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VANMSI

CLASS A FR METAL LAMINATED PANEL  
梵美思A级防火金属覆膜板

2024  
-  
2025



# VANMSI

梵美思A级防火金属覆膜板

CLASS A FR  
METAL  
LAMINATED PANEL

-  
Color Chart 2024/2025



# CLASS A FR METAL LAMINATED PANEL

梵美思A级防火  
金属覆膜板

梵美思将建筑装饰膜创新技术应用在装饰行业的各类项目，更好地满足市场对高品质日益增长的需求，进一步为建筑装饰提供了全新高科技、高品质的表面材料的新选择。

Vanmsi has applied innovative technology for architectural decorative films to various projects in the decoration industry, better meeting the growing demand for high-quality products in the market, and further providing a new choice of high-tech and high-quality surface materials for architectural decoration.

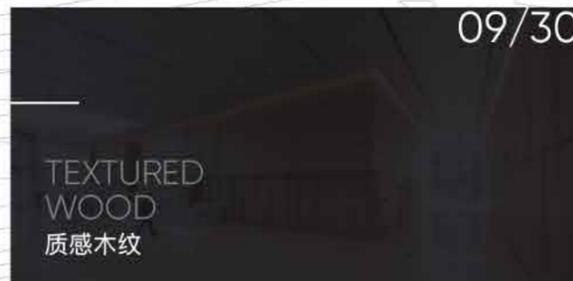
# WOM



VANMSI  
CLASS A  
FR  
METAL  
LAMINATED  
PANEL



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# Class A FR METAL LAMINATE PANEL

## 梵美思A级防火 金属覆膜板

梵美思A级防火金属覆膜板与专用安装结构为一体，具有环保、防火、易安装、不怕受潮等特点。产品适合应用于办公楼、商场、医院、酒店等大型公共建筑中。

Vanmsi Class A FR metal laminated panel combines aluminium composite panel and special installation structure. It has the characteristics of environmental protection, fire resistance, easy installation and moisture proof. The products are suitable for large public buildings such as office buildings, shopping malls, hospitals and hotels.



# VANMSI CLASS A FR METAL LAMINATED PANEL

梵美思A级防火  
金属覆膜板

## PRODUCT ADVANTAGES

### 产品优势

#### 系统化·模块化安装

Systematic and Modular  
Installation

为了适应各种装修需求，覆膜金属复合板可以折出弧型和球面等各种复杂的几何形状，呈现出别开生面的视觉效果。实现室内墙板安装的系统化、模块化，安装简便、快速。

In order to meet various decoration needs, laminated metal composite panel can be folded into various complex geometric shapes such as arcs and spheres, presenting a unique visual effect. Realize systematic and modular installation of indoor wall panels, making installation simple and fast.

#### 颜色丰富·纹理自然

Rich Colors and Natural  
Textures

覆膜金属复合板是一种颜色丰富的饰面材料，常规色140多种，色库共800多种颜色，包含木纹、石纹、皮纹、纯色等多种自然纹理。

Laminated metal composite panel is a colorful decorative material with over 140 conventional colors and a total of over 800 colors in the color library, including various natural textures such as wood grain, stone grain, leather grain, and solid color.

#### 花纹可定制

Customizable  
Patterns

花纹可个性定制，为您量身打造一种与您格调相一致的完美装饰。

The pattern can be customized to create a perfect decoration that matches your style.

## 梵美思A级防火 金属覆膜板

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www.feitengacp.com

## PRODUCT FEATURES

### 产品特点

#### 不燃性 Fire-Resistance

梵美思A级防火金属覆膜板拥有良好的阻燃性能，客户通常选择B1级防火性能，飞腾最高可达到A级。

Vanmsi Class A FR Metal Laminated Panel has good performance of fire resistant. In our quality control system, we always insist on implementing high standards of production testing. B1 Grade product would be regular choice of clients, and we could reach Class A at the highest.

#### 抗污性 Anti-Fouling

产品表面具有抗污、耐脏、易清洁的特性。

The surface of the product is anti-fouling, dirty free and easy to clean.

#### 无污染 Pollution-Free

产品通过国家环保认证，0甲醛挥发，安装过程中无需使用任何胶水，绿色环保无污染。测试结果达到E0级国际健康标准。

The product has passed the national environmental protection certification, 0 formaldehyde volatilization, no any glue when installation, green and pollution-free. The test results meet the E0 international health standard.

#### 抗菌性 Antimicrobial

板面具有抗菌功能，保持了面板的清洁性。产品适用于医疗及餐饮行业。

The film has anti-bacterial function and keeps the panel clean. The products are suitable for medical and catering industries.

#### 抗刮性 Scratch Resistance

膜表面有硬质成分，能够保护表面免受擦伤，抗刮性能比烤漆面材料优30%以上。

The surface of the film has hard components, which can protect the surface from scratch. The scratch resistance of the film is better than that of the coated paint material by more than 30%.

#### 耐候、耐潮 Weatherability & Moisture Proof

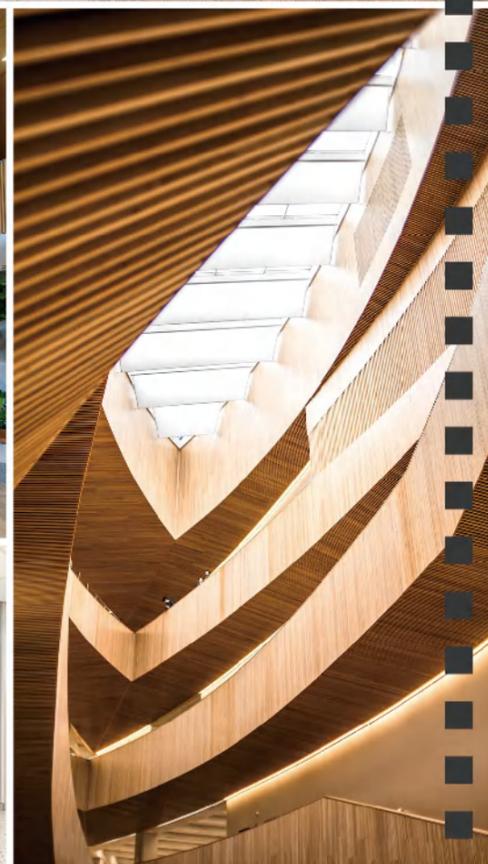
产品耐候、耐酸碱，具有防潮性能。

The product is weatherproof, acid and alkali resistant, and has moisture-proof property.

#### 易安装 Easy to Install

具有良好的加工性能，开槽、折边、弯弧，并开发专用的镶拼安装系统，操作简便、安装快捷。比传统墙面安装节省50%的工时。

It has good processing performance such as slotting, edge folding and arc bending, and has a special mosaic installation system, which is easy to operate and fast to install. It saves 50% of the working hours compared with traditional wall installation.



