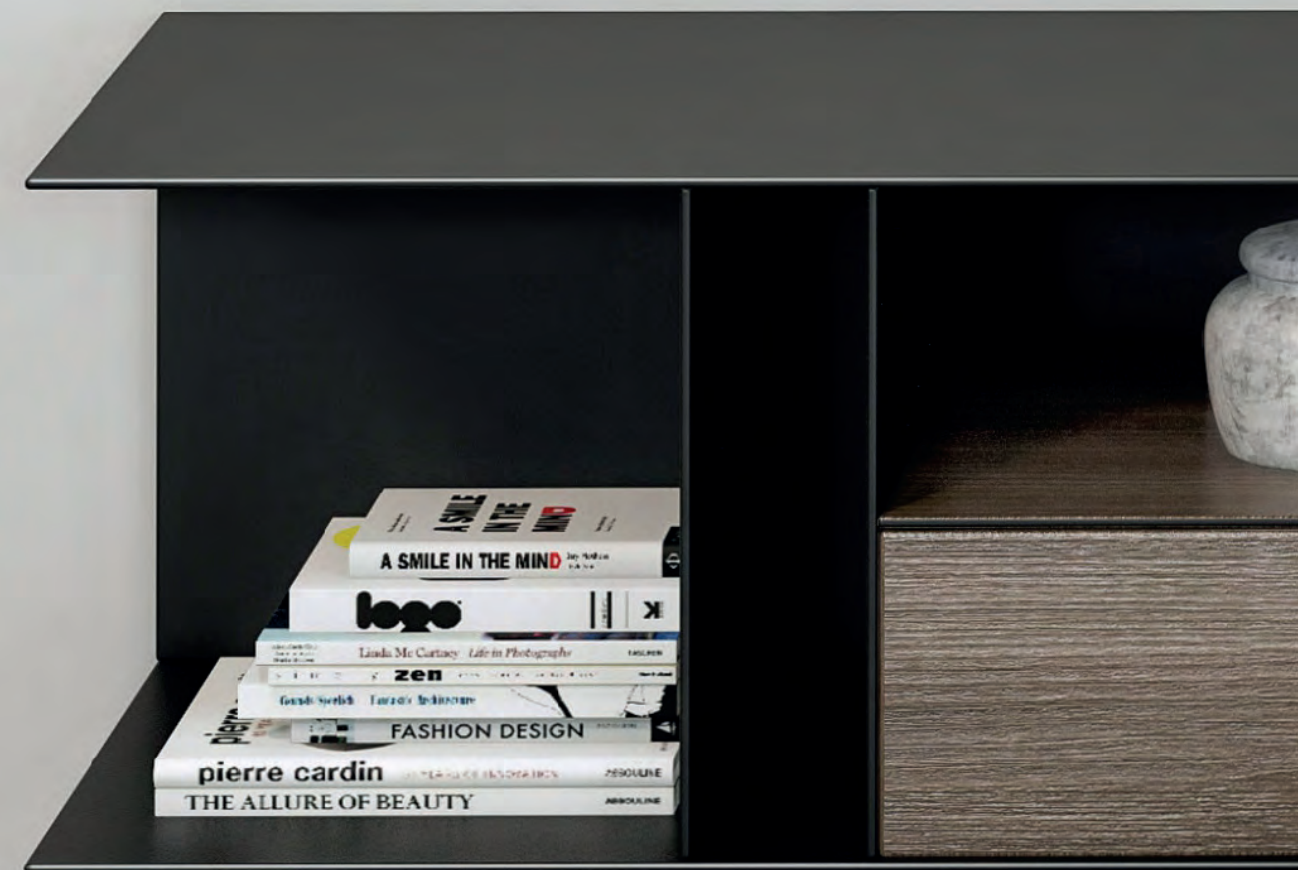


# Compact Laminate

**HPS**

A versatile solid laminate  
for horizontal and vertical application



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The background of the entire page is a photograph of an office environment. In the foreground, a grey, speckled laminate desk surface is visible, extending from the left towards the center. To the left of the desk, a portion of a black office chair with a white frame is visible. The floor is made of large, light-colored tiles with a subtle pattern. The lighting is soft and even, highlighting the textures of the desk and floor.

