

Compact Fiberboard

HPS

A pathbreaking decorative material
for architectural design

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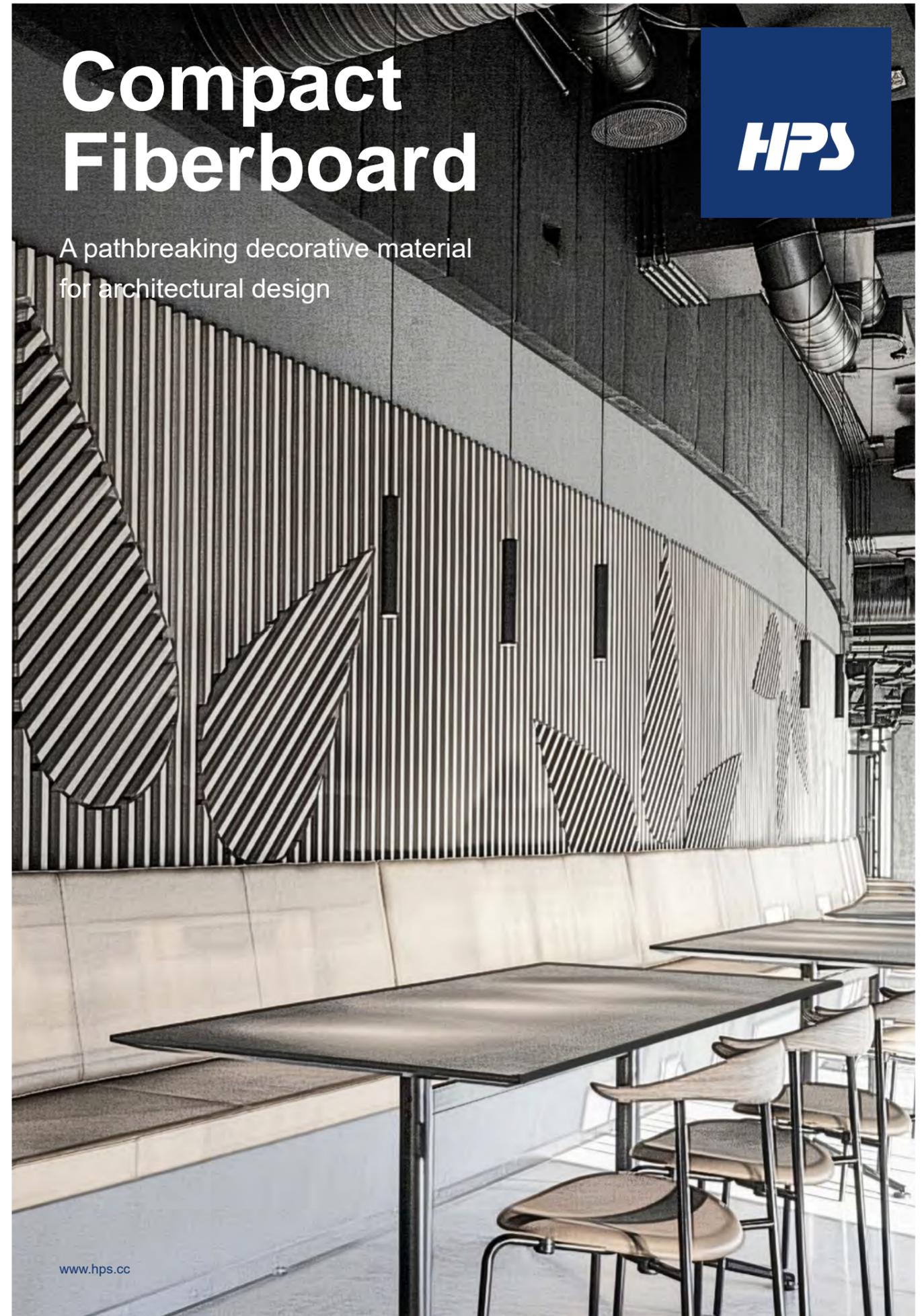
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The background of the entire page is a close-up photograph of three rectangular panels of wood-grain compact fiberboard. The panels are stacked on top of each other, with the top panel being the most prominent. They are arranged in a way that creates a strong sense of depth and perspective, receding towards the top right. The wood grain is a light, natural-looking color with subtle variations in tone and texture. The edges of the panels are dark, possibly due to the manufacturing process or the lighting used in the photograph.