## SOLUTIONS FOR PRODUCTS IN BUILDING SYSTEMS

### 产品在建筑系统的解决方案

随着人们对建筑审美要求的提高，人们对建筑物色彩的要求越来越高。目前传统喷涂工艺和热转印方法都无法从根本上解决型材表面的色差、抗刮、耐候性等问题。

覆膜型材作为目前型材的主流表面处理方式，其良好的化学稳定性和耐久性，被广泛应用于商业建筑空间，从力学的角度上来具有极强的抗拉强度，抗撕裂强度，还具有耐热性、耐久性、和防火性。

With the improvement of people's aesthetic requirements for architecture, people's requirements for building color are becoming higher and higher. At present, traditional spraying processes and heat transfer printing methods cannot fundamentally solve the problems of color difference, scratch resistance, and weather resistance on the surface of profiles.

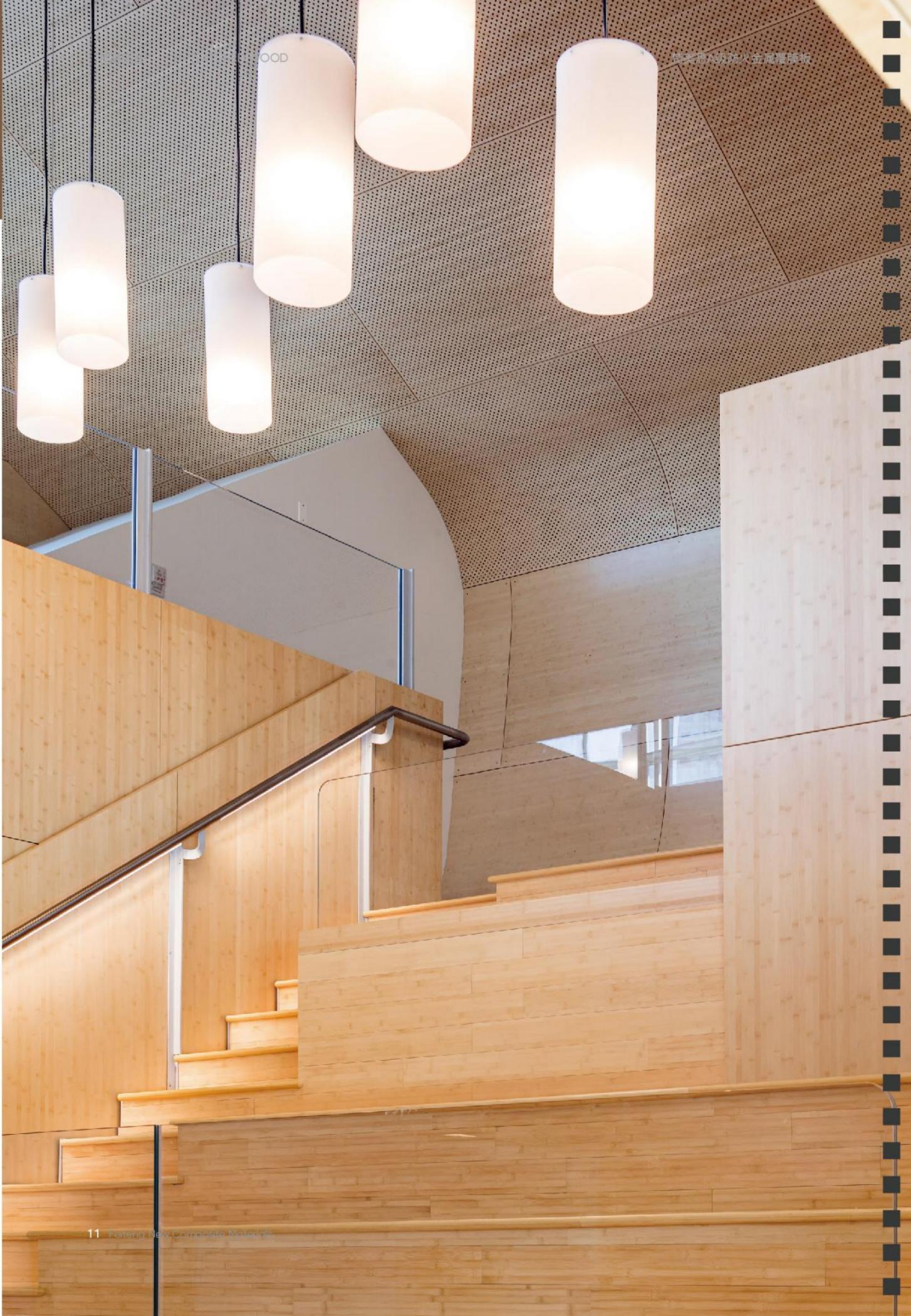
As the mainstream surface treatment method for current profiles, laminated profiles have good chemical stability and durability, and are widely used in commercial building spaces. From a mechanical perspective, they have extremely strong tensile strength, tear resistance, heat resistance, durability, and fire resistance.



## TEXTURED WOOD 质感木纹

在有机设计和乐活潮流下，不断推陈出新，表面质感及纹路不断演变，充满新意与时尚风潮，更是室内设计中最美的风景。

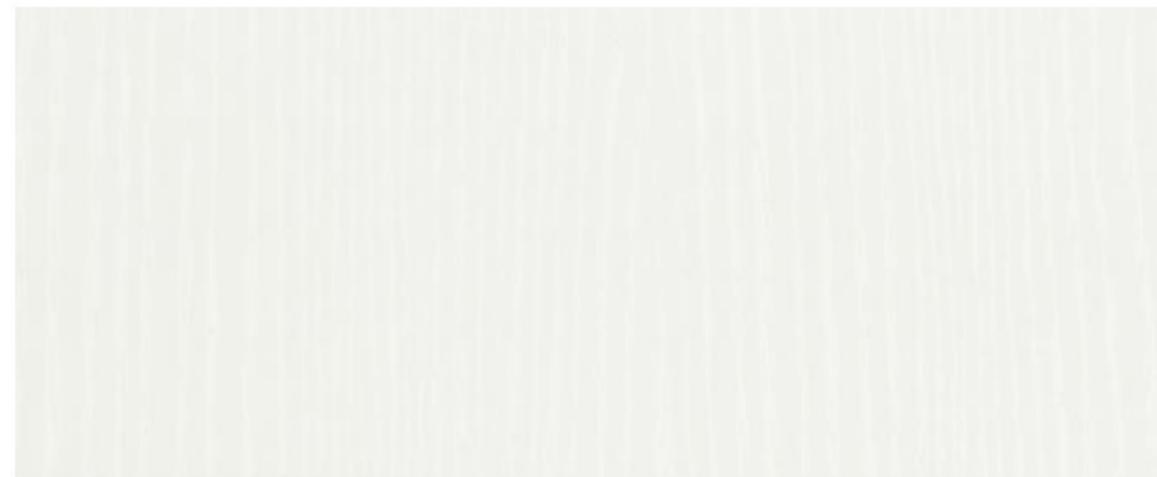
Under the trend of organic design and LOHAS, it is constantly innovating, the surface texture and texture are constantly evolving, full of new ideas and fashion trends, and it is the most beautiful scenery in interior design.



