



HAILING CONSTRUCTION GROUP

MGO/MGSO₄ FIREPROOF BOARD

SANDWICH PANEL/ HPL BOARD/ FIRE DOOR PANEL



HAILING CONSTRUCTION GROUP CO., LIMITED

INTRODUCTION

HAILING is a professional manufacturer of MgO/MgSO_4 fireproof board and related highly processed products (like sandwich panel, HPL board etc.) in Jiangsu Province, near Shanghai. Our company has latest full automatic fireproof board production lines, laser-cutting, pressing machines and etc. With high purity raw materials and excellent formulations, strict quality management (each batch of board will be tested in our factory before loading), OEM/ODM support and attentive service, we have gained more than 20 years' manufacturing and exporting experience to more than 60 countries most of which are developed countries. Our company has good reputation for our MgO/MgSO_4 board usage and established long-term relationships with customers.

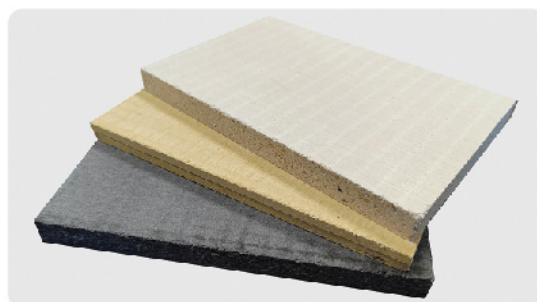


MGO MgSO_4 (MAGNESIUM OXIDE) FIREPROOF BOARD

HAILING MgO fireproof board is environmental friendly, widely used in construction and decoration. We use highly-purified active MgO as main fireproof material, high-quality magnesium cement/magnesium sulfate as the main cementing material to solidify other materials, alkali-resistance fiberglass mesh to ensure the high strength of board, soft sawdust and light non-combustible perlite as filling materials.

Specification

- **Standard size:** 1200/1220*2400/2440/2700/3000mm, etc.
- **Thickness:** 3mm-25mm
- **Surface treatment:** slurry, non-slurry
- **Color:** white (standard), grey, green, red, yellow, etc.
- **Edge style:** square/tapered/beveled edge



Technical Data (12mm Tested)

Density	0.95-1.15g/cm ³
Fireproof characteristic	A grade non combustible
Flexural strength	14.2MPa
Moisture content	6%
Drying shrinkage ratio	0.26%
Swelling ratio	0.4%
Impact strength	3.0KJ/m ²
Apparent density deviation	1%
Non-combustible performance	according to GB8624-1997, Combustibility is A1 Class
Fire rating limited	90/120 mins
Anti-halogenation property	no water and no getting damp
Security	100% doesn't include asbestos, formaldehyde and benzene
Radioactivity	not limited by the scope of application

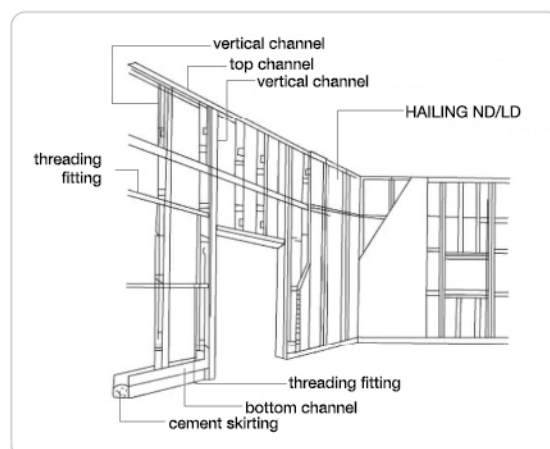
Advantage

- **A1 fireproof:** won't release toxic gas when it is burning
- **Moisture resistant:** won't mildew and soften in wet condition
- **High strength:** won't break when installing
- **Chloride free:** won't corrode metal and screw and damp the wall
- **Easy cut:** could be cut by utility knife
- **Application:** indoor and outdoor partition wall, ceiling and floor for office building, hotel, shopping mall, hospital, airport, subway, library, venue, sports field, factory and etc.



