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Website



WeChat

Compact

# Laminate

Versatile  
Solid Density  
High Performance Material



Performance Plate, Beyond Decoration

Where durability and  
design meet  
Compact Laminate

INNOVATIVE  
DEBO

# I About

DEBO® (DEcorative BOards) was created in 2004 with a simple vision that to provide world's architects, designers, builders and eventually the end users with comfort, reliability and sources creation.



## Performance Plate Beyond Decoration

DEBO® was founded in 2004 by a pool of specialists from the HPL Industries and of transnational. For more than 16 years, DEBO® has been focusing on developing decorative panels and the extending applications. At first, the founder team, due to the come-across of High Pressure Laminate (HPL) which is a composite material with a century long history, starting to step into the surface decoration and solution. Afterwards, when Compact HPL was born, we began to immerse ourselves into this innovative architectural structure and decorative surface material. We believe that it will bring inspiring solutions to the architectural and furniture design. As a result, DEBO® team harbored their vision, carrying their profession and cross-disciplinary technical know-how, developed different panels with high quality performance and a various of product solution for both indoor and outdoor demanding environment, including hospital construction in health care, airport construction in public service sector, restaurant and kitchen furniture design in commercial territory, and laboratory engineering in scientific research field etc. DEBO® has gained the trustworthiness of customers all over the world for its excellent product performance and decorative effect.

As an International brand, DEBO® works closely with the world finest industrial suppliers for obtaining the best international quality. Insisting on the green environment concept as the guide, DEBO® implements actively the strategy of sustainable development to protect the ecological environment. Today, we are still striving to provide the most popular decorative colors, surfaces and the most cutting-edge panel performance to meet the highest requirement of quality and innovation in the new era of industry 4.0.

## International Quality

DEBO® team has integrated a group of experts from national and international technical personnel of HPL. Although at the beginning, Compact HPL was a brand-new material to China, we still insisted on developing this new decorative panel and its application as our mission.

For more than 16 years DEBO® has been dedicated to designing and manufacturing high quality Compact HPL and the solution for versatile and demanding environment. In 2020, DEBO® kept the same steps with European manufacturers to launch in Chinese market with the CleanTop® Anti-fingerprint which is a performance panel with a special treatment adopted on the panel surface that gives self-cleaning, super matt, and velvet touch. It's entirely closed surface structure with a solid core from the whole laminate has made it exceeding ordinary HPL and Compact Laminate made with general top layer. Ultimately, Its surface performance and decoration effect caters to the high-end aesthetic and high quality life demand.

## Design Edge

DEBO® offers various colors, surface textures and specification as standard, while customization is also welcomed to fulfill your individual design. We are working with the world's top material suppliers to achieve natural, trendy and diversified design aesthetic. Furthermore, DEBO® also offers element design service by the using our cutting-edge CNC machinery to realize your Imagination.



## Environmental Development

DEBO® 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 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 our unique 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 2020.

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.



REACH



## Worldclass to the Globe



### DEBO® Compact Laminate

DEBO® 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. The material is particularly durable, self-supporting, moisture-resistant, and anti-bacteria etc, which can be ideally used in areas subject to intensive use and hygienic concern, such as HOSPITAL, AIRPORT, LABORATORY, WASHROOM and FURNITURE Innovation.

DEBO® Compact Laminate is more than a PERFORMANCE PLATE. It is designed for INTERIOR, EXTERIOR and LABORATORY applications. The interior collection includes MULTI-FUNCTIONAL COMPACT GRADE, FIRE-RATED COMPACT GRADE, and luxury CLEANTOP® with special features of anti-fingerprint, soft-touch and extreme matt. LABENCH worktop and EXTERIOR facade are exclusive employment of DEBO® Compact Laminate Professionals. It is BEYOND DECORATION that gives architects and furniture designs a source to rethink their work in SHAPE, COLOR and APPLICATIONS.



