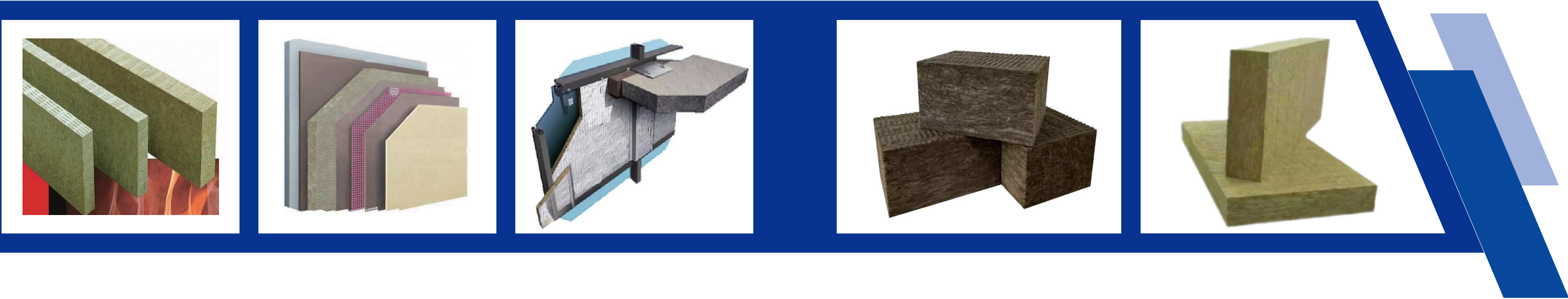


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Thermal insulation materials Product Catalogue



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TO IMPROVE THE HUMAN
BEING'S LIVING CONDITIONS AND
MAKE KINLONG THE SYNONYM
FOR HIGH-QUALITY.

More than **900,000** m²
production area.

More than **60** subsidiaries.

More than **1000** sales offices both
in domestic and overseas .

More than **16,000** employees.

ESTABLISHING BENCHMARK AND PURSUING EXCELLENCE

Kinlong was established in 2003 and is a company engaged in design and research, manufacturing and sales of construction and building products. We are committed to provide high-quality products and services. After years of development, Kinlong has become a reputable brand in the construction industry.

Kinlong industrial park has an area of more than 900,000 square meters and has an employment of more than 16000 staff. Kinlong owns more than 60 subsidiaries, and with over 1000 sales branches in the domestic and overseas markets. The company has more than 20,000 categories of products, which has been sold to more than 100 countries and areas. Kinlong, with it's sophisticated production management, provides customers with integrated solutions for different functional buildings.

Focusing on providing integrated construction and building accessories and diversified products, Kinlong continues to meet customer needs and market changes with the sales model of "R&D + manufacturing + service", and sets up its own marketing networks to directly provide customers with products and technical services. With years of precipitation and accumulation, Kinlong is at the forefront of the industry.

Over the years, Kinlong has been embracing the philosophy of "Unique value is created by professionalism, but no future shall be created by speculation". This has made Kinlong standing on the leading position in construction hardware market. Kinlong has provided products and services for many famous buildings around the world, and the landmark buildings of countless cities have become the pride and glory of Kinlong people.

To every designer, engineer and company committed in construction industry, Kinlong is always the most trustworthy and reliable partner.

Social Responsibility



For more than ten years, Kinlong has not forgotten to give back to the society while developing itself. By the end of 2023, more than 90 kinlong social charity schools have been donated and built in remote and backward areas.



INNOVATION AND ENTERPRISING INDUSTRY BENCHMARK

KINLONG KEEPS MAKING
PROGRESS BY INNOVATION, BY
WHICH WE HAVE OBTAINED
RECOGNITION AND HIGH PRAISE
FROM STATE
DEPARTMENTS,GOVERNMENT
UNITS AND SECTORS .