Vanmsi Class A FR Metal Laminated Panel

TEXTURED WOOD

质感木纹



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FT-2102



FT-2103



FT-2104



FT-2105



FT-2106





FT-2107



FT-2108



FT-2109



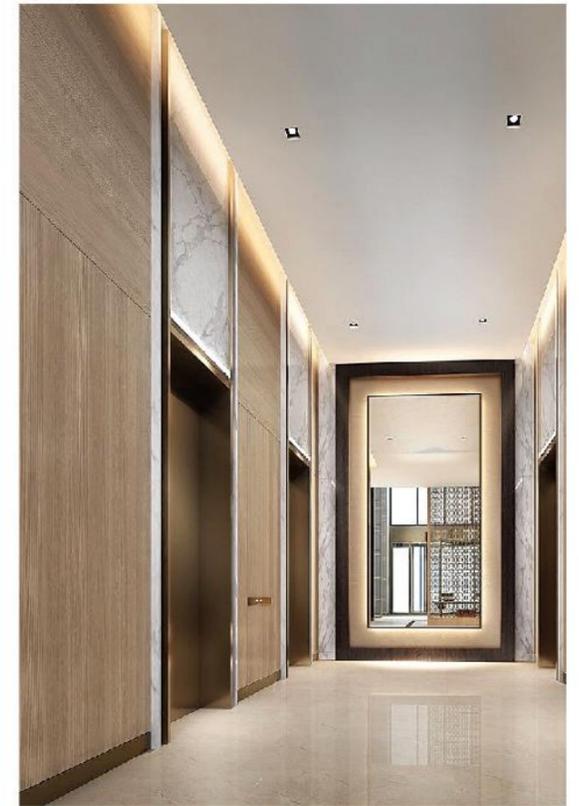
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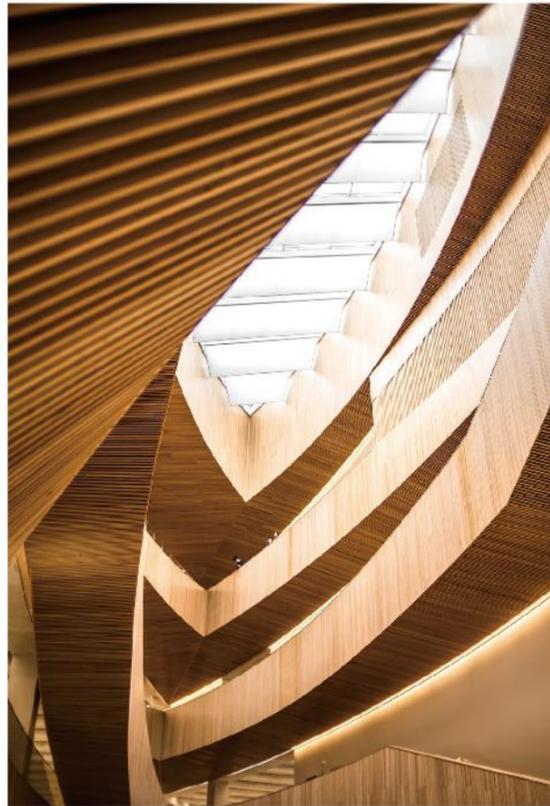