NEW JOURNEY

INNOVATIVE HPS

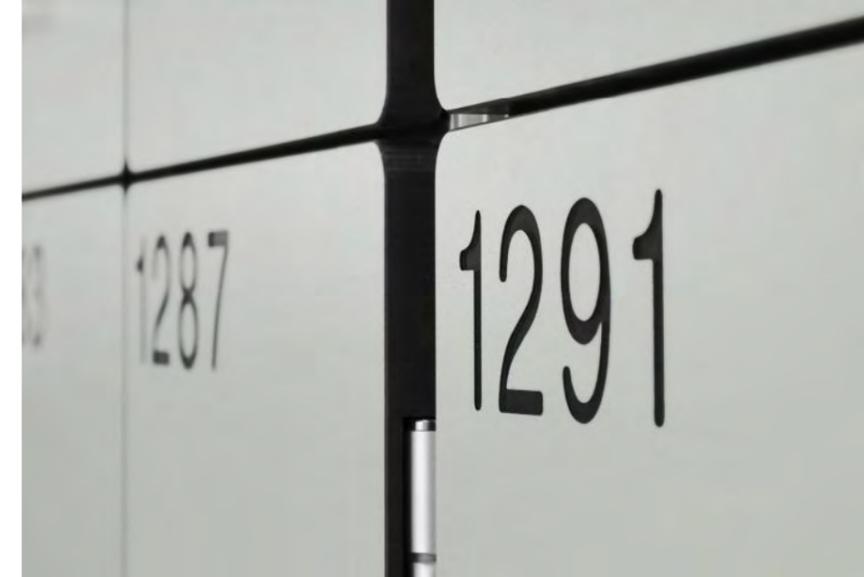
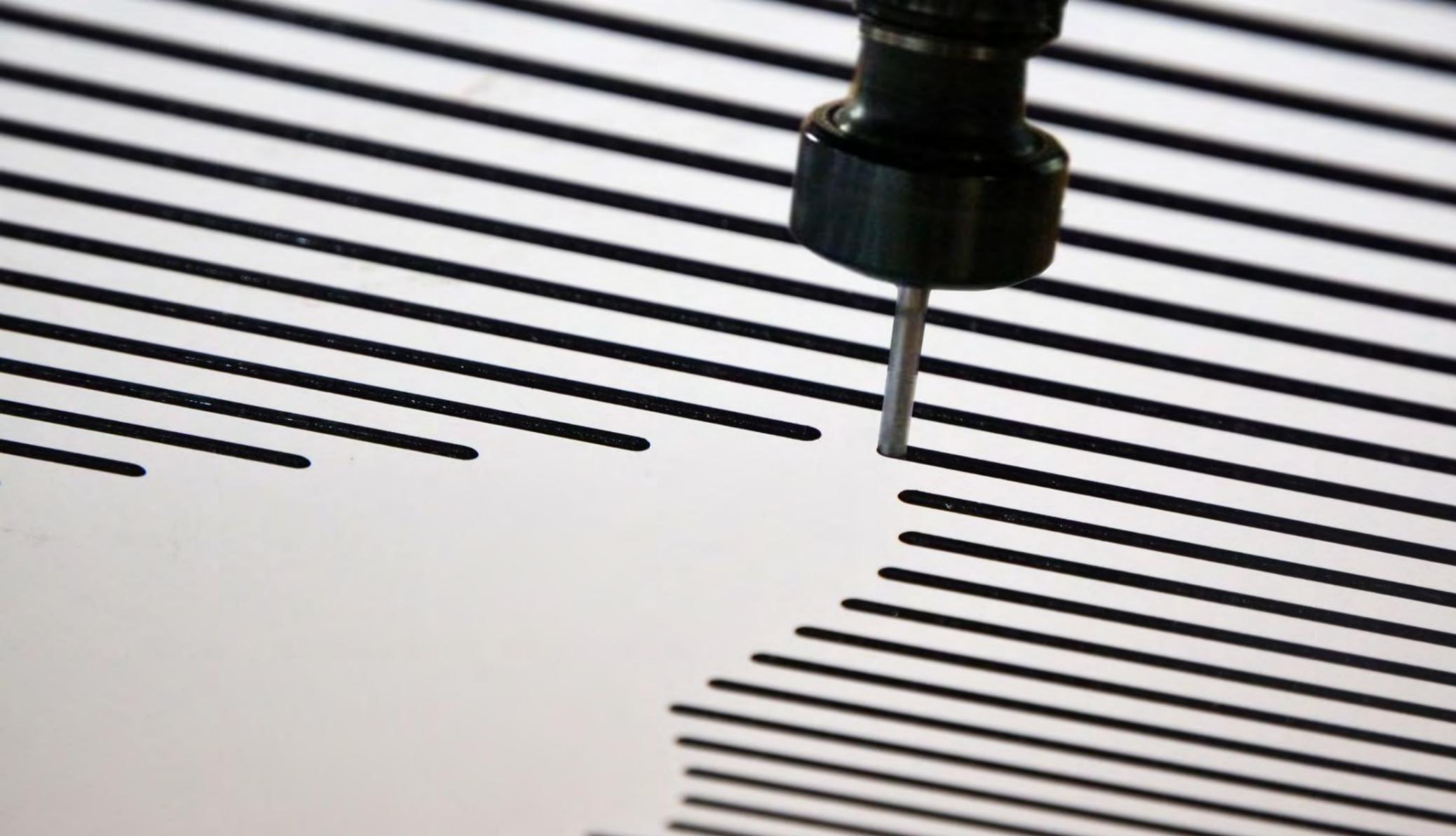
COMPACT FIBERBOARD



