



超薄软石(柔性石材)

Flexible Stone (MCM Stone)



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定义

Definition

超薄软石由砂土、石粉、配方乳液构成，在曲线温度和光化异构条件下复合成具有腐蚀性、柔韧性、耐老性的超薄软石。并具有抑菌除菌、空气净化功能，最薄厚度:2-8mm，自重轻、易安装、可弯曲、延展性好、抗震防裂。

威洋超薄软石是一种融合科技与设计的创新型装饰材料，广泛应用于现代建筑和室内装饰中。相比传统石材，超薄软石重量更轻，施工更加便捷，尤其适用于复杂异型结构、曲面设计等传统石材难以覆盖的区域。威洋超薄软石柔性特质大幅降低了运输和安装过程中可能的损耗，提升了施工效率。还具备优异的环保、防火、防潮等性能，采用无毒无害的生产工艺，为绿色建筑提供更安全可靠的选择。

The Flexible Stone is composed of soil, stone powder, and formulated emulsion. Flexibility and aging resistance. it also has antibacterial and air purification functions, with a minimum thickness of 2-8mm. It is lightweight easy to install, flexible, has good ductility, and is earthquake resistant and crack resistant.

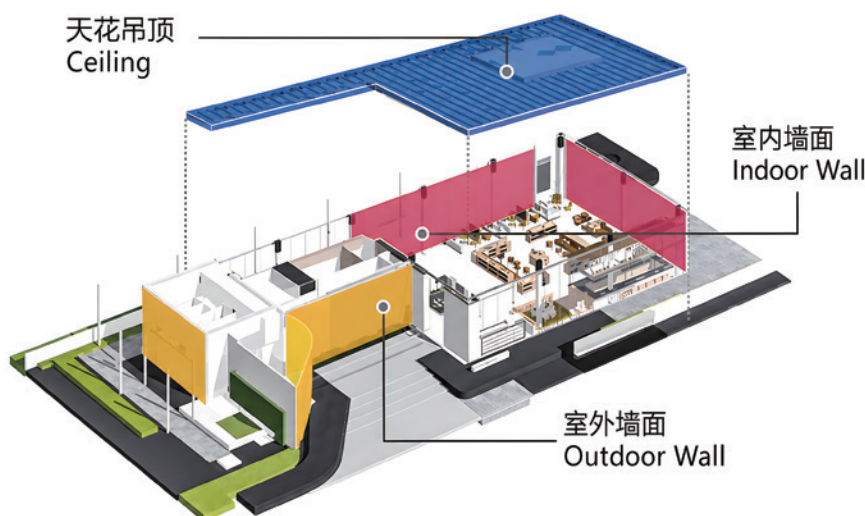
Wayon ultra-thin flexible stone is an innovative decorative material that combines technology and design. Compared with traditional stone, ultra-thin flexible stone is lighter and easier to install, especially suitable for complex irregular structures and curved designs that are difficult to cover with traditional stone. The flexibility of Wayon ultra-thin flexible stone significantly reduces potential damage during transportation and installation, improving construction efficiency. It also has excellent environmental protection, fire prevention, and moisture-proof properties. Using a non-toxic and harmless production process, it provides a safer and more reliable choice for green buildings.

适用领域

Application Fields

威洋超薄软石（柔性石材）广泛应用于建筑内外墙、酒店、商场、办公空间、住宅、学校、医院、地铁站、背景墙、门头、圆柱、弧形墙、天花、家具饰面、旧墙翻新及装配式建筑等场景。

Wayon Flexible Stone (MCM Stone) is widely used for interior and exterior walls, hotels, shopping malls, offices, residences, schools, hospitals, metro stations, feature walls, entrances, columns, curved walls, ceilings, furniture surfaces, renovation and prefabricated buildings.



