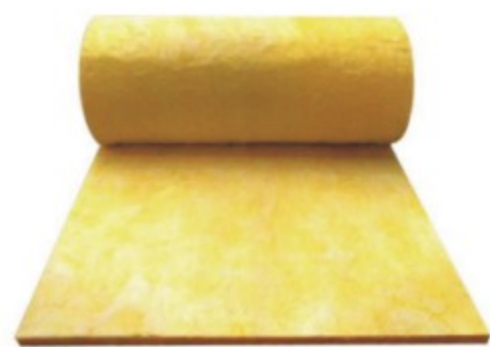


## Kingflex Glass Wool Blanket



### Product Description

The centrifugal glass wool blanket is a product made in a process in which glass fiber is made from molten glass using the patented centrifugal method and processed with addition of environmental adhesive mainly imposed of thermosetting resin.

### Application

it is the best material used for the insulation and sound absorption of steel structure, they widely apply for industrial plants, warehouses, public facilities, exhibition centers, shopping centers, cold stores and a variety of indoor playgrounds, sports grounds and other buildings.

### Technical Data

Item	Unit	Index	Standard
Density	kg/m <sup>3</sup>	10-48	GB/T 5480.3
Average fiber dia	μm	5-8	GB/T 5480.4
Water content	%	≤1	GB/T 16400-2003
Grade of combustibility		Non-combustible Grade A	GB 8624-1997
Reshrinking temp	℃	250-400	GB/T 11835-2007
Thermal conductivity	w/m · k	0.034-0.06	GB/T 10294
Hydrophobicity	%	≥98	GB/T 10299
Moisture rate	%	≤5	GB/T 5480.7
Sound absorption coefficient		1.03 product reverberation method 24kg/m <sup>3</sup> 2000HZ	GBJ47-83
Slag inclusion content	%	≤0.3	GB/T 5480.5

## Kingflex High-temperature glass wool blanket



### Product Description

High temperature resistant glass wool thermal insulation material is composed of elastic thin fiber glass and special high temperature adhesive. Its lightweight, durable, heat preservation performance is superior.

### Application

it is generally used in power station flue warm air duct and steam pipeline, it also used in the insulation for the pipe with the diameter exceeding 300mm and noise reduction for high temperature mediums such as boilers, reaction vessels, shells of tank, piping etc, in the power plant, chemical industry and pharmaceutical industry.

### Technical Data

Item	Unit	Index	Standard
Density	kg/m <sup>3</sup>	10-48	GB/T 5480.3
Average fiber dia	μm	5-8	GB/T 5480.4
Grade of combustibility		Non-combustible Grade A	GB 8624-1997
Reshrinking temp	℃	500	GB/T 11835-2007
Thermal conductivity	w/m · k	0.034-0.07	GB/T 10294
Hydrophobicity	%	≥98	GB/T 10299

## Kingflex Glass Wool Blanket with different facings



### Product Description

In order to satisfy the special requirements of customers, we have developed various types of foil-clad products, solving the problems of damp-proof, sound-absorption, anti-corrosion, fine appearance, the foil-clad increases the property of anti-broken, so as not to be destroyed and has high intensity of tensile, in addition, it also has fine appearance and easy to be installed.

The facings include reinforced aluminum foil, perforated aluminum foil-clad, PVC foil-clad, black glass fiber foil-clad, etc.

## Kingflex Glass wool Board



Density: 24-100kg/m<sup>3</sup>

Thickness: 30-80MM

Facing: Aluminum Foil or As required

### Product Description

It is semi-rigid and rigid boards manufactured from stable glass fibres bonded with thermosetting resins. They are capable of withstanding the extreme temperatures encountered in industrial applications or in flat roofs. They can withstand normal loads met in domestic and commercial structures when used below floor screeds. They are easy to handle and cut into intricate shapes. They are also light in weight, strong and resilient.