INSTALLATION REQUIREMENTS

- **Select metal channels and ceiling grids**
 - A. Good endurance of the ceiling channels and grids
 - B. No deform in the ceiling channels and grids
- **Select appropriate board**
 - A. Proper thickness (in accordance with the usage)
 - B. Proper shape
- **Use screw with proper length to fix the board**
 - A. The sequence of screw tacking is from the middle to the edges
 - B. It is forbidden to tack within 1cm of the edge
 - C. The space between the screws is 10cm-20cm
 - D. The distance between the top of the screw and the surface of the board should >0.5
 - E. An anti-rust treatment in advance is necessary if the screw is iron



- **The seaming treatment of the board**

Fill the elastic putty directly into the seaming, press until no space, air-dry, burnish with the sand paper.

- **Lacquering of the board**

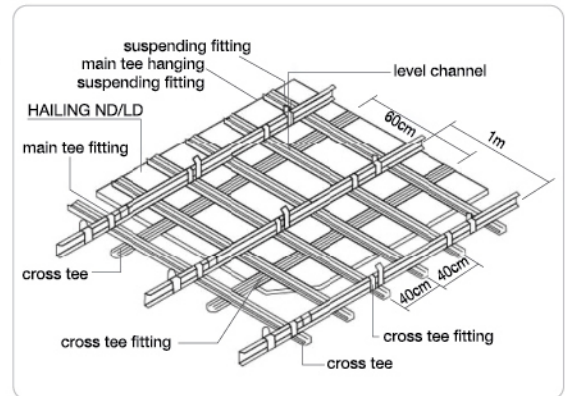
The non-woven side of board should adown or forth, putty filling should be done in one week, air-dry, paint latex.

- **Surface treatment of the board**

A. Remove the rust and the putty, dry the board

B1. Simply decorate the surface of the board: paste wallpaper, painting, and etc.

B2. Adhibit aluminum composite panel, tiles or other materials with proper cementation.

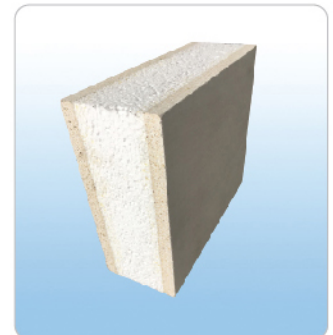


STRUCTURAL INSULATED PANEL (SIP) EPS/XPS MGO/MGSO₄ SANDWICH PANEL

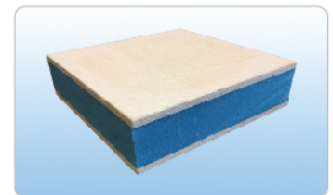
- **Core material:** expanded polystyrene (EPS), extruded polystyrene (XPS), etc.
- **Surface material:** MgO/MgSO₄ fireproof board, fiber cement board or other boards.
- **Standard size:** 600/1200*1200/1800/2400/2700/3000mm, etc.
- **Thickness:** 25-300mm
- **Connection:** square, tongue & groove, two or four sides closed, mini SIP joining spline etc.

Feature

- Good performance of sound insulation and keep warm.
- Fireproof, flame retardant-grade XPS and EPS.
- Energy efficient, green and environmental friendly.
- Easy to install and combine discretionarily. Size can be customized.
- Application: external and interior wall, proof panel, floor, prefab house, etc.



