



东莞市泰跃新材料科技有限公司
TOPEAK NEW MATERIALS AND TECHNOLOGY CO., LTD.

中国·东莞
Dongguan, China



注重专业 Professional Excellence 追求卓越



A 关于我们 about us

晶钙板是广东泰跃一种装饰板材的产品名。它的基材是由多种无机材料、进口原生木浆、固化剂等物质经过制浆、成胚、蒸汽高温高压蒸养而成。经多次涂装，以高档氟碳漆作表面涂层的新型建筑装饰板材；根据用户的不同需求，可采用发泡硬质聚氨酯和粘贴符合国家防火阻燃要求的保温材料作为保温层。

晶钙板模拟天然岩积物融合与冲积的肌理效果，精造层次繁复、变化多元的细密线条，如大气写意的艺术笔触，由浅入深，深浅交错，使纹理更自然丰润，板面更立体通透。

晶钙板可以起到隔热保温作用，提高空调利用率，舒适居住空间。

Calcium Crystal Plate is the product name of Topeak's decorative plate. Its base materials are inorganic materials, imported primary wood pulp, curing agent, etc., from which the end product is made through the procedures of pulp making, blanket and high-temperature and high-pressure steaming. After several times of application, the new building and decorative panels with the high-grade fluorocarbon paint as the surface paintcoat come into being. According to the different needs of users, can be rigid polyurethane foam and stick the insulation material which in line with the requirements of national fire retardant as insulating layer.

The effect is simulate natural marble and alluvial deposit fusion skin texture, levels complexity, close grain is changing and complex, such as magnificent brushwork, from the shallower to the deeper, alternating color, make the texture full and natural, the surface more stereoscopic and transparent.

Calcium Crystal Plate can serve as heat insulation and preservation, increasing the availability of air conditioning and making the living space comfortable.





T 泰跃晶钙板洁净系统

he cleaning system of Topeak Calcium Crystal Plate

抗菌，抗污，零甲醛，防火
Antibacterial, anti-pollution, non-formaldehyde, fireproof

应用场所

医院的手术室、洁净走道、无菌室、ICU(重症监护室)、病房、电子厂房、食品厂、制药厂、精密仪器厂、精密印刷厂、核电厂、实验室、学校、幼儿园。

Application places

Operating rooms, clean walkways, sterile rooms, ICU (Intensive care unit) and ward in the hospital, electronic plants, food plants, pharmaceutical plants, precision instrument factories, precision printing plants, nuclear power plants, laboratories, school and kindergarten.



抗菌 Antibacterial

表面光滑，细菌不易繁殖，表面覆涂抗菌涂料的产品，抗菌性能更加优异。
Smooth surface, bacteria grow to breed not easily, superior antimicrobial properties.



易清洗 Rinses easily

由于表面特殊涂层，表面污染用清水就易清除，污染严重的用中性洗涤剂清洗。
Because of the surface with special coat, contamination can be cleaned with clear water easily, serious smudgy can be cleaned with neutral detergent.



不燃性材料 Incombustible material

选用不燃性A级硅酸钙板为基材，最适合内装饰防火限制的场所。
The base material use incombustible A-class Calcium Silicate Board, best suited for the places request fire resistance.



耐药品性优秀 Excellent chemical resistance

防止酸碱等药品类侵蚀，致使耐污染性优越。
To prevent drug class eroded as acid and alkali.



环保节能 Environmental protection and energy saving

双重节能型，节约大自然有限的材料能源，降低建筑物的能耗。
Dual energy-saving, sparing limited energy sources, reduce energy of building materials.

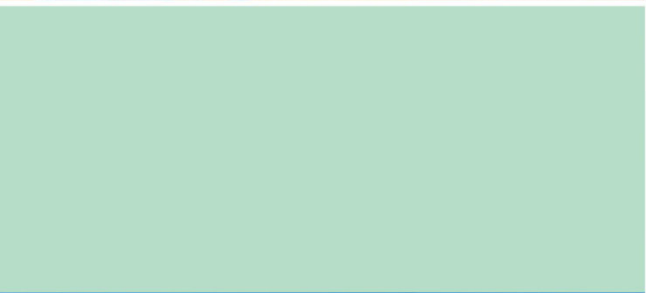


耐久性好 Good durability

无机质的基材，防虫、防蚁、防腐。
Inorganic base material, insect-resistant, ant-resistant, antiseptic.

