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矿物纤维天花板砖

MINERAL FIBER CEILING TILE

矿棉天花板优势

安全环保

采用优质矿棉作为主要原料，不含石棉，杜绝了针状粉尘，不会通过呼吸道进入体内，对人体无害。

强韧耐用

采用复合纤维和网状结构基层涂料，大幅提高了天花板的抗击力和抗变形能力，确保长期稳定使用。

卓越吸音

天花板内部结构采用立体交叉网状设计，内部空间充足且结构牢固，使吸音降噪能力比普通矿棉板提高1-2倍。

湿度调节

内部添加防潮剂和辅助防潮剂，有效稳定胶结剂，增强了表面纤维抗力，同时能够调节室内温度，改善居住环境。

抗菌防霉

纳米抗菌剂充斥板体内部，有效防霉、灭菌、抑菌再生，适用于要求高卫生标准的无菌环境。

甲醛吸附

添加稀土无机复合材料，赋予天花板表面活性，能吸附、分解装修过程中产生的甲醛等有毒物质，提高空气中负氧离子浓度，改善生活空间环境。

节能降耗

添加膨胀珍珠岩，具有防火、隔热功能，有效降低制冷、制热费用，符合现代节能理念。

饰面效果（花型）

多款精美花纹，满足您的多样化需求

Patterns

We offer a variety of exquisite patterns to meet your diverse design needs.

膨胀珍珠岩

适用于建筑的隔音保温来减轻重量

也可作为制氧深冷低温热力设备中的保温填充材料

Expanded perlite

The perlite is suitable for acoustic and insulation in construction to reduce weight, and it can also serve as insulation filler in cryogenic and low-temperature thermal equipment used for oxygen production.

防潮基涂

采用双面、双层防潮基涂，使用防潮剂和辅助防潮剂结合，运用防控相辅的防潮新观念

Moisture-Proof Primer

The primer features a dual-layer, double-sided moisture-proof formula. It combines a moisture-proof agent with supplementary additives, employing a new approach that integrates complementary moisture control techniques.

Product Advantages

Safe and Environment-Friendly

Using high-quality mineral wool as the main raw material, it does not contain asbestos and eliminates dust. It(dust) will not enter the body through the respiratory tract and is harmless to the human body.

Strong and Durable

The use of composite fiber and mesh structure base coating significantly improves the resistance and deformation resistance of the ceiling, ensuring long-term stable use.

Excellent Sound Resistance

The internal structure of the ceiling adopts a three-dimensional cross mesh design, with sufficient internal space and a sturdy structure, which increases the sound absorption and reduction capacity by 1-2 times compared to ordinary mineral wool tiles.

Sag/Humidity Resistance

Adding moisture-proof agents and auxiliary moisture-proof agents internally effectively stabilizes the bonding agent, enhances the surface fiber resistance, and can regulate indoor temperature to improve the living environment.

Antibacterial and mildew proof

Nano antibacterial agents fill the interior of the tile, effectively preventing mold, sterilization, and antibacterial regeneration, suitable for sterile environments that require high hygiene standards.

Adsorption of formaldehyde

Formaldehyde adsorption and addition of rare earth inorganic composite materials make the ceiling surface activity, which can adsorb and eliminate toxic substances such as formaldehyde generated during the decoration process, increase the concentration of fluoride ions in the air, and improve the living space environment.

Energy saving barrier consumption

Adding expanded perlite has fire-resistant and thermal insulation functions, effectively reducing cooling and heating costs, in line with modern energy-saving concepts

声学性能

天花材料高吸声功能是非常重要的，是首要的设计元素，它能创造更有效的工作、学习和医疗等环境，并能帮助高度管制行业遵守其隐私性原则。

高吸声

- 降噪系数 (NRC) 用以衡量天花板的吸声效果，数值介于 0 和 1.00 之间；
- NRC 值为 0.6 的天花板会吸收 60% 声音，偏转回音 40%，如果 NRC 能超过 0.50，即为高吸声性能产品；
- 肯特矿棉天花板的增强吸声功能，NRC 数值均能超过 0.65-0.75。



比如：70 分贝（非常嘈杂，如交通要道，有损人体神经），吸音系数为 0.7，则降噪后的分贝约为 49 分贝（一般常见情况，办公室谈话声约 60 分贝，对人体无影响）

高隔音

- 隔音等级 (CAC) 表示天花板的隔音能力，以评定相邻办公室之间的天花板阻隔声波穿透的能力；
- 当声波穿透天花板后音量减弱，进入天花板上方空间经水泥墙后射后穿入相邻办公室，同时音量再次减弱，此时若谈话声已不可辨认即为适宜的隔音等级；
- 高隔音等级的天花板可防止声音传出，保证谈话的私密性。CAC 值为 40 表示它可以阻止 40 分贝的声音。CAC 值达到 35 或更高，即为高隔音性产品；
- 肯特板材的隔音性能，CAC 值高达 45。