威洋超薄软石（柔性石材）全自动化生产基地 Wayon Flexible Stone (MCM Stone) Fully Automated Production Base

基地全线搭载原装进口高端辊道窑炉，配备分段式智能温控系统，实现烧成温度精准控制在 $\pm 1^{\circ}\text{C}$ 以内，板材密度均匀性达98%以上。产品经冷热循环测试多次，无开裂、无翘曲，耐候性强，全面适配海内外高温、严寒及高湿户外工况。

威洋超薄软石（柔性石材）模具皆为自主研发，并直接采用意大利进口高端大理石原石进行纹理取样，经多次优化迭代，确保肌理细腻度与光影层次达到最佳状态。依托精准恒温烧制与意式原创肌理算法，历经18道精制工序层层打磨，纹理还原度突破 99%，真实复刻天然奢石质感。

全自动化生产线稳定量产2–8mm超薄软石大板，常规量产规格包含1200×600mm、1200×2400mm、1200×3000mm；非常规尺寸、特殊厚度均可支持来样定制。生产线可全天24小时不间断运转，充足硬件条件保障全球各类工程订单交付。

The entire production line is equipped with premium imported roller kilns and a multi-zone intelligent temperature control system, enabling precise control of the firing temperature within $\pm 1^{\circ}\text{C}$ and achieving over 98% uniformity in panel density. After repeated hot-and-cold cycle testing, the panels show no cracking or warping and offer excellent weather resistance, making them suitable for high-temperature, extremely cold, and high-humidity outdoor environments worldwide.

All molds for Wayon Flexible Stone (MCM Stone) are independently developed by Wayon. Surface textures are directly sampled from premium natural marble blocks imported from Italy and refined through multiple rounds of optimization to achieve exceptional texture detail and visual depth. Through precision-controlled firing, proprietary Italian-inspired texture technology, and 18 meticulous production processes, the products achieve over 99% texture reproduction, authentically replicating the appearance and texture of premium natural stone.

The fully automated production line enables stable mass production of Wayon Flexible Stone (MCM Stone) panels in thicknesses ranging from 2 to 8 mm. Standard sizes include 1200 × 600 mm, 1200 × 2400 mm, and 1200 × 3000 mm. Custom sizes and special thicknesses are also available based on customer samples or project requirements. Capable of operating continuously 24 hours a day, the production line provides strong manufacturing capacity to ensure reliable delivery for engineering and architectural projects worldwide.