### Application

- For thermal and acoustic insulation of concrete floors in order to reduce energy losses and transmission of impact sound.
- For insulation of single leaf walls with dressed stone or marble facings and cavity wall construction, precast structures and prefabricated buildings.
- For thermal insulation of concrete and metal roof decks.
- For thermal insulation of industrial applications; boilers, ovens, refrigerators, storage tanks, marine and road transport.

### Technical Data

Item	Unit	Index	Standard
Density	kg/m <sup>3</sup>	24-100	GB/T 5480.3-1985
Average fiber dia	μm	5.5	GB/T 5480.4-1985
Water content	%	<1	GB/T 3007-1982
Reaction of fire classification		A1	EN13501-1:2007
Reshrinking temp		>260	GB/T 11835-1998
Thermal conductivity	w/m.k	0.032-0.044	EN13162:2001
Hydrophobicity	%	>98.2	GB/T 10299-1988
Moisture rate	%	<5	GB/T 16401-1986
Sound absorption coefficient		1.03 product reverberation method 24kg/m <sup>3</sup> 2000HZ	GBJ 47-83
Slag inclusion content	%	<0.3	GB/T 5480.5

## Kingflex Air-conditioning board



Density: 75-100kg/m<sup>3</sup>

Thickness: 25-40MM

Facing: Aluminum Foil or As required

### Product Description

Air-conditioning board is a plate product with a fixed strength after hot-setting the centrifugal glass wool. Glass wool air conditioning board can insulate, save energy and reduce the cost for the air-conditioning system. It has excellent performance, such as sound-absorption, reducing construction load, fast process, shorten construction cycle, etc.

### Application

It is mainly used for the separating wall in the high-grade building, ceiling, air-conduct or inner wall of bellows for thermal insulation, or machine shops for noise adsorption, or metal ceiling for control of moisture. High density panels with laminated facing can be used for air-conditioning duct system.

### Technical Data

Item	Unit	Index	Standard
Density	kg/m <sup>3</sup>	75-100	GB/T 5480.3-1985
Average fiber dia	μm	5.5	GB/T 5480.4-1985
Water content	%	<1	GB/T 3007-1982
Reaction of fire classification		A1	EN13501-1:2007
Reshrinking temp		>260	GB/T 11835-1998
Thermal conductivity	w/m.k	0.032-0.044	EN13162:2001
Hydrophobicity	%	>98.2	GB/T 10299-1988
Moisture rate	%	<5	GB/T 16401-1986
Sound absorption coefficient		1.03 product reverberation method 24kg/m <sup>3</sup> 2000HZ	GBJ 47-83
Slag inclusion content	%	<0.3	GB/T 5480.5

## Kingflex Glass Wool Batts



Density: 10-24kg/m<sup>3</sup>

Thickness: 150-200mm

Length: 1160-1200mm

Width: 430-600mm

### Product Description

Thermal fiberglass wool Batts are made in special specification, with excellent performance of thermal insulation and sound absorbing. Thermal fiberglass wool Batts is dimensionally stable and will not slump within the wall cavity. Due to its inorganic nature, Thermal Batt Insulation will not rot or mildew and is non-corrosive to steel, copper, and aluminum.

### Application

Thermal fiberglass wool Batts can be used in a wide range of exterior wall and roof/ceiling applications. The product can be installed in wood or metal framing cavities, or can be installed between furring strips. Kingflex glass wool batts is Branz Certified thermal testing compliance. With AS/NZ 4859.1 certification.

### Easy Installation

Thermal fiberglass wool Batts is easy to handle and install. Sized for installation in either wood or metal stud construction, Thermal Batt Insulation can either be friction-fit or stapled into place. Trimming and fabrication can be done with an ordinary utility knife.

## Kingflex Glass Wool pipe



### Product Description

Centrifugal glass wool pipes/duct is bonded glass wool insulation pre-formed into rigid pipe sectional insulation commonly for entire utility services pipes made of copper, steel, PPR, PVC and UPVC used for applications like chilled/cold/hot/condensate water pipes of HVAC and domestic services. The application temperature of this range is limited to 232° C because the thermosetting resin used gets evaporated and this doesn't change the other characteristics of glass wool.