MGO BOARD+EPS+MGO BOARD



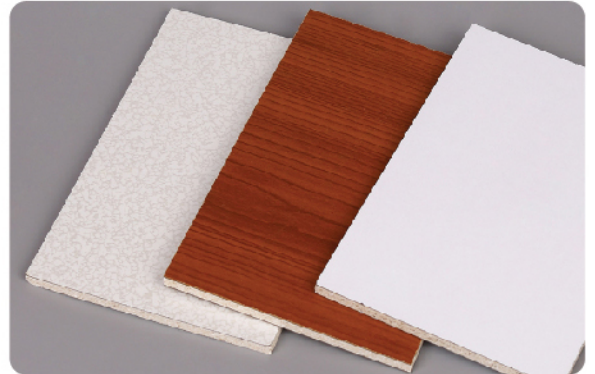
MGO BOARD+XPS+MGO BOARD



HPL (HIGH PRESSURE LAMINATED) MgO/MgSO_4 BOARD

HAILING HPL MgO/MgSO_4 board is a new advanced beautiful fireproof and protective veneer board which uses inorganic MgO/MgSO_4 fireproof board as its base plate, produces through a special technique and composites with fireproof decorative board of various patterns and colors.

- **Surface treatment:** gloss, half-gloss, mini texture, rundle, etc. Hundreds of surface patterns for your choice.
- **Thickness:** 3.5mm-15mm
- **Standard size:** 2400/2440*1200/1220mm, 2400*900mm, 1800*900mm, etc.
- **Feature:** fireproof, heatproof, anti-wet, anti-bacterium, defend mildew, anti-static and simply cleaning.
- **Application:** decoration of indoor wall and ceiling, furniture and cabinet, bathroom cuts off, experiment set, car and ship base-lining and bowling channel, tunnel and basement wall board, etc.



Color Chart



HL-8158

Crystal stone



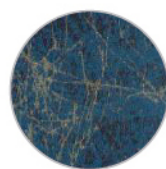
HL-8162

Light computer flower



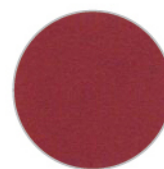
HL-8139

Gold chameleon



HL-8169

Golden dream

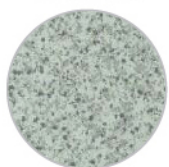


HL-8003

Jujube red



HL-T3-1



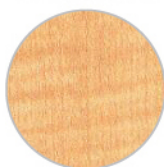
HL-8117

Black sesame



HL-8161

Red golden spot



HL-8174

New red shadow



HL-8210

Light zebra wood



HL-8305

NEW



HL-8308

NEW



HAILING

FIRE DOOR PANEL EXPANDED MgO/MgSO_4 PERLITE BOARD

HAILING Fire Door Panel — Expanded MgO/MgSO_4 Perlite Board is special usage for wooden fire door/steel fire door. The panel is with strong adhesive force, fast solidifying under cold pressing, high strength, low thermal conductivity, moderate bulk weight, good hydrophobic performance, acid and alkali resistance, heat insulation, flame retarding and discharging no toxic gas after burned under high temperature (in compliance with Standard GB/T20285-2006).

Benefit

- No asbestos formaldehyde, no smoke when met fire.
 - Strong fire resistance, up to 3 hours.
 - High strength, flexible substrate.
 - Waterproof and moisture proof.
 - Excellent sound absorption and noise reduction.
 - Excellent thermal insulation and energy conservation.
 - Easy to construct and save time.
- Size: 900*2100mm, 1000*2200mm, 1200*2400mm, etc.
Thickness: 25-70mm Density: 250-650kg/m³

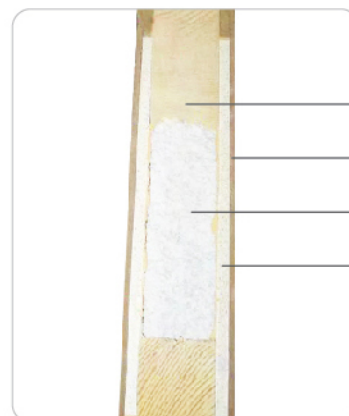


Application

Used as door core in steel and wood fireproof door.

Method: put door board on the both sides of cement foam door panel directly with glue.

