



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. The roofing sheet is made of several kinds of inorganic chemical materials, after production line processing and combined. It was made of a 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:

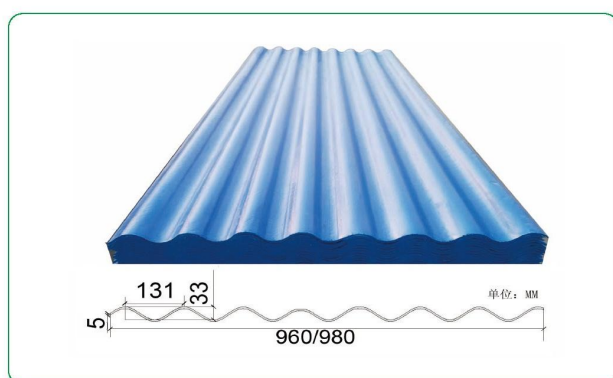
The MGO roofing sheet could be processed by saw, nails, drilling, Installed simply and quickly, save material cost and labor cost.



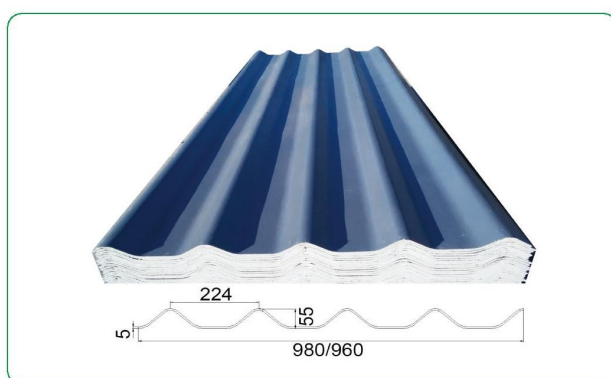
-----100% Non-Asbestos 100% Non-Formaldehyde-----

Specification

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

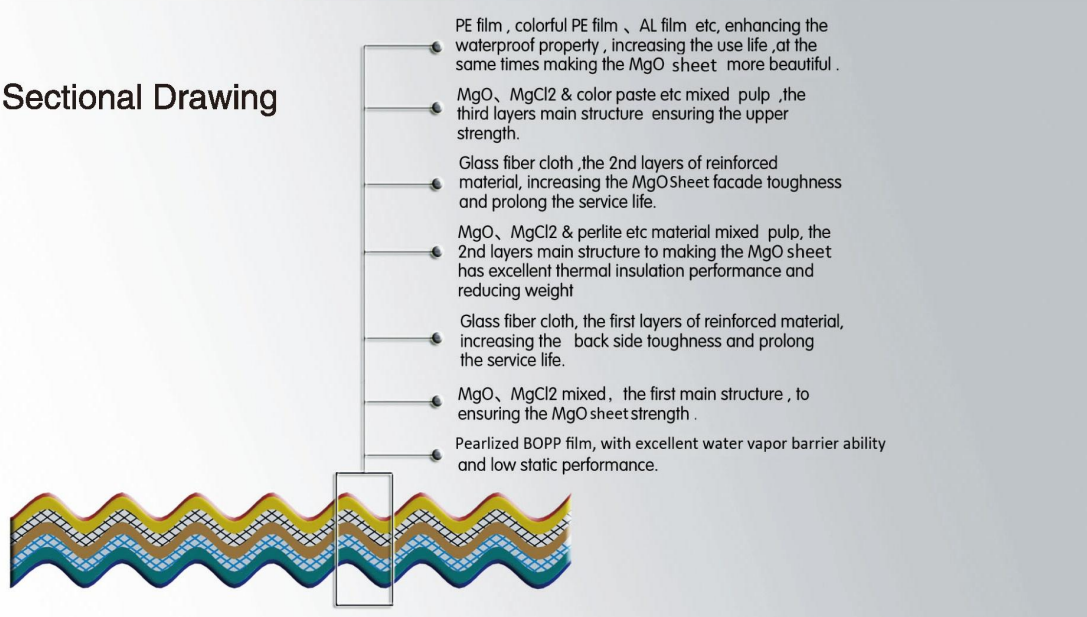


Middle wave profile



Big wave profile

Sectional Drawing





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

1.MgO Glazed roofing sheet

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



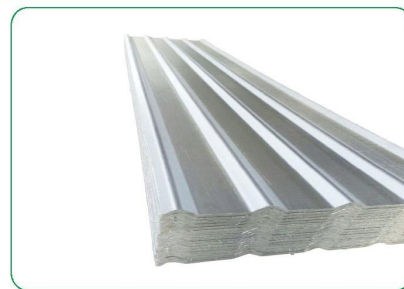
2.PET Membrane MgO Roofing sheet

PET membrane is a kind of anti-aging film, this kind of roofing sheet could be in different color according to customer' s requirement. The performance of UV blocking, anti-corrosion; acid & alkali resistant are better and service life are longer.