# DURABILITY MEETS DESIGN

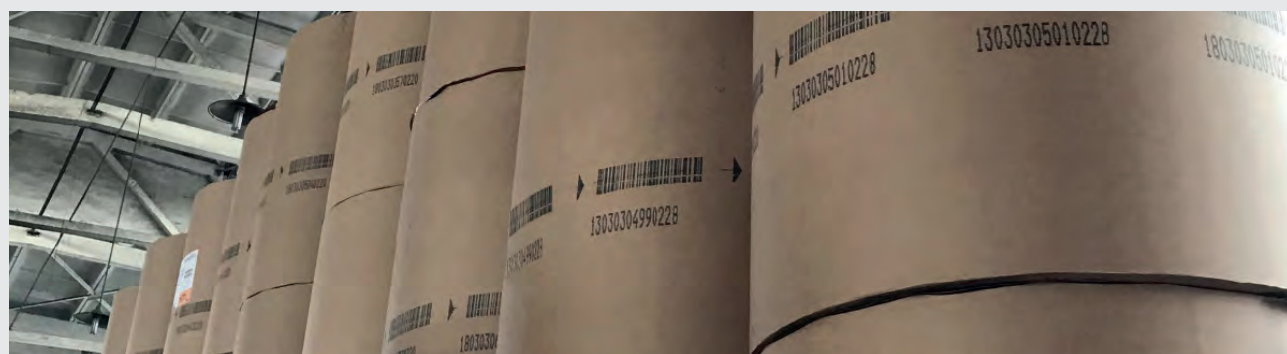
## INNOVATIVE HPS

COMPACT LAMINATE





# HPS Compact Laminate



HPS Compact Laminate is a solid, robust (density  $\geq 1350 \text{ kg/m}^3$ ) and double-sided color decorative building material manufactured under European norms EN438. It consists of multiple layers of phenolic resin impregnated kraft papers and melamine resin impregnated décor papers, which are set together and pressed under high heat and high temperature. HPS Compact Laminate is durable, self-supporting and moisture-resistant, which can be ideally used in areas subject to intensive use. HPS Compact Laminate are designed for **INTERIOR**, **EXTERIOR** and **LABORATORY** applications. The interior collection includes **MULTI-FUNCTIONAL COMPACT GRADE**, **FIRE-RATED COMPACT GRADE**, and luxury **CLEANTOP** with special feature of **ANTI-FINGERPRINT**. **LABENCH** worktop and **EXTERIOR** facade are exclusive employment of HPS Compact Laminate **Professional**.



# Feature

Impact-proof

Rub resistant

Resistant to dry heat

Moisture-proof

Mold resistant

Stain resistant

Scratch-proof

Self-supporting



Fire-resistant

Machining friendly

Easy to clean

Hygienic

Antistatic

Various surface

Excellent intensity and  
color depth

Longtime stability

## HPS Labench

Specifically Intended for laboratory benchtop, HPS Labench is highly chemical-resistant and anti-bacterial capability with an advanced EBC film over the decor surface paper. It's typically used in schools, hospitals and other research institutes, where high hygiene and avoidance of contamination is required.



# Complementary HPS Products

HPS provides innovative, robust, application featured and functional decorative boards for interior, decoration, furniture creation, exterior and laboratory benchtop.



## HPS Exterior

Premium HPS Exterior is developed specially for outdoor environment to create high-end and unique architectural design. Its remarkable performance and weather-resistance allows it to be ideally used in modern building facade cladding and exterior furniture application.