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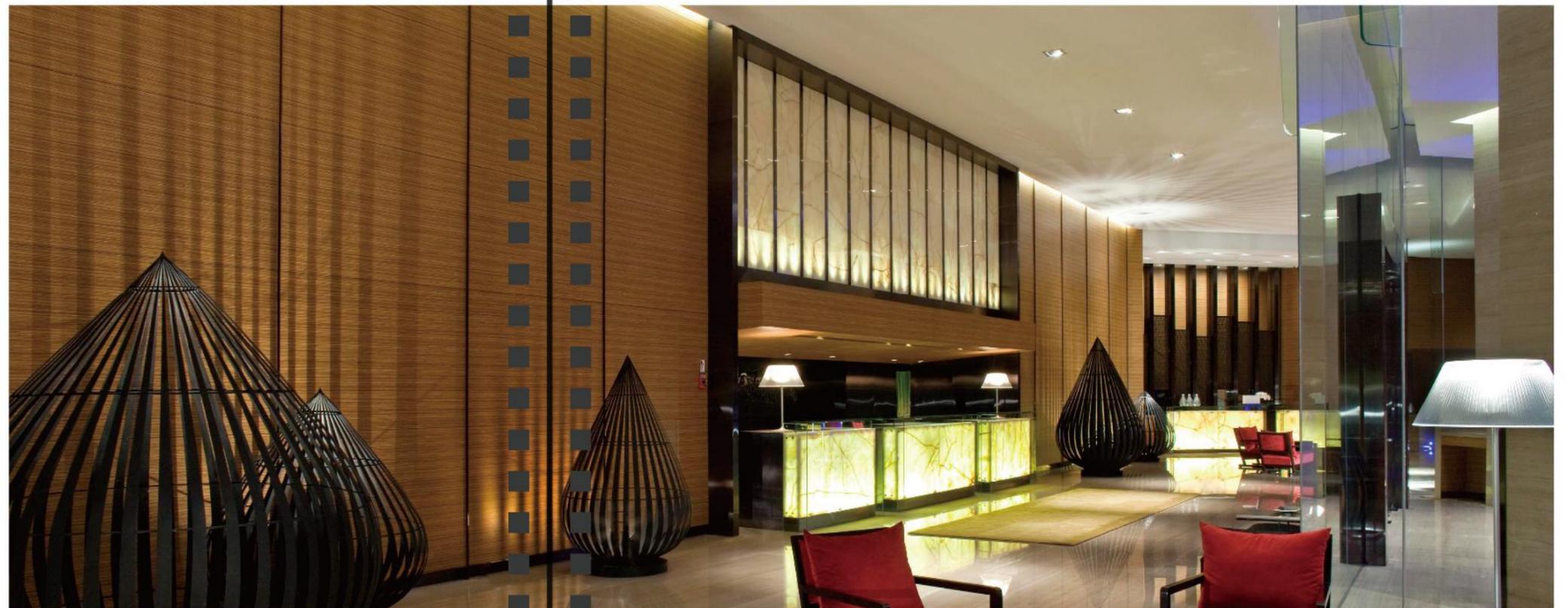
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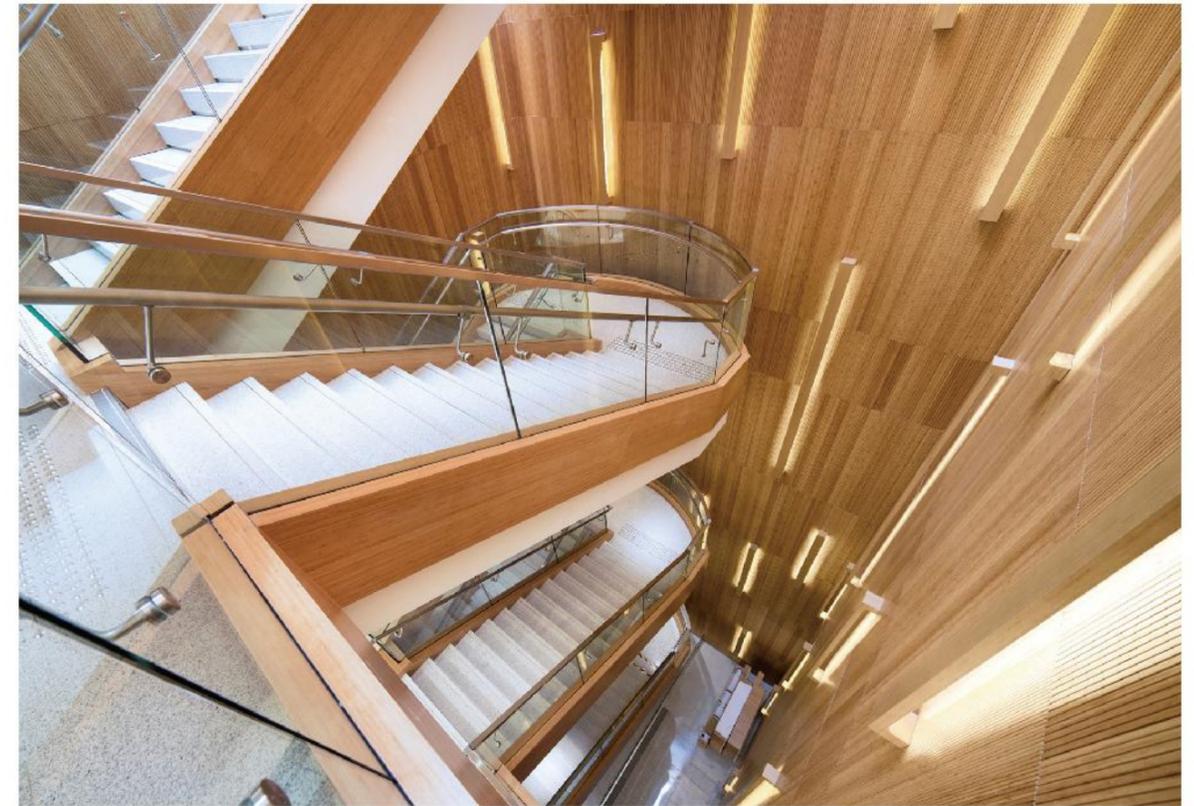
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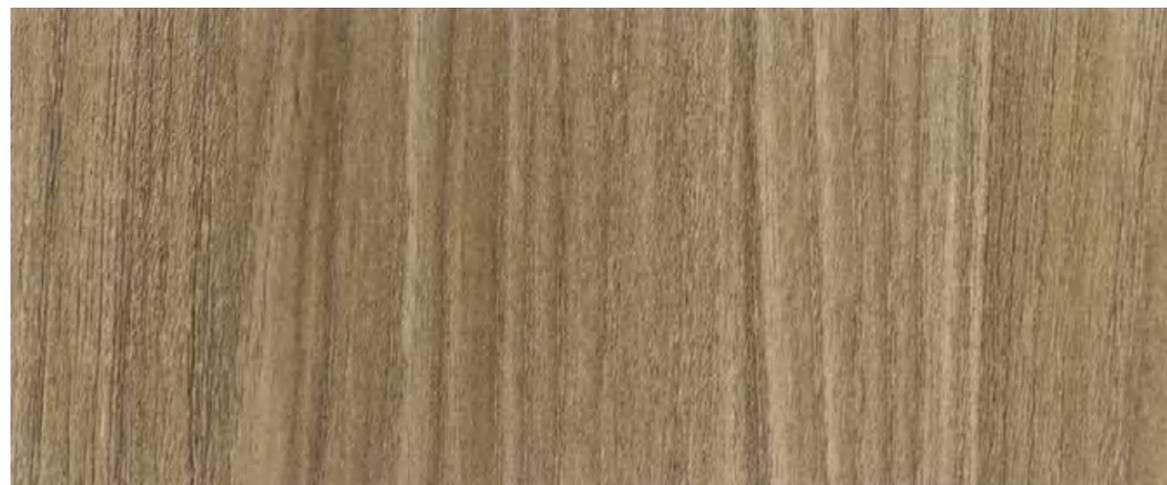
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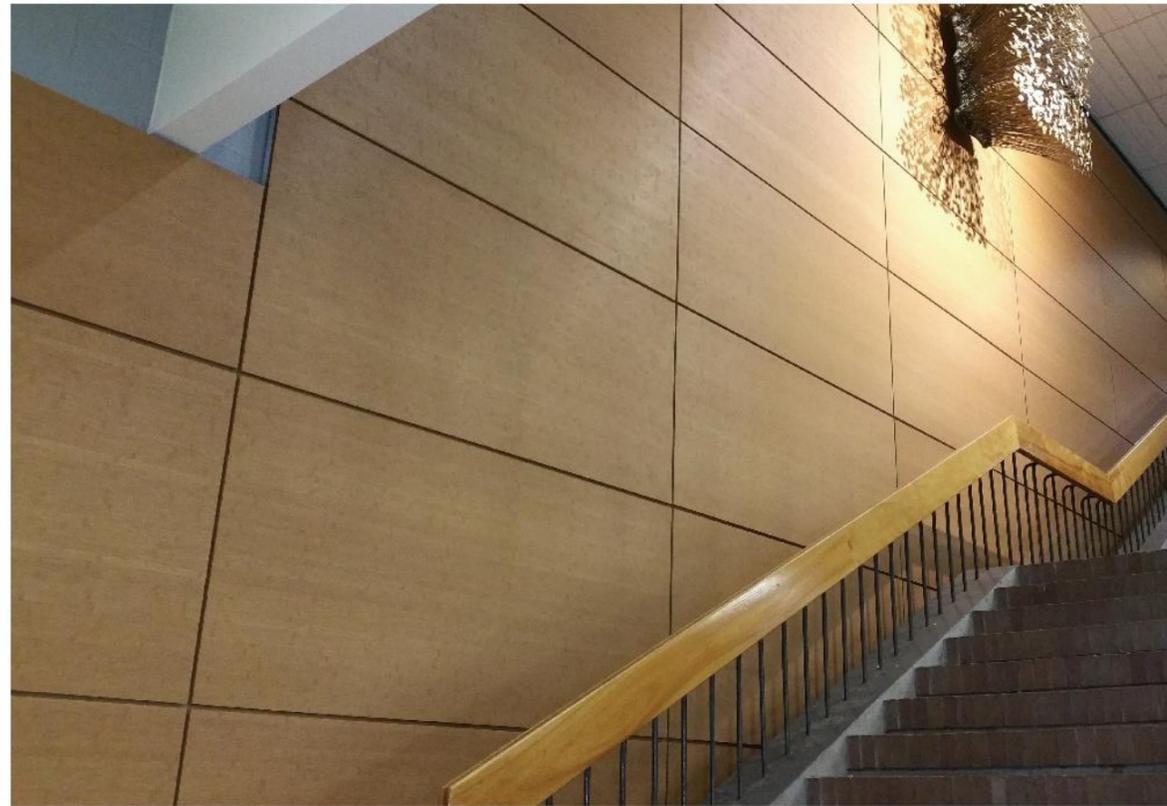




