough. Working on a firm underlay, reduces the risk of break-out. For blind boring into the face, the depth of the hole should be such that at least 1.5 mm of material remains between the bottom of the hole and the other side of the sheet. TCT lip and spur drills produce clean flat-bottomed blind holes, with low risk of point penetration on the reverse side. This allows maximum depth of material to be used for fixings. When drilling parallel to the surface (edge drilling) at least 3 mm of material must be on either side of the hole. Threaded holes can be produced using engineer's screw cutting taps. Self-tapping screws or threaded brass inserts may also be used.

Sawing:

Saw blades used for cutting double-sided composites are generally suitable for cutting Timex Exterior Compact Laminate panels. Saw of less than 2mm thickness are not recommended.Break-out on the underside of Timex Exterior Compact Laminate panels can be reduced by various methods:
Using a pre-scoring blade on the undersideUsing a base-board of plywood or hardboard beneath the sheetAlter the exit angle of th saw blade by adjusting the height settingWhen sawing a Timex Exterior Compact Laminate panel with two decorative faces, the feed speed essentially governs the quality of the saw cut. A speed of 0.03 mm - 0.05mm per saw tooth has been found to be the most successful.

Maintenance:

As HPL do not suffer from corrosion and oxidation, no further surface protection and no maintenance apart from cleaning is required. Timex Exterior Compact Laminates may be cleaned with damp cloth or ordinary soap.

Limited Warranty:

Timex guarantees that Timex Exterior Compact Laminate panels will continue to possess the properties as per requirement of EN-438 -part-6 for a period indicated below from the date of delivery of the product to the buyer.
Timex Exterior Compact Laminate - 10 Years

- Slight homogeneous variation in colour may take place in course of time
- Guarantee will be valid when installation will be done according to Timex Installation Guidelines only.
- This will exclude if any damage has been done by mishandling as a result of improper maintenance of the product

TEST DATA

Technical Data Sheet - Timex Exterior Grade Compact Laminates

Sr. No.	Properties	EDF Grade Specification As per EN 438-part 6	Timex EDF Non Halogenated
1	Thickness (5.00 ≤ t < 10.00 mm) (t = nominal thickness)	6.00 ± 0.40 mm (max.)	6.10 mm
2	Size	2440 x 1220, +10 mm,-0 mm.	2443 × 1223 mm
3	Straightness of edges	1.50 mm/m. (max.)	1.00 mm/m.
4	Squareness of edges	1.50 mm/m. (max.)	1.00 mm/m.
5	Flatness		
	2.00 ≤ t < 6.00 mm	8.00 mm/m. (max.)	5.00 mm
	6.00 ≤ t < 10.00 mm	5.00 mm/m. (max.)	3.00 mm
	t ≥ 10.00 mm	3.00 mm/m. (max.)	2.00 mm
6	Resistance to impact by large diameter ball		
	a) Drop height		
	2.00 ≤ t < 5.00 mm	1400 mm (min.)	1500 mm
	t ≥ 5.00 mm	1800 mm (min.)	2000 mm
	b) Indentation dia.	10 mm (max.)	6.00 mm
7	Flexural Modulus	900 Mpa. (min.)	14136 Mpa.
8	Flexural Strength	80 Mpa. (min.)	110 Mpa.
9	Tensile Strength	60 Mpa. (min.)	65Mpa.
10	Resistance to wet conditions		
	a) Mass increase		
	2.00 ≤ t < 5.00 mm	10 % (max.)	4.5 %
	t ≥ 5.00 mm	8 % (max.)	3.5 %
	b) Appearance	Rating 4	Rating 5
11	Dimensional stability at elevated temperature		
	a) Longitudinal	0.40 % (max.)	0.30 %
	b) Transverse	0.60 % (max.)	0.45 %

TEST DATA

Technical Data Sheet - Timex Exterior Grade Compact Laminates

Sr. No.	Properties	EDF Grade Specification As per EN 438-part 6	Timex EDF Non Halogenated
	t ≥ 5.00 mm		
	a) Longitudinal	0.30 % (max.)	0.20 %
	b) Transverse	0.60 % (max.)	0.40 %
12	Resistance to climatic shock		
	a) Appearance	Rating 4 (min.)	Rating 4
	b) Flexural Strength index D	0.95 (min.)	1.10
	c) Flexural Modulus index Dm	0.95 (min.)	1.55
13	Resistance to artificial weathering (Including Light fastness)	After 650 MJ/m² radiant exposure (3000 hrs.)	3000 hrs. passes
	a) Contrasts		
	Gray scale rating	Rating 3 (Not worse than)	Rating 4
	b) Appearance	Rating 4 (min.)	Rating 4
14	Resistance to UV light	After 1500 hrs. exposure	1500 hrs. passes
	a) Gray scale rating	Rating 3 (Not worse than)	Rating 4
	b) Appearance	Rating 4 (min.)	Rating 4
15	Spread of flame	Class 1	Class 1
16	Density	1.35 gm/cm³ (min.)	1.47 gm/cm³