洁 净 系 统

cleaning
system



T 泰跃晶钙板洁净系统

the cleaning system of Topeak Calcium Cystal Plate

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应用部位

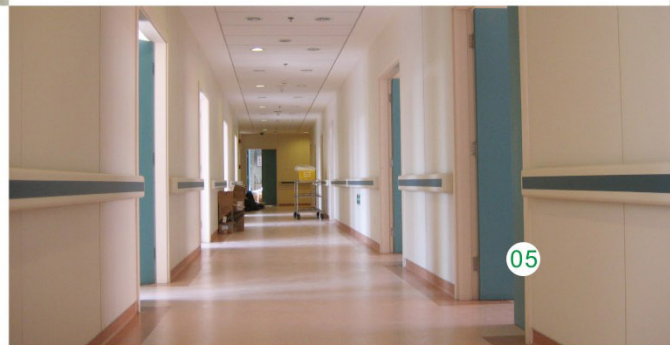
墙面、护壁、天花等

Application sites

wall, breast wall, ceiling and so on.

洁
净
系
统

cleaning
system



产品主要特性

Main characteristics

- A1级防火，火烧时无毒无释放、无黑烟
- 产品标准化生产，现场装配安装快捷
- 不起尘、不产尘、不氧化、防霉、防虫、防蛀
- 耐酸性、耐碱性、耐化学药品性
- 耐磨擦、易清洁、维护成本低
- 表面抗菌
- 安装时无VOC气体，绿色环保
- 大块效果，外观大气，缝隙少，利于洁净
- 导热系数低，利于保温节能
- 表面漫反射，不反光
- 耐久性好，使用寿命长
- 外观亮丽，色彩丰富给人以清洁温馨感
- Class A1 fireproofing, non-toxic, not produce detrimental gas, no black smoke
- Standardized production, site-assembly, installation easily
- Dust-free, oxide-free, mould proof, insect-resistant, anti-moth
- Acid and alkali resistance, chemical resistance
- Wear resistance, easy cleaning, low maintenance cost
- Antibacterial surface
- Environment-friendly, no VOC when installation
- Elegant appearance, less gap, easy to cleaning
- Low thermal conductivity, favorable to energy-saving insulation
- Surface diffuse reflection and not reflect light
- Good durability, long service life
- Bright appearance and rich color, give us warm feeling



主要替代产品

金属类 (铝板、铝型板、彩钢板)
陶土类 (瓷砖、釉面砖、玻化砖)
天然石材

The main substitute products

Metal (aluminum plate, aluminum profile plate, color steel plate)
Pottery clay type (ceramic tiles, glazed tiles and vitrified tiles)
Natural stone



T 泰跃晶钙板地下空间系统

the underground space system of Topeak Calcium Crystal Plate

应用部位

内墙侧墙、隧道侧墙、天花等

Application sites

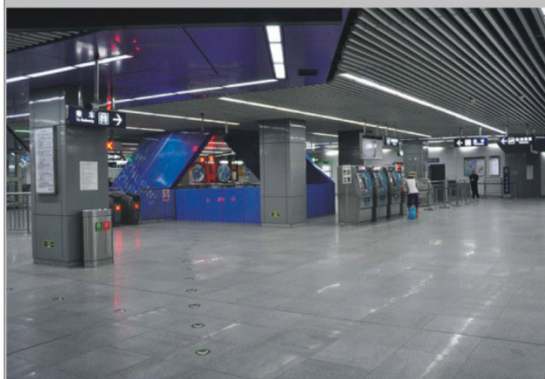
Side walls of the internal wall and the tunnel, ceiling

应用场所

地铁站厅、地铁通道、隧道、人防工程等

Application places

The subway station hall, subway passage, tunnel, civil air defense works





产品主要特性

Main characteristics

- A1级防火, 火烧时无毒气释放, 无黑烟
- 产品标准化生产现场装配, 安装快捷
- 轻质, 大块效果, 外观大气
- 防水性, 耐污染, 耐酸碱
- 绿色环保, 无VOC气体释放, 无辐射
- 易清洁, 维护成本低
- 不受地下空间渗水, 漏水现象的影响
- 耐久性好, 使用寿命长
- Class A1 fireproofing, neither toxic gas emission, nor black smoke in case of burning
- Standardized production of the products, site assembly and easy installation
- Light and large effect, elegant appearance
- Waterproof, resistant to pollution, acid and alkali
- Environment-friendly, neither VOC gas emission, nor radiation
- Easy cleaning, low maintenance cost
- Not be influenced by the water seepage and water leakage from underground space
- Good durability and long service life