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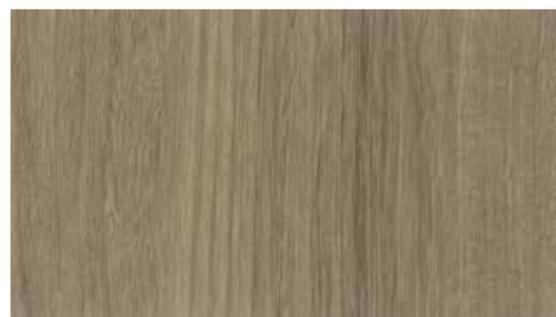
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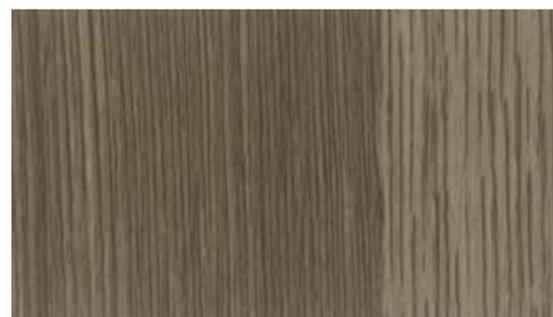
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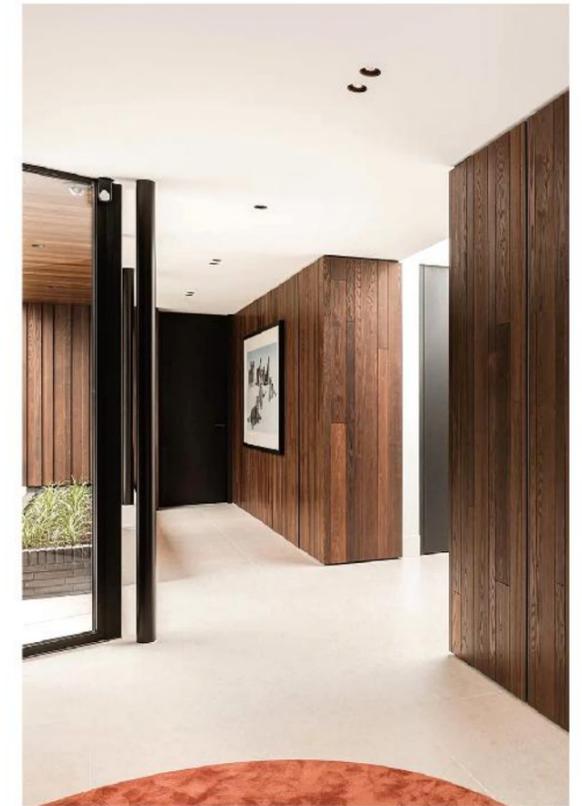
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FT-2150



ELEGANT  
STONE  
典雅石纹

源于天然石材，激发设计灵感，自然流畅的纹理以及矿物质细节使得装饰面的表现力从未如此逼真。  
The inspiration for design comes from natural stone. The natural fluent texture and mineral details make the expression of decorative surface more realistic than ever before.

