

Cases of Product Application

Exterior wall finishing and thermal insulation works for residential buildings, schools, hospitals, office buildings, airports, etc.



Production Site of Leader Decorative Boards



400-152-5678

Address: Chengyang Collaborative Innovation Industrial Park, No. 614, Chuncheng Road, Chengyang District, Qingdao, Shandong

Website: www.sdljgroup.com

- Chengyang Collaborative Innovation Industrial Park: No. 614, Chuncheng Road, Chengyang District, Qingdao
- Laixi Circular Economy Industrial Park: No. 1, Shanfeng Road, Nanshu Town, Laixi
- Pingdu Green & New Building Material Industrial Park: No. 7, Guangda Road, Tianzhuang Town, Pingdu



Service account



Subscription account



Green leads the future of architecture

Leader Decorative Boards

Shandong Leader Technology Group Co., Ltd.

Company Introduction

Shandong Leader Technology Group Co., Ltd. (hereinafter referred to as Leader Group) is a large comprehensive company focusing on environmental protection technology, green building materials, construction engineering, prefabricated finishing, industrial park development and operation, and supply chain finance. Since its establishment, Leader Group has always been committed to the path of green development, promoting the development of circular economy through technological innovation and industry-university-institute-application integration modes, and creating a green, ecological and economic model of sustainable development.

Always following the concept of green development, aiming to "develop a green industry and promote circular economy", and adhering to the business philosophy of "technology support, market orientation and customer focus", the Company attaches importance to technological research and resource integration, closely cooperates with higher education institutions and research institutes, and sets up an academician workstation to lead industrial technological innovation and promote sustainable business development of the Company.

Leader Group has successively planned and constructed Chengyang Collaborative Innovation Industrial Park, Pingdu Green & New Building Material Industrial Park, and Laixi Circular Economy Industrial Park. Among them, Chengyang Collaborative Innovation Industrial Park covers an area of 1000m² and is a modern industrial park built as per 5A standards, providing a top-quality development environment for various innovative enterprises. Pingdu Green & New Building Material Industrial Park and Laixi Circular Economy Industrial Park focus on research and production of green products, such as green ecological bricks, prefabricated finishing wall panels, Class A inorganic composite polystyrene insulation boards, fire insulation integrated boards, and new roadbed materials. Through industrial cluster effects, they have achieved full industry chain coverage from R&D and production to sales and made positive contributions to promoting the development of the regional green building material industry.

In the future, Leader Group will continuously uphold the concept of green development, increase technological innovation efforts, expand business areas and make more contribution to building a beautiful green ecological environment and promoting sustainable development of the economy and society.

Honors



Leader Decorative Board Product System

1. Leader inorganic boards

2. Leader pre-coated boards

3. Leader integrated boards

I. Leader Inorganic Boards

Product Introduction



Leader inorganic boards are manufactured with the sintering-free, light, and green production process developed by the Company, which outperform the gypsum plasterboards, calcium silicate boards, aluminous gusset plates, carpenter's plywood, etc. currently available in the market. The product features a light weight, high strength, resistance to dampness and flame, and good reprocessability, superior to traditional boards in price-performance ratio and marking the upgrade in boards.

Main Technical Indicators

Item	Unit	Low density board	Medium density board	High density board
Density	g/cm ³	1.0<D≤1.20	1.2<D≤1.40	>1.40
Thermal conductivity coefficient	W/(m·K)	<0.25	<0.30	<0.35
Flexural strength	MPa	≥6-14	≥8-18	≥9-22
Moisture content	%		≤10	
Moisture movement	%		≤0.25	
Heat shrinkage	%		≤0.50	

Noniflammability: Class A non-combustibility in GB 8624-2006

Specifications and standards	<p>JC/T 412.1-2018 <i>Fiber Cement Flat Sheets Part 1: Non-asbestos Fiber Cement Flat Sheets</i></p> <p>GB/T 7019-2014 <i>Test Methods for Fiber Cement Products</i></p> <p>GB/T 23263-2009 <i>Determination of Asbestos in Products</i></p>
Inspection methods	<p>GB/T 5464-2010 <i>10 Non-combustibility Test Method for Building Materials</i></p> <p>GB/T 10294-2008 <i>Thermal Insulation-Determination of Steady-state Thermal Resistance and Related Properties-Guarded Hot Plate Apparatus</i></p>
Design atlas	13J103-7 <i>Artificial Panel Curtain Wall</i>