ENTERPRISE REPRESENTATIVE HONOR

Second Prize in National Science and Technology Progress Award

First Prize in Huaxia Construction Science and Technology Award

Second Prize in Huaxia Construction Science and Technology Award

Special Prize in China Steel Structure Association Science and Technology Award

First Prize in China Steel Structure Association Science and Technology Award

Innovation Award in China Steel Structure Association Science and Technology Award

The most influential brand of Jinxuan Award in the construction door, window and curtain wall industry for four consecutive sessions;

2021 TOP500 Preferred Supplier of Comprehensive Strength of Chinese Real Estate Development Enterprises-Smart Community Service Category

National High-Tech Enterprise

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REPRESENTATIVE R&D INNOVATION HONOR

National Intellectual Property Demonstration Enterprise

Laboratory center approved by the National Accreditation Board

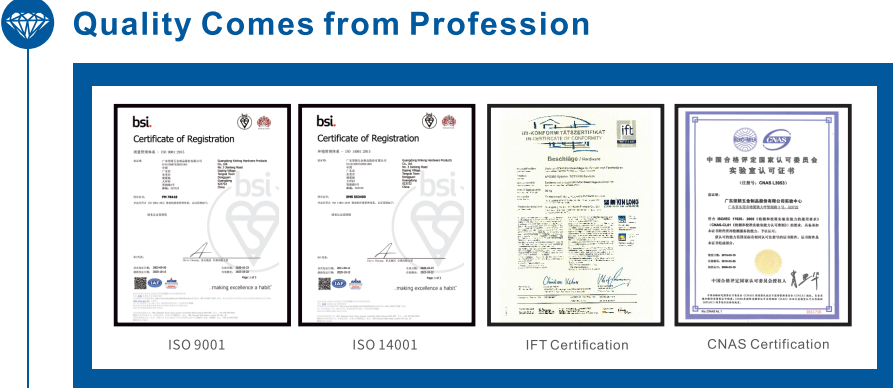
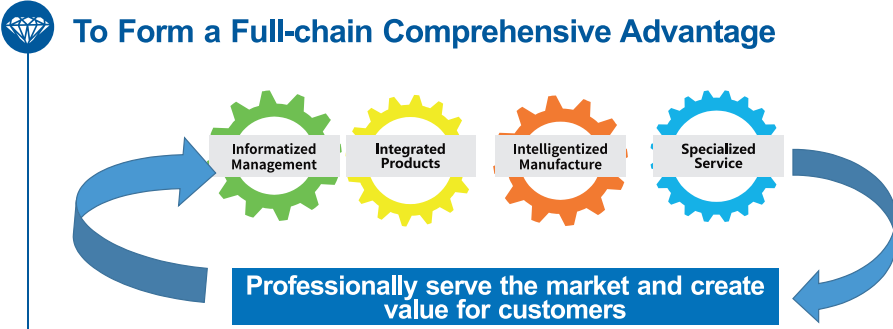
Guangdong Provincial Enterprise Technology

Center and Provincial Engineering Center

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Kinlong adheres to the philosophy that Unique value can only be created by professionalism,speculation has no future. Our enterprise core value is to respect Respecting science; Striving for coexistence and all-win; Promoting constant innovation; Pursuing sincerity and trustworthiness. and we always insist making innovation, breaking through and making progress, increasing our capacity of research, by which we have obtained recognition and praise from government departments, units and all areas in the society and get many achievements. We pay great attention to the needs from our customers and the prospect of our industry, consistently pursuing perfect, good quality, excellent service and systematic solutions. Our quick and accurate ability of handing over are always leading the market.

KINLONG IS LEADING THE
MARKET BY GOOD QUALITY,
EXCELLENT SERVICE,
SYSTEMATIC SOLUTIONS AND
QUICK AND ACCURATE ABILITY
TO DELIVER THE GOODS.



Management system certificated by ISO9001,ISO14001 of BSI. Test Laboratory accredited by the China National Accreditation Service of Conformity Assessment (CNAS).



Kinlong owned more than 1000 sales outlets at home and abroad, with a sales team of more than 6,000 staff to provide customers with rapid response. With more than 30 offices,10 subsidiaries,15 warehoused overseas market, and more will be set up.

