



河北圣航
HEBEI SHENGHANG

“铁冠牌”氧化镁高强防腐隔热瓦

“Iron Crown”High Strength Fireproof Anti-Corrosion Insulating MgO Roofing sheet



“Iron crown” High strength Fireproof anti-corrosion Insulating MgO roofing sheet is a kind of energy-saving and environmental protect roofing material. It is made of several kinds of inorganic chemical materials, after production line processing and combined. It was made of MgO, MgCl₂, talcum powder, fiber glass cloth, and other fireproof materials.

Product Features

- 100% Non-asbestos; ○High Strength;
- Fire-Proof (A1); ○Heat-Insulation;
- Sound Insulation;
- Anti-Corrosion; Acid & Alkali Resistant;
- Anti-Aging; Long Service Life;
- Anti-typhoon; Shock Resistant;

Good Processability:

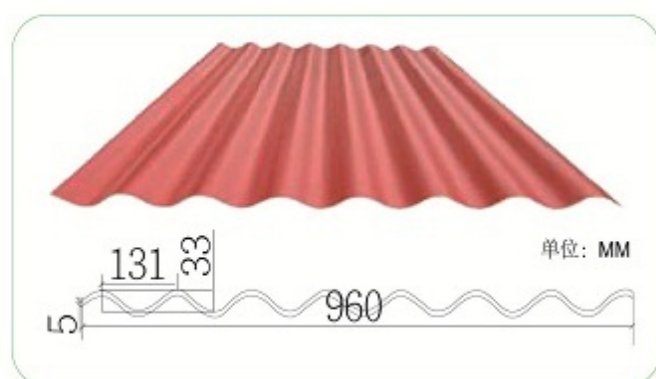
The MGO roofing sheet could be processed by saw, nails, drilling, Installed simply and quickly, save material cost and labor cost.



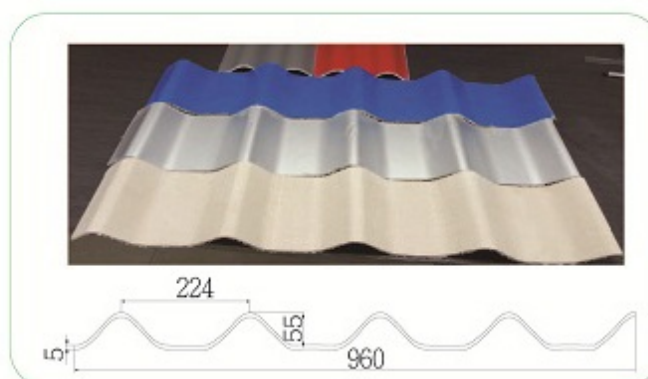
100% Non-Asbestos 100% Non-Formaldehyde

Specification

Length	1.0m-5.8m ($\pm 5\text{mm}$) 1800mm; 2000mm; 2400mm ;3000mm ;5800mm
Width	0.96m; 0.72m; ($\pm 5\text{mm}$)
Thickness	4mm-5mm ($\pm 0.5\text{mm}$)
The MgO roofing sheets can be made in different sizes according to customer's requirement.	