### Application

It is used for the thermal insulation of piping operating in commercial building and industrial plants.

## Kingflex Colorful Glass Wool



We Kingflex insulation company is in a position to produce multi-color glass wool products according to special requirements of customers.

Specifications and technical data of colorful glass wool is same as the regular yellow color glass wool.

## Applied Fields



PIPING INSULATION



WALL INSULATION



AIR DUCT INSULATION



STEEL STRUCTURE WORKSHOP

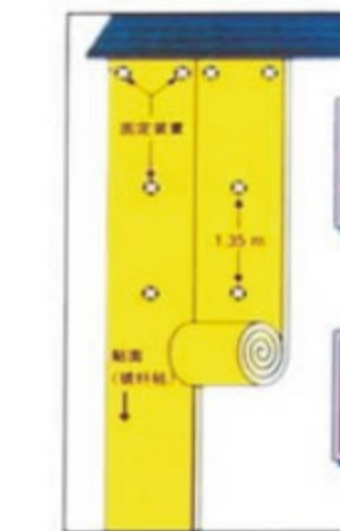
Kingflex glass wool product is green energy-saving building materials and has been widely used in various fields. It is mainly used in steel structure, wall insulation and piping insulation, air-conditioning duct, interior partition and trains acoustic insulation. It performs well in heat insulation, sound absorption, corrosion-resistance and non-combustion.

## Installation

### I. Glass wool blanket installation technical rules

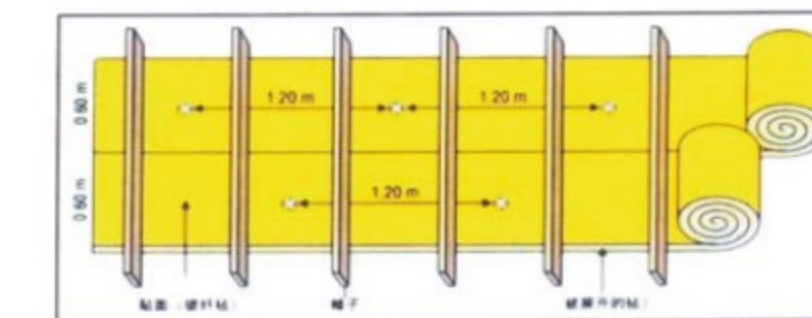
#### External wall insulation

glass wool vertical mounting:



Using two fixed devices such as insulation nails in the top of the building makes the glass wool blanket fixed, unfold the blanket vertically along the wall, placed a fixed device that diameter less than 90mm in the center of the blanket. When the building height is not more than 40 m, the maximum distance between every two fixed devices is not more than 1.35m.

blanket level installation:



When the building height is not more than 40 m, unfold the blanket horizontally, placed fixed device each interval of 1.20m such as insulation nail, the fixed device (insulation nail)'s diameter is less than 90mm. Also used the rafters to reinforce the glass wool between each interval of 0.6m. Related to construction methods should see the illustration. Note: when confronted with doors, windows and other special locations, should be placed more fixtures device (insulation nails) appropriately, ensuring that the glass wool in those parts of the fixed and beauty.

#### Interior wall insulation



- Using a wallpaper knife to cut glass wool according to the wall height adding 1 to 2 m.
- In the middle position of the predetermined wall body placed two devices to fix the glass wool.
- Putting the glass wool with veneer on the inside, made the edge and edge alignment and fixed the glass wool in the wall body.
- Handle the joint position and remove excess fixed device.