PRODUCT ATTRIBUTE



Safety and fire prevention

The raw material of Telingte®rock wool is natural volcanic rock, which is A-grade non-combustible insulation and fireproof material, which has excellent fire performance and can effectively prevent fire spread. The melting point of Telingte®rock wool is higher than 1000°C, with high temperature resistance and low thermal conductivity at high temperature, which can win precious time for saving life and property; Telingte®rock wool does not produce smoke, combustion droplets or debris in the fire, and will not release substances or gases harmful to the environment. The size of Telingte®rock wool is stable, and it will not quickly elongate, shrink or deform in the fire, which can provide sufficient time for fire fighting and personnel evacuation;

Sound absorption and noise reduction

Telingte®rock wool has a large number of micro holes, and forms a porous connected structure, giving it good sound absorption, sound insulation, noise reduction performance, so as to greatly reduce the sound wave reflection and transmission, and provide an undisturbed healthy environment for work and life.

Heat insulation

The fiber diameter of Telingte®rock wool is 3~6μm, good toughness, high strength, the products have a large number of micro pores, resulting in low thermal conductivity and excellent thermal insulation performance.

Hydrophobic and moisture

Telingte®rock wool moisture repellent rate of 99%, a water absorption rate of 1%, and no capillary penetration, It can be used in a wet environment for a long time and the thermal insulation performance of dried rock wool products remains unchanged.

non-corrosiveness

Telingte®rock wool has stable chemical properties, with a PH value of 7~8, it has non-corrosiveness to metal materials such as carbon steel, stainless steel, aluminum and other basic materials.

Long-lasting stability

Correctly installed Telingte®rock wool maintains stable in all aspects, and its unique physical structure can ensure its stability in shape and strength under rapid changes in temperature and humidity. Throughout its life cycle, Telingte®rock wool always has excellent thermal insulation performance, freezing-thaw resistance and UV protection. The temperature changes throughout the four seasons do not cause thermal expansion or contraction. It can be used in extreme climates without being affected by other combined materials. It always maintains dimensional stability, greatly reducing the maintenance cost of the building.

greens and environmental friendly

Telingte®rock wool does not use asbestos, (CFC), (HFC), (HCFC) and other substances harmful to the environment. The International Cancer Research Agency has classified rock wool products as Group C non-carcinogenic. Telingte®rock wool will not be corroded or moldy, produce bacteria.

energy-saving and emission-reduction

The energy saved by using Telingte® rock wool in both civil and industrial fields is more than a hundred times that of energy consumed in its production, transportation, and recycling processes, significantly reducing CO₂ emissions and effectively promoting the achievement of the goal of "carbon peak and carbon neutral" in China.

Sustainability

During the production process of Telingte®rock wool, slag, solid waste pressing block and other materials can be added to the raw materials, which can realize the full reuse of solid waste and wastewater in the production process. Through a series of environmental protection measures, the waste gas can be discharged to the standard, therefore, both the rock wool itself, or the production process can to achieve circular economy and green environmental protection.

easy to use

Telingte®rock wool has the characteristics of being lightweight and easy to cut. It can be processed into plates, felt blankets, strips, etc. for different occasions, which can be processed in the plant and can also be directly used for on-site construction, so it is more convenient to use.

PRODUCT CLASSIFICATION

Telinge®Rock Wool Exterior Insulation System

Telinge®rock wool external insulation system of external wall is a non-load-bearing heat insulation and fireproof structure that uses Telinge®rock wool external wall insulation board as the core material and fixed on the external surface of the wall using adhesive nail bonding technology.

● Product description

Telinge®external wall insulation rock wool board, as a fire insulation material, is mainly used in Telinge®external wall insulation thin plastering system and Telinge®dry hang curtain wall insulation system. It has good compressive strength, tensile strength perpendicular to the surface, excellent hydrophobicity and moisture resistance, and is suitable for all kinds of masonry or concrete dense structure of the basic wall.



