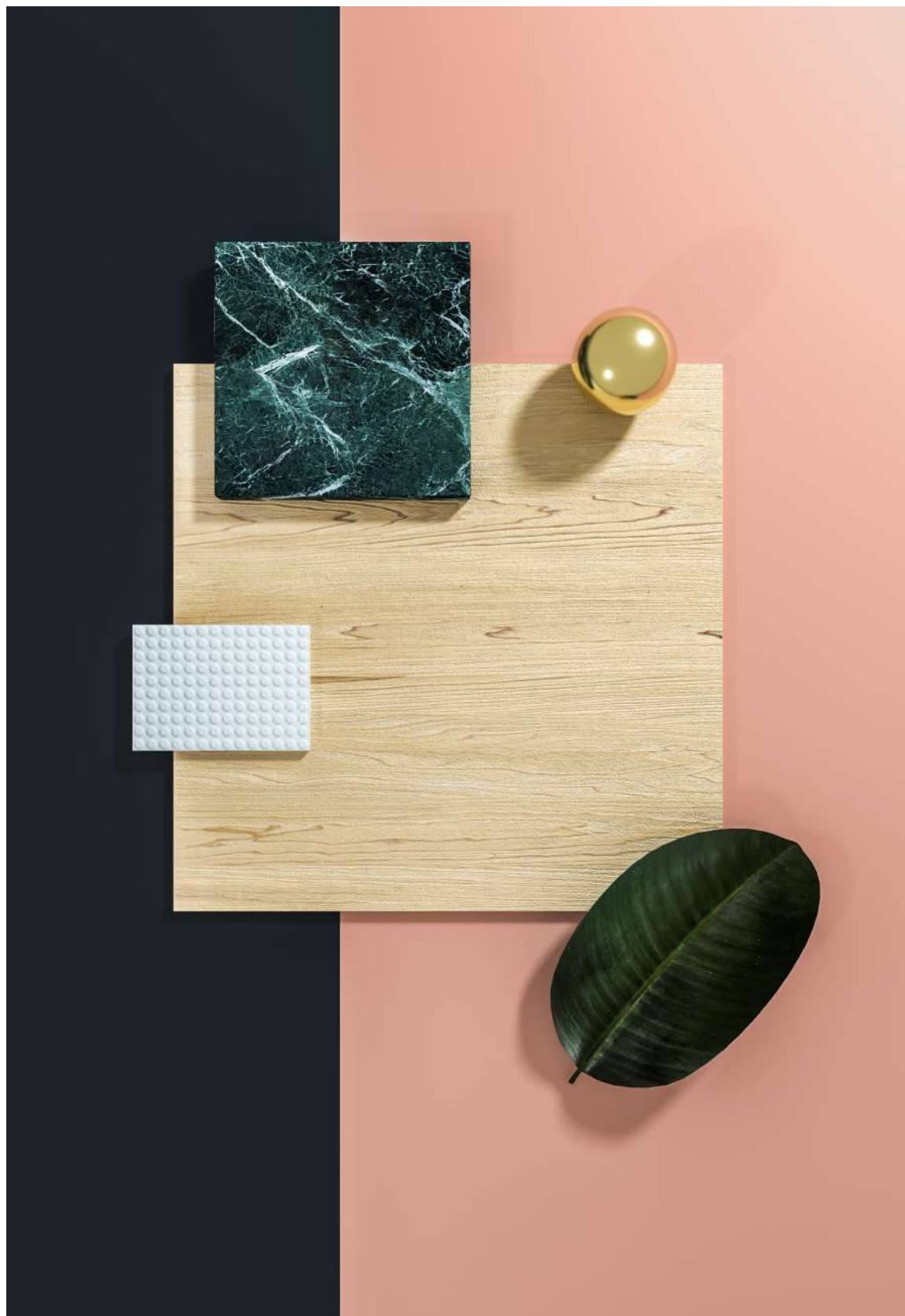


# High Pressure Laminates

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# High Pressure Laminates



**Panel Plus HPL** was invented to meet the needs of interior decoration with a variety of designs and patterns. Panel Plus laminate has a high strength, scratches resistant, moisture resistant as well as heat resistant.

**Standard size :** 4 x 8 ft.  
**Thickness:** 0.8 mm.

## FEATURES



Impact Resistant



Scratch Resistant



Heat Resistant



Easy to maintain

## Components of High Pressure Laminate



### Overlay Layer

Protective film to protect the color and pattern from fading and scratch resistant.

### Decorative Paper

High quality printed paper with fine and realistic pattern impregnated with Melamine Resin.

### Underlay (Only Solid Colors)

Use only the decorative Paper is solid color to protect the color distortion.

### Substrate Layer

Kraft paper covered with multiple layers of Phenolic resin to achieve the optimum thickness.

## APPLICATION

Table tops, cabinets, shelves, doors



## Product Specification Based on European Standard BS EN438

PROPERTIES	UNIT	PANEL PLUS	BS EN438
Thickness	mm	0.8	0.7
Tolerance	mm	±0.1	±0.1
Resistance to surface wear	Min	600-700	350
Resistance to scratching	N.Min	2	2
Resistance to impact : Ball impact test	Min. Inch.	20	20
Resistance to Dry Heat at (180 C)			
a) Appearance: Gloss Finish	Min	5	3
b) Appearance: Others Finishes	Min	5	4
Resistance to Immersion in Boiling Water	Min		
a) Mass increase	% Max.	5	10
b) Thickness increase	% Max.	5	12
c) Appearance	Min	5	4
Resistance to cigarette burns	Min	4	3
Resistance to cracking	Min	5	4
Resistance to steam	Min	5	4
Resistance to staining			
Chemical Test a) Group 1&2	Min	5	5
Chemical Test a) Group 3&4	Min	4	4
Dimensional stability at elevated temperature	Max. (Cumulative)	0.19%	(L)% 0.55%
	Max. (Dimensional change)	0.42%	(T)% 1.05%
<b>Properties</b>	<b>Unit</b>	<b>M30609 Anti-bacteria</b>	<b>Specified Value JIS Z 2801:2010</b>
<b>Antibacterial activity and efficacy</b>	<b>% Reduction</b>	<b>&gt;99.99 (High Anti-Bacteria)</b>	<b>&gt;99.99 (High Anti-Bacteria)</b>