地下空间系统

Underground
space
system



T 泰跃晶钙板外墙系统

the exterior walls system of Topeak Calcium Crystal Plate

应用部位

外墙面，挑檐，阳台护板等

应用场所

商场，写字楼，医院，厂房，宾馆，体育场馆，
机场，学校等建筑的外墙装饰

Application sites

Exterior Walls surface, cornice and balcony backplate

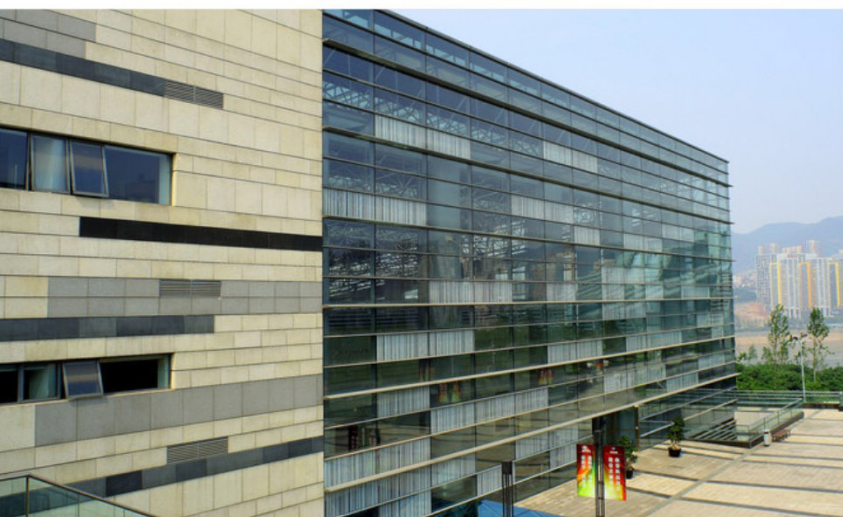
Application places

Exterior Walls decoration for the buildings of shopping mall, office building, hospital, workshop, hotel, gymnasium, airport and school



外墙系统

Exterior
walls
system



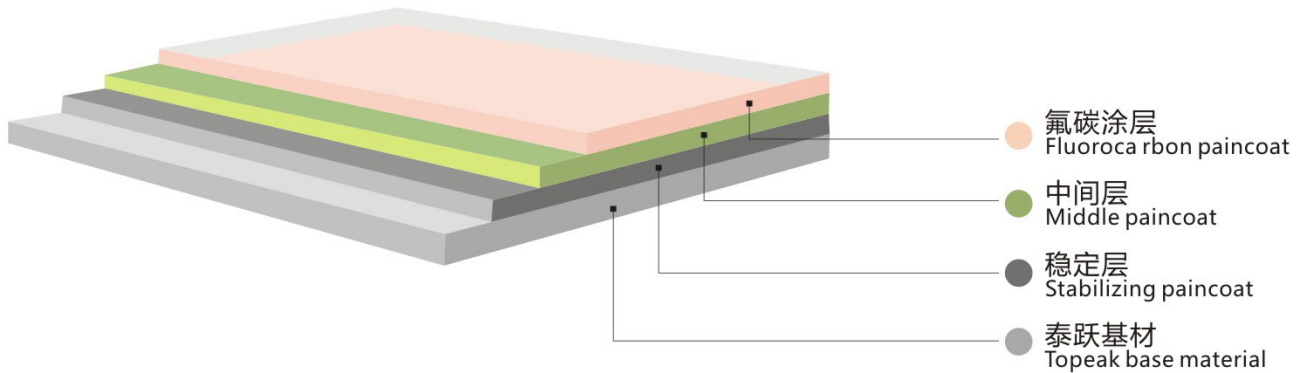
产品主要特性 Main characteristics

- A1级防火, 产品标准化生产现场装配安装快捷
- 防水性, 耐候性, 耐污染, 耐酸碱
- 轻质大块, 大块效果, 外观大气
- 易清洁, 可拆卸
- 耐久性好, 使用寿命长
- Class A1 fireproofing, standardized production of the products, site assembly and easy installation
- Waterproof, weatherability, pollution resistance, acid and alkali resistance
- Light, large effect and elegant appearance
- Easy cleaning and demountable
- Good durability and long service life



泰跃晶钙板结构图

Structural Diagram of Topeak Calcium crystal plate



抗老耐候 Aging and weathering resistant

防紫外线耐久涂层保证20年不变形、不断裂、不褪色。

It is guaranteed that the ultraviolet-light-resistant durable paintcoat will not deform, break or fade in 20 years.