可弯曲
Bendable



轻薄
Thin & Light

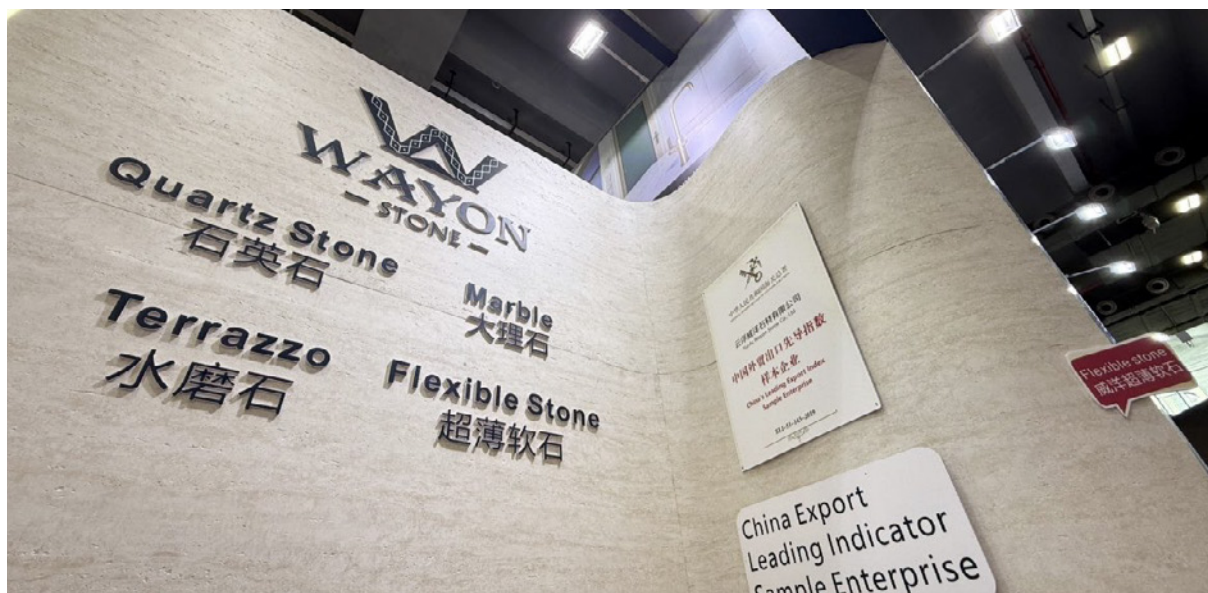


室内外可用
Outdoor & Indoor



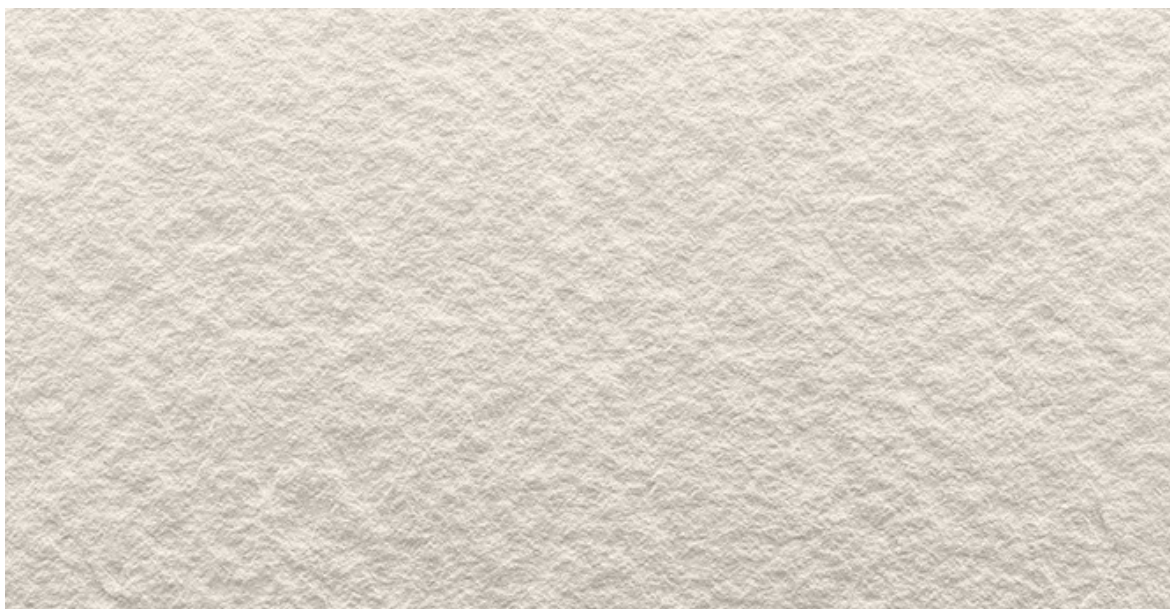
超薄软石产品特点——超轻薄

Flexible Stone Product Features – Ultra-Lightweight



平均厚度: 2-8mm, 减轻荷载。质地柔, 可曲、延展性好, 抗震防裂。可做异型构建, 如直接包裹圆柱等。

Average thickness: 2-8mm, reducing load. Soft texture, flexible, good extensibility, and seismic crack resistance. Suitable for forming irregular components, such as direct wrapping around cylinders.