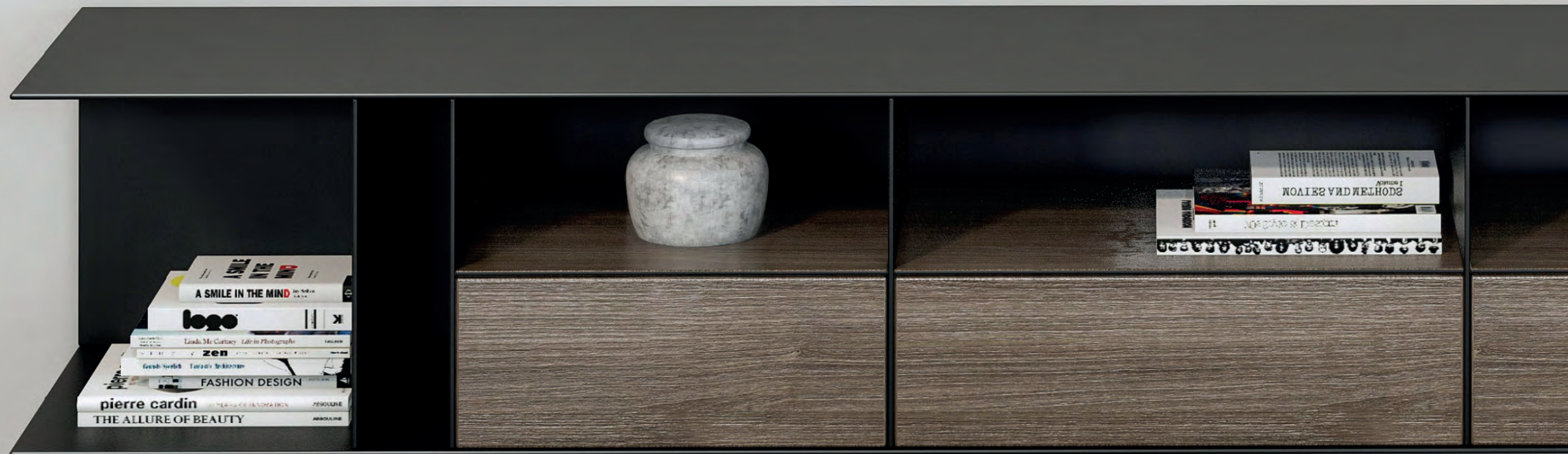
## HPS Cleantop

Upgraded Anti-fingerprint HPS Cleantop is featured with „clean touch“ and thermally microscratches heal. The low light reflective Super MATT surface conveys a pleasant contact to people. A variety of size, thickness, surface finish options are available to meet different application needs and decorative effects.



# Application

High performance HPS Compact Laminate is exceptionally durable and aesthetically appealing. It is ideally used in horizontal and vertical building structure such as tables, worktops, wall paneling, toilet partitions and locker rooms. The superior combination of unique design and long-term robustness make HPS Compact Laminate a perfect option for versatile product solutions in construction projects.







# Restroom Solution

HPS offers you multiple Toilet partition solutions focusing on durability and aesthetics without sacrificing its practicability.

The excellent performance of HPS Toilet partition system results from solid HPS Compact Laminate, which is very suitable for high-traffic areas where moisture resistance, hygiene and low swelling are required.

Combined with modern hardware of various types, HPS devotes to create a unique individual space for public.







# HPL Locker

HPS HPL Locker system presents remarkable performance in resistance to wear, steam, impact, scratches and is totally hygienic.

HPS HPL Locker system is mainly composed of cubicle and locking system. Apart from the multipurpose solid HPS Compact Laminate for cubicle, we also give full consideration to the fittings and locks.

HPS HPL Locker system provides various designs, flexible combination to provide security and peace of mind for user's lives.







# Wall Paneling

HPS Wall Cladding Indoor System is made up of HPS Compact Laminate and dedicated metal frame structure. The wall cladding system can store and hide all kinds of facilities for easy maintenance.







# Table Top

Whether used Indoor or Outdoor, HPS solid Tabletop has become the choice of the new era.

Thanks to its solid core and excellent surface performance, it satisfies not only functionality but also design requirements. The original HPS Compact Laminate can be cut, rounded, milled, drilled by CNC machine with diamond tooling for any shapes required.





# From concept to reality, Endless Applications.

HPS Compact Laminate is great for many creative design solutions thanks to its high performance and excellent machinability.

Discover more and define your style with us. Using HPS Compact Laminate to create durable designs and furniture items!