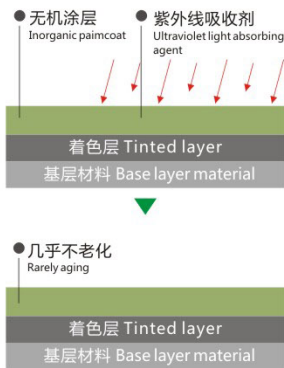
隔热保温 Heat insulation and preservation

提高空调利用率，舒适居住空间。

Increasing the availability of air conditioning and making the living space comfortable.

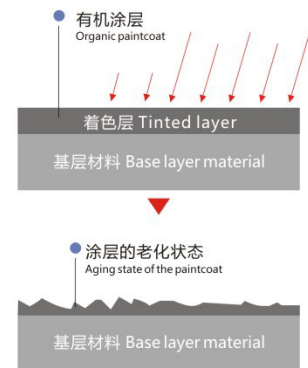
无机涂层时

In the case of an Inorganic paintcoat



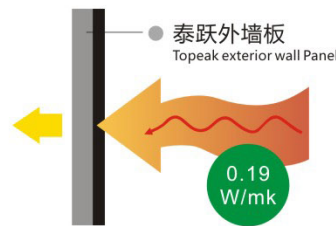
一般有机涂层时

In the case of an ordinary organic paintcoat



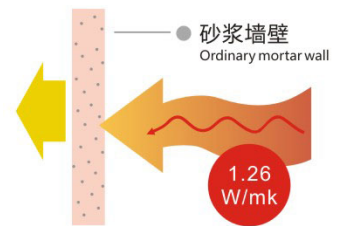
泰跃外墙板

Taiyue exterior wall Panel



普通砂浆墙壁

Ordinary mortar wall



20年不褪色
Not fading in 20 years

具有防紫外线功能的无机涂层，可从紫外线中保护着色层。

The inorganic paintcoat with the function of being ultraviolet light resistant can protect the tinted layer from the ultraviolet light.

约为砂浆7倍的隔热性能

A heat insulation performance about 7 times that of mortar

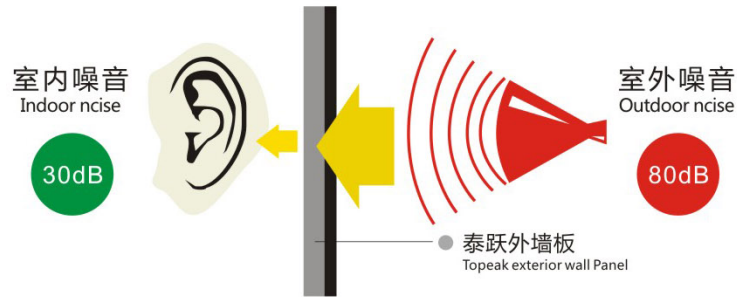
热传导率用数值来表示热量传导的能力，数值越小，隔热性能越高。

For pyroconductivity, numerical values are used to indicate the heat-conducting ability. The greater the value, the higher the heat insulation performance.

吸声隔音 Sound absorption and insulation

大大削弱噪音，享受宁静生活空间。

Noise is greatly reduced, making it possible to enjoy a quiet living space.



降噪吸音专家

A noise-reducing and sound-absorbing expert

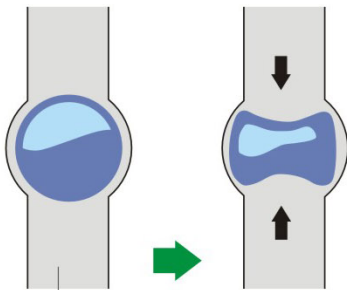
在人耳最敏感的250~1000Hz音域内，充分发挥优越的隔音性能。

The excellent sound insulation performance is brought into full play in the sound range of 250~1,000Hz, which the human ear is most sensitive to.

耐冻防寒 Freeze-resistant and cold-proof

耐冻性能优越，适应寒冷严酷的环境。

Having an excellent freeze-resistant performance, fit for a severe cold environment.