Impact-proof



Rub resistance



Resistance to dry heat



Moisture-proof



Machining friendly



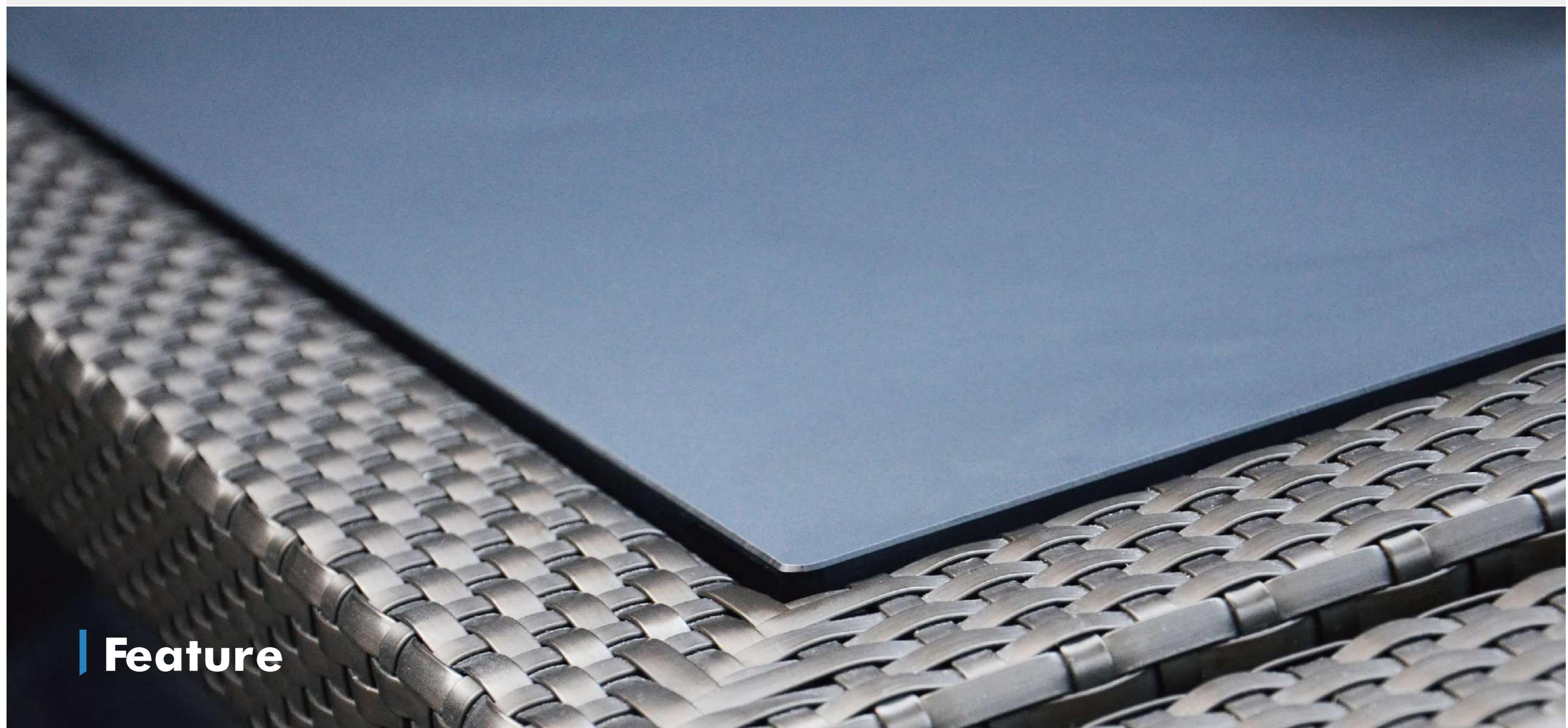
Easy to clean



Hygienic



Fire-resistant



## Feature



Mold-resistant



Stain resistant



Scratch-proof



Self-supporting



Excellent intensity and colour depth



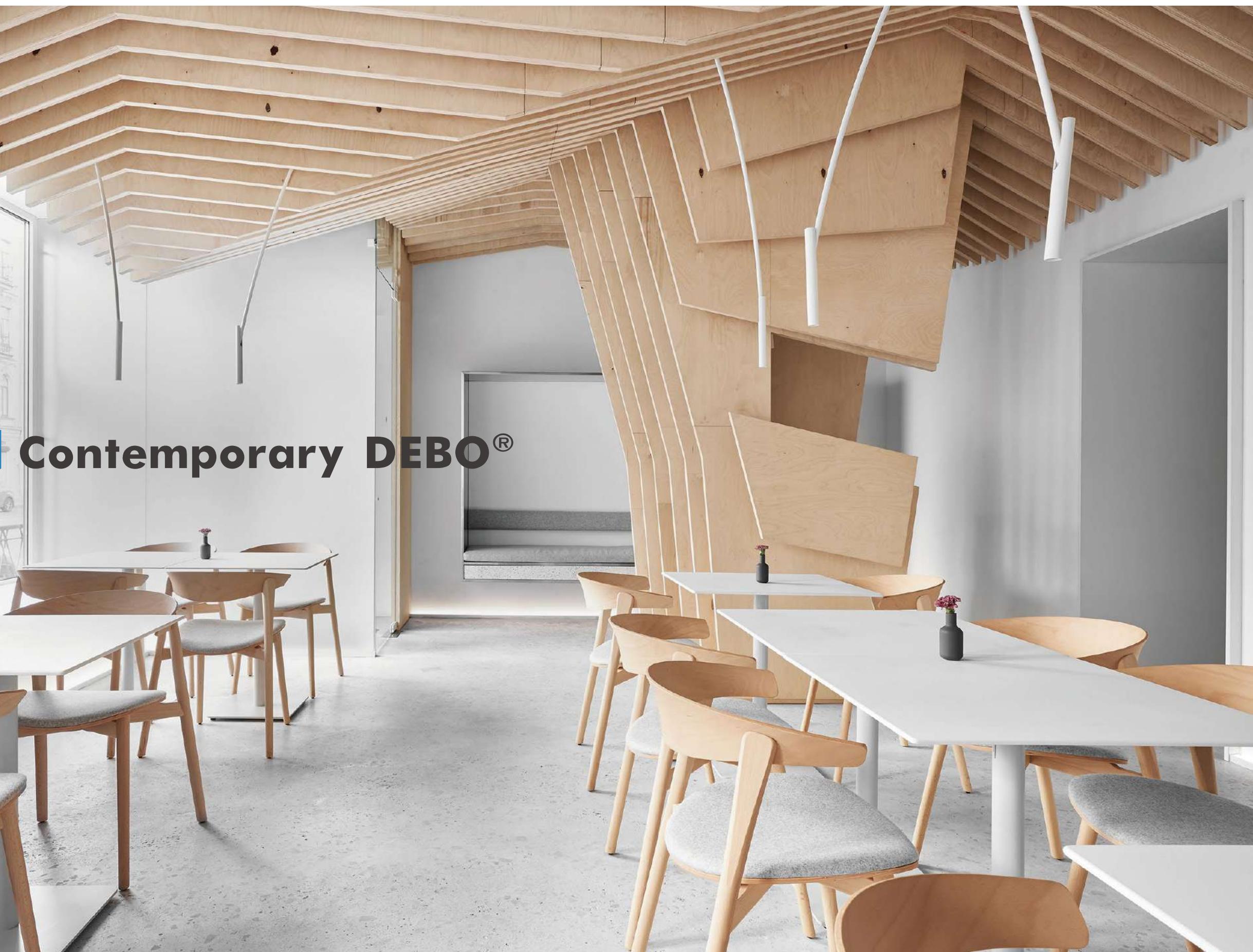
Various surface

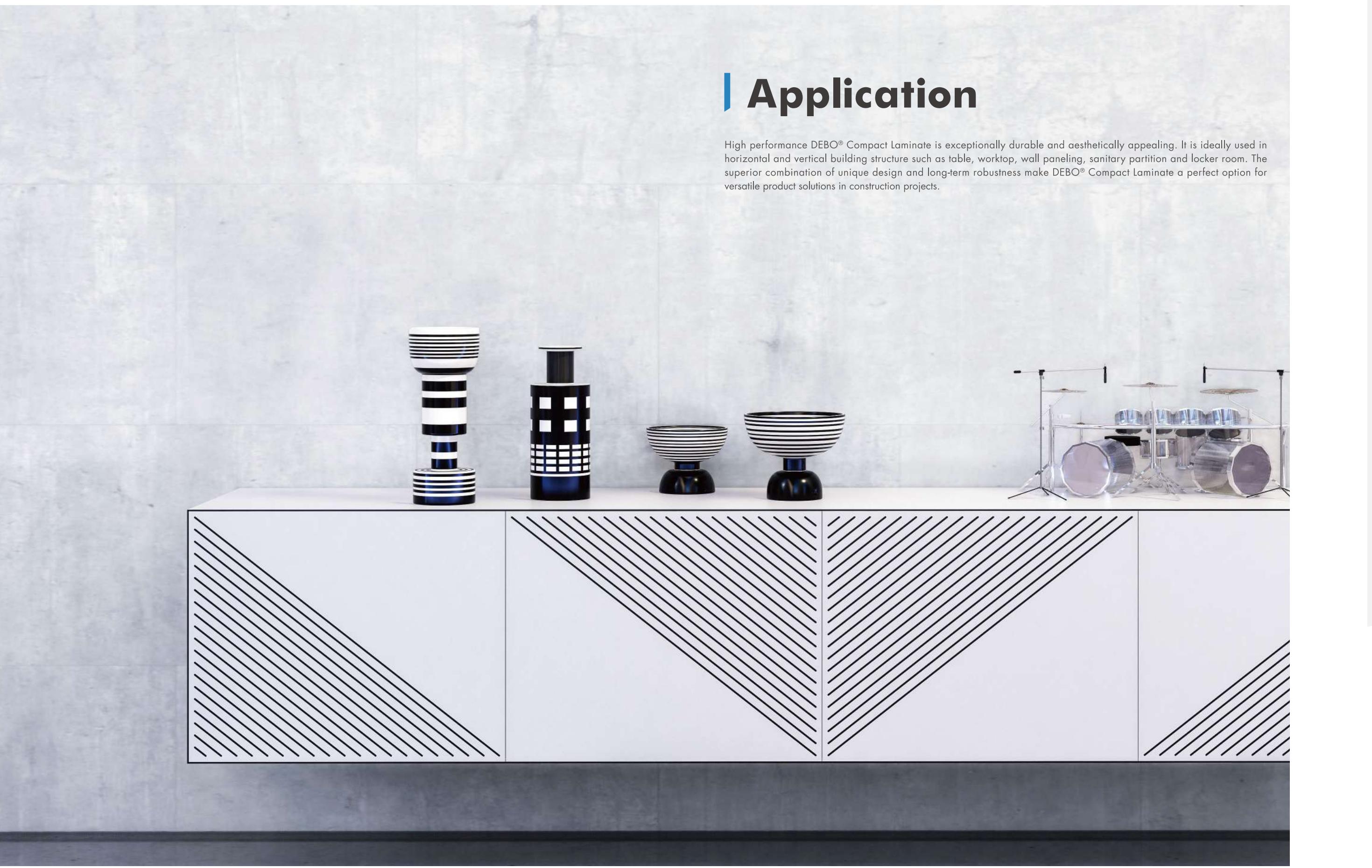


Longtime stability



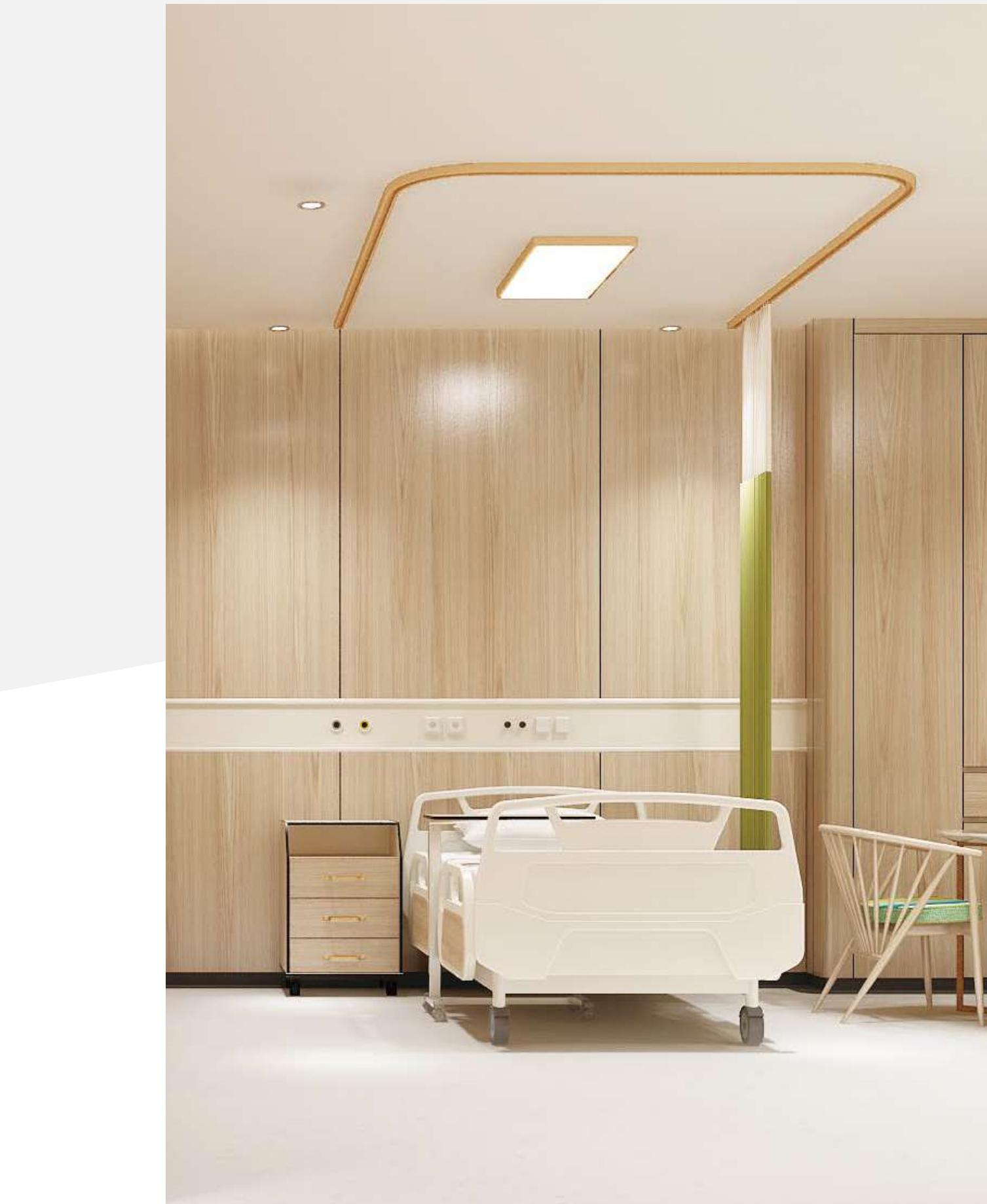
Antistatic





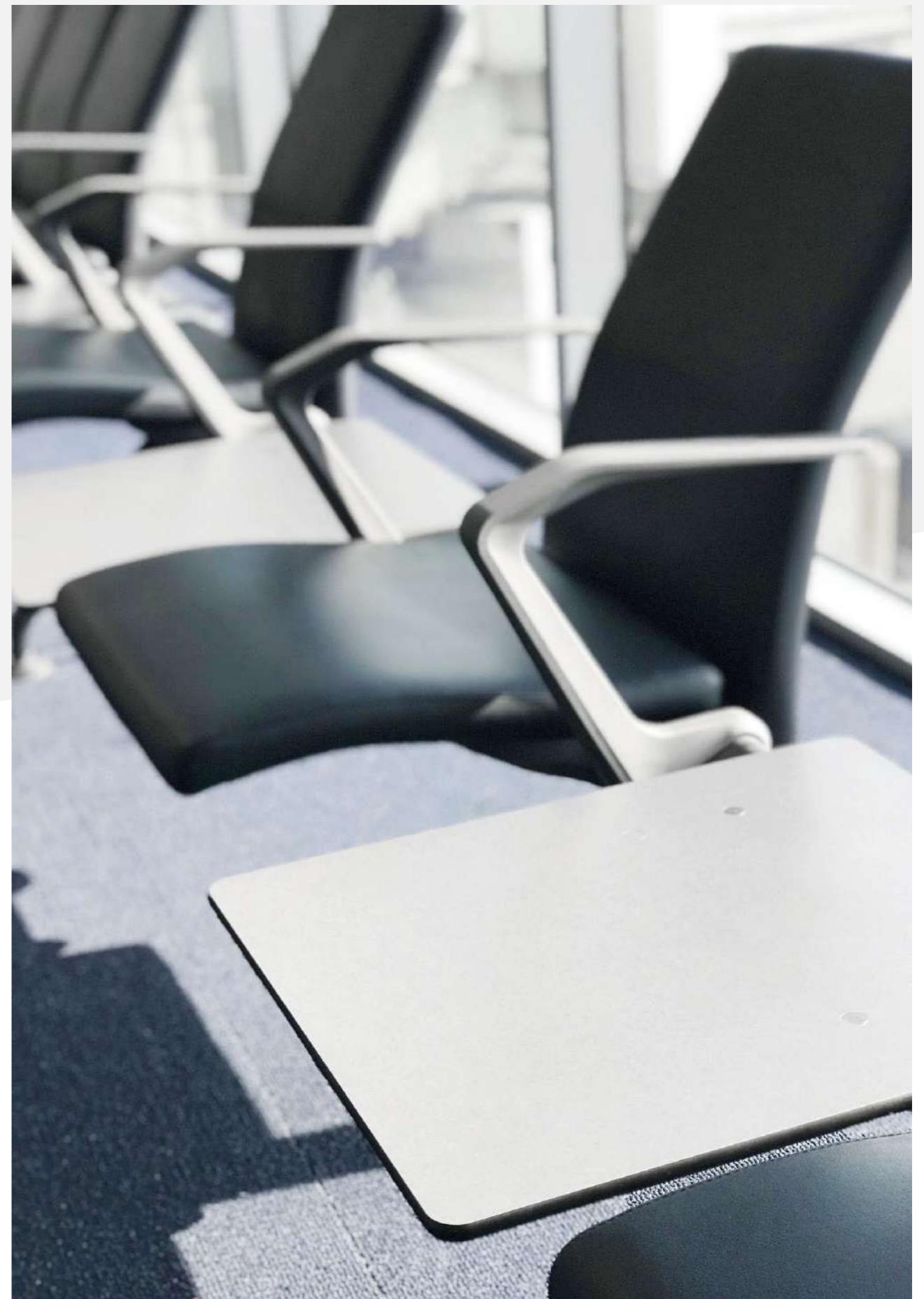
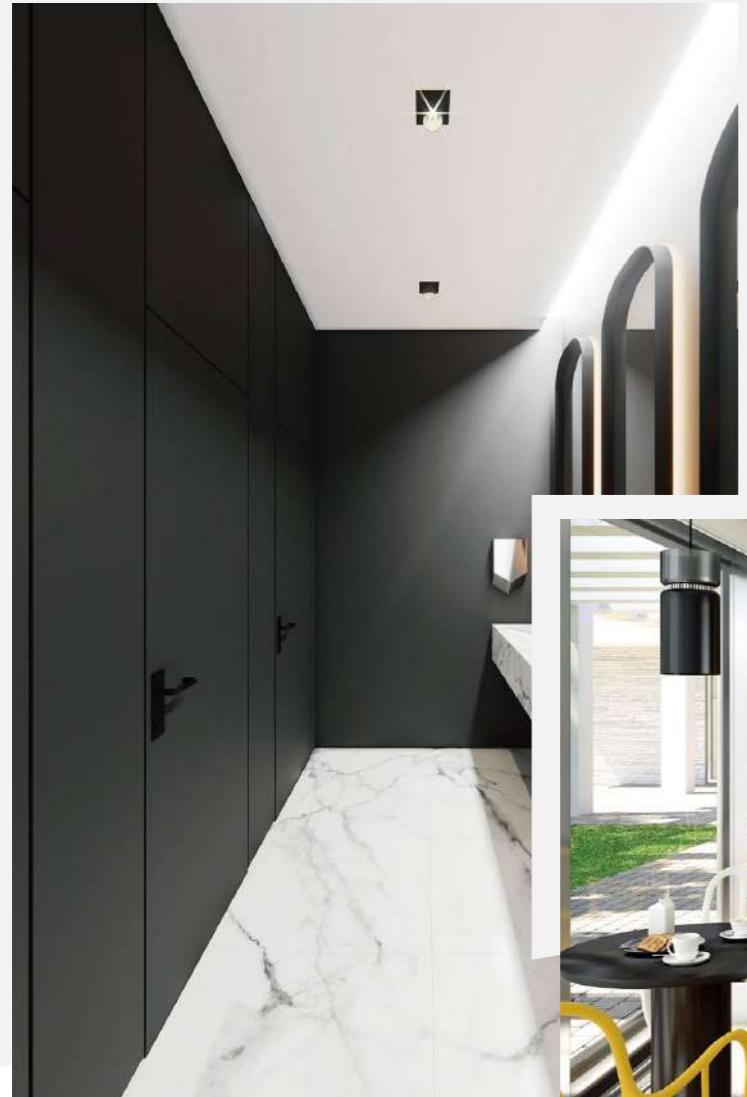
## | Application

High performance DEBO® Compact Laminate is exceptionally durable and aesthetically appealing. It is ideally used in horizontal and vertical building structure such as table, worktop, wall paneling, sanitary partition and locker room. The superior combination of unique design and long-term robustness make DEBO® Compact Laminate a perfect option for versatile product solutions in construction projects.



## | Hospital

DEBO® DECorative BOards (HPL, Compact Laminate, Anti-bacteria, Cleantop® etc.) and the Innovative application product systems are widely adopted in public and private hospital, clinic, medical research institute, nursing home, etc. and almost throughout the medical field. Whether it is the lobby, corridor, wall, or laboratory room of the medical construction system, DEBO® can provide a total solution for structural support and epidemic prevention.