MC402 毛面花岗岩 Honed Granite

任意弯曲



细纹细腻



仿石系列

Stone Mimic



MC301 洞石 Travertine



MC404 板岩 Slate



MC401 夯土墙 Rammed Wall



MC405 水泥板 Cement Board



MC501 星月石 Star Moon



MC502 斧开石 Axe Split



MC406 荔枝面 Litchi Surface



MC503 海洞石 Sea Travertine



MC510 板岩-瀑布石 Waterfall Slate



MC511 板岩-浆岩 Slate Lava



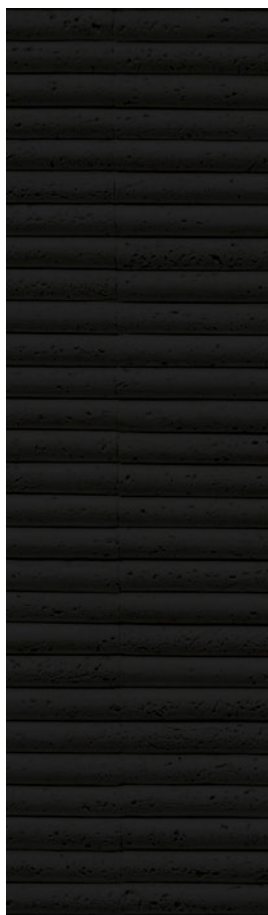
MC510 板岩-瀑布石 Waterfall Slate

线条板系列

Vein Flow



MC514 竹节洞石 Bamboo Travertine



线条板系列

Vein Flow



MC403 细布纹 Fine Cloth Grain



MC507 精品流水 Flowing Water



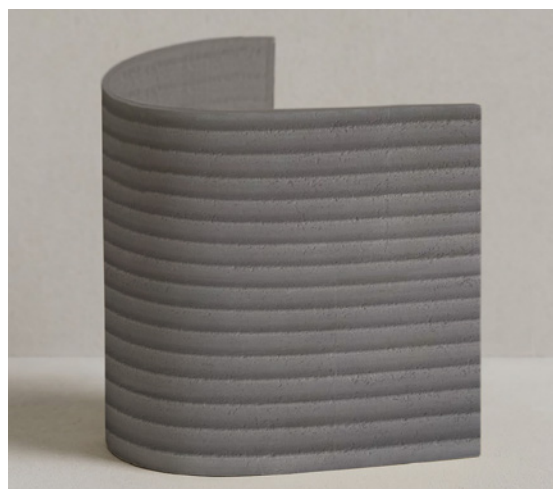
MC506 阡陌石 Field Stone



MC504 脉络石 Vein Stone



MC508 堆砌石 Stacked Stone



MC505 水波纹 Ripple

线条板系列

Vein Flow



MC601 宽线石 Wide Line Stone



MC512 星云石 Nebula Stone



MC513 阿曼线石 Oman Vein



MC407 新线石 New Line Stone



MC408 粗布纹 Coarse Cloth Grain





MC601 宽线石 Wide Line Stone



MC409 绳编 Rope Weave



MC410 松木纹 Pine Wood Grain



MC411 锯苔纹 Saw Moss Pattern



MC412 炭烧木 Charcoal Burnt Wood



MC509 洞石马赛克 Cave Stone Mosaic



MC801 竹纹 Bamboo Grain



MC411 锯苔纹 Saw Moss Pattern

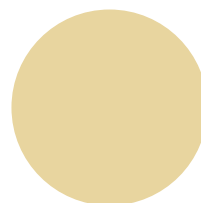
常规颜色 Regular Colors



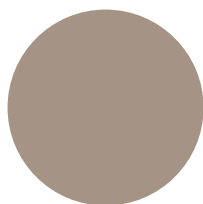
101
纯白 Pure White



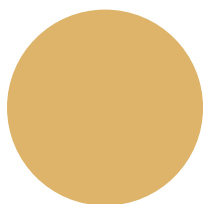
102
米白 Off-White



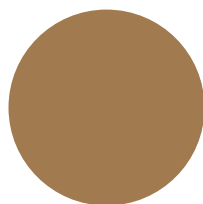
202
米黄 Beige



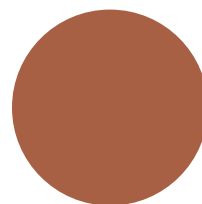
203
枯黄色 Ochre Yellow



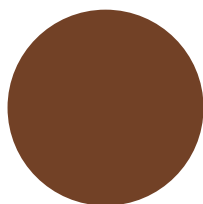
204
土黄色 Earthy Yellow



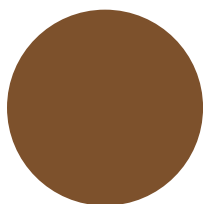
205
蚕茧色 Cocoon Beige



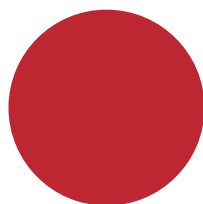
301
砖红 Brick Red



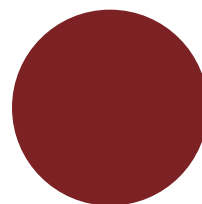
302
褐色 Brown



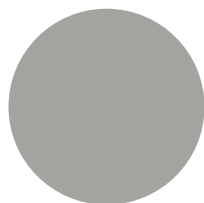
303
咖啡色 Coffee Brown



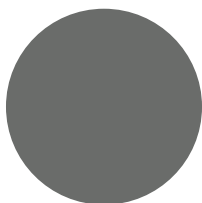
304
中国红 China Red



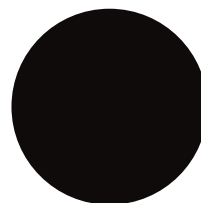
305
南国红 Southern Red



103
浅灰 Light Gray



104
深灰 Dark Gray



105
纯黑 Pure Black

尺寸 Size

600×1200mm (0.72m²) / 24"×48" (8 ft²)

