

PREMIUM PROMISE



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# PROKLAD

*Vibrant Facade.....*

## **DECORATIVE COMPACT PANELS**

HIGH PRESSURE LAMINATE, is the direct descendent of original plastic laminate. It is considered to be one of the most durable decorative surface materials & is available with special performance properties including Chemical , Fire & wear resistance. Due to its durability , HPL are common choice for horizontal & vertical surfaces and can stand up to rigorous demands for high traffic settings such as Hospitals , Shopping Malls etc.

## **MANUFACTURING**

HPL, consists of more than 60-70 % paper with the remaining 30-40% a combination of Phenol-Formaldehyde for the core layer & Melamine-Formaldehyde resin for the surface layer.Both the resins belong to a class of thermosetting resins which crosslink during the press cycle creating irreversible chemical bonds that produce on non-reactive, stable material with characteristics different & superior to those of component parts.

HPL is produced by saturating multiple layers of Kraft paper & Decor Paper impregnated with resins.The resulting sandwich is then placed into a press which simultaneously applies Heat (120°C) & Pressure (5MPa) for a period of 40-50 minutes which allows resins to flow into Kraft Paper & subsequently cure into a consolidated sheet. Thermosetting creates strong , irreversible bonds that contributes to its durability.

## **CHARACTERISTICS**

1. Most effective of conservation of energy through Ventilated Facade System.
2. Resistant to UV Rays.
3. Resistance to atmospheric condition.
4. Fire resistance.
5. Physical resistance to strikes & abrasion.
6. Chemical resistance to such effects as acid rain , air pollution etc.
7. Aesthetic range of colours.
8. Easy to install , care & Repair.
9. Do not contain any harmful substances.
10. Resistance to staining.
11. Light weight faced system.

PROKLAD is all about the proactiveness towards making of a facade vibrant. The team consist of skilled & energetic professionals with a mission to bring fresh look of landmark facades. Brand, created by team-Pro is to extend extream assistance to make your project a well balanced one of aesthetically elegant. Each team member is well equipped with knowledge of HPL for exterior as well as interior design.

Proklad is produced from a "State of the art" technology. Technical advancement of our manufacturing process will come up with more electrifying diversity in HPL. Continuous process of technical research & development is under way from well qualified personnel.

Promissing HPL for facade cladding is commitment from the team PROKLAD.



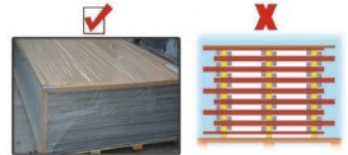
## APPLICATION OF HPL

- |                              |   |
|------------------------------|---|
| 1. ELEVATION FACADE CLADDING | 11. GATE                                |
| 2. BALCONY CASING            | 12. ATTIC APPLICATION                   |
| 3. FENCING                   | 13. SPORT FACILITIES                    |
| 4. PARTITIONS                | 14. OPEN AIR SWIMMING POOL              |
| 5. RAILINGS                  | 15. CEILING                             |
| 6. LOUVERS                   | 16. BATHROOM- WET CLADDING              |
| 7. PEDESTRIAN SHELTERS       | 17. METRO & SKY TRAIN STATION           |
| 8. ROOFING                   | 18. FLOORING                            |
| 9. SOFFITS                   | 19. WALL PANELING / LIFT LOBBY CLADDING |
| 10. PREFAB HUTS              | 20. BUSINESS ENTRY PORTALS.             |



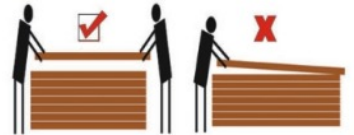
## STORAGE SYSTEMS:

1. Use Pallets.
2. Store in dry space.
3. Use cover to avoid excess humidity and heat.
4. Store flat to avoid bending or bowing of sheet.



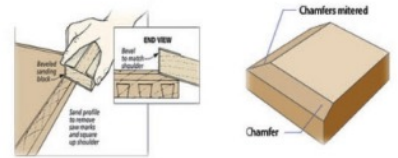
## HANDLING

1. Lift each sheet separately.
2. Compressed air machine can be used.



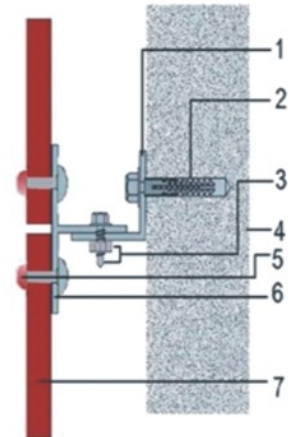
## EDGE FINISHING

1. Edge of Compact Panel can be machined for special requirement.
2. Square cutting, Chamfering & Bevelling are advisable.



## INSTALLATION DETAILS

1. Aluminium V Section, 50 X 70 X 1.6 mm
2. Heavy Duty Screw
3. Normal Screw & Nut
4. Plastered Wall
5. Coloured Rivet
6. Aluminium "T" Section, 70 X 50 X 1.6 mm
7. High Pressure Laminate.





## SPECIFICATION

### MECHANICAL PROPERTIES :

SIZE :	1220 x 2440 mm
THICKNESS :	4mm , 6 mm
DENSITY :	1.38 g/cm <sup>2</sup>
FLEXURAL STRENGTH (STRESS) :	≥95 Mpa
TENSILE STRENGTH :	≥72 Mpa

### PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD AS PER DIN	UNIT OF MEASUREMENT	SPECIFIED VALUE AS PER	RESULTS
			IS:2046,1995 EGS/EDS/EGF/EDF	
FLATNESS OF PANEL	EN438-2:9	MM/M	FOR 2.0<+<6.0MM MAX 8.0MM/M FOR 6.0<+<10.0MM MAX 8.0MM/M	3.5
LENGTH & WIDTH OF PANEL	EN438-2:6	MM	+10MM/0	+ 6
THICKNESS	EN438-2:5	MM	5.0<+<8.0MM:MAX+0.4	± 0.28
RESISTANCE OF SURFACE WEAR	EN 438-2:10	REVOLUTIONS(MIN )	360(MIN)	375
RESISTANCE OF IMMERSION OF BOILING WATER (2HRS)				
a) MASS INCREASE	EN 438-2:12	%	2.0(MAX)	0.45
b) THICKNESS		%	2.0(MAX)	0.58
c) APPEARANCE		RATING (MIN)	NOT WORSE THAN 4	>4
RESISTANCE OF SCRATCHING	EN 438-2:25	N(FORCE)	2.0(Min)	2.2
RESISTANCE OF CIGRETTE BURNS	EN 438-2:30	RATING (MIN)	NOT WORSE THAN 3	3
RESISTANCE OF WATER VAPOUR	EN 438-2:14	RATING (MIN)	NOT WORSE THAN 4	4



## CLADDED WALL



H  
P  
L