- 6mm or 9mm MgO/MgSO_4 board as base board.
- 38mm-45mm expanded MgO/MgSO_4 perlite board as fire door core.
- MgO/MgSO_4 blocks for fill in frame.
- MgO/MgSO_4 strip as fire door frame.
- HPL MgO/MgSO_4 board as door decorative skin.



The Wood Frame

MDF Board

Fireproof Door Core Panel

Magnesium Oxide Board

Technical Data

Density	250-350kg/m ³
Folding strength	≥8Mpa
Compressive strength	0.35-0.8(Mpa)
Thermal conductivity	≤0.035-0.076W/(m.k)
Moisture content	≤10 %
Welling rate(%)	≤0.25
Fireproof limit	0.6-4h
Fireproof temperature	1200℃
Sound-absorption coefficient	0.03-0.8

ROCK WOOL

HAILING rock wool board is made from basalt, an inorganic raw material. It is produced through heating basalt at 1350°C - 1400°C and transforming into fibers, which are bonded together using a thermosetting resin. It is light and easy to install, mainly used for thermal and acoustic insulation where high compressive strength is required such as over-deck, floors, sandwich panels, and dry wall partitions.

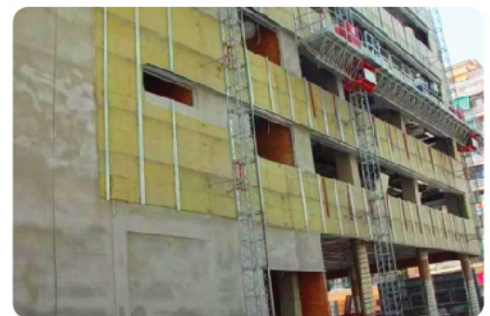
Size: 500/600/1000*1000/1200mm

Thickness: 30-150mm **Density:** 40-200kg/m³



Benefit

- Small thermal conductivity
- Good sound absorption
- Waterproof and fireproof
- Easy handling and installation
- Energy saving, no harm to human and environment protection



Thickness (mm)	Density kg/m ³						
	60-75	80-95	100-115	120-130	140-160	170-190	200
30				R	R	R	R
40			R	R	R	R	R
50	R	R	R	R	R	R	R
60	R	R	R	R	R	R	R
80	R	R	R	R	R	R	R
100	R	R	R	R	R	R	R

We also can make special production according to clients' specifications.

FIBERGLASS MESH TAPE/PAPER TAPE

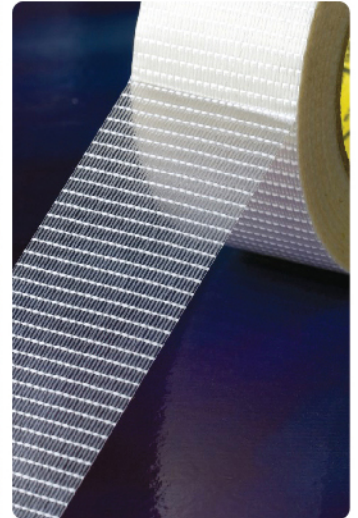
Fiberglass self-adhesive tape system is made of high quality glass fiber fabric coated with acrylic copolymer and cut. Because the chemical properties of glass fiber are stable and not easy to oxidize, fiberglass self-adhesive tape has incomparable advantages over other similar products.

Specification

- Width: from 5cm to 1.2m
- Roll length: 10m, 20m, 30m, 50m, 100m, 150m, or as required.
- Mesh cell: from 2mm*2mm to 5mm*5mm, etc.
- Weight: 60g/m² to 75g/m², or as required.

Feature

- Excellent self-adhesive
- Good alkali and acid resistant
- High tensile strength and deformation resistance
- Crack and corrosion resistance
- Heat-proof, cold-proof, fire-resistant, thermal insulation



Usage

- The use is easy and fast, no pre-plastering required, no bubbles. It is used to cover or repair joints, cracks and holes on walls, roofs, etc.



HAILING

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