1200×2400mm (2.88m²) / 48"×96" (32 ft²)

1200×3000mm (3.60m²) / 48"×120" (40 ft²)

洞石打印款

Travertine Printing Series



MC301-WY001



MC301-WY002



MC301-WY003



MC301-WY004



MC301-WY005



MC301-WY007



MC301-WY008



MC301-WY010



洞石打印款

Travertine Printing Series



MC301-WY011



MC301-WY013



MC301-WY014



MC301-WY016



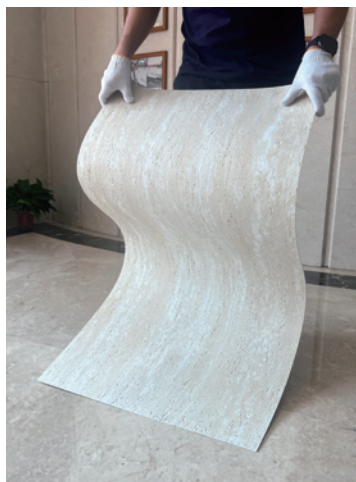
MC301-WY018



MC301-WY019



MC301-WY020



夯土板打印款

Rammed Earth Board Printing Series



MC401-WY022



MC401-WY025



MC401-WY026



MC401-WY027



MC401-WY028



MC401-WY029



MC401-WY032



MC401-WY034



板岩打印款

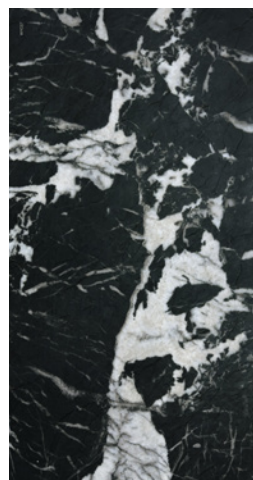
Slate Printing Series



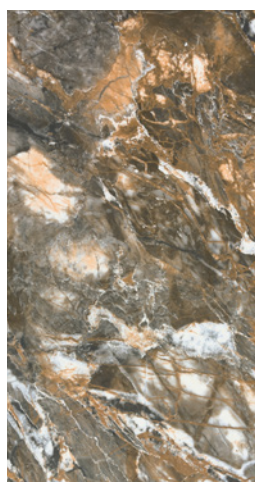
MC404-WY035



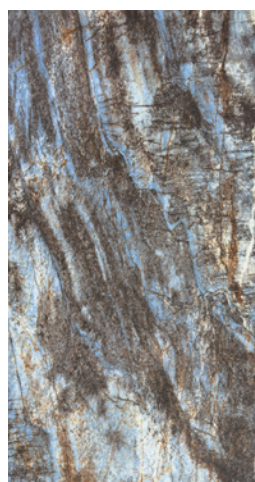
MC404-WY036



MC404-WY037



MC404-WY038



MC404-WY039



MC404-WY040



MC404-WY042

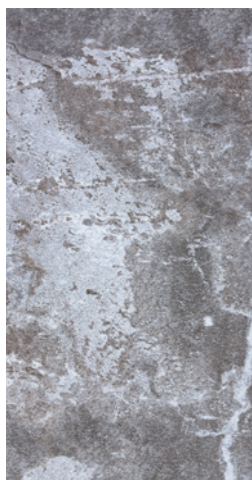


板岩打印款

Slate Printing Series



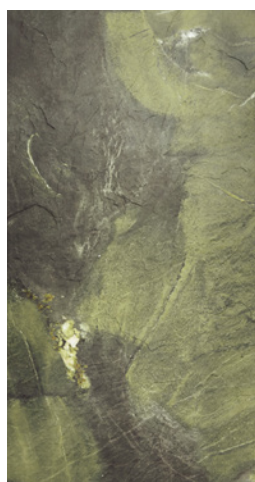
MC404-WY043



MC404-WY044



MC404-WY045



MC404-WY046



MC404-WY047



MC404-WY049



花岗岩打印款

Rough Granite Printing Series



MC402-WY052



MC402-WY055



MC402-WY056



MC402-WY061



MC402-WY060



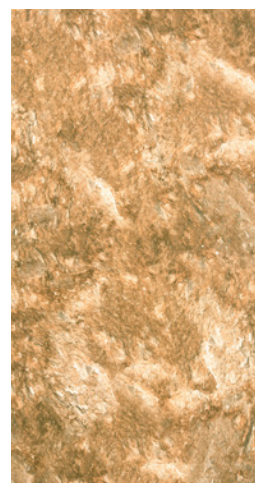
MC402-WY058



MC402-WY059



MC402-WY050



MC402-WY051



新线石打印款

New Vein Stone Printing Series



MC407-WY063



MC407-WY064



MC407-WY066



MC407-WY067



MC407-WY069