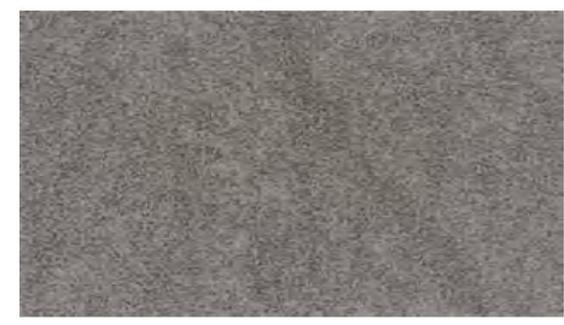
范美斯 A级防火金属覆膜板

Vanmsi Class A FR Metal Laminated Panel

ELEGANT STONE 典雅石纹



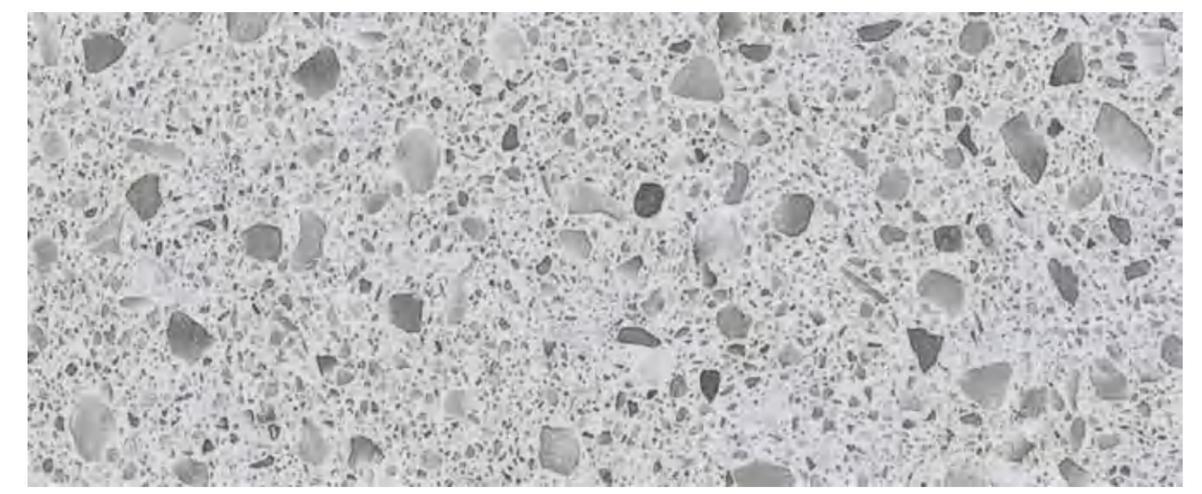
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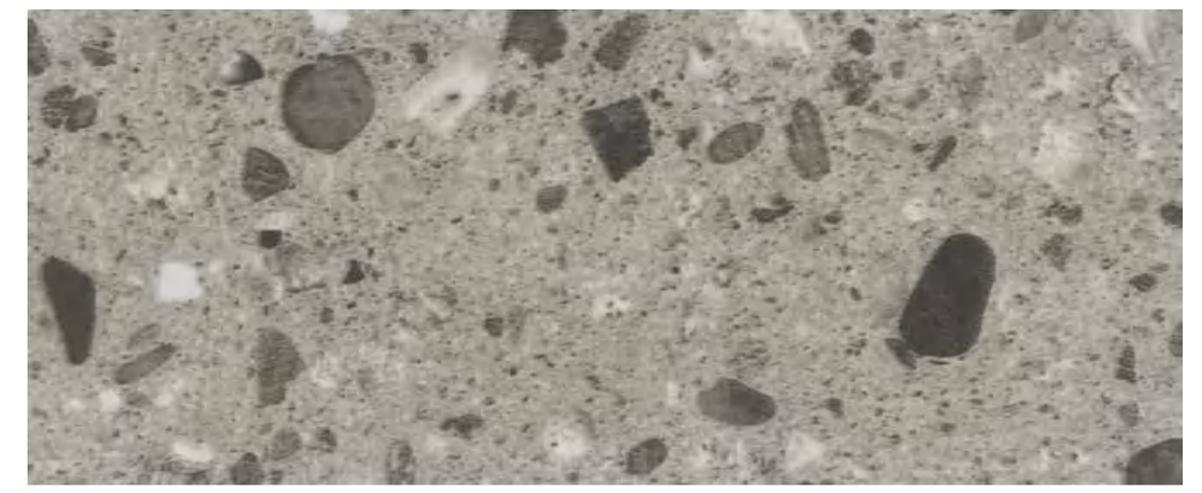
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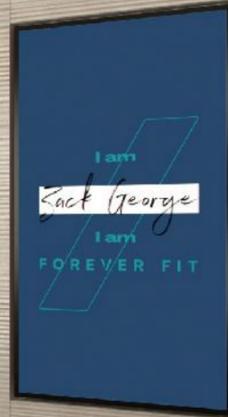


FT-2205

# ARTISTIC FABRIC 艺术布纹

灵感来自于纺织品，为金属表面赋予了全新视觉与触感体验，素雅之中扑面而来的自然感。

Inspiration comes from textiles, which endows the metal surface with a new visual and tactile experience, and a natural feeling coming from elegance.



FT-2301



FT-2302



FT-2303



FT-2304



FT-2305

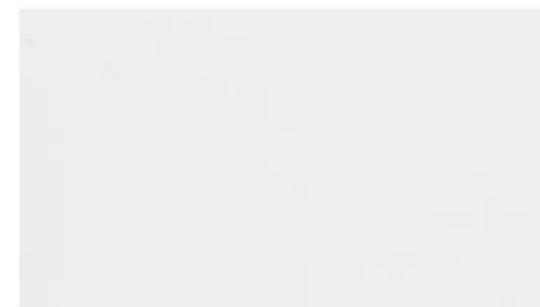
纯色系列 / PURE COLOR

纯色系列 / PURE COLOR

# PURE COLOR 纯色系列

以独特的色彩和材质的碰撞，演绎空间无穷魅力，带来生活方式的全面革新，创造出惊艳的艺术效果。

By combining unique colors and materials, the infinite charm of space is demonstrated, leading to a comprehensive transformation of lifestyle and creating stunning artistic effects.



FT-2401



FT-2402



FT-2403



FT-2404



FT-2405

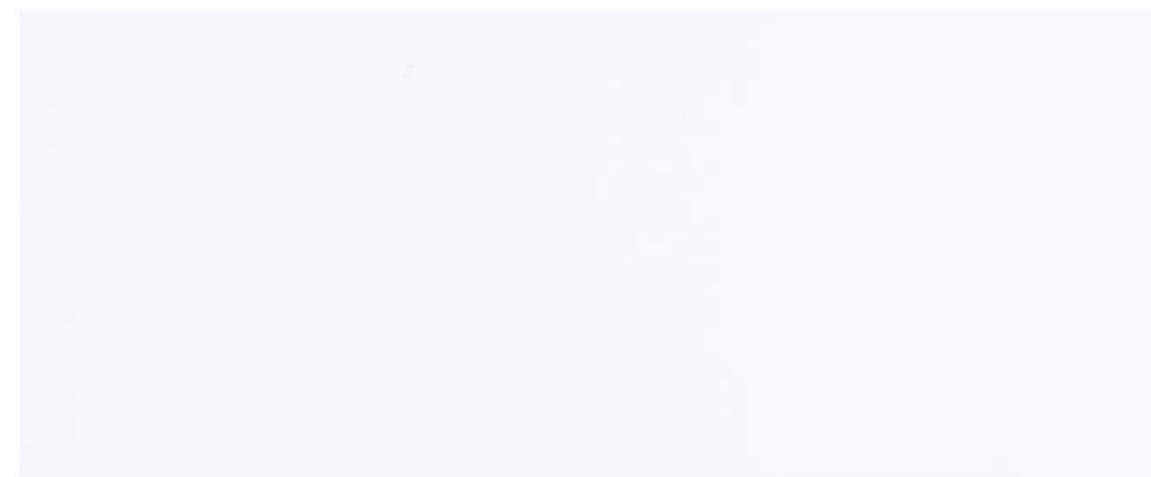


FT-2406

# HIGH GLOSS 高光系列

拥有完整的色相，宽广的明度与彩度，如同室内设计师专业调色盘，可创作出成千上万种组合，创意无界限。

With a complete hue, wide lightness and chroma, just like the professional palette of interior designers, you can create thousands of combinations with no color limit for creativity.