在两个相邻的封闭式空间（如办公室）之间，声波穿透天花板上空间进入相邻的办公室，此过程天花板系统作为隔音体对声波穿透阻隔的能力即为隔音能力。如果天花板系统的隔音等级 $CAC < 25$ ，则表示材料的隔音性能不好，反之如果隔音等级 $CAC > 35$ ，则表示该材料的隔音性能很好。

Acoustic Performance

Sound absorption capability in ceiling materials is crucial as a primary design element, enhancing environments for work, study, and healthcare, while also assisting highly regulated industries in maintaining privacy standards.

Sound Absorption

The Noise Reduction Coefficient (NRC) measures how well a ceiling absorbs sound, with values ranging from 0 to 1.00. A ceiling with an NRC of 0.6 absorbs 60% of sound and reflects 40%. Products with NRC values exceeding 0.50 are considered to have high sound absorption performance. Kente ceiling tiles enhance absorption capabilities, achieving NRC values between 0.65 and 0.75.



For example, if the noise is 70 decibels (very noisy, like a busy traffic road, detrimental to human nerves), with a sound absorption coefficient of 0.7, the noise would be around 49 decibels (harmless to human health, akin to office conversation at approximately 60 decibels).

Sound Blocking

The Ceiling Attenuation Class (CAC) measures a ceiling's ability to block sound waves between adjacent offices. When sound waves pass through a ceiling, their volume decreases as they enter the space above the ceiling and pass through cement walls into neighboring offices. If conversation becomes indistinguishable at this point, it indicates an appropriate sound insulation level. Ceilings with high CAC ratings prevent sound from escaping, ensuring privacy during conversations. A CAC rating of 40 means it can block 40 decibels of sound. Products with CAC ratings of 35 or higher are considered high sound insulation products. Kente tiles boast a sound insulation performance with a high CAC rating of 45.



Between two adjacent closed spaces (e.g. offices), sound waves penetrate the space above the ceiling into the neighboring office, the ability of the ceiling system as a sound insulator to block sound waves from penetrating is the sound insulation capacity. If the sound insulation class CAC of the ceiling system is < 25 , it means that the material is not good at sound insulation. On the other hand, if the sound insulation class CAC is > 35 , it means that the material is very good at sound insulation.

高防火性能

符合美国标准ASTM E1264 A级标准和中国标准GB/8624-2006 B1级

国家相关规定:应用于轻钢材质龙骨系统的矿棉板,符合防火B1级的产品可以作为A级防火材料使用。

天花板与其它承重构件有所区别,它不是火灾发生时直接危及安全的部分,天花系统耐火极限要求在火灾发生时能保证一定的疏散时间。矿棉板可以防止火焰和热量从着火的房间蔓延到房间上方的天花板或地板,从而赢得了宝贵的逃生时间,保护了建筑物中人员的生命安全。

在建筑物的设计阶段就要详细考虑防火安全,天花系统的防火性能对整个建筑的防火性能至关重要。

增强型防火天花系统,由防火配方的天花板与防火龙骨构成,防火等级B1级,部分高棉配方矿棉板产品,可达到A2级燃烧性能标准,满足各样类型建筑的防火设计要求。

B1

防火等级

- 点火开始后20秒内,火焰尖端均未达到刻度线,且燃烧滴落物未引燃滤纸
- 其在空气中遇明火或在高温作用下难起火,不易很快发生蔓延,且当火源移开后燃烧立即停止,在建筑材料在火灾条件下具有一定的阻燃性能,可以减缓火势蔓延,降低火灾损失。
- B1级防火等级是防火等级中的一个级别,代表着难燃材料。
- 安装在在龙骨上燃烧性能达到B1级的矿棉板可作为A级装修材料使用。



High Fire Performance

ceiling tiles meet the ASTM E1264 Class A standards and the GB/8624-2006 Class B1 fire safety regulations. When used with lightweight steel frame systems, these tiles that meet the B1 fire resistance standard can be classified as Class A fire-resistant materials.

Ceilings differ from other structural components in that they are not the parts directly exposed to fire. Instead, they need to withstand fires long enough to allow for safe evacuation. Mineral fiber tiles help prevent flames and heat from spreading from a burning room to the ceiling or floor above, thus providing crucial escape time and protecting occupants' safety.