● Specification and size

Density(kg/m³)	100-180
Thickness(mm)	30-150
Size(length×width)(mm×mm)	1200×600
Note: Can be customized, Please consult the company	

● Standard specification-Enterprise brand number

Enterprise brand	Criterion	Characteristics and main indicators	
TLTGW-A301	美标 ASTM C612-14	Thermostability	Black cotton, high temperature resistance above 760℃
TLTDL-A302		Low chlorine	Mk≥1.8,Cl'≤10mg/kg
TLTGQ-A303		High strength	Mk≥1.8,High temperature resistance above 649℃
TLTGQ-A304		High strength paste aluminum foil	MK≥1.8,High temperature resistance above 649℃
TLTGW-G301	国标 GB/T 25975-2018	Thermostability	Black cotton, high temperature resistance above 760℃
TLTDL-G302		Low chlorine	MK≥1.8,Cl'≤10mg/kg
TLTGQ-G303		High strength	Mk≥1.8,High temperature resistance above 649℃
TLTTB-G304		High strength paste aluminum foil	MK≥1.8,High temperature resistance above 649℃

● Product characteristics

- ◇ A1 grade non-combustible, the system is not limited by the height of the building, the insulation material, fire protection, etc;
- ◇ Non-burn, do not release toxic smoke;
- ◇ Fiber is non-toxic, non corrosive,none moldy,safe and environmentally friendly;
- ◇ High hydrophobicity, low water absorption, good dimensional stability;
- ◇ Sound insulation and noise reduction, healthy and environmentally friendly;
- ◇ High tensile strength, good wind pressure resistance, safe and reliable;
- ◇ Stable chemical properties, no corrosion to metal materials and various components in buildings;
- ◇ Lightweight, can be cut and sawn ,easy to process;
- ◇ Under the premise of ensuring the strength and system safety, the density of the directional rock wool board is lower which further reduces the weight and structural load of the system while also reduces the cost of the system;