HPS Compact Fiberboard



HPS Compact Fiberboard is an innovative, robust, and high density ($>1200 \text{ kg/m}^3$) wood based fiberboard. The raw core is black colored and made up of wood fibers impregnated with thermosetting resin. The surface layer(s) on both sides are decor papers, having decorative colors or designs that are impregnated with melamine based resin. These two components are bonded together under high pressure and temperature to obtain an integrated decorative material.



Features



Low Swelling



Fire-resistant



Mold resistant



Scratch-proof



Stain resistant



Wear resistant



Maintenance-free



Hygienic



Machining friendly



Various surface

Application

HPS Compact Fiberboard can be used as extremely strong supporting board. Thanks to its distinctive black coloring and the compact density core, the board has excellent machinability into the depth of the panel to create unique furniture and building design. It can also be used as an attractive surface by its versatile melamine resin treated decors.





Architectural Creation

- Art Design
- Exhibition
- Partition
- Wall Liner





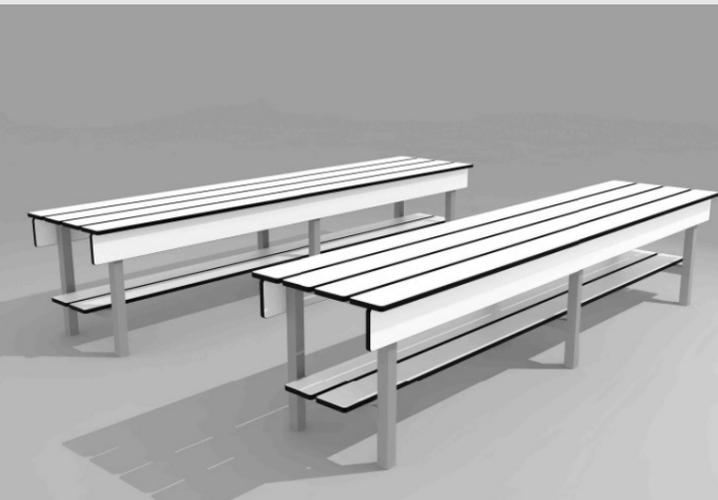
Innovative Furniture

- Educational
- Office
- Hospital
- Public



Commercial Design

- Restaurant
- Hotel
- Retail



Restroom Solution

- Toilet Cubicle
- Locker
- Sanity Cabinet

Testing Standard & result

Technical data of HPS Compact Fiberboard (raw core)