● 特殊轻量混合剂
Special light-weight mixture

利用特殊轻量混合剂缓和膨胀压力

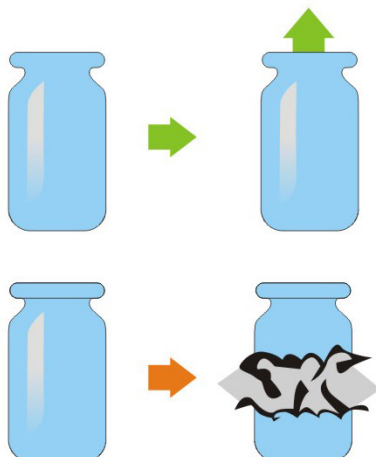
Mitigating the pressure of expansion with a special light-weight mixture

特殊轻量混合剂采用柔软的合成树脂材料制成，具有橡胶球一样的弹性，当气球周围的空隙内含有的水分结冰并导致体积膨胀时，气球就能起到缓解膨胀所产生的应力作用。

This special light-weight mixture is made of soft synthetic resin materials. It has the elasticity of a rubber ball. When the moisture in the space around the balloon freezes and causes the volume to expand, the balloon can have the function of mitigating the stress produced by the expansion.

例如：将水放入玻璃容器内并使其冻结

For example, water is put into a glass container and made to freeze.



玻璃容器不盖盖子时，容器内水分冻结后，水变成冰，体积膨胀，冰块往上溢出。

If the glass container is not covered, when the water in the container freezes, the water becomes ice. The volume expands and the ice spills upward.

玻璃容器盖上盖子时，水分变成冰块后，体积膨胀，无处可逃，对容器产生压力，最终导致容器破裂。

If the glass container is covered, after the water becomes ice, the volume expands and there is no escape, so the pressure on the container increases, finally causing it to break.

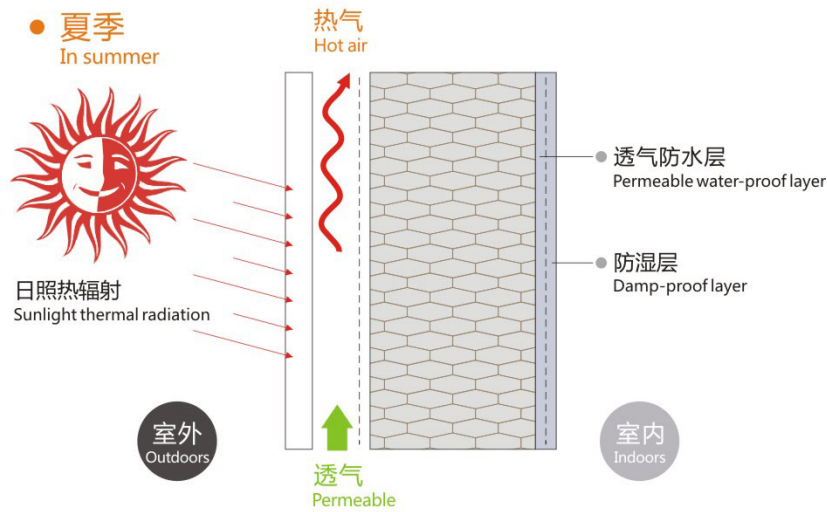
透气结构 Permeable structure

提高隔热效果

Increasing the heat insulation effect

外墙在直射阳光照射时将受到强烈的热辐射。采用“透气结构”施工，通过空气通道来通风透气，则能提高隔热效果。

Under the effect of direct sunlight, the exterior wall receives strong thermal radiation. Constructing with the “permeable structure” to achieve the purpose of ventilation via the air passage can increase the heat insulation effect.

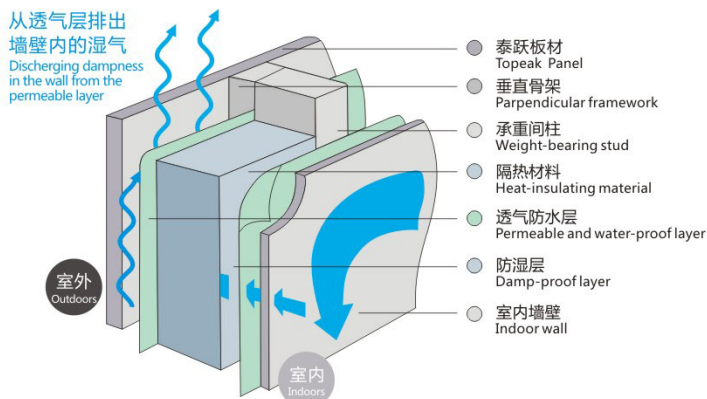


抑制壁内结霜

Curbing dewfall in the wall

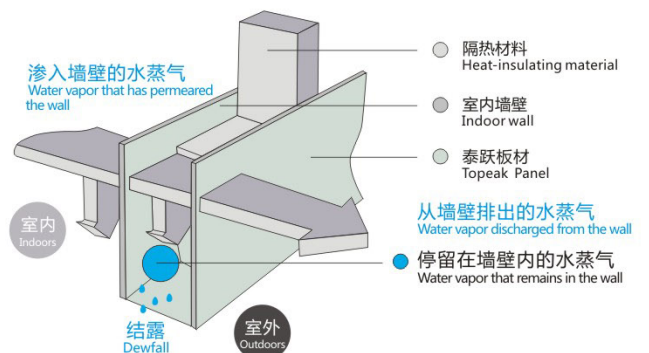
通过采用透气防水层的“透气结构”，可以迅速的将墙壁内的湿气排出，从而抑制墙壁内结霜。