Fire performance should be considered in detail during the design phase of a building, as the fire resistance of the ceiling system is critical to the overall safety of the structure.

enhanced fire-resistant ceiling system, made from fire-rated tiles and fire-resistant frameworks, meets Class B1 standards. Some mineral tiles with high cotton content even achieve Class A2 burning performance standards, catering to various design requirements for different types of buildings.

B1

Fire rating

Within 20 seconds of ignition, the flame tip did not reach the scale line, and the burning droplets did not ignite the filter paper.

In the presence of open flames or under high temperatures, the material is difficult to ignite and does not spread quickly. Once the source of the fire is removed, the burning stops immediately. This demonstrates the material's fire-resistant properties, which can help slow the spread of fire and reduce damage.

Class B1 fire resistance indicates a level of fire resistance, signifying that the material is difficult to ignite. Mineral fiber boards installed on one frame system, with a fire performance rating of B1, can be used as Class A fire-resistant materials.



高防潮性能

在现代建筑中，天花板的下陷和变形，不仅破坏了空间的美观性，还使天花板的表面易裂、污浊，缩短了使用寿命。天花板能否有效地防潮和防下陷，是衡量优质天花板的最重要的标准之一，也是我们客户选择天花产品的主要依据。

- 室内空气潮湿的游泳馆、淋浴间、更衣室、特殊生产区域(如纺织厂)和建筑物没有完全密封的地方会造成普通天花板明显的下垂或凹陷。在这些高湿度区域，可选择高防潮性能产品。

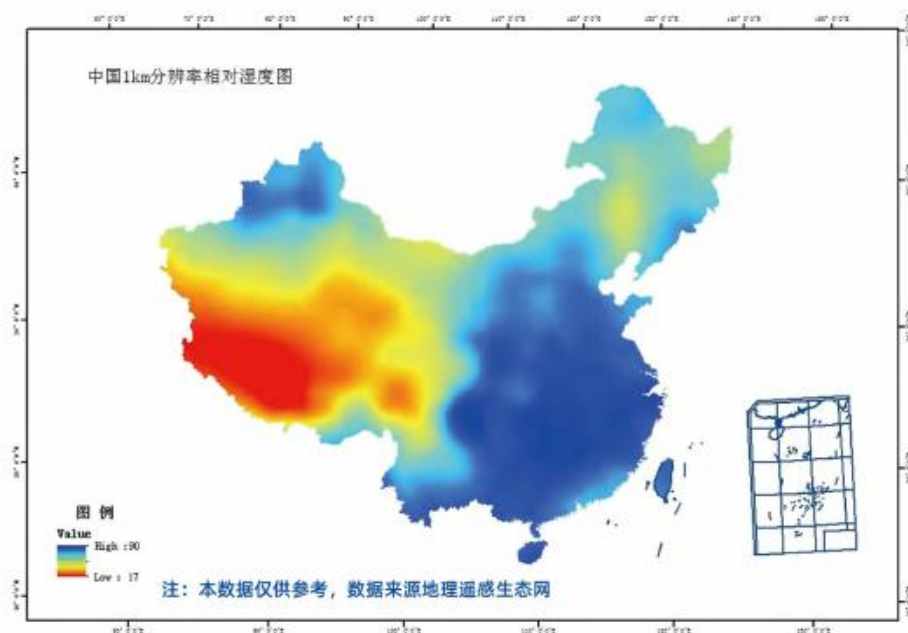
高防潮性能产品具有很好的防下陷性能，可以在相对湿度90%以下，温度104°F(40°C)以下的环境中



RH90

相对湿度 (Relative Humidity)，用RH表示，指空气中实际水汽压与当时气温下的饱和水汽压之比，它反映了空气距饱和空气的程度。

RH90，就是封闭测试环境下，常温中，室内空气水分相对含量达到90%，肯特防潮矿棉板也可以正常使用（但是不能用于室内积水，与水直接接触的环境中。）



High Moisture Resistance

In modern buildings, ceiling sagging and deformation not only detract from the aesthetic appeal of a space but also lead to surface cracking and staining, which shortens the ceiling's lifespan. The ability of a ceiling to effectively resist moisture and prevent sagging is one of the most important criteria for assessing high-quality ceiling products and is a key factor in our customers' selection process.