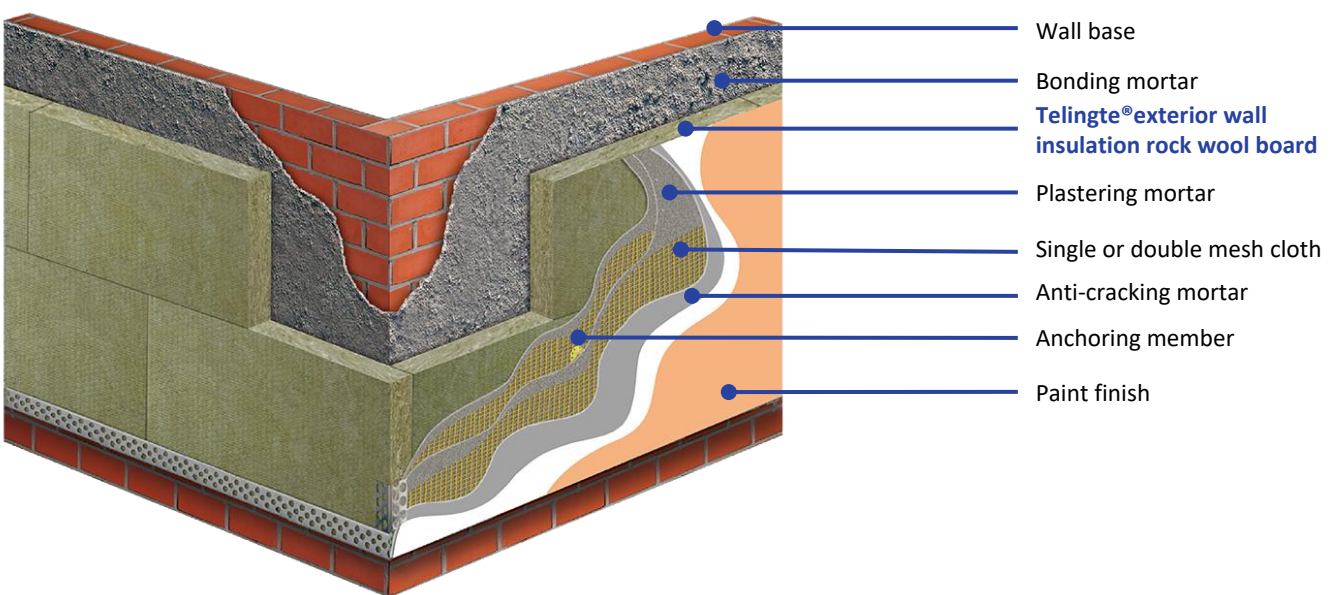
● Applied range

Telinge®external wall insulation rock wool board can be used for external wall insulation of new buildings, but also for energy-saving renovation or repair of existing buildings. It is suitable for various building structures, such as frame structures and masonry structures. The A-level non-combustible fire grade and high temperature shrinkage resistance, can maintain the stability of the system structure and achieve essential safety in the event of a fire.



External wall insulation thin plaster limestone cotton board

Telinge®external wall insulation thin plastered rock wool board is the most commonly used construction process in exterior wall insulation applications, which is a non-load bearing insulation structure that uses bonding mortar as the adhesive to fix the rock wool board on the outer surface of the buildings' external wall It has good fire insulation effect and can avoid cold and hot bridge. It has high vertical tensile strength, high hydrophobicity, low water absorption and good dimensional stability. It is use safe and reliable to use .



Thin limestone cotton board

PRODUCT CLASSIFICATION

Telinge®Rock Wool Exterior Insulation System

● Main performance and technical indicators

ASTM C612-14(R2019)Specification for bulk and plate thermal insulation

Table1.Requirements for physical characteristics

Index	Type IA	Type IB	Type II	Type III	Type IVA	Type IVB	Type V A&B Level
Maximum operating temperature, °F(°C)	450 (232)	450 (232)	850 (454)	1000 (538)	1200 (649)	1200 (649)	1800 (982)
Maximum apparent thermal conductivity, Btu in./hft²°F(W/m·K)							
Average temperature, °F(°C)	The apparent thermal conductivity, the Btu in./hft² °F(W/m·K)						
25(-4)	0.22 (0.032)	0.21 (0.030)	0.21 (0.030)	0.21 (0.030)	0.21 (0.030)	0.23 (0.033)	0.44 (0.064)
75(24)	0.26 (0.037)	0.26 (0.037)	0.25 (0.036)	0.25 (0.036)	0.25 (0.036)	0.24 (0.035)	0.45 (0.064)
100(38)	0.28 (0.040)	0.27 (0.039)	0.27 (0.039)	0.27 (0.039)	0.27 (0.039)	0.25 (0.036)	0.45 (0.064)
200(93)	0.36 (0.052)	0.34 (0.049)	0.35 (0.050)	0.35 (0.050)	0.34 (0.049)	0.30 (0.043)	0.47 (0.068)
300(149)	0.46 (0.066)	0.42 (0.060)	0.44 (0.063)	0.44 (0.063)	0.44 (0.063)	0.36 (0.052)	0.49 (0.071)
400(204)			0.55 (0.079)	0.55 (0.079)	0.55 (0.079)	0.42 (0.061)	0.52 (0.075)
500(260)			0.70 (0.101)	0.70 (0.101)	0.70 (0.101)	0.53 (0.076)	0.55 (0.080)
600(316)				0.9 (0.130)	0.85 (0.123)	0.63 (0.091)	0.59 (0.085)
700(371)					1.00 (0.144)	0.75 (0.108)	0.63 (0.091)
800(427)							0.67 (0.097)
Minimum compression strength under 10% deformation, Lb/ft²(k Pa)							
1Category	No compressive compression requirement						
2Category	N.A.C	25(1.2)	25(1.2)	12(0.6)	50(2.4)	50(2.4)	1000(48)
Linear shrinkage rate at maximum operating temperature %	2.0	2.0	2.0	2.0	2.0	2.0	4.0
Maximum water vapor absorption rate,%	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Surface combustion characteristics							
Maximum Flame Index	25	25	25	25	25	25	25
Form a smoke maximum	50	50	50	50	50	50	50
Slag ball(by weight) crest value,%	25	25	25	25	25	25	25