Specifications/Dimensions

Thickness	Length	Width
5mm	2400mm-3050mm	1220mm
6mm		
8mm		
10mm		
12mm		
15mm		
18mm		
20mm		

Product Advantages

Non-toxic, fireproof Incombustible Class A1 material. The board does not burn or produce toxic smoke in case of a fire.	Water and moisture proofing Excellent dampproof performance. The board maintains stable properties and resists to expansion or deformation where the humidity is high.	High resistance to wear High strength. The wall is solid and reliable, and resists to damage or break.	Sound and thermal insulation Excellent thermal insulation. The board has good thermal insulation and soundproof properties.
Resistance to deformation Suitable recipe. The board is produced with strict quality control, ensuring that the moisture movement and dry shrinkage are restricted to the optimal ranges.	Easy to install Dry operation is adopted for wall mounting. The keel and boards can be installed simply and quickly.	Super-long service life Stable property and resistance to acid/alkali. The board is resistant to acid and alkali, anti-corrosive, and resistant to damages caused by moisture or terminates. The strength and hardness of the board increase as time goes by, ensuring a super-long service life.	Safe and harmless There is no flying hazardous fibers and dust or hazardous radiation, making it suitable for varied types of buildings.

Testing Certification

检测报告
TEST REPORT

产品名称: 纤维水泥平板(无石棉纤维水泥板、纤维水泥板、纤维水泥板)

委托单位: 青岛莱钢智慧建造新材料科技有限公司

检测类别: 型式检验

建研院检测中心有限公司
CABR TESTING CENTER CO., LTD
国家建筑工程质量检测中心

NATIONAL CENTER FOR QUALITY INSPECTION & TEST OF BUILDING ENGINEERING

报告编号 (No. of Report): BRTC-021-2023-00162 第 2 页 共 3 页 (Page 2 of 3)

序号	检测项目	检测结果	检测标准
1	密度 (g/cm ³)	GB/T 9084-2021	0
2	抗折强度 (MPa)	GB/T 9074-2007	范围: 2.4-2.9
3	吸水率 (%)	GB/T 17748-2016	无限制, 凸点: 吸水率≤0.5, 凹点: 吸水率≤1.5
4	耐水性	GB/T 17748-2016	无限制, 凸点: 吸水率≤0.5, 凹点: 吸水率≤1.5
5	耐冻融性 (次)	GB/T 17748-2016	无限制
6	耐老化性 (h)	GB/T 9793-2006	0
7	耐老化性 (h)	GB/T 17748-2016	无限制, 凸点: 吸水率≤0.5, 凹点: 吸水率≤1.5
8	耐老化性 (次)	GB/T 9084-2021	范围: 11000 次, 不脱落
9	耐老化性 (h)	GB/T 9793-2006	0.3
10	耐老化性 (h)	GB/T 17748-2016	无限制, 凸点: 吸水率≤0.5, 凹点: 吸水率≤1.5
11	甲醛释放量 (mg/m ³)	GB/T 17087-2013	0.017

1. 检测结果以 1 组数据方式予以说明。
2. 本试验报告中 24h 吸水率的检测, 在 20±0.5℃, 相对湿度: (40-60) % 检测温度: (10±2) °C, 标准大气压: 101kPa/760mmHg 条件下进行。

II. Leader Pre-coated Boards

Leader pre-coated boards use Leader inorganic boards as substrates, with the surface finished and coated by means of rolling, sprinkling, spraying, laminating, cladding, transfer, etc. to form interior wall and exterior wall decorative boards that can be directly installed and used.

Interior Wall Panel

[Product Category]

Pre-coated boards include interior wall and exterior wall decorative boards. Interior wall panel products include solid color boards, transfer boards, skin-touch matte boards, lamination boards, and cladding boards. Exterior wall panels include real stone paint, water-in-water, and sand-in-water products.

[Product Advantages]

Free of asbestos and radioelements; free of benzene and formaldehyde; high strength, bending resistant, impact resistant, and sagging resistant; fireproof and flame-retardant, pollution resistant, easy-to-clean, anti-corrosive, soundproof.