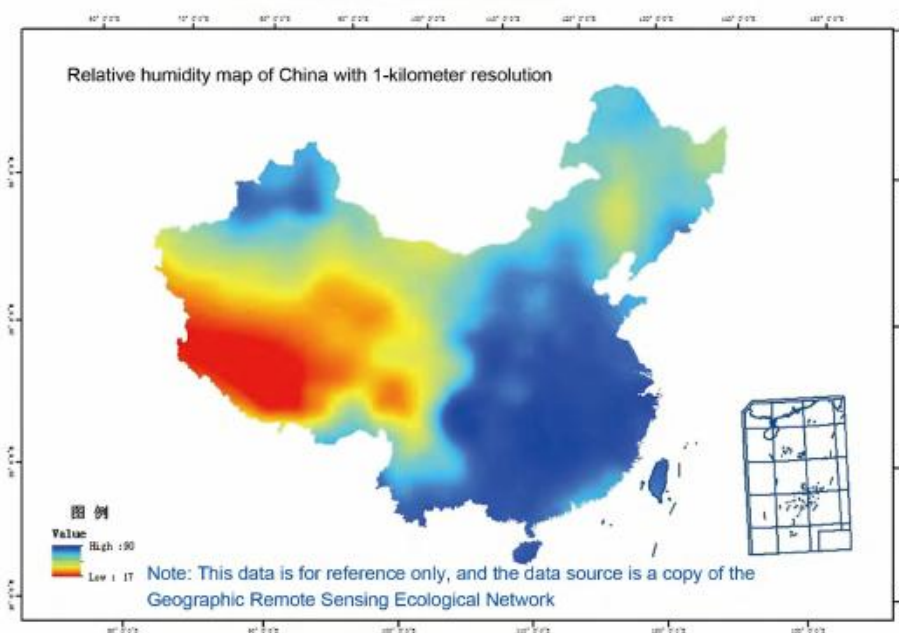
In areas with high indoor humidity—such as swimming pools, showers, locker rooms, special production zones (like textile factories), and areas of a building that are not completely sealed—Choosing products with superior moisture resistance is essential.

products are highly resistant to sagging and can be used in environments with relative humidity up to 90% and temperatures up to 104 °F (40°C).



RH90

Relative Humidity (RH), refers to the ratio of the actual water vapor pressure in the air and saturated water vapor pressure, which reflects the air from the degree that the air is from saturated air. RH90, that is, in a closed testing environment at room temperature, the relative content of moisture in the air up to 90%. Kente mineral fiber ceiling tile can be used normally in RH90 environment, but can not be used in environments where water accumulates indoors and comes into direct contact with water.



矿棉天花板型号

(1) 吸音型矿棉天花板

【雪花】 【雪球】 【雪星】 【雪点】

产品特点：

- ① 具有优异的吸音性能，可以有效减少室内噪音，提供舒适的环境；
- ② 材质：湿法成型，矿棉纤维，珍珠岩；
- ③ 防潮国标 RH90：经国标检测，湿度 90%，温度 40°以下，具备防下陷性能。

防火等级可选：

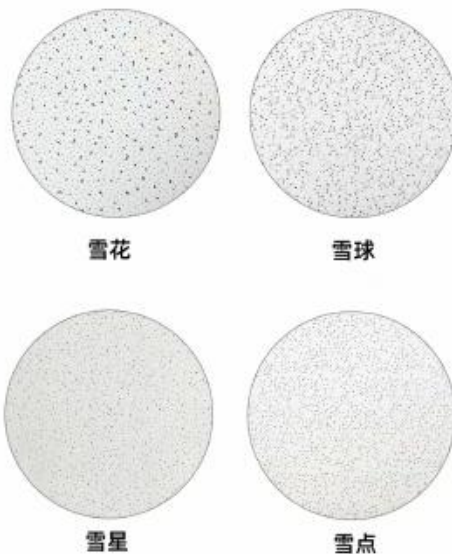
• 国标 B1 • 国标 A2

降噪系数：0.55

反光度：0.7

颜色：白色

建议应用场所：学校 / 走廊 / 办公室 / 零售商业空间



Mineral Fiber Ceiling Tiles

(1) ACOUSTIC MINERAL FIBER CEILING TILES

[SNOWFLAKE] [SNOWBALL]
[SNOWSTAR] [SNOWDOT]

Product Features:

- 1. Excellent acoustic performance, effectively reducing indoor noise and creating a comfortable environment.
- 2. Material: Wet-formed, mineral fiber, perlite.
- 3. Moisture Resistance: National standard RH90. Tested to withstand 90% humidity and temperatures below 40°C without sagging.