By adopting the “permeable structure” of the permeable and water-proof layer, the dampness in the wall can be quickly discharged so that dewfall in the wall is curbed.



产生结露示意图

Diagram of Dewfall Production

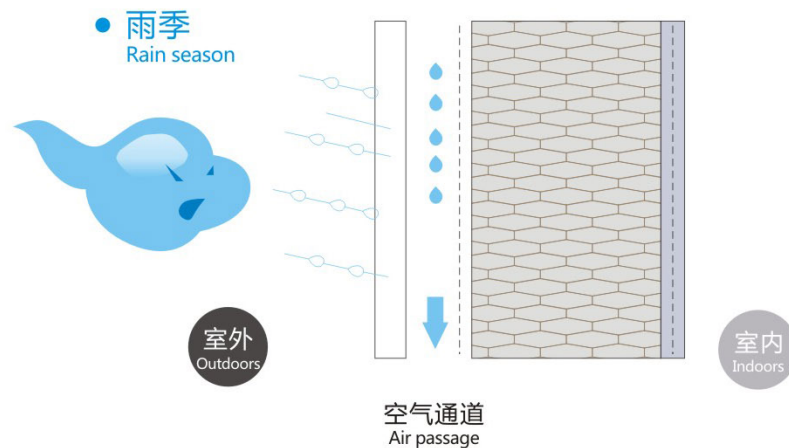


防止雨水渗入

Preventing rain from permeating it

“透气结构”不仅可以迅速的排出暴风雨时从建材连接处等渗入的雨水，而且还能通过透气防水层防止雨水渗入室内。

The “permeable structure” can not only quickly discharge the rain that has permeated the coupling, ect. of the building material at a tempest. but also prevent rain from seeping into the room by means of the permeable and water-proof layer.



抗震防震 Shock resistant and shock-proof

经得起时间考验的防震系数，荣享健康新生活。

A shock-proof coefficient that can stand the tesse of time, enabling you to enjoy a healthy new life.

尺寸稳定 Stable dimensions

高温高压蒸养法，保证尺寸稳定不变形。

High-temperature high-pressure steaming method ensures stable dimensions and non-deformation.



一般情况下，水泥需要数年时间才能够硬化
Under normal conditions, it will take years for cement to harden.

在高温高压的窑内，一次性加固使其高度强化
In a high-temperature high pressure kiln, it is reinforced once-for all and is highly strengthened

高温高压蒸养法

将外部装修建材的原板放在高温高压(160~170°C的水蒸气/6~7气压)的窑内。使其完全硬化的一种制造方法。

High-temperature high-pressure steaming method
A manufacturing method that features putting the raw sheet of the building material for exterior decoration in a high-temperature high-pressure kiln (water vapor of 160-170°C and atmospheric Pressure of 6-7) to make it fully harden.

泰跃外墙板的重量比砂浆墙轻，可减轻对住宅的负荷。

The Topeak exterior wall Panel is lighter than a mortar wall, so it can reduce the load of the dwelling.