#### Roof construction

- When laying glass wool blanket, the veneer toward the interior side, Perpendicular to the purlins, left about 20cm blanket in the side of the roof, with special clamps or double-sided tape to secure that blanket was fixed with the outermost purlins.
- When putting the glass wool should ensure alignment and tension, laying the glass wool blanket in the another side of eaves, also left about 20cm blanket, with special clamps or double-sided tape to secure that blanket was fixed with the outermost purlins.
- Connected the two blankets together through the flying edge of the veneer with the method of using stapled.
- Installing roof color steel, removing special fixtures of the eaves, using the left 20cm veneer to close edge of glass wool.
- Pay attention to the tensioning and alignment of glass wool blanket, the tight joints between roll and roll, when Longitudinal needed to lap, Lap joints should be installed at the purlins.
- According to the engineering project needs, some rigid insulation materials can be considered on the purlins, in order to avoid the generation of cold bridges.

#### wall construction

- the veneer toward the interior side, laying the glass wool blanket from eaves to foot of a wall, using the double-sided tape to fix the glass wool in the lowermost purlins, staying more 20cm.
- Truncated the glass wool when it is over top of the wall purlins 20 cm, fixing it with double-sided tape.
- Incoming side of glass wool, installation wall color steel board.
- Connected the two blankets together through the flying edge of the veneer with the method of using stapled.
- Pay attention to the tensioning and alignment of glass wool blanket, the tight joints between roll and roll.

#### II. Specification for installation of glass wool board

- On the floor and the corresponding rooftop set metal frame, paying attention to the frame should be perpendicular to the floor.
- Between the set metal frame, mounting the vertically metal frame in every 60cm.
- Affixing the gypsum board on one side of the frame.
- Putting the glass wool between the frames.
- Fixing the gypsum board on another side.

#### III. Specification for installation of high-temperature glass wool

Firstly, weld pins in the device surface, and then using wire to tie up temperature glass wool to the device surface, when the desired temperature of the equipment exceeds 250 °C, the best mode with double insulation, outer and inner layers of the glass surface joints should be staggered to avoid thermal bridges caused by heat loss. When the desired temperature of the equipment over 400 °C, it is recommended to use a certain thickness of aluminum inner and outer using the high temperature glass wool, the seams between the two layers should be staggered. Finally out of bread wrapped in layers not only protect the glass wool but also aesthetic requirements.

#### Caution:

FIBERGLAS insulation may cause temporary irritation to the skin, eyes and respiratory tract. Avoid contact with eyes and skin, wear loose-fitting, long-sleeved clothing, gloves and eye protection when handling and applying the material. Wash with soap and warm water after handling. Wash work clothes separately and wipe out washer.



#### Why Kingflex Glass wool Insulation?

- .We are engaged in insulation materials since the year 1979
- .Our company is operated under the guidance of ISO system
- .Latest technology and most advanced forming process
- .Heat-insulation and Heat-preservation
- .Sound absorption and noise reduction
- .Stable thermal conductivity
- .Hydrophobicity not less than 98%, sustained moisture resistance
- .Excellent fire-proof performance---non flammable CLASS A
- .No smoke and no toxic gases emission
- .In compliance with green building regulations



### **KINGFLEX® 金福莱斯®** **Kingflex Insulation Co., Ltd.**

Add: #8 Chuangye Road, Langfang Econ. & Tech Development Zone,  
Hebei Province, 065001, P.R.China  
Tel: 0086-316-6060333/6073566/6074888  
Fax: 0086-316-6073566  
Email: info@kwiweb.com  
www.kwiweb.com  
www.cnjinwei.en.alibaba.com



**KINGFLEX® 金福莱斯®**

### **KINGFLEX GLASS WOOL** **EXCELLENT INSULATION SOLUTION**



#### Introduction

Kingflex Insulation Company, located in Langfang City, Hebei province, nearby Beijing, is one of the biggest manufacturers of insulation building materials for over 35 years. Kingflex is committed to "More comfortable life, more profitable business through energy conservation"

Kingflex glass wool is non combustible, thermal and acoustic insulation. There is no emission of toxic gases when exposed to fire and thus is one of the most eco friendly options in insulation of entire building services.