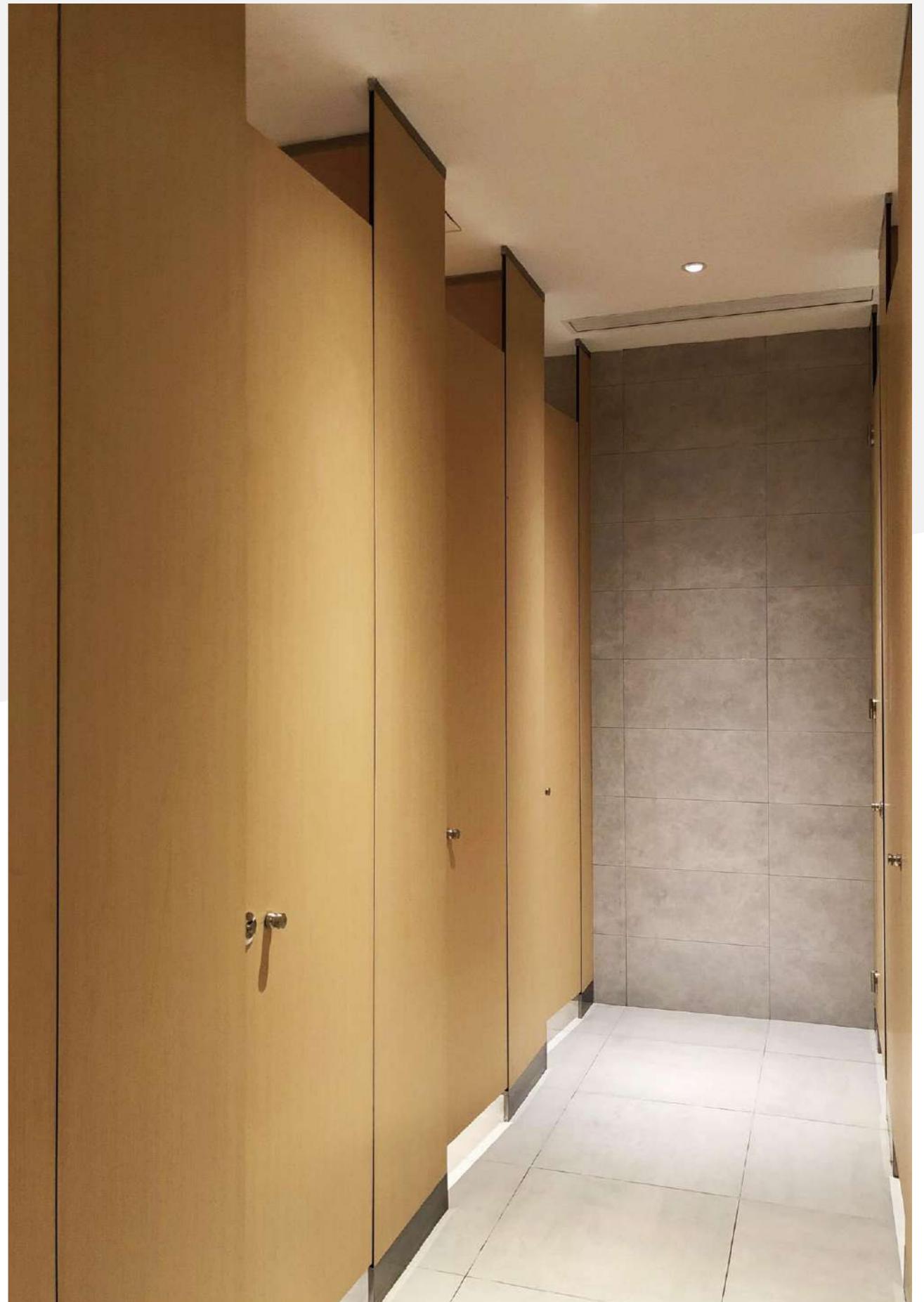
## | Airport

DEBO® DEcorative BOards (HPL, Compact Laminate, Anti-bacteria, Cleantop® etc.) and the Innovative application product systems are widely implemented in public areas with heavy traffic such as airport, railway Station, Immigration hall, etc., where wall protection, hygienic solution, and Interior decoration are highly concerned by property operators, local administration and ultimately end customers.



## Laboratory

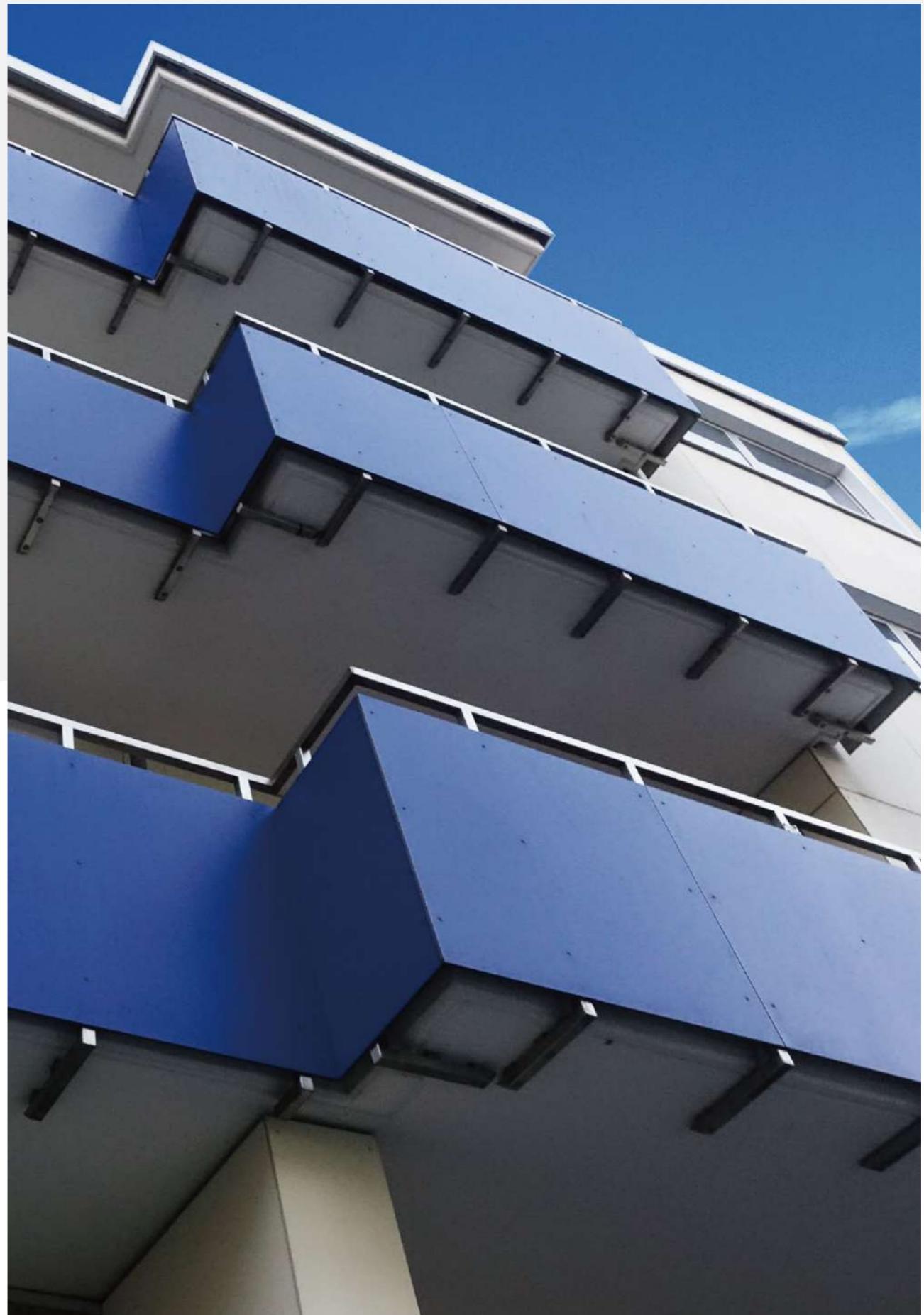
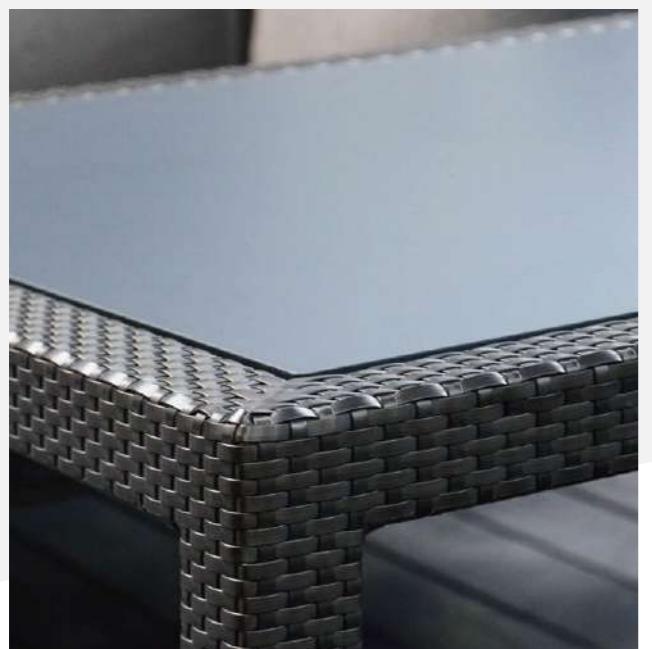
DEBO® is widely used in the field of scientific research and education working as a strong and corrosion-resistant countertop material. On top of the excellent performance surface of DEBO® Compact Interior, a special chemically resistant layer film is added to make it equipped with strong chemical corrosion resistance, stain resistance, scratch resistance and other special properties that suitable for Intensive Laboratory work flows.