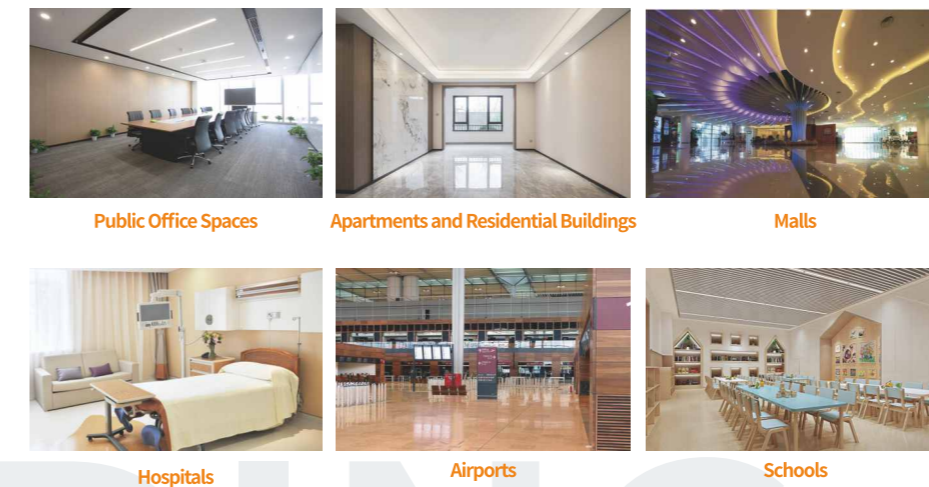
[Product Colors]

Varied patterns: Stone and wood grains can be customized.



[Applications]

Interior finishing of prefabricated buildings, schools, office buildings, libraries, shopping malls, theaters, stadiums, hospitals, airports, waiting halls, etc.



Exterior Wall Decorative Board

Leader exterior wall decorative boards are formed with Leader inorganic boards and prefabricated with finishing coating. The finishing coating is made from high-tech modified resin and high-stability pigment, which is all-water based, features realistic color and long durability, and can be used to create varied finishing effects such as planes, stereographic surfaces, and bush-hammered surfaces.

Real Stone Paint

Real stone paint, also referred to as "stone paint or stone-like paint", features excellent air permeability, anti-cracking property, strong texture effect, good weather resistance, and good color fastness to sunlight.



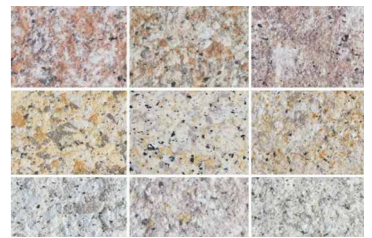
Water-in-Water Paint

The water-in-water paint is a high-end stone-like paint for which the cladding and suspension technologies are adopted to clad and mix varied colorful paint granules in a transparent emulsion. Such paint has enriched colors but is inferior to real stone paint regarding air permeability and weather resistance.



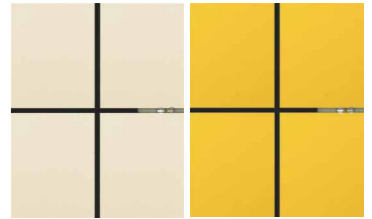
Sand-in-Water Paint

The sand-in-water paint is a product that imitates bush-hammered surface granite. The product has successfully broken through the technology barrier of high suspension multi-layer dispersion for solid and liquid fusion, and combines water-in-water and real stone paint products in recipe production. Its pattern has a stronger sense of three-dimensionality and hierarchy, while the product's weather resistance and crack resistance are also more excellent.



Fluorocarbon Paint

The fluorocarbon paint is a product using fluoro resin as the primary film-forming substance, also referred to as fluorocarbon paint, fluorine paint, fluorine resin paint, etc. It has extraordinary weather resistance. The paint film does not scratch off or fade for a long time, with a life expectancy of up to 20 years. It has outstanding salt stain resistance and chemical resistance, and is resistant to fogging and flame-retardant.



III. Leader Exterior Wall Thermal Insulation Integrated Boards

(Customizable Thermal Insulation Material and Thickness)

Leader integrated boards combine Leader inorganic boards and Class A inorganic composite polystyrene insulation boards to considerably shorten the construction period and save multiple procedures in comparison with traditional thermal insulation methods. Leader integrated boards are fixed with the concave-convex fixation system to achieve low carbon and energy saving, finishing, and a beautiful appearance with the fire protection function integrated into the building. The product not only has excellent fire resistance, but also provides good thermal insulation to effectively control the energy consumption of the building. The unique finishing effect can adapt to the style of different buildings and add beauty and quality to the building, showing great market potential in the construction industry.



LEADING GROUP