Individual



Sport



Healthcare



Leisure



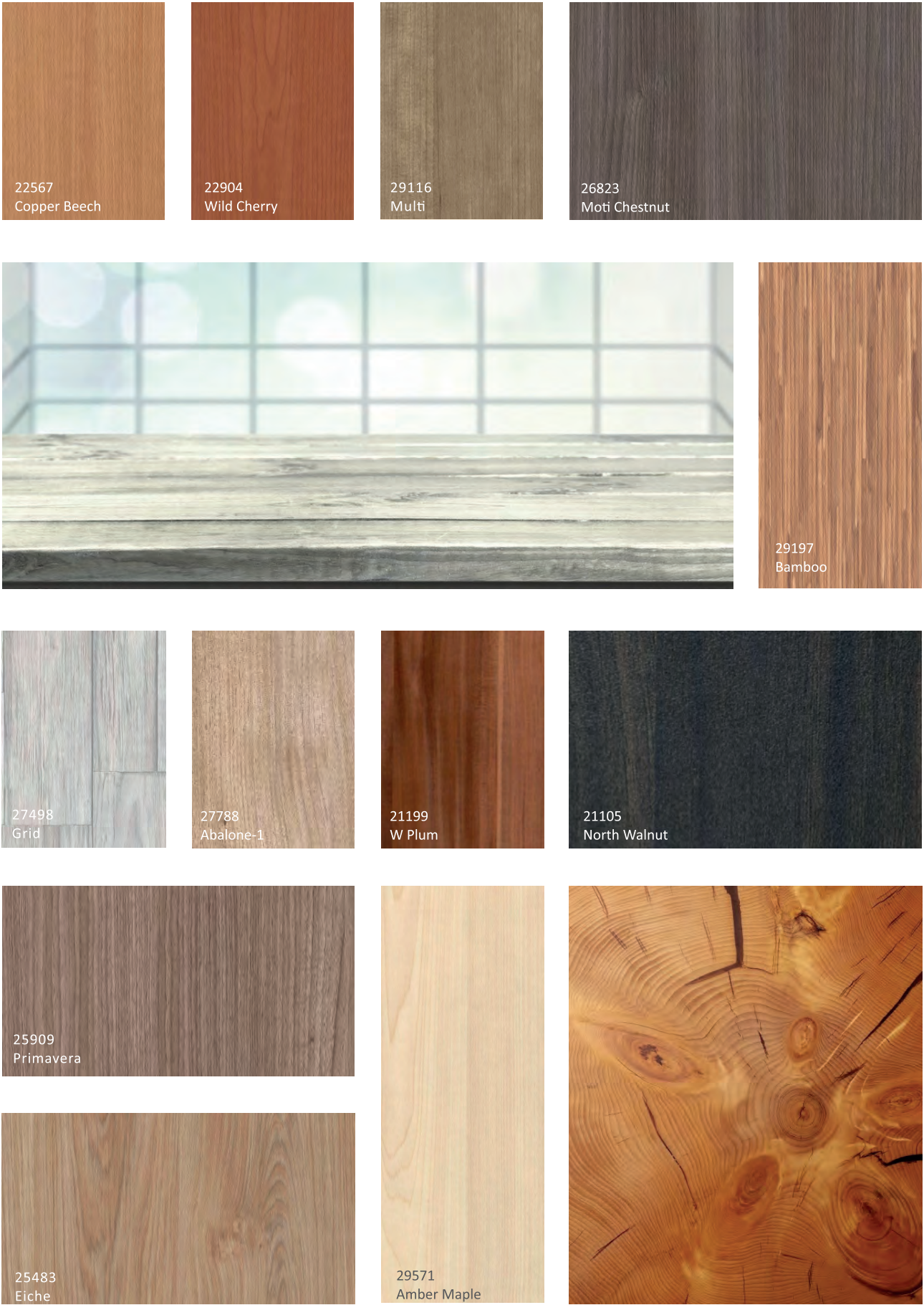
Residence



# Color Plain



# Woodgrain



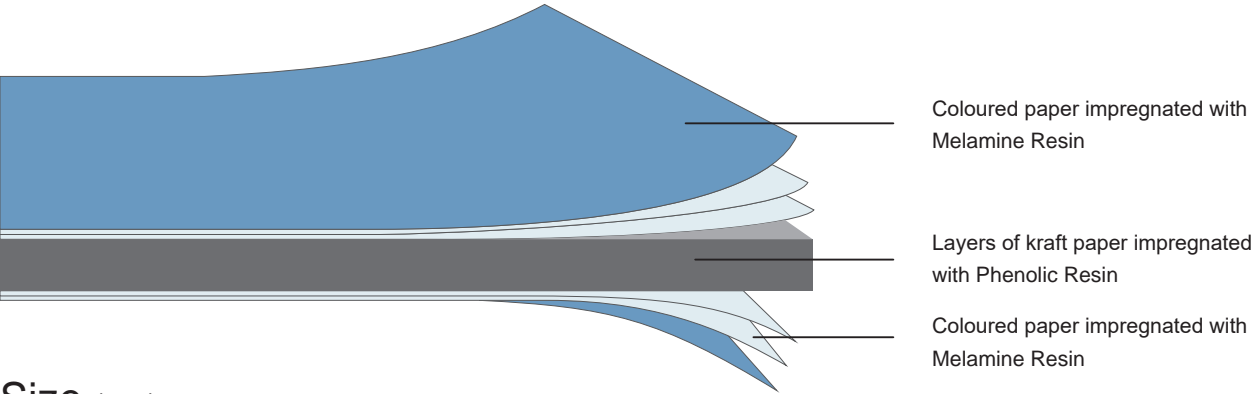


# Testing Standard & result

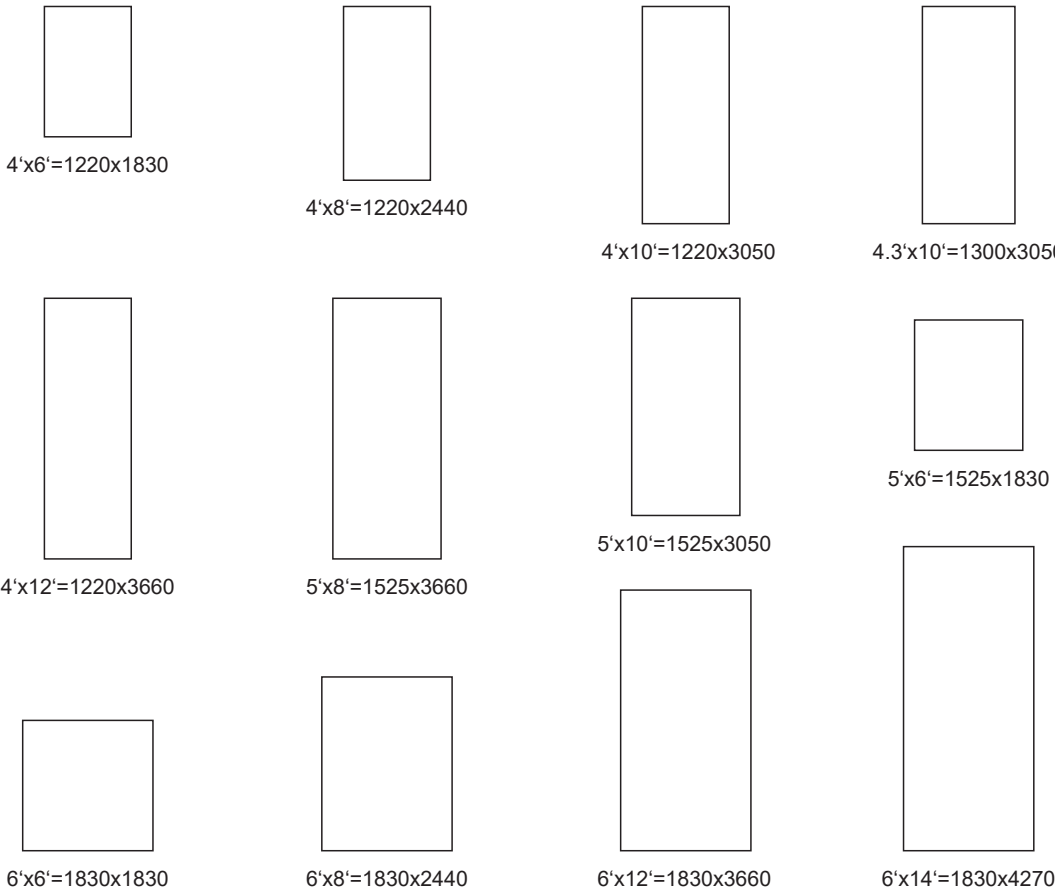
Properties	Value	Unit	Standard
Specifications, Dimensional Tolerances			
Thickness (mm/max)	2.0 ≤ t < 3.0mm : ±0.20mm	3.0 ≤ t < 5.0mm : ±0.20mm	Test method (EN 438-2:2005 Clause no.5)
	5.0 ≤ t < 8.0mm : ±0.40mm	8.0 ≤ t < 12.0mm : ±0.50mm	
	12.0 ≤ t < 16.0mm : ±0.60mm	16.0 ≤ t < 20.0mm : ±0.70mm	
	20.0 ≤ t < 25.0mm : ±0.80mm    25.0mm ≤ t : to be agreed between supplier and customer. (T=nominal thickness)		
Flatness (mm/max)	2.0 ≤ t < 6.0mm : 8.0mm/m	6.0 ≤ t < 10.0mm : 5.0mm/m	Test method (EN 438-2:2005 Clause no.9)
	10.0mm ≤ t 3.0mm/m (T=nominal thickness)		
Physical Properties			
Density weight	≥1350	kg/m³	ISO1183
> Thickness 6mm	8.7	kg/m²	ISO1183
> Thickness 8mm	11.6	kg/m²	ISO1183
> Thickness 10mm	14.5	kg/m²	ISO1183