3.Aluminium Foil MgO Roofing sheet

The surface is Aluminium foil. Its performance of anti-corrosion, UV blocking and Acid & alkali resistance is the best.



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

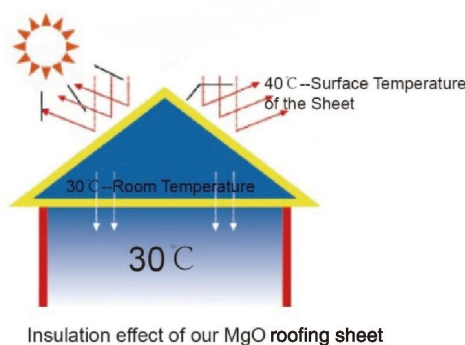
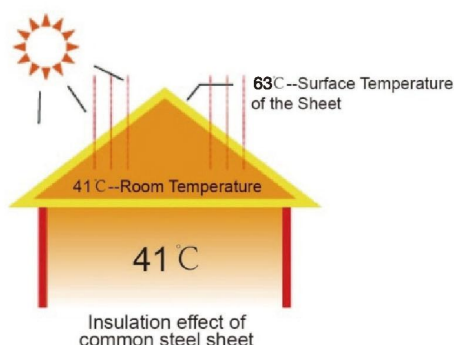
 <p>Environmental Friendly</p>	<p>100% Non-asbestos, non-formaldehyde and other harmful substance, harmless to environment and people's body.</p>
 <p>FIRE Proofing</p>	<p>The MgO Roofing sheet is made of various inorganic materials, Its fire-retardant reached grade A1. Its refractoriness temperature over 1200 degree. This refractoriness temperature is far more than the other roofing materials, such as cement sheets, iron sheets, PVC sheets, etc.</p>
 <p>Heat Insulation</p>	<p>The mainly raw material of our roofing sheet 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.</p>
 <p>High Strength</p>	<p>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.</p>
 <p>抗酸抗碱性 Acid & Alkali resistant</p>	<p>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.</p>
 <p> Aging Resistant Service life</p>	<p>The laboratory testing shows that the service life of MgO roofing sheets >30years After repeated freezing and thawing test, the sheet no bubbling, stripping, crack.</p>
 <p>Sound-insulation</p>	<p>When raining out-side, no big noise inside room, so people could work and live normally.</p>
 <p>Water Tightness</p>	<p>After soaking in the water, there are no water spot on the back side.</p>
 <p>Anti-typhoon</p>	<p>Because our MgO roofing sheets with high strength, high density, good toughness and high screw holding capacity, so our MgO roofing sheets could resist typhoon, so it is very popular in Typhoon-prone areas.</p>



Application

The high performance characteristics make the MGO roofing sheet 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℃)



Comparison item	Color steel sheets	Cement sheets	"Iron Crown" MgO insulation roofing sheet
Acid & Alkali resistant	poor corrosion resistance	Perishable	PH value between 2 and 12, the sheet will not be affected.
Fire-proof	Coated with fireproof paint , when temperature up to800 ℃, the Steel sheets began to melt; 1000 ℃ will burning	The common cement products refractory temperature is about 400℃,	fire-retardant reached grade A1. No ignition combusting in 1000 ℃ flame.
Heat conductivity	46.52	According to the thickness	0.169
Strength	Easy bending; easy broken , Good Toughness	Easy damaged, easy broken,	High strength; Good Toughness, No crack
Dimension keeping	Easy deformed	Easy deformed , easy broken, easy damaged	Never deformed
Service life	3 to 5 years	About 5-8 years	More than 15 to 30 years in different series products

Project cases



Galvanized processing factory

Construction area: 5000sqm

Materials used:

Aluminium Foil MgO Roofing sheet
As the roofing and wall panel



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





MgO Roofing Sheets