MC407-WY071



MC407-WY072



洞石马赛克打印款

Travertine Mosaic Printing Series



MC509-003



MC509-001



MC509-002



MC509-008



MC509-009



MC509-010



MC509-099



MC509-106



MC509-114



洞石拼接打印款

Travertine Splicing Printing Series



MC515-001



MC515-002



MC515-003



MC515-077



竹节洞石打印款

Bamboo Joint Hole Printing Series



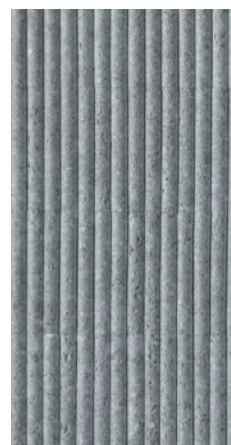
MC514-005



MC514-006



MC514-007



MC514-082



MC514-083



MC514-084



MC514-084纯色



MC514-097



斧开石打印款

Axe-Split Stone Printing Series



MC502-040



MC502-042



MC502-063



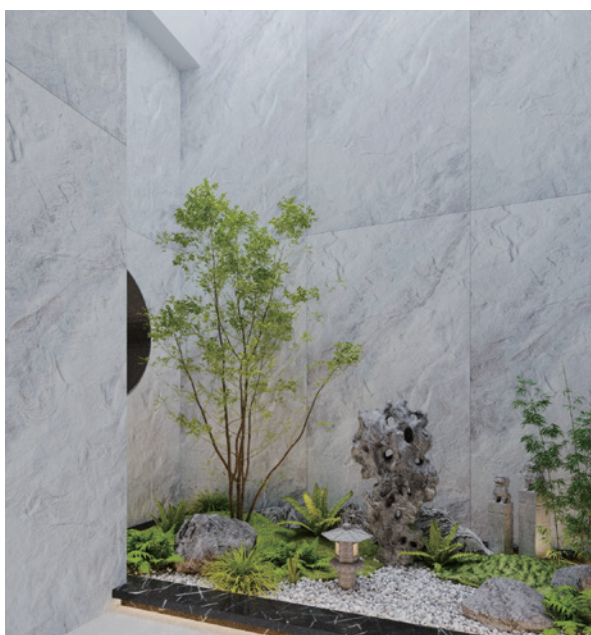
MC502-069



MC502-120



MC502-129



松木纹打印款

Pine Wood Grain Printing Series



MC410-031



MC410-032



MC410-033



MC410-034



MC410-035



MC410-036



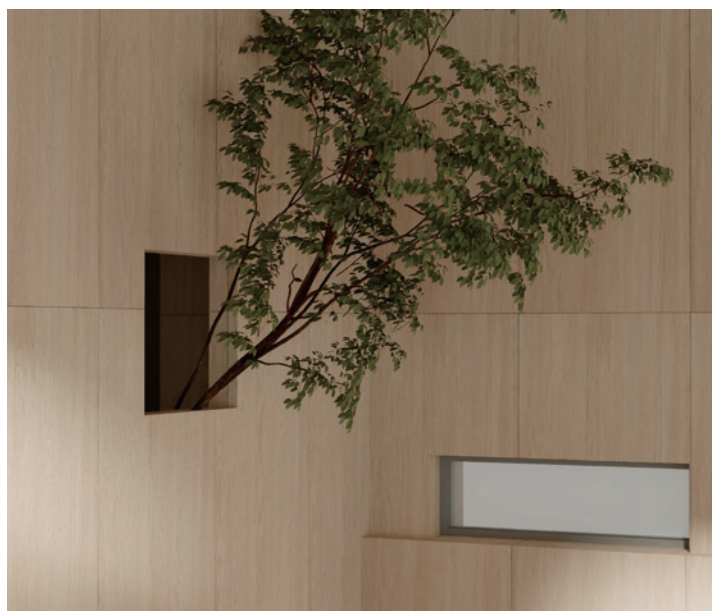
MC410-037



MC410-038



MC410-039



木纹浇筑板打印款

Cast Slab Printing Series



MC413-027



MC413-029



MC413-118



MC413-119



水波纹打印款

Water Ripple Printing Series



MC505-077



MC505-078



MC505-079



MC505-080



MC505-081



星月石打印款

Star Moon Stone Printing Series



MC501-055



MC501-056



MC501-057



MC501-058



MC501-059



MC501-085



MC501-086



超薄软石与传统材料对比表

Comparison Table of Flexible Stone vs. Traditional Materials

检查项目 Evaluation Item	超薄软石 Flexible Stone	天然石材 Natural Stone	瓷砖 Ceramic Tiles	涂料 Paint	铝塑板 Aluminum Composite Panel