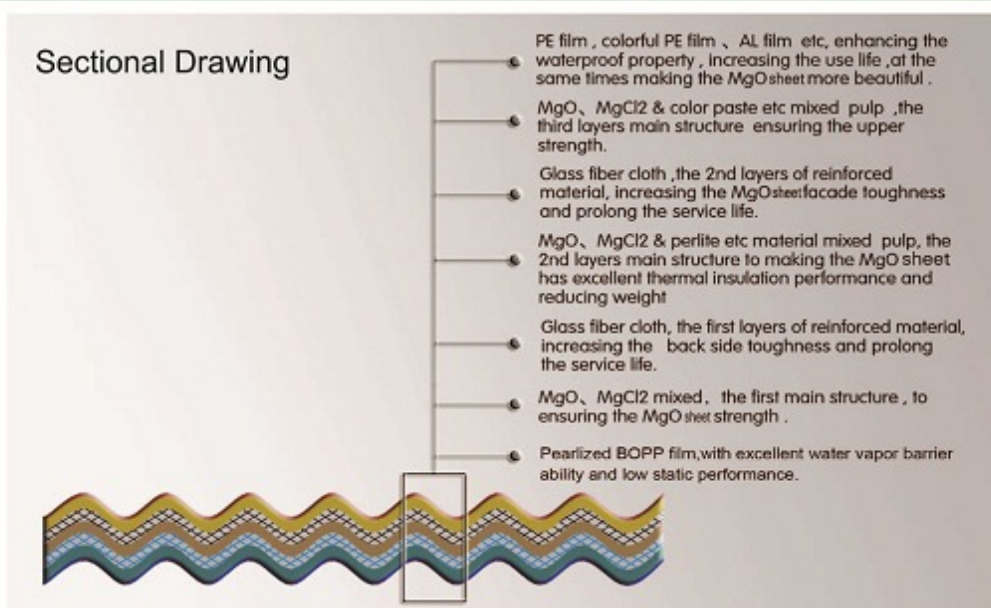


Middle wave profile



Big wave profile

Sectional Drawing

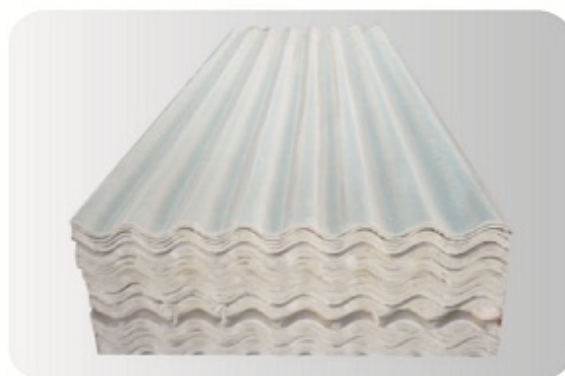


According to different market demand, there are three series of MgO roofing sheets

1. MgO Glazed roofing sheet

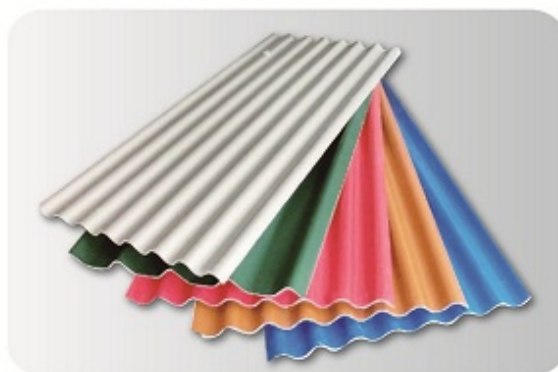
Its main color is white beige, other colors also can be produced, such as red, green, blue. But, under certain environment conditions, sometimes the surface color will be whitening, however its strength and function will not be affected. White beige color will not change.

This kind of roofing sheets could be used more than 10 years. Its cost is low.



2. PET Membrane MgO Roofing sheets

PET membrane is a kind of anti-aging film, this kind of roofing sheets could be in different colors according to customer's requirement. The performance of UV blocking, anti-corrosion, acid & alkali resistant are better and service life are longer. This kind of roofing sheets could be used more than 20 years.



3. Aluminium Foil MgO Roofing sheets

The surface is Aluminium foil. Its performance of anti-corrosion, UV blocking and Acid & alkali resistance is the best. The Aluminium foil MgO roofing sheets could be used more than 30 years.