GB/T25975-2018 Rock wool products for external insulation rock wool board

Order number	Test item	Test requirements of rock wool board	Test method
1	surface	surface is flat, and there should be no scars, stains or damage that hinder the use	visualization
2	Average fiber diameter, μm	≤6.0	GB/T 5480
3	Shot(D>0.25 mm),%	≤7.0	GB/T 5480
4	Length allowable deviation, mm	+10 -3	GB/T 5480
5	Width allowable deviation, mm	+5 -3	GB/T 5480
6	Thickness allowable deviation, mm	+3 -3	GB/T 5480
7	Density tolerance, %	±10%	GB/T 5480
8	Right-angle deviation, %	≤5	GB/T 5480
9	Flatness deviation, %	≤6	GB/T 5480
10	Coefficient of acidity	≥1.8	GB/T 5480
11	The sum of the sodium oxide and potassium oxide content, %	≤5.0	GB/T 1549
12	Dimensional stability(70℃,48 h), %	The relative change rate of length and width is all≤1.0	GB/T 30806
13	Mass moisture absorption rate, %	≤1.0	GB/T 5480
14	Hydrophobicity rate, %	≥98.0	GB/T 10299
15	Short term water absorption, kg/m²	≤0.4	GB/T 30805
16	Volume water absorption rate, %	≤5.0	GB/T 5480
17	Thermal conductivity, W/(m·K),25℃	≤0.040	GB/T 10294
18	Tensile strength perpendicular to surfaceTR, k Pa	≥7.5	GB/T 30804
19	Compressive strength,k Pa	thickness<50mmboard:≥20 thickness≥50mmboard:≥40	GB/T 13480
21	Combustion performance	TR retention in humid heat,%	GB 8624-2012
22	Long-term water absorption(partial invasion)),kg/m²	≤1.0	GB/T 30807
23	TR retention in humid heat,%	≥50	GB/T 30808

PRODUCT CLASSIFICATION

Telingte®Rock Wool Light Steel Structure and Internal Insulation System

Curtain wall system, especially open curtain wall systems, have a thermal channel. Due to the chimney effect, once a fire occurs, the fire spreads very fast. Therefore, the fire safety of the curtain wall is particularly important. Telingte®curtain wall insulation and fire prevention systems is used in the building curtain wall structure, including curtain wall fire sealing and curtain wall window sill wall and window wall window of insulation and fire prevention structure. While providing thermal insulation performance, it can bring excellent fire prevention performance for the curtain wall.

Product description

Telingte®curtain wall insulation rock wool board is generally made of dense structures such as concrete or brick as the foundation wall,and dry hanging stone or glass curtain wall as the facade. Rock wool board is used as the insulation layer between the foundation wall and the facade.Telingte® rock wool board has good thermal insulation,fire resistance and high tensile strength It has good sound absorption and noise reduction performance,does not corrode metal materials and components.The product has good air permeability,allowing the wall to breathe freely.At the same time,it has the characteristics of convenient,diverse facade selection,efficient construction and diversified facade selection, which can achieve thermal insulation ,fire,prevention and aesthetics simultaneously.



Specification and size

Density(kg/m³)	80-180
Thickness(mm)	30-150
Size(length×width)(mm×mm)	1200×600
Note: Can be customized, Please consult the company	

Standard specification-Enterprise brand number

Enterprise brand	Criterion	Characteristics and main indicators	
TLTGW-G601	国标 GB/T 19686-2015	Thermostability	Black cotton,high temperature resistance above 760℃
TLTDL-G602		Low chlorine	Mk≥1.6,Cl'≤10mg/kg
TLTGQ-G603		High strength	Mk 1.6,high temperature resistance above 649℃