(acc. to EN 622-5: Fiberboards-requirements for the boards after drying process MDF)

Testing Parameter	Test Result	Unit	Requirement	Standard
Panel thickness	8 / 9 / 10 / 12 / 13	mm	/	EN 324
Thickness tolerance	± 0.2	mm	± 0.2	EN 324
Raw density	≥ 1200	kg/m ³	> 800	EN 323
Internal bond strength	> 0.4	N/mm ²	> 0.6	EN 319
Flexural strength	> 70	N/mm ²	> 22	EN 310
Flexural elasticity module	> 6500	N/mm ²	> 2500	EN 310
Surface soundness	> 3.5	N/mm ²	> 1.0	EN 311
Thermal conductivity	0.182	W/(m·K)	0.14	EN 13986
Moisture content	8	%	4-11	EN 322
Swelling in thickness 24H	< 3.6	%	< 15	EN 317
Formaldehyde Emission	≤ 0.09	mg/m ³		EN 13986
Fire classification (available on request)	B-s1, d0		B2	EN 13501

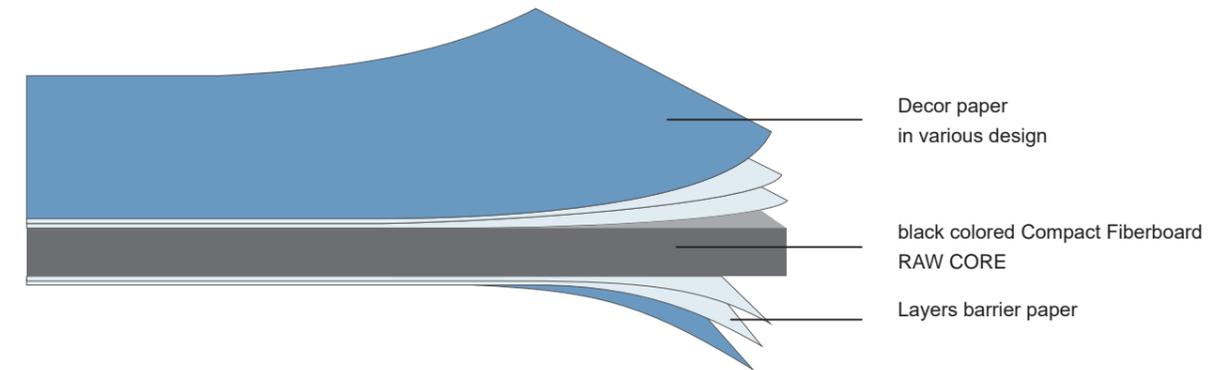
Technical data of HPS Compact Fiberboard (decor panel)

(acc. to EN 14323: Melamine-coated boards for indoor applications)