## Restroom

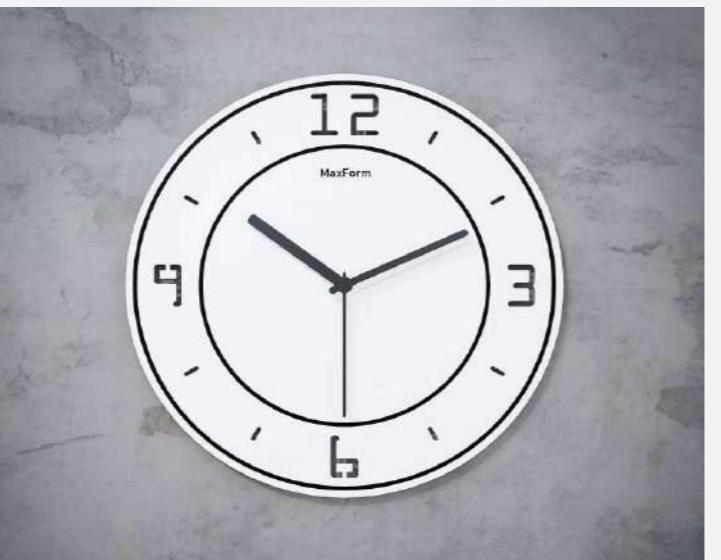
The superior material properties, such as moisture-proof, abrasion-resistant, impact-resistant, anti-bacteria, beautiful colors and designs, ect. that DEBO® Compact Laminate (Compact Interior, Anti-bacterial, Cleantop®) range are inherent immured have made the material typically suitable for public hygienic environment.

The DEBO® restroom solution includes Cubicles and Washroom, Lockers and Bench, Vanity, Wall paneling and Door that are focusing on hygiene, durability, design and functional practicability to build an safe public health space.



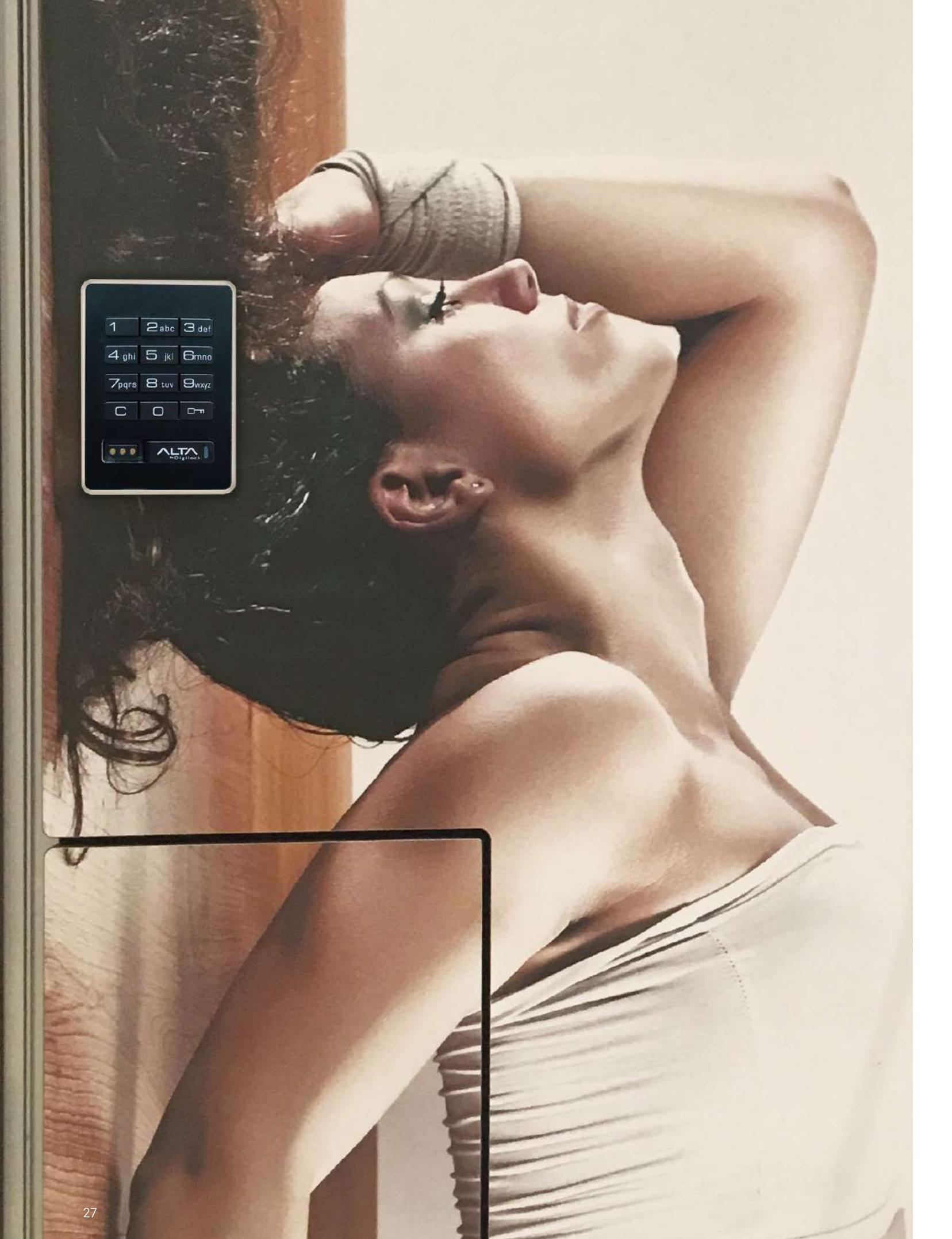
## | Outdoor

The core technology of DEBO® Exterior Compact lies in the polymerization of base material, decor paper and surface layer of anti-UV film. It is a high-end building decoration material specially designed for outdoor environment, which can adapt to various outdoor weather conditions for more than 10 years. It has unique UV resistance, anti-climate-shock, surface stain resistance and other excellent outdoor properties. With rich colors and surface textures, It is the trendy choice for modern architectural facade wall, outdoor furniture, fencing and other outdoor facilities.

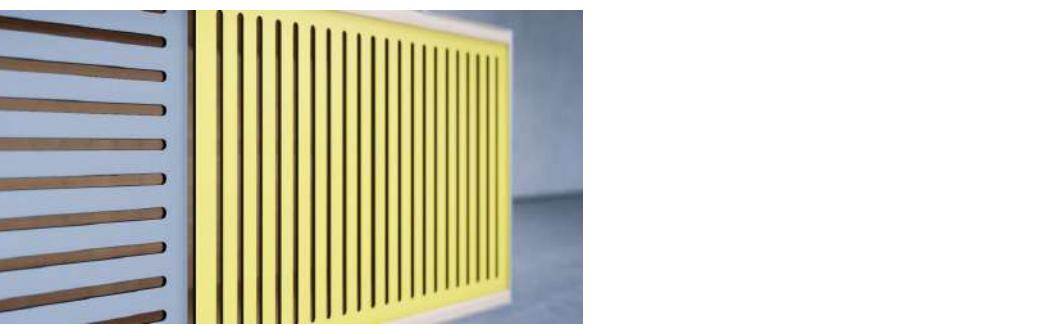


## Furniture

DEBO® DEcorative BOards (Compact Laminate, Cleantop® etc.) and its Innovative application product systems, relying on its excellent panel performance and stylish decorative color, It has become main materials for fashionable retail chain, high-end restaurant, bar and café, and other leisure and play mall. Meanwhile, especially the launch of DEBO® Nanotech Cleantop® panels that has provided an unprecedented soft touch surface for household kitchen, children furniture and other worktops.