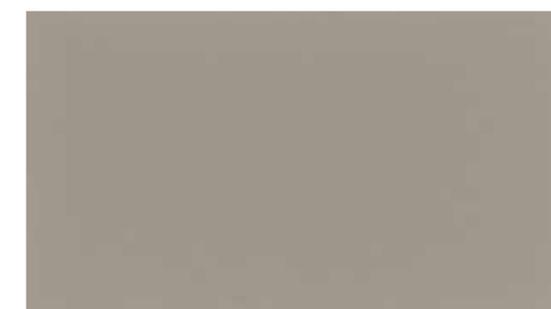
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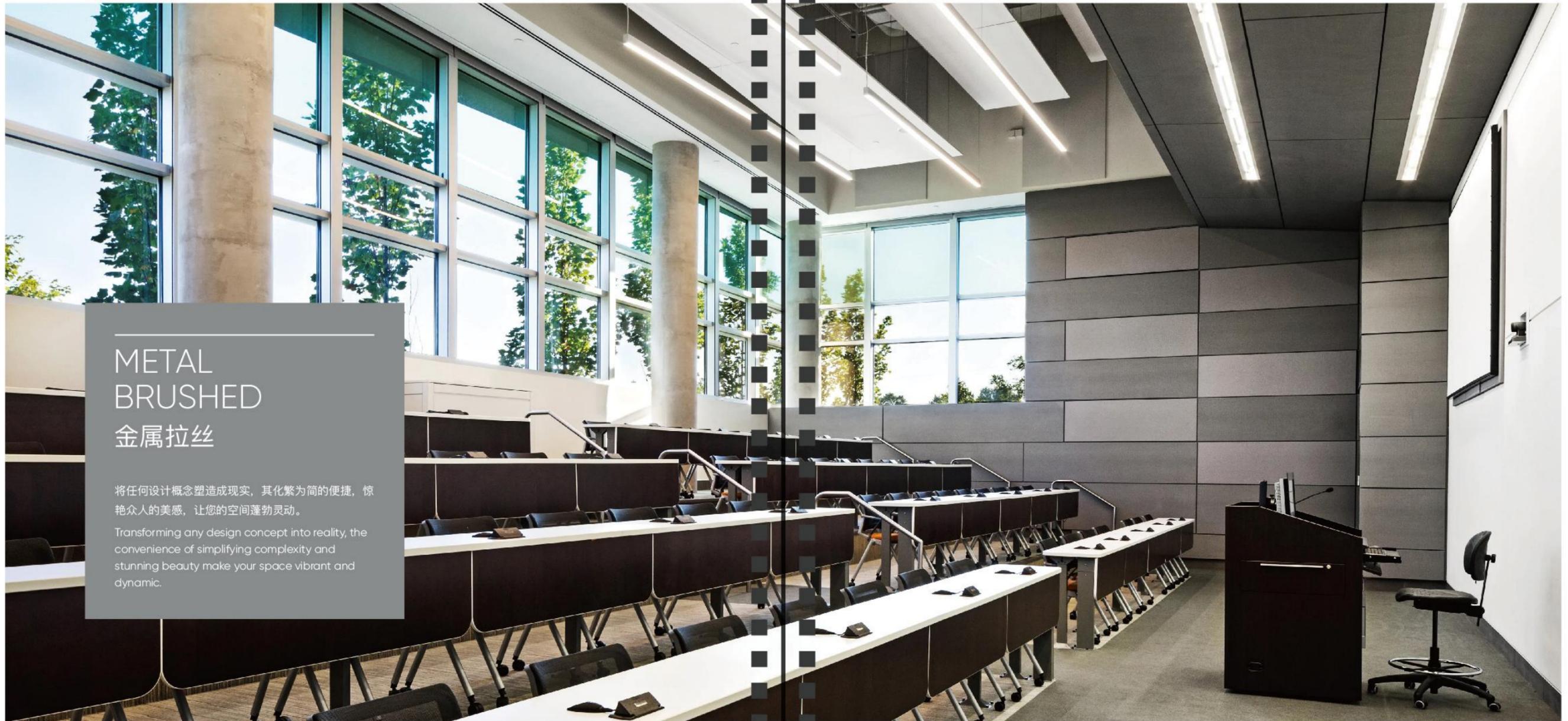
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FT-2504



METAL  
BRUSHED  
金属拉丝

将任何设计概念塑造成现实，其化繁为简的便捷，惊艳众人的美感，让您的空间蓬勃灵动。  
Transforming any design concept into reality, the convenience of simplifying complexity and stunning beauty make your space vibrant and dynamic.



FT-2601



FT-2602



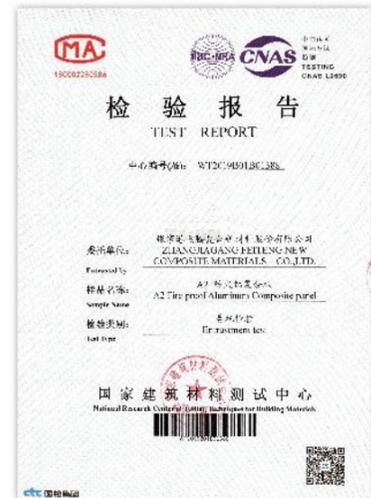
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# TEST REPORT

## 测试报告



# PRODUCT PERFORMANCE

## 产品性能

### 金属覆膜板表面技术参数和物理性能 Metal Laminate Panel Technical Data and Physical Property

检验项目 Test Item	检验方法 Test Methods	检验结果 Test Results
耐候性 Weatherability	用日光式碳弧灯耐候试验机照射2000小时。 The weathering test machine of solar carbon arc lamp was used to irradiate for 2000 hours.	无显著变化 No significant change
耐热性 Heat resistance	放置于60°C±5°C的烘箱内48小时。 Place in an oven at 60°C±5°C for 48 hours.	无显著变化 No significant change
花纹牢度 Pattern fastness	放置于100°C±5°C的甘油水溶液浸泡30秒后洗涤、烘干。 Washed and dried it after soaking in glycerol aqueous solution at 100°C±5°C for 30 seconds	无显著花纹消失 No significant pattern disappeared
耐水性 Anti-water performance	用常温水浸泡24小时后烘干。 Soak in room temperature water for 24 hours and then dry.	无显著变化 No significant change
耐湿度性 Humidity resistance	放置于40°C±2°C、90±2%RH的恒温恒湿试验箱内48小时。 Place it in a constant temperature and humidity test box of 40°C±2°C, 90±2% RH for 48 hours.	无显著变化 No significant change
冷热循环 Thermal cycling	将150*150mm的样品放置于60°C±3°C的烘箱内2小时后，再放置于-20°C±3°C的低温试验箱内2小时，重复2次。 The 150*150mm sample was placed in an oven at 60°C±3°C for 2 hours, then place it in a low temperature test box at -20°C±3°C for 2 hours and repeat it twice.	无显著变化 No significant change
耐化学性 Chemical resistance	涂上2%的氢氧化钠、5%的醋酸水溶液、石油醚放置6小时后擦拭。 Apply 2% sodium hydroxide, 5% acid aqueous or petroleum ether for six hours, and there is no change when wiping it.	无显著污染 No significant pollution
耐污性1 Pollution resistance 1	涂上各种洗涤剂（弱碱性、中性、弱酸性）、杀虫剂、煤油后放置6小时后擦拭。 Apply various detergents (weak alkaline, neutral, weak acidic), insecticides, kerosene and put them in place for 6 hours before wiping.	无显著污染 No significant pollution
耐污性2 Pollution resistance 2	用记号笔、蜡笔各画一条10mm宽的线，放置2小时后用溶剂擦拭。（不包括导管的着色） Draw a 10mm wide line with marker and crayon, and wipe it with solvent after 2 hours. (excluding pigmentation of catheter)	无显著污染 No significant pollution
溶剂摩擦 Solvent friction	用浸泡石油醚、漆稀剂、95%的乙醇脱脂棉揉搓10次。 Rub 10 times with soaked petroleum ether, paint thinner and 95% ethanol degreased cotton.	无显著变化 No significant change
耐磨性 Wear resistance	用TAPER耐磨试验机测试120*120mm样品，获得图案消失达到50%的旋转值。 Testing 120*120mm samples with TAPER wear tester, the rotation value reaches 50% when pattern disappearance.	200次以上 Over 200 times