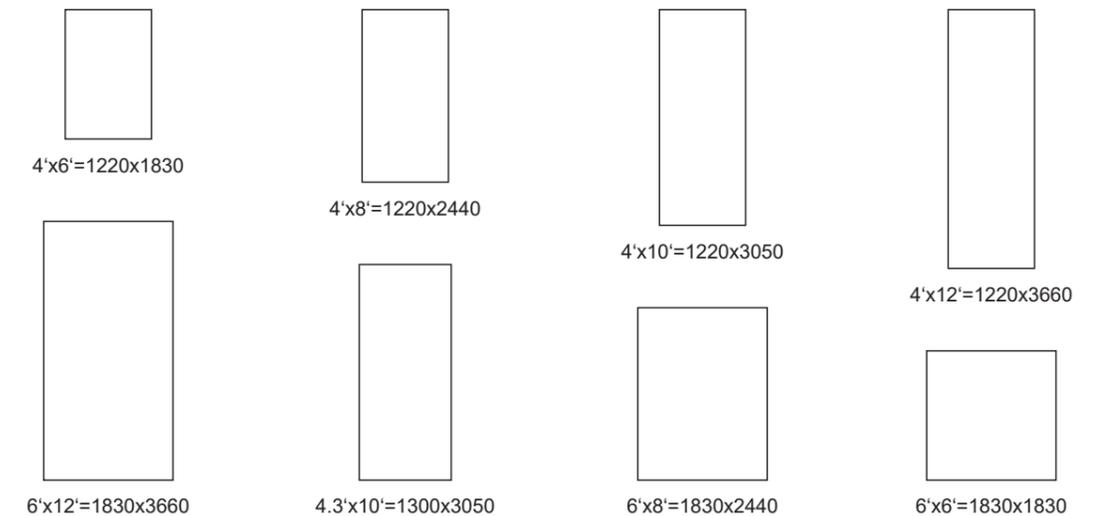
Testing Parameter	Test Result	Scale	Evaluation	Standard
Surface abrasion	900	Revolution	High	EN 14323
Resistance to water vapour	5	1-5 (5 is the best)	Very high	EN 14323
Resistance to scratching	No visible marks after scratching with 4N	Visual	High	EN 14323
Resistance to cracking	5	1-5 (5 is the best)	Very high	EN 14323
Resistance to impact by large diameter steel ball	No visible cracking after impact with height of 200cm	Visual	High	EN 14323
Resistance to staining	5	1-5 (5 is the best)	Very High	EN 438-2
Light fastness	4.5	-	High (grey scale)	EN 14323
Formaldehyde emission	≤ 0.08	-	mg/m ³	EN 13986
REACH	< 0.1 %	(W/W)	Pass	REACH Regulation (EG) No. 1907/2006 173 (SVHC)

Specification

Structure



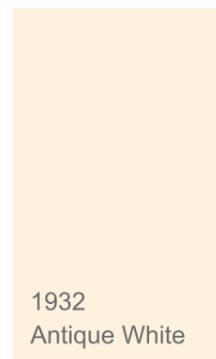
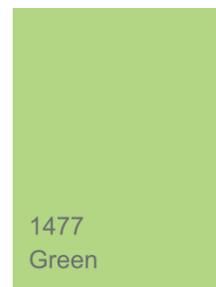
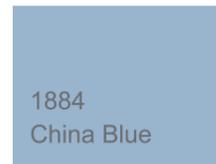
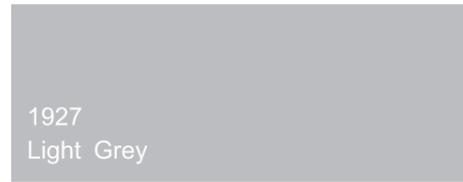
Size (mm)