> Thickness 12mm	17.5	kg/m²	ISO1183
Optical Properties			
Immersion in boiling water (100°C water for 2 hours)			
> Mass increase	0.3	%	EN 438-2
> Thickness increase	0.5	%	EN 438-2
> Appearance	4	Rating	EN 438-2
Thermal conductivity	=0.23	W/(m k)	EN 438-2
Mechanical Properties			
Modulus of elasticity	> 10000	Mpa	ISO 178
Flexural strength	≥ 100	Mpa	ISO 178
Tensile strength	≥ 70	Mpa	ISO 527-2
Scratch resistance	≥ 3	Rating	EN 438-2
Resistance to crazing	≥ 4	Rating	EN 438-2
Face screw-holding	> 5000	N	ISO13894-1:2000
Water vapour permeanility	Wet cup: 110, dry cup: 250	μ	ISO12572
Resistance to sigarette burns	≥ 3	Rating	EN 438-2
Abrasion Testing	144.5	mg	EN 438-2:10
Impact Resistance	90.4J	MBFE	ASTM D 256-06a
Linear expansion with change in moisture content	0.0065%	/	ASTM D 1037-06a section 24
Fire Classification			
Reaction to fire	Type FR=4/8/12mm Euroclass B-s1,d0		EN 13501-1
Factory Production Control (FPC)	ISO9001 / ISO14001 / OHSAS18000		