耐久性 Durability	耐久，持久不变色 Durable, colorfast	耐久 Durable	耐久 Durable	很差，容易褪色 Prone to fading	一般 Average
环保性 Environmental Friendliness	非常环保，生产过程无“三废”排放，可循环 Highly eco-friendly, no waste Emission in production, recyclable	不可再生资源有限开采 Non-renewable resource, limited mining	不环保生产过程排放大量氧化碳、废渣 Not environmentally friendly Production process emits large amounts of carbon monoxide and waste slag	不环保生产过程有污染排放 Not environmentally friendly Pollution emissions during production	不环保 生产过程有污染排放 Not environmentally friendly Pollution emissions during production
防火性 Fire Resistance	A2 级防火 Class A2 fire rating	防火 Fire-resistant	防火 Fire-resistant	不防火 Not fire-resistant	不防火 Not fire-resistant
防潮性 Moisture Resistance	吸水性和透气性极强 Highly absorbent and breathable	视具体品种 Varies by type	一般 Average	较差 Poor	一般 Average
方便性 Convenience	非常方便快捷 Very convenient and quick installation	施工要求高 High construction requirements	施工不方便 Inconvenient construction	施工方便快捷 Convenient and quick application	施工不方便 Inconvenient construction
表现力 Expressiveness	表现力非常丰富仿石仿木仿皮仿金属等，皆可实现 Highly versatile: mimics stone, wood, leather, metal, etc.	天然石材纹路 Natural stone patterns	表现力有限 Limited expressiveness	缺乏表现力 Lacks expressiveness	缺乏表现力 Lacks expressiveness
性价比 Cost-Effectiveness	性价比高施工容易，物流节省工期短，省人工 Cost-effective, easy to install, logistics-efficient, short construction time, labor-saving.	价格范围广 Wide price range	便宜 Low cost	便宜 Low cost	贵 Expensive