泰跃晶钙板性能

The performance of Topeak Calcium Crystal Plate

测试项目 Test Item		采用标准及要求 Adopting standards and requirements	测试结果 Test Result
尺寸偏差 Dimensional deviation	厚度 Thickness (mm)	GB/T17748-1999	4~18mm
	尺寸 Size (mm)		标准板: 1220 x 2440
	长度 Length (mm)		±2.0
	宽度 Width (mm)		±0.5
	厚度 Thickness (mm)		≤2.0
	对角线差 Diagonal deviation (mm)		≤2.0
	边沿不直度 Edge nonstraightness (mm/m)		≤3.0
翘曲度 Warping degree (mm/m)		JC/T412.1-2006 1.4~1.7	0
密度 Density (g/cm ³)		JC/T412.1-2006	1.58
湿胀率 Bulking factor (%)		JC688-2008	0.07
干缩率 Dry shrinkage (%)		GB/T7019-1997 ≤5	0.04
吸水率 Water absorption (%)		JC/T412.1-2006	0.87
不透水性 Imperviousness		GB/T17748-2008	24H后反面无湿痕无水滴出现 Back side not appear shadow and water droplet*
热膨胀系数 Thermal expansivity (°C ⁻¹)		GBT10295-2008 ≤0.5	6.75x10 ⁻⁶
热传导率 Pyroconductivity (W/mk)		JC688-2006	0.279
螺钉拔出力 Screw pullout force (N/mm)	常态 Normal	GB8624-2006	198
不燃性 Noninflammability		JC/T412.1-2006	不燃A1级 Non-inflammable A1 class
抗折强度 Rupture strength (Mpa)	气干 Air dry	JC/T412.1-2006	20.4
	饱水 Waterlogged		18
抗冲击强度 Shock strength (KJ/M ²)		JC688-2006	2.5
抗冻性 Frost resistance		JC/T412.1-2006	25次冻融循环无破裂分层 Freezing and thawing cycles without fracture and layering after 25 times
放射性 Radioactivity		HJ/T223-2005	国家级环保A级 National environmental protection A class
石棉 Asbestos		HJ/T223-2005	100%不含石棉 Asbestfrei
浸水24H线膨胀系数 Soaking 24H Linear expansion coefficient		JC/T568-2007	0.72
弯曲弹性模量 Bending elastic modulus (N/mm ²)		GB/T17657-1999 ≥8000	10150
背栓拔出力 Back bolt pull out force (N)		GB/T9966.7 - 2001	3500

泰跃晶钙板表面涂层性能

The surface coating performance of Topeak Calcium Crystal Plate

测试项目 Test Item		采用标准及要求 Adopting standards and requirements	测试结果 Test Result
附着力 Adhesive force	漆膜厚度 Film thickness	GB/T13456.2-2008-7B ≥30	按客户需求 Customers requirements
	(拉开法 pull open) Mpa	GB/T5210-2006 ≥0.30	2.5 (1.14~3.94), 100%A/B
	(划格试验 Cross-cut test 1mm) 级 Grade	GB/T9286-1998 0	0
	级 Grade	GB/T1720-1989 ≤1	1
硬度 (铅笔) Hardness (pencil)		GB/T6739-2006	3H ~ 6H
80°光泽 80 degree gloss		GB/T9754-1988	按客户需求 Customers requirements
漫反射率 (按客户要求定制) Diffuse reflectance (Customized by customer)		GB/T9780-2005 地下工程 (隧道、地铁等) underground engineering (tunnel, subway, etc) 60%~85%	80% ~ 81%
耐磨性 Abrasion resistance L/um		HG/T3793-2005 - 4.13 ≥5	5
耐溶剂擦拭性 Solvent scrub resistance		HG/T3792-2005 Appendix C 丁酮 > 100次不漏底 Butanone > 100 times not leaky	合格 Qualified
耐酸性 Acid resistance		GB/T9274-88 丙法 Methor 3rd	无影响 No impact
耐碱性 Alkali resistance		GB/9265.88	48H无变化 Unchanged after 48H
耐温差性 Temperature difference resistance		JG/T25-1999	5次影响 5 times flucence
耐洗涤剂性 Detergent resistance		3% 40°C	无影响 No impact
耐沾污性 Stain resistance (%)		HJ/3792-2005	5
耐洗刷性 Scrub resistance		GB/T9266-88	> 1000
耐机油性 (浸入SE15W-40机油中24H) Oil resistance (immerge into oil SE15W-40 about 24H)		GB/T9274-88 甲法 (Methor 1st) 不起泡、脱落、变色 No bubbling, drop and change color	无变化 Unchanged
耐候性 (日光加速) Weather resistance		GB/T16259-1996	3000H光泽损失30%, 颜色变化 不大于5NB5单位, 色差≤2级 After 3000H, gloss loss 30%, color change not more than 5NB5, color difference less than 2