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**From Concept to Complete  
From Part to Whole  
Infinite Space Creation**

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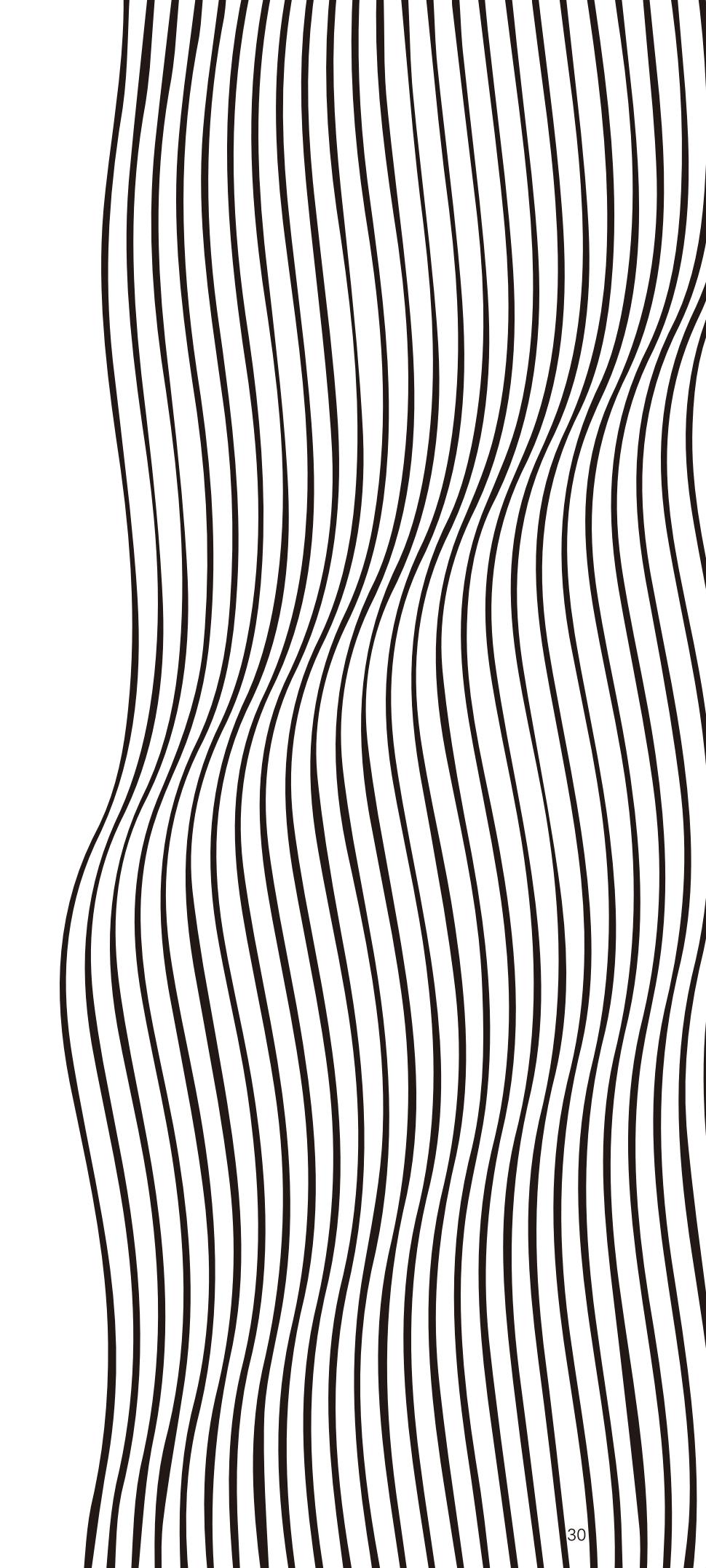
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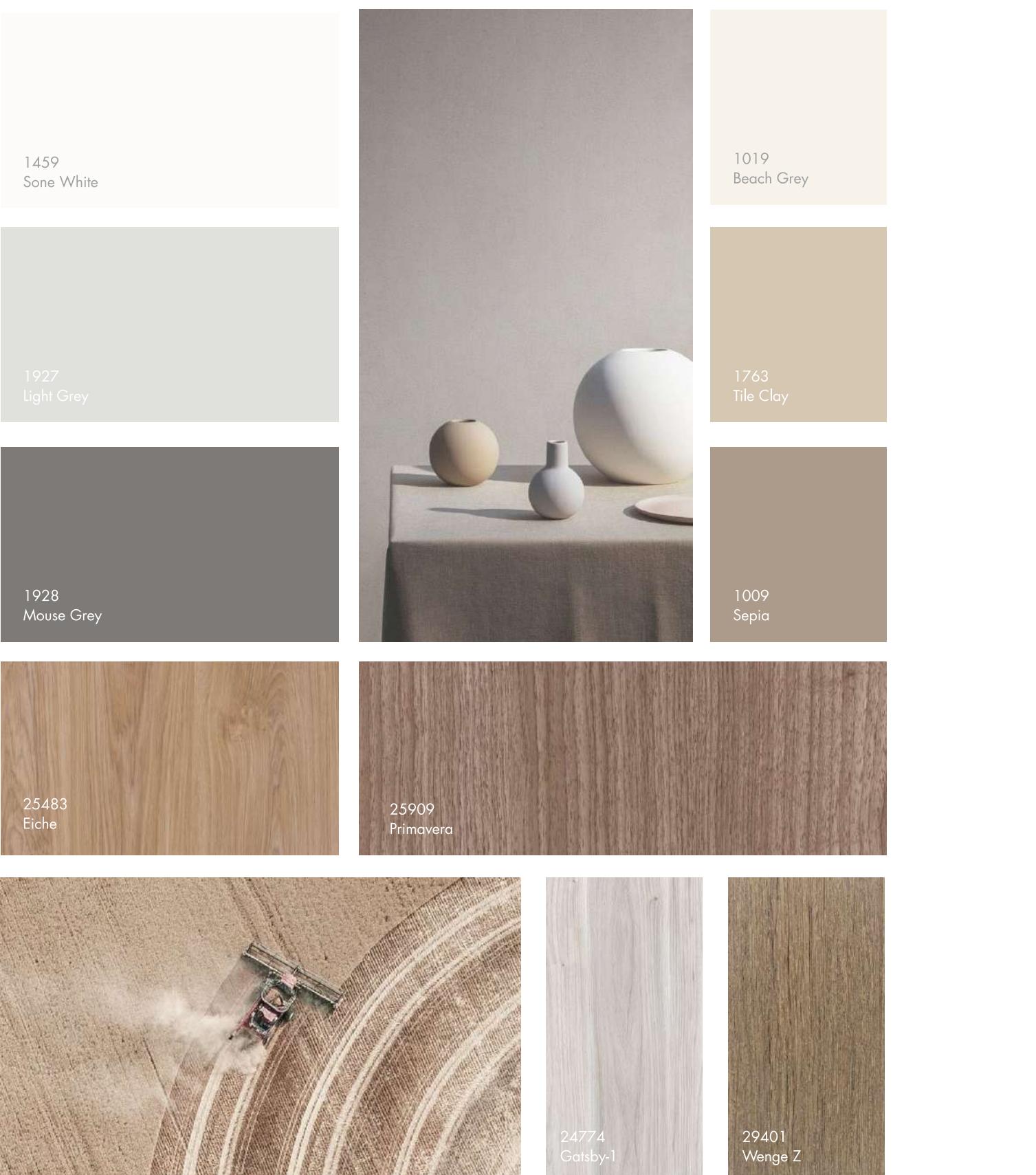
**From Indoor to Outdoor  
From Structure to Decoration  
Endless Application**