产品性能参数表 | Product Performance

序号 No.	性能项目 Performance Item	声明结果 Declared Result	测试/分级依据 Test / Classification Basis
1	燃烧性能 Reaction to fire	A2-s1,d0	EN 13501-1:2018; EN 13823:2020+A1:2022; EN ISO 1716:2010
2	表观密度 Apparent density	1813 kg/m³	EN 14617-1:2013
3	吸水率 Water absorption	8.1%	EN 14617-1:2013
4	抗冻融性 Freeze-thaw resistance	25 循环后无可见变化 No visible change after 25 cycles	EN 14617-5:2012
5	耐热冲击 Thermal-shock resistance	20 循环后无可见变化 No visible change after 20 cycles	EN 14617-6:2012
6	耐化学性 Chemical resistance	50% NaOH: 光泽度 1h 2.1→2.0; 8h 2.0→1.9 50% NaOH: reflection 2.1→2.0 at 1 h; 2.0→1.9 at 8 h	EN 14617-10:2012
7	耐污染性 Stain resistance	1h: 咖啡/葡萄酒/可乐/水泥浆均无明显变化 At 1 h: no visible change for coffee/wine/cola/cement	EN 14617-10:2012 Annex A
8	柔韧性 Flexibility	绕 40 mm 圆轴弯曲 180° 无开裂 No cracking when bent 180° around a 40 mm mandrel	ISO 24344:2008 Method A
9	耐水性（边缘膨胀） Water resistance (edge swell)	24h 最大厚度增加 0.55%；无可见边缘分离 Max. thickness increase 0.55% after 24 h; no visible edge separation	ISO 13894-1:2000 §19
10	拉伸粘结强度 Tensile adhesion strength	0.3 MPa	EN 1348:2007
11	甲醛释放量 Formaldehyde release	未检出 (MDL 20 mg/kg)；符合限值 120 mg/kg Not detected (MDL 20 mg/kg); pass vs 120 mg/kg limit	EN 15102:2007+A1:2011 §4.2; EN 12149:1997 方法 C
12	可溶性重金属/特定元素 Soluble metals/elements	As、Ba、Cd、Cr、Hg、Pb、Sb、Se 均未检出； 符合 As, Ba, Cd, Cr, Hg, Pb, Sb and Se: all not detected; pass	EN 15102:2007+A1:2011 §4.3.1; EN 12149:1997 方法 A
13	氯乙烯单体 (VCM) Vinyl chloride monomer (VCM)	未检出 (MDL 0.10 mg/kg)；符合限值 0.2 mg/kg Not detected (MDL 0.10 mg/kg); pass vs 0.2 mg/kg limit	EN 15102:2007+A1:2011 §4.3.2; EN 12149:1997 方法 B
14	导热系数 Thermal conductivity	0.074 W/(m·K)	EN 15102:2007+A1:2011 §4.5; EN 12667:2001
15	热阻 Thermal resistance	0.078 (m²·K)/W	EN 15102:2007+A1:2011 §4.5; EN 12667:2001

因不同款式的材质结构、纹理及厚度存在差异，具体性能参数可能有所不同，最终以对应产品的实际检测报告为准。
 Performance may vary by design, material composition, texture, and thickness. Please refer to the test report for the specific product.



1

基层验收，确保基层干净坚实牢固、无空鼓、开裂、起砂、掉粉、油污、脱模剂
Substrate acceptance to ensure the substrate is clean, solid and firm. No hollowing, cracking, sanding, powder shedding, oil contamination or release agent residue.



2

用墨斗盒进行弹线定位
Use a chalk line box to mark the positioning lines.



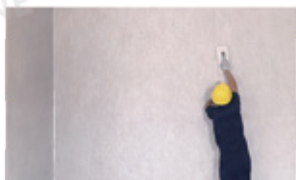
3

量度墙面尺寸后标注切割位置
Measure the wall and mark the cutting positions.



4

用角磨机修整产品边缘毛糙处
Smooth any rough product edges with an angle grinder.



8

用拍板压实产品，严禁用手按压
Press the product firmly with a tapping board. Do not press it by hand.



7

2-3人合力，对准底部踢脚线后产品向上粘贴
With 2-3 people, align the product with the bottom skirting line and bond it upward.



6

产品背后涂抹专用粘合剂
(建议使用C2TES2瓷砖胶-抗碱款)
双面粘合，满浆率达95%以上
Apply specialized adhesive evenly to the back. (C2TES2-Alkali-resistant adhesive is recommended) The grout filling rate reaches over 95%.



5

用木工锯台或手持切割机切割产品
Cut the product with a table saw or handheld cutter.



9

用刀片在产品之间划下自然缝，形成刀片缝（自然缝）效果
Score natural joints between panels with a blade to create blade-cut (natural) joints.



10

最后用干海绵清洁表面
Finally, clean the surface with a dry sponge

威洋石材 WAYON STONE