泰跃晶钙板与其它装饰板的比较

The comparison of Topeak Calcium Crystal Plate and other decorative plates

项目 Item	晶钙板 Calcium crystal plate	进口无机预涂板 Import inorganic pre-coating plate	铝塑板 Aluminium-plastic panel	石板幕墙 Flagstone curtain wall	预涂板 Pre-coating plate	现场氟碳涂料涂装 Fluorocarbon coating on site
原料组成 Ingredients	无机板材+氟碳涂料 Inorganic boards+ Fluorocarbon coating	无机板材+氟碳涂料 Inorganic boards+ Fluorocarbon coating	铝合金+塑料+氟碳涂料 Aluminum alloy+ Plastic+Fluorocarbon coating	天然石材 Natural stone	热固性树脂+木纤维 Thermosetting resin +Wood fiber	各种底材+氟碳涂料 Various substrate+ Fluorocarbon coating
预期耐久性 Expected durability	20年以上 more than 20 years	20年以上 more than 20 years	10 ~ 15年 10 ~ 15 years	20年以上 more than 20 years	10~20年 10 ~ 20 years	10年左右 around 10 years
耐火性(失火性) Fire resistance	不燃,不产生有害气体 non-ignitable, not produce detrimental gas	不燃,不产生有害气体 non-ignitable, not produce detrimental gas	可燃,燃烧时产生有害气体 combustible,during burning produce detrimental gas	不燃,不产生有害气体 non-ignitable, not produce detrimental gas	难燃,产生有害气体 flame retardant, produce detrimental gas	
加工性 Machinability	按要求加工容易不可弯曲 handling ease as required,inflexible	按要求加工容易不可弯曲 handling ease as required,inflexible	按要求加工容易可弯曲 handling ease as required,flexible	按要求加工容易不可弯曲 handling ease as required,inflexible	按要求加工容易弯曲 handling ease as required,flexible	
色彩 Color	实体、金属、珠光等各种色彩 solid color,metal, glitter,etc	只有实体色 only solid color	实体、金属、珠光等各种色彩 solid color,metal, glitter,etc	色彩有限 limited color	实体、金属、珠光等各种色彩 solid color,metal, glitter,etc	实体、金属、珠光等各种色彩 solid color,metal, glitter,etc
维修色彩 Maintain color	可维修、无色差 maintenance and no color different	不易维修 uneasy maintenance	可维修、无色差 maintenance and no color different	与原色不同 color different	不易维修 uneasy maintenance	可维修、无色差 maintenance and no color different
外观 Appearance	美丽、鲜艳、档次高 beautiful,bright, high-grade	美丽、鲜艳、档次高 beautiful,bright, high-grade	美丽、鲜艳、档次高 beautiful,bright, high-grade	天然风格、档次高 natural style, high-grade	美丽、鲜艳、档次高 beautiful,bright, high-grade	美丽、鲜艳、档次低 beautiful,bright, low-grade
平整度 Flatness	板材不易变形、平整度高 not easy to deformation, high flatness	板材不易变形、平整度高 not easy to deformation, high flatness	板材易变形 easy to deformation	板材不易变形、平整度高 not easy to deformation, high flatness	板材受潮、易变形 damp,easy to deformation	
施工周期 Construction period	短 short	短 short	短 short	长 long	短 short	很长 fairly long
表面硬度 Surface hardness	氟碳涂料 ≥ 4H fluorocarbon coating ≥ 4H	无机涂料 ≥ 4H inorganic coating ≥ 4H	氟碳涂料 ≥ 4H fluorocarbon coating ≥ 4H	硬度极高 extremely high hardness	硬度高 high hardness	硬度低 low hardness
绝热性 Adiabaticity	绝热,保温 adiabatic,insulation	绝热,保温 adiabatic,insulation	绝热,保温 adiabatic,insulation	低于板材 lower than board	绝热,保温 adiabatic,insulation	
价格 Price	中等 moderate	高 high	高 high	中等 moderate	很高 expensive	低 low
性能价格比(COP) Cost performance	高 cost effective	中等 medium	低 not cost effective	低 not cost effective	低 not cost effective	中等 medium
清洁 Cleaning	表面光滑,无静电,不易污染,一年清洁一次 smooth surface,non-electrostatic,stain resistance,cleaning once a year	表面光滑,无静电,不易污染,一年清洁一次 smooth surface,non-electrostatic,stain resistance,cleaning once a year	空气中煤烟容易粘附,不易清洁,一年约清洁二到三次 soot easy to adhering, hard to clean,cleaning two or three times per year	表面粗糙,多孔,易污染,难清洁 rough surface,porous, easy pollution,hard to cleaning	表面光滑,无静电,不易污染,一年清洁一次 smooth surface,non-electrostatic,stain resistance,cleaning once a year	空气中煤烟容易粘附,不易清洁,一年约清洁二到三次 soot easy to adhering, hard to clean,cleaning two or three times per year

 **质量是泰跃的生命**
Quality is the life of Topeak

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