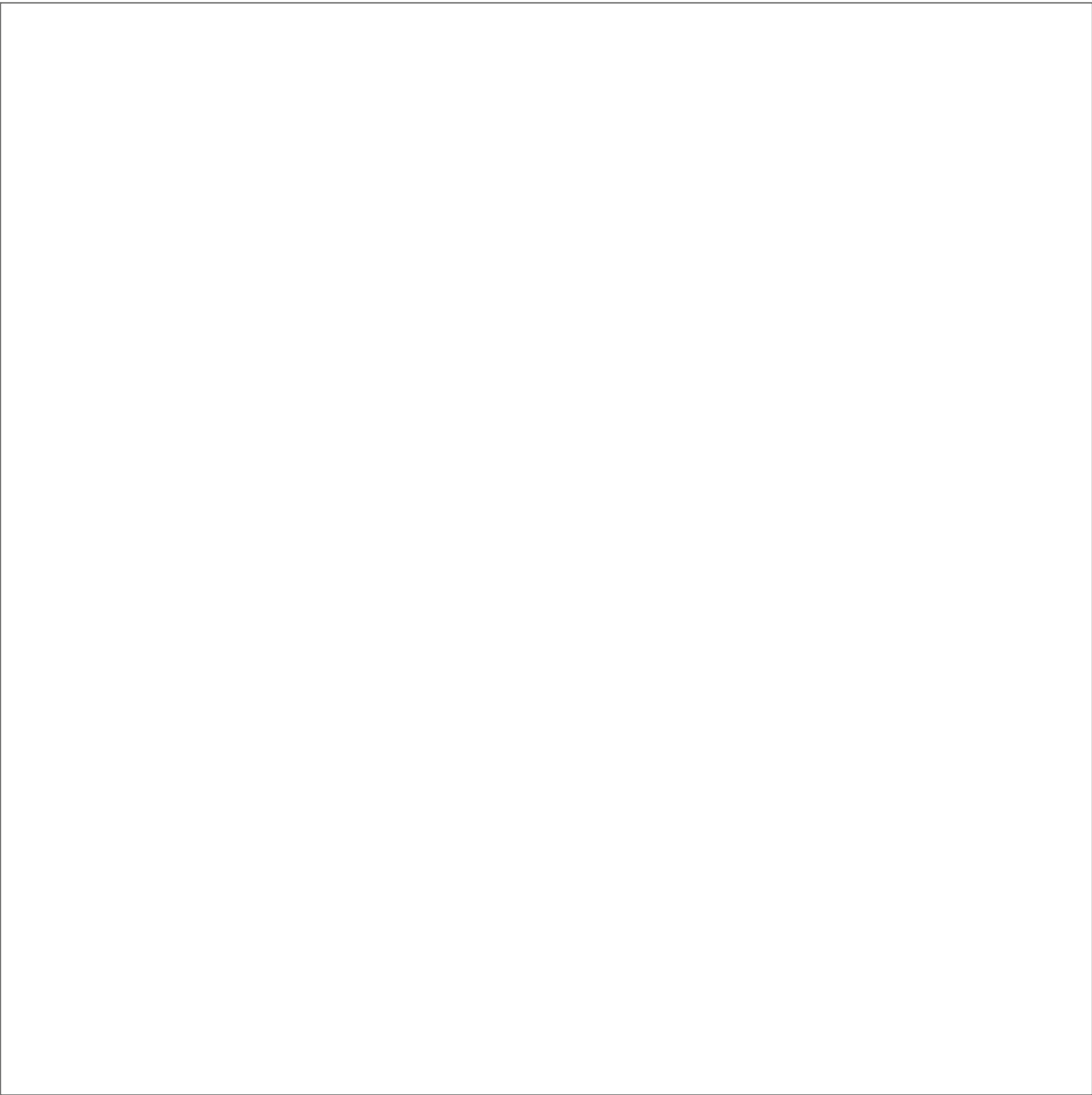
EDF stands for: E = Exterior grade, D = Sever use (Long-term outdoor weather and sunlight exposure), F = Flame retardant



CLADDING COMPARISONS

LARGE PANEL SIZES (8' X 4')	✓	✗	✗	✗	✗
AMOEBIC SHAPE	✓	✗	✗	✗	✗
QUICK & EASY INSTALLATION	✓	✓	✓	✗	✗
BATCH COLOUR UNIFORMITY	✓	✗	✗	✗	✗
SELF-SUPPORTING	✓	✓	✓	✗	✗
COST-EFFECTIVENESS	✓	✗	✗	✗	✗
COLOUR FASTNESS	✓	✗	✗	✗	✗
WEATHER RESISTANCE	✓	✗	✗	✓	✓
EASY TO MAINTAIN/REPAIR	✓	✗	✓	✗	✓

ACTUAL HPL SAMPLE





TIMEX BOND INDUSTRIES PVT. LTD.

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