**Artistic  
Creation**

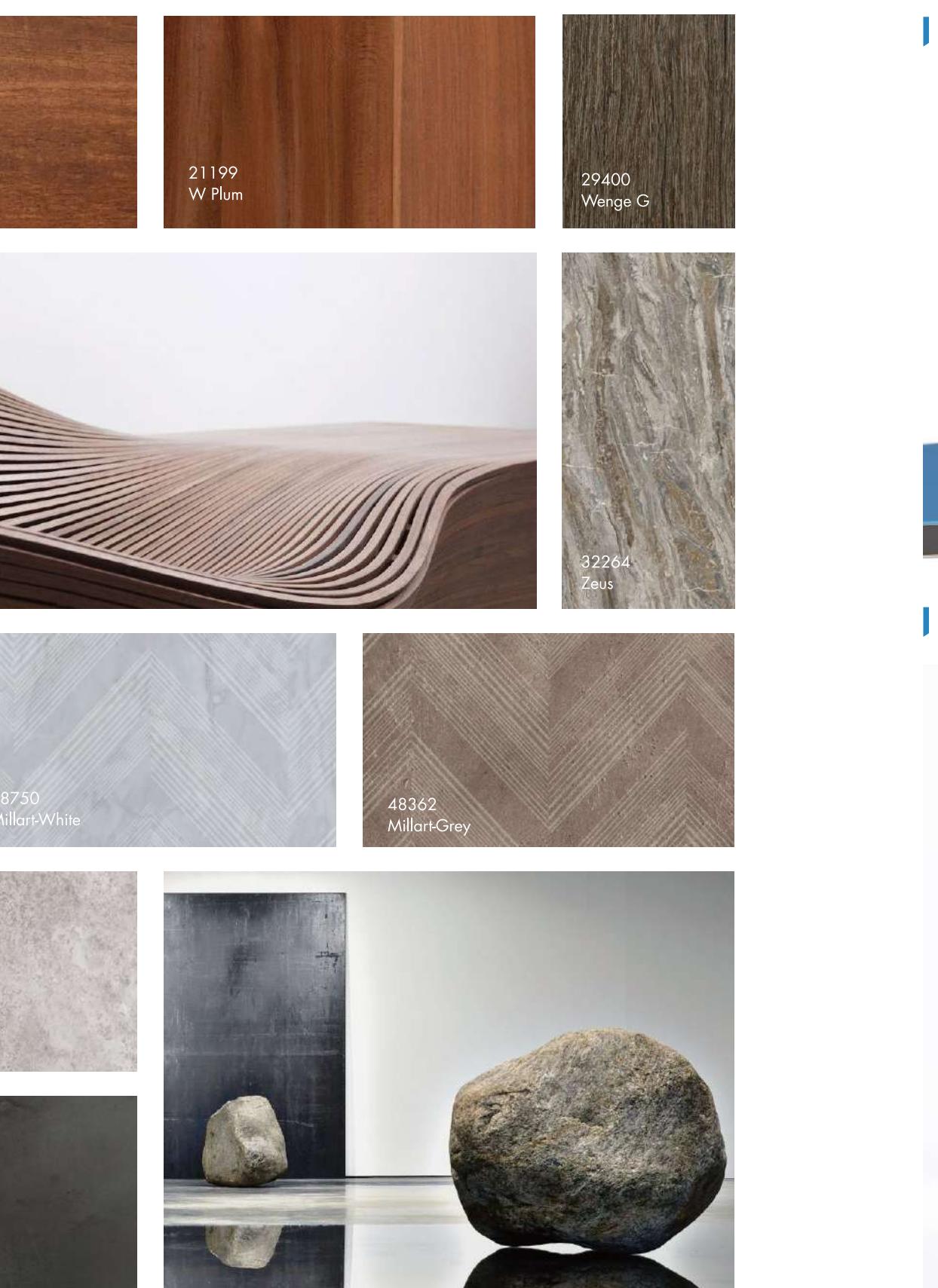


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## I Plain

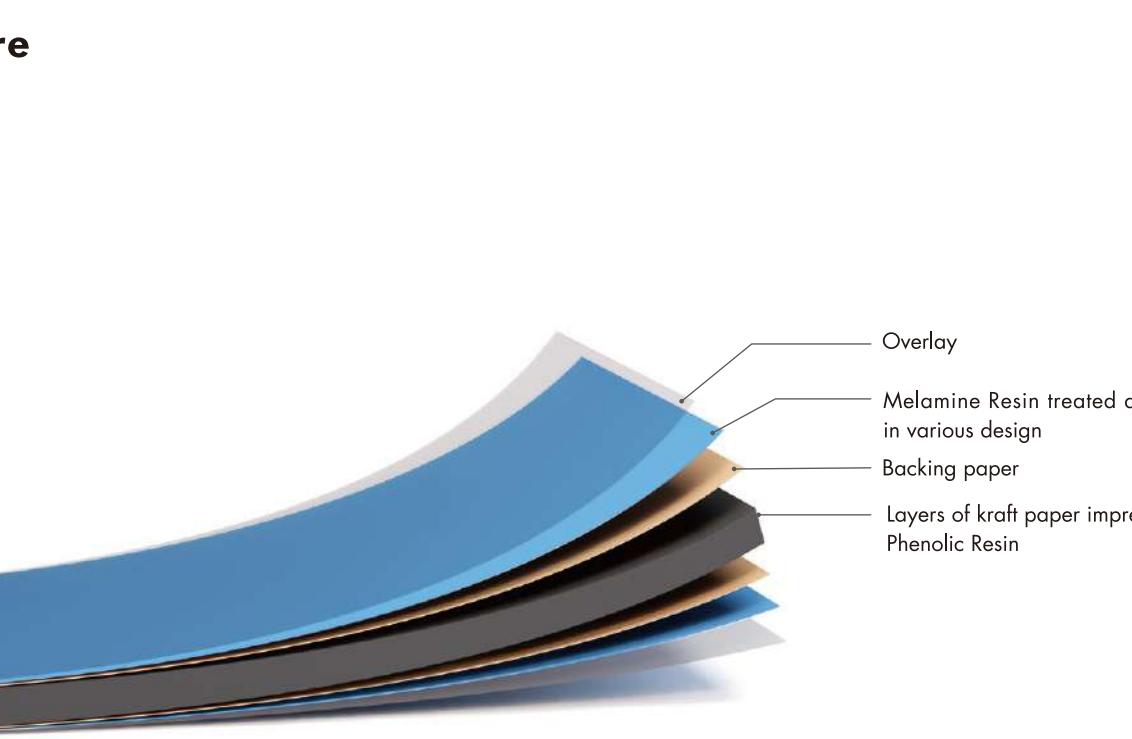


## I Woodgrain



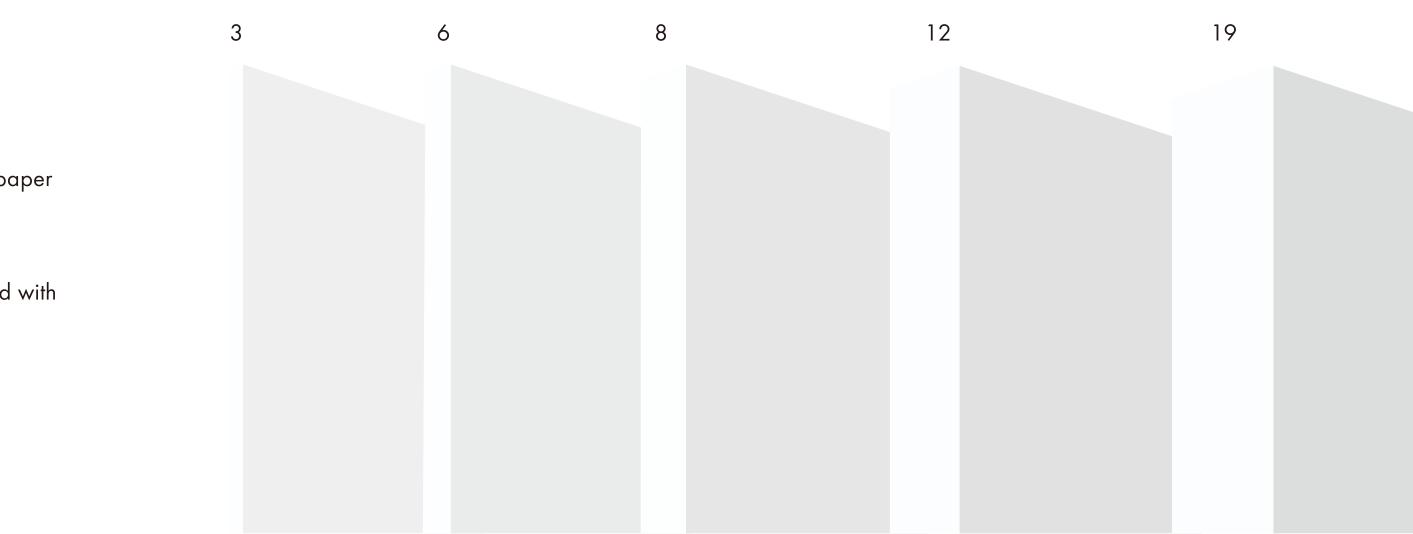
## I Specification

### I Structure

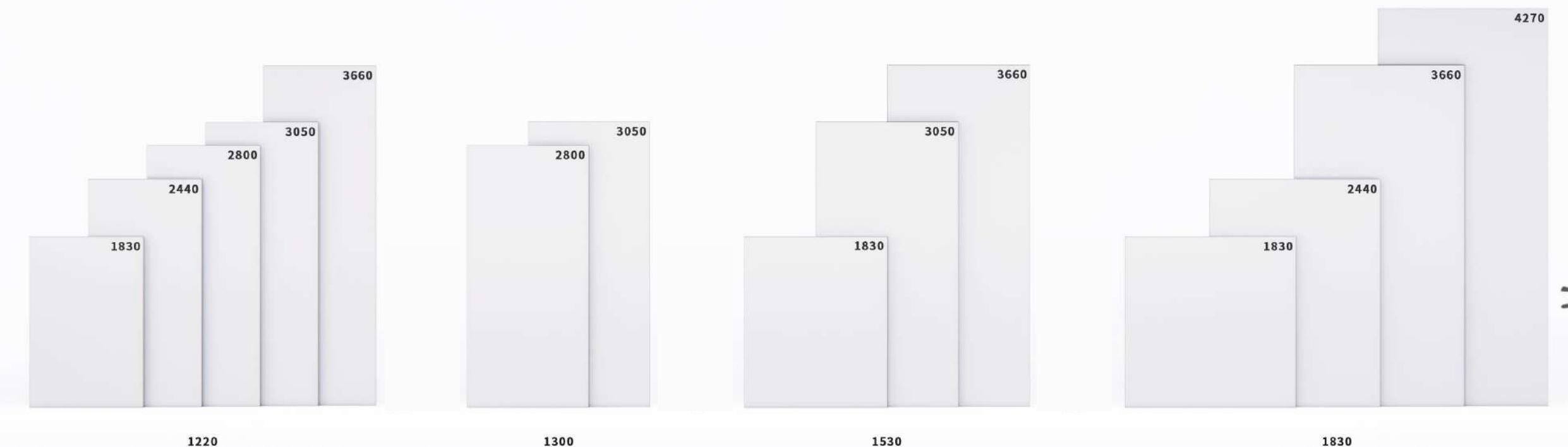


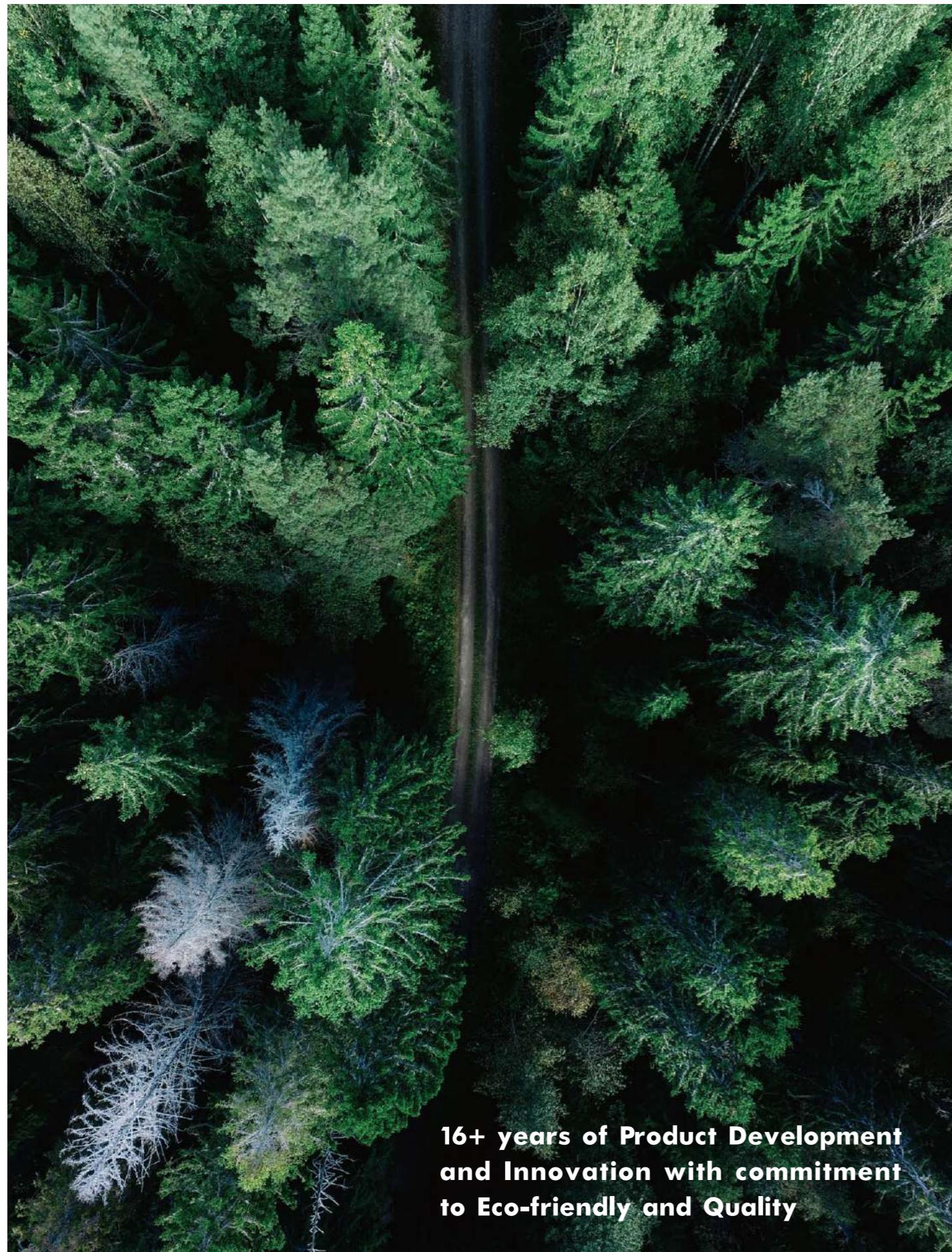
### I Thickness

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



### I Size





# I Technical Data

Properties	Value	Unit	Standard
<b>Specification, Dimensional Tolerances</b>			
<b>Thickness (mm/max)</b>	2.0 $\leq t < 3.0\text{mm}$ : $\pm 0.20\text{ mm}$ 5.0 $\leq t < 8.0\text{mm}$ : $\pm 0.40\text{mm}$ 12.0 $\leq t < 16.0\text{mm}$ : $\pm 0.60\text{mm}$ 20.0 $\leq t < 25.0\text{mm}$ : $\pm 0.80\text{mm}$	3.0 $\leq t < 5.0\text{mm}$ : $\pm 0.30\text{mm}$ 8.0 $\leq t < 12.0\text{mm}$ : $\pm 0.50\text{mm}$ 16.0 $\leq t < 20.0\text{mm}$ : $\pm 0.70\text{mm}$ 25.0mm $\leq t$ : to be agreed between supplier and customer. (T=nominal thickness)	Test method (EN 438-2:2005 Clause no.5)
<b>Flatness (mm/m&lt;max&gt;)</b>			
	2.0 $\leq t < 6.0\text{mm}$ 8.0mm/m 10.0mm $\leq t < 3.0\text{mm}$ /m (T=nominal thickness)	6.0 $\leq t < 10.0\text{mm}$ 5.0mm/m	Test method (EN 438-2:2005 Clause no.9)
<b>Physical Properties</b>			
<b>Density weight</b>	$\geq 1350$	kg/m <sup>3</sup>	ISO 1183
>Thickness 6mm	8.7	kg/m <sup>2</sup>	ISO 1183
>Thickness 8mm	11.6	kg/m <sup>2</sup>	ISO 1183
>Thickness 10mm	14.5	kg/m <sup>2</sup>	ISO 1183
>Thickness 12mm	17.5	kg/m <sup>2</sup>	ISO 1183
<b>Optical Properties</b>			
<b>Immersion in boiling water (100 °C water for 2 hours)</b>			
>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/(mk)	EN 438-2
<b>Mechanical Properties</b>			
<b>Modulus of elasticity</b>	>10000	Mpa	ISO 178