# Specification

## Structure



## Size (mm)



## Thickness (mm)

Standard 1 / 3 / 4 / 6 / 8 / 10 / 12 / 13 / 16 / 18 / 19 / 25 (Custom-made available between 1-25)







# Eco-Friendly

HPS High Pressure Laminate and the Compact Laminate are sheets consisting of layers of papers impregnated with thermosetting resin, dried and bond together in a high pressure process. The exhaust air extracted from the drying is treated by regenerative thermal oxidation in which heat produced thereby is redirected back into the process. By executing this new production system in China, our plant can thus reduce its emission by approximately 6,000 tons of CO<sub>2</sub> per year.

The kraft papers we used are mostly recycled papers (also called „regenerated papers“) which are from waste papers processed into „kraft papers“. Meanwhile, we also use wood-based kraft papers in the raw core to achieve balance of the sheets. We source these raw materials from vendors certified according to the standards of FSC or PEFC. These standards ensure that the recycle content or wood is produced in compliance with international applicable rules for sustainable forestry.

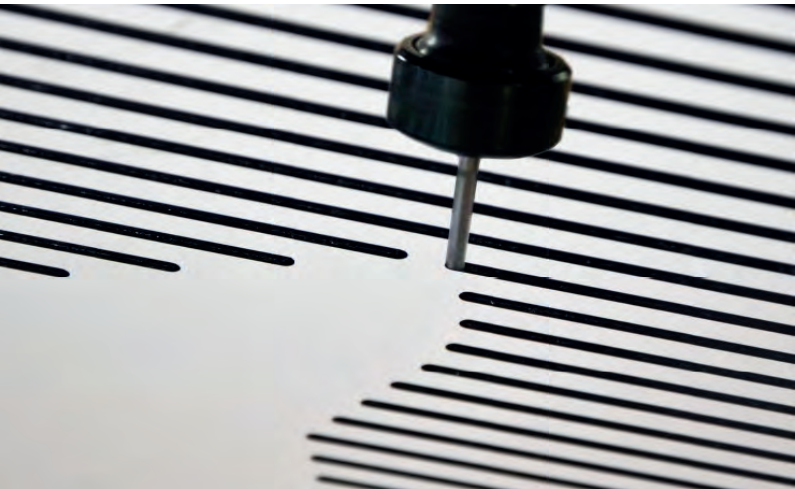
The laminates are cured and chemical inserted. However, the volatile organic compounds emission from the surface and the core are very low due to its bonding production technique. The panels do not contain limited substances that listed in the Candidate of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before 2017.

Chips and shavings produced by processing (cutting and milling) are not hazardous to human health. This also means that waste can even be disposed of thermal without the emission of environmental toxins such as hydrochloric acid, organic chlorine compounds or dioxins. Principally, the waste must be disposed according to specific country laws and regulations.



Certification under apply.

# Design Edge



HPS offers 10 unique color designs as standard. Meanwhile, HPS also offers element design service by the using cutting-edge CNC machinery.

We are able to help you to fulfill your imagination.



Imagination



Customization



Diversification