Performance Demonstrate

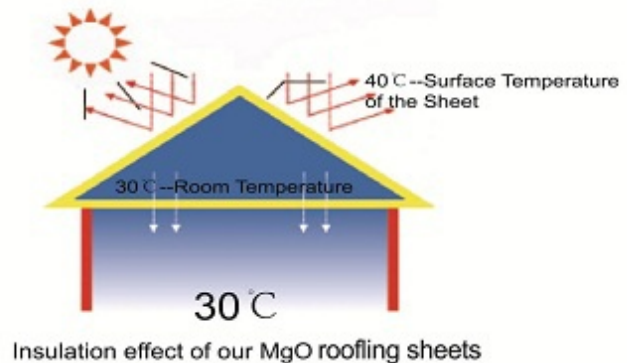
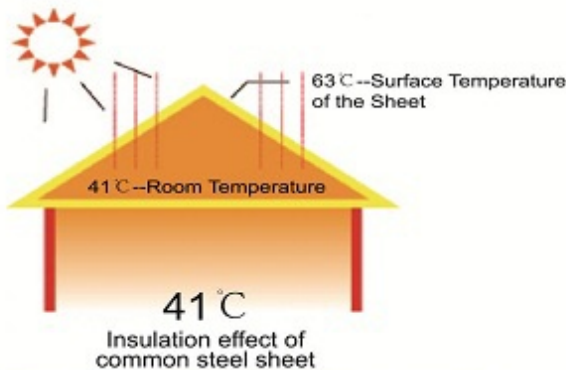
Due to its excellent performance of corrosion-resistant, acid & alkali resistant, weather resistant, energy-saving, environmental-friendly, etc., prolong the service life of the buildings, reduce the cost of labor and the replacement of the installation, make the integrated cost of application much lower. It is the best substitute of asbestos sheets, steel sheets, cement sheets and thatched roof.

Performance	
 Environmental Friendly	100% Non-asbestos, non-formaldehyde and other harmful substance, harmless to environment and people's health.
 FIRE Proofing	The MgO Roofing sheet is made of various inorganic materials, Its fire-retardant reached grade A1. Its refractoriness temperature over 1200 degree. This refractoriness temperature is far more than the other roofing materials, such as cement sheets, iron sheets, PVC sheets, etc.,
 Heat Insulation	The mainly raw material of our roofing sheets is MgO, MgO is a kind of natural insulation material, the thermal conductivity factor of our roofing sheet is 0.169w/m.k, this factor far less than other roofing material, so our MgO roofing sheet is a good choice of energy-saving and cost-reducing roofing material.
 High Strength	The MgO roofing sheet is very strong and shock-resistant, Horizontal Breakage: >3100N/M Vertical Breakage: >305 N/M Shock Resistant: Do not craze, peel off, penetrate on the surface after 1kg iron ball fall on it from 1.5m height.
 Acid & Alkali Resistant	When the PH value is between 2 and 12, the sheet will not be affected. The sheet could offering superb resistance to the acid & alkali which from the air and raining or other factors.
 Service Life	The laboratory testing shows that the service life of MgO roofing sheets MgO glazed roofing sheets >10 years PET membrane MgO roofing sheets > 20 years Aluminium Foil MgO roofing sheets > 30years After repeated freezing and thawing test, the tiles no bubbling, stripping, crack.
 Sound Insulating	When raining out-side, no big noise inside room, so people could work and live normally.
 Water Tightness	After soaking in the water, there are no water spot on the back side.
 Anti-typhoon	Because our MgO roofing sheets with high strength, high density, good toughness and high screw holding capability, so our MgO roofing sheets could resist typhoon, so it is very popular in Typhoon-prone areas.

Application

The high performance characteristics make the MgO roofing sheets suitable for being used in the roof application of high temperature, high corrosion industry, such as chemical plant, feeding farms, casting factory, work shop, warehouse, market shed, garage, roofing of residence, etc.

Heat Insulation Test (the Outside Temperature is 34 °C)



Comparison item	"Iron Crown" MgO insulation roofing sheets	Color steel sheets	Cement sheets
Acid & Alkali resistant	PH value between 2 and 12, the sheets will not be affected.	poor corrosion resistance	Perishable
Fire-proof	fire-retardant reached grade A1. No ignition combusting in 1200 °C flame.	Coated with fireproof paint,when temperature up to 800 °C, the steel sheets began to melt; 1000 °C will burning	The common cement products refractory temperature is about 400 °C,
Heat conductivity	0.169	46.52	According to the thickness
Strength	High strength; Good Toughness, No crack	Easy bending; easy broken, Good Toughness	Easy damaged, easy broken,
Dimension keeping	Never deformed	Easy deformed	Easy deformed, easy broken, easy damaged
Service life	More than 15 to 30 years in different series products	3 to 5 years	About 5-8 years

Project cases



Galvanized processing factory

Construction area: 5000sqm

Materials used:

Aluminium Foil MgO Roofing sheets

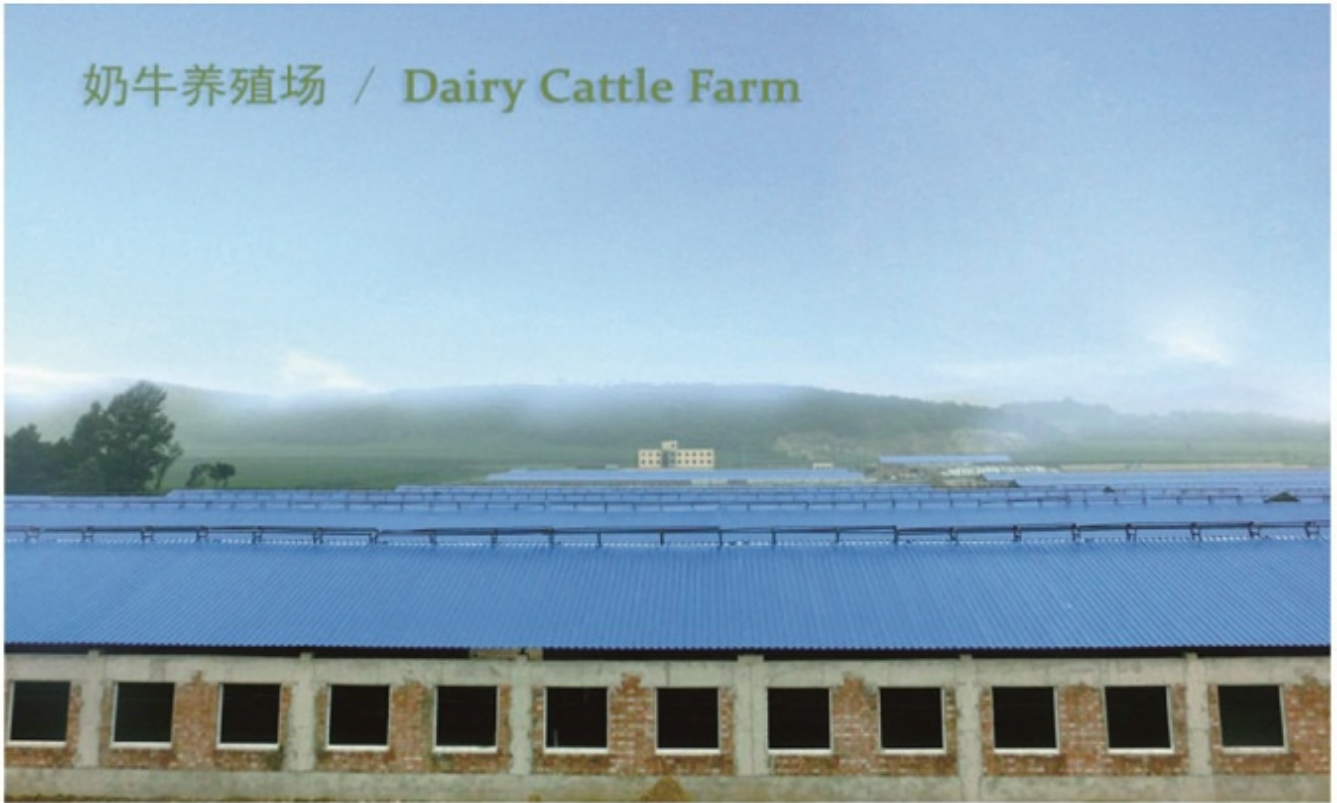
As the roofing and wall panel



Due to the High temperature, high corrosion in the Galvanized processing factory so the Aluminium Foil MgO roofing is the best choice because its excellent performance of anti-corrosion and Acid & Alkali resistant, heat resistant.



奶牛养殖场 / Dairy Cattle Farm



Project name: Dairy cattle farm

Construction area: 10000sqm

Material used: PET membrane MgO roofing sheets

Because the cattle's excrement and breath exhaled with strong corrosion, so they choose the PET membrane as the wall panel and roofing material.

because its excellent performance of anti-corrosion and Acid & Alkali resistant, heat resistant.

The cattle could live in the farm comfortably, produce more milk and Create more economic benefits



Other projects



As The Insulation Roofing In a Hotel



Market Shed Gallery



Solar panel on the Aluminium foil MgO roofing sheets



Garage



As The Insulation Roofing In Casting Factory



Chicken house

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