<b>Flexural strength</b>	$\geq 100$	Mpa	ISO 178
<b>Tensile strength</b>	$\geq 70$	Mpa	ISO 527-2
<b>Scratch resistance</b>	$\geq 3$	Rating	EN 438-2
<b>Resistance to crazing</b>	$\geq 4$	Rating	EN 428-2
<b>Face screw-holding</b>	>5000	N	ISO 13894-1:2000
<b>Water vapour permeability</b>	Wet cup:110,dry cup:250	$\mu$	ISO 12572
<b>Resistance to cigarette burns</b>	$\geq 3$	Rating	EN 438-2
<b>Abrasion Testing</b>	144.5	mg	EN 438-2:10
<b>Impact Resistance</b>	90.4J	MBFE	ASTMD 256-06a
<b>Linear expansion with change in moisture content</b>	0.0065%	/	ASTMD 1307-06a section 24
<b>Safe Properties</b>			
<b>Reaction to fire (on request)</b>	Type FR=12mm Euroclass B-s1,d0		EN 13501-1
<b>Release of formaldehyde</b>	Class E1		EN 717-1
<b>Factory Production Control (FPC)</b>	ISO 9001 / ISO 14004 / OHSAS 18000		

# | Future Ahead



Performance Plate , Beyond Decoration

Since establishment in 2004, DEBO® (DEcorative BOards) has been keeping innovating for more than 16 years. From the initial use of "High Pressure Laminate" (HPL) to make furniture, to the earliest utilizing of "Compact HPL" for building structure and decorative surface design; From the first development of "Compact fiberboard" and definition of the quality standard, to the fastest promotion of the innovative application all over the world; From the first research on the technical performance and production process of "CleanTop® Anti-fingerprint", to the development of the latest application for residential and public spaces; DEBO® had experienced step-by-step enterprise transformation, product iteration and process reengineering. Looking to the future, DEBO® will continue to lead the market with innovation, keep up with the pace of the times and encouraged to move forward.