### 金属覆膜板物理性能 (GB/T22412-2016) Metal Laminate Panel Physical Property

检验项目 Test Item	标准要求 Standards	检验结果 Test Results
弯曲强度 Bending strength	≥50MPa	78MPa
弯曲弹性模量 Flexural modulus of elasticity	无 none	2.0×10 <sup>4</sup> MPa
贯穿阻力 Penetrating resistance	无 none	70KN
剪切强度 Shear strength	无 none	22MPa
180°剥离强度 180° peeling strength	平均值 Average≥5.0N/mm	6.8N/mm
耐温差性 Temperature resistance	无变化 no change	无变化 no change
热膨胀系数 Thermal expansion coefficient	无 none	2.1×10 <sup>-5</sup> /°C
热变形温度 Deformation temperature	≥85°C	101°C

# PROCESSING MAINTENANCE

## 加工维护

### 现场加工 On-site Processing

1. 本产品可以进行锯削、剪切、刨边、铆接、开槽、外弯曲加工。采用锯削加工时，需对板边缘毛边进行清理，确保各边部无毛刺、褶皱，可采用木工刨进行清理。
2. 开槽应用平头V形刀具，槽底宽1.5-3毫米，刀刃必须锋利，转速：2000-3000转/分，进刀3-5米/分，以免开槽时温度过高熔化粘接剂引起铝板剥离；开槽最低点与面铝板间应保留0.1-0.3毫米厚度的PE芯材。开背中心线离梵美思A级防火金属覆膜板边缘应大于30毫米。
3. 折边时需用力均匀，一次成型。不要用力过急，不要反复弯折。安装前应先将领材边上的保护膜撕开一部分，勿将保护膜塞入型材中。
4. 用于弧面加工时，应使用弯曲设备加工，徐徐用力使梵美思A级防火金属覆膜板正面弯曲逐步达到所需的曲面，曲率半径不应小于300mm。
5. 施工完毕前，请勿将保护膜撕去，以免刮伤表面，施工完毕后，应在45天内撕下保护膜。
6. 采用安装系统安装时，需内衬相应尺寸的骨架作为背板加强，加强筋最小设置尺寸应不大于600mm\*600mm。

1. This product can be sawed, sheared, edged, riveted, grooved, external bending processing. When sawing, it is necessary to clean the edges of the panel to ensure that there are no burrs and wrinkles on the edges. Woodworking planes can be used to clean up the edges.
2. Slotting with flat-head V-shaped cutter, the width of groove bottom is 1.5-3mm, and the blade must be sharp. Rotation speed: 2000-3000rpm, feed at 3-5m/min, so as to avoid delamination aluminium plate caused by excessive melting adhesives when grooving. PE core with thickness of 0.1-0.3mm should be retained between the lowest point of grooving and the surface aluminium plate. The center line of the open back should be more than 30mm from the edge of the Vanmsi Class A FR Metal Laminated Panel.
3. When folding, the force should be uniform at one time. Do not overexert, don't bend over and over again. Before installation, the protective film on the edge of the panel should be torn apart, and the protective film should not be stuffed into the profile.
4. Bending equipment should be used to process the arc surface. The front bending of the Vanmsi Class A FR Metal Laminated Panel should be gradually achieved to the required surface with a curvature radius not less than 300mm.
5. Do not remove the protective film before the completion of construction, so as not to scratch the surface. After the completion of construction, the protective film should be remove within 45 days.
6. When installation system apply, the backplane should be strengthened by the skeleton with the corresponding size of lining, and the minimum setting size of reinforcing bars should be no more than 600mm\*600mm.

### 施工环境 Construction Environment

本产品不适合在高温（60℃以上）、高盐雾、高酸碱度及高污染等地区环境下施工作业。由于化学剂，加工，安装过程中操作不当等引起的损伤或由于不可抗力因素包括火灾、爆炸、运输及自然灾害等引起货物损失，不在质保范围之内。

This product is not suitable for construction work in high temperature (above 60°C), high salt spray, high PH and high pollution. Damage caused by chemical agents, processing, improper operation during installation, or damage caused by force majeure factors including fire, explosion, transportation, and natural disasters, is not covered by the warranty.

### 清洁维护 Cleaning & Maintenance

1. 不要用强烈的有机溶剂，如MEK、MIEK三氯乙烯和油漆稀释剂等。不要用较强的碱、酸和腐蚀性的清洁剂。清洗宜采用中性类清洁剂清洗，最后用大量清水冲洗板面，不能留有清洗剂。
2. 不要将不同的清洁剂混合在一起，通常含研磨材料的清洁剂不能使用，不要将清洁剂混合，不要过度的擦洗，因为可能会改变表面的光泽。
3. 清洗时温度不要过高或过低，高温会加速化学物质的反应将水从溶液中蒸发出来，过低的温度使得清洁效果不是很好。相反，过高的温度会导致板面有斑纹或变形。确保清洁用的海绵和布中不含有亚麻，以免涂层表面刮花。

1. Do not use strong organic solvents such as MEK, MIEK trichloroethylene and paint thinner. Do not use strong alkali, acid and corrosive detergents. Cleaning should be done with a neutral detergent, and finally rinse the surface with plenty of water, leaving no cleaning agent.
2. Do not mix different detergents together. Generally, detergents containing abrasive materials should not be used. Do not mix detergents, do not over-scrub them, as they may change the gloss of the surface.
3. When cleaning, temperature should not too high or too low. The high temperature will accelerate the reaction of the chemical substance to evaporate the water from the solution. The low temperature makes the cleaning effect not very good. Conversely, too high a temperature can cause streaks or deformation on the board surface. Make sure that the sponge and cloth used for cleaning do not contain linen to avoid scratching the surface of the coating.