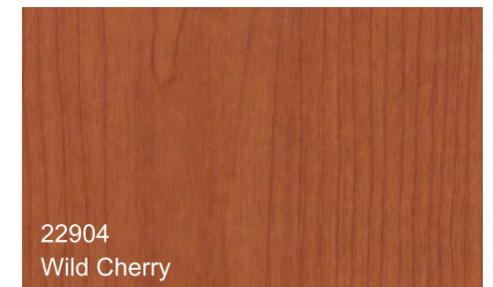
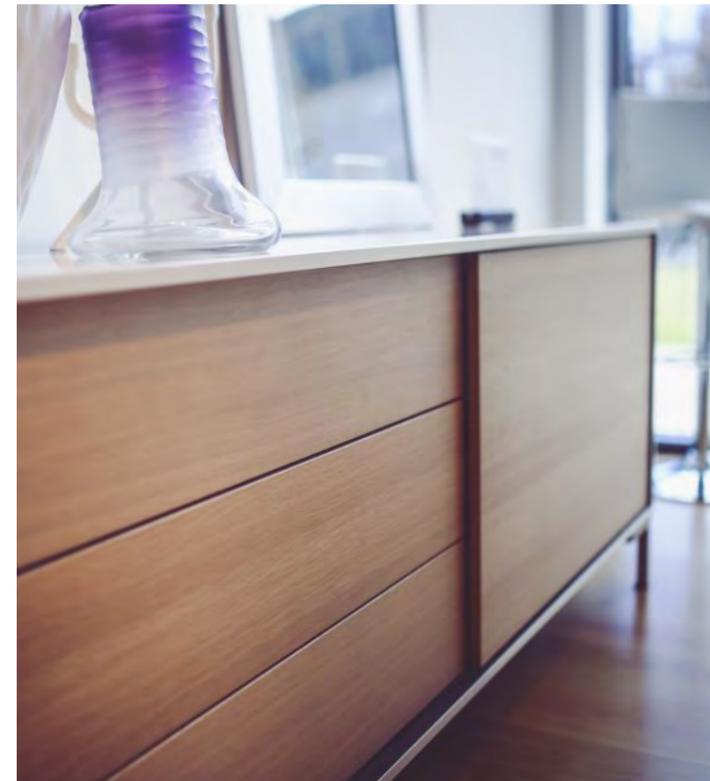
Thickness (mm)



Color Plain



Woodgrain





Eco-Friendly

HPS Compact Fiberboards are sheets consisting of wood fibers impregnated with synthetic resin, pressed by two sides decor paper of melamine resin treated.

HPS Compact Fiberboard is a natural material made of Chinese local wood that originates from sustainably managed forests.

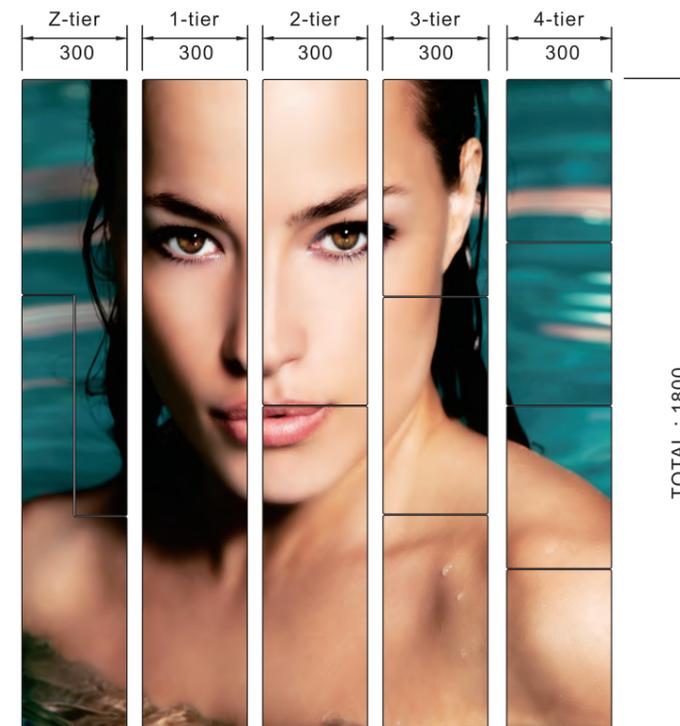
HPS Compact Fiberboard is produced according to ecological principles. The process saves CO₂ and protects the environment.

HPS Compact Fiberboard is cured and chemical inserted. However, the Volatile Organic Compounds (VOC) emission from the surface and the core are very low due to its bonding production technique.



Certification under apply.

Design Edge



HPS offers a wide range of designs in respect of colors, patterns, textures, and individual concept. As a standard, HPS Compact Fiberboard come with decors on both sides in suede finish. However, only the RAW CORE is also available on request.

HPS provides hundreds of plain colors, wood grains, stones, and individual decor processed by our cutting-edge digital printing equipment.

We are able to help you to fulfill your imagination.



Imagination



Customization



Diversification