Fire Ratings Available:

- National Standard B1
- National Standard A2

Noise Reduction Coefficient: 0.55

Reflectivity: 0.7

Color: White

Recommended Applications: Schools / Corridors / Offices / Retail Commercial Spaces



(2)装饰型矿棉天花板

【雪砂】

产品特点：

- ① 淋砂饰面，质感细腻；
- ② 高耐用度：不易沾灰，易擦洗，耐摩擦；
- ③ 高反光度：减少设备照明，节约能源，缓解视觉疲劳；
- ④ 材质：湿法成型，矿棉纤维，珍珠岩，表面淋砂；
- ⑤ 防潮国标 RH90：经国标检测，湿度90%，温度40°以下，具备防下陷性能。

防火等级可选：

• 国标 B1 • 国标 A2

降噪系数：0.65

反光度：0.9

颜色：白色

建议应用场所：酒店 / 教育行业 / 办公室 / 零售商业空间



雪砂

【雪川】

产品特点：

- ① 个性化与整体性完美结合，可以根据不同装修风格和需求进行定制，为室内空间增添美感
- ② 抗变形能力超强，结构稳定
- ③ 采用高矿棉配方，增加天花板厚度，隔声保温性能显著
- ④ 材质：湿法成型，矿棉纤维，珍珠岩
- ⑤ 防潮国标 RH90：经国标检测，湿度90%，温度40°以下，具备防下陷性能。

防火等级可选：

• 国标 B1 • 国标 A2

降噪系数：0.6

反光度：0.85

颜色：白色

建议应用场所：开放式办公空间 / 接待大堂 / 礼堂 / 贵宾室



雪川

DECORATIVE MINERAL WOOL CEILING TILES

[SNOW SAND]

Product Features:

1. Sand-sprayed finish with a delicate texture.
2. High durability: resistant to dust, easy to clean, and abrasion-resistant.
3. High reflectivity: reduces lighting needs, saves energy, and alleviates visual fatigue.
4. Material: Wet-formed mineral fibers, perlite, with a sand-sprayed surface.
5. Moisture Resistance Standard RH90: Tested to withstand 90% humidity and temperatures below 40°C, with anti-sagging properties.

Fire Ratings Available:

- National Standard B1
- National Standard A2

Noise Reduction Coefficient: 0.65

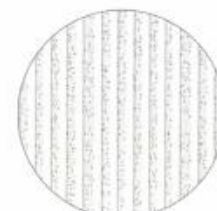
Reflectivity: 0.9

Color: White

Recommended Applications: Hotels, educational institutions, offices, and retail commercial spaces.



SNOW SAND



XUECHUAN

[XUECHUAN]

Product Features:

1. Perfect blend of personalization and cohesion, customizable to fit various interior design styles and needs, enhancing the aesthetic of indoor spaces.
2. Extremely resistant to deformation with a stable structure.
3. Made with a high-mineral formula, increasing ceiling thickness and significantly improving soundproofing and insulation.

Material:

- Wet-forming process with mineral fibers and perlite.
- Humidity Resistance: Tested to withstand 90% humidity and temperatures below 40°C, with anti-sagging properties.

Fire Resistance Levels:

- National Standard B1
- National Standard A2

Noise Reduction Coefficient: 0.6

Reflectance: 0.85

Color: White

Recommended Applications: Open office spaces, reception lobbies, auditoriums, VIP rooms

(3) 透气型矿棉天花板

【雪洞】

产品特点：

- ① 低频降噪效果出众， 极具空间层次感；
- ② 具有良好的透气性能， 可以促进室内空气流通， 提升室内舒适度， 特别适用于人流量密集的空间；
- ③ 材质： 湿法成型， 矿棉纤维， 珍珠岩
- ④ 防潮国标 RH90： 经国标检测， 湿度 90%， 温度 40°以下， 具备防下陷性能。

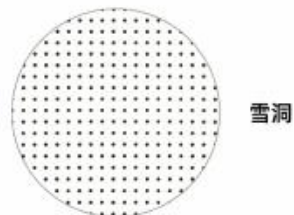
防火等级可选：

• 国标 B1 • 国标 A2

降噪系数： 0.85

反光度： 0.85

颜色： 白色



雪洞



BREATHD ORE COTTON CEILING

【XUEDONG】

Product Features:

Excellent low-frequency noise reduction with a strong sense of spatial depth.

Good breathability promotes indoor air circulation, enhancing comfort, especially in high-traffic areas.

Material: Wet-formed with mineral wool fibers and perlite.

Moisture Resistance: Tested to withstand 90% humidity and temperatures below 40°C, with anti-sagging properties.

Fire Resistance Levels:

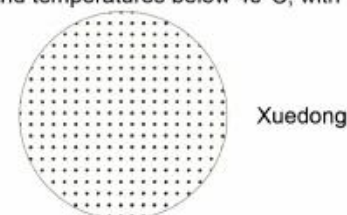
- National Standard B1

- National Standard A2

Noise Reduction Coefficient: 0.85

Reflectance: 0.85

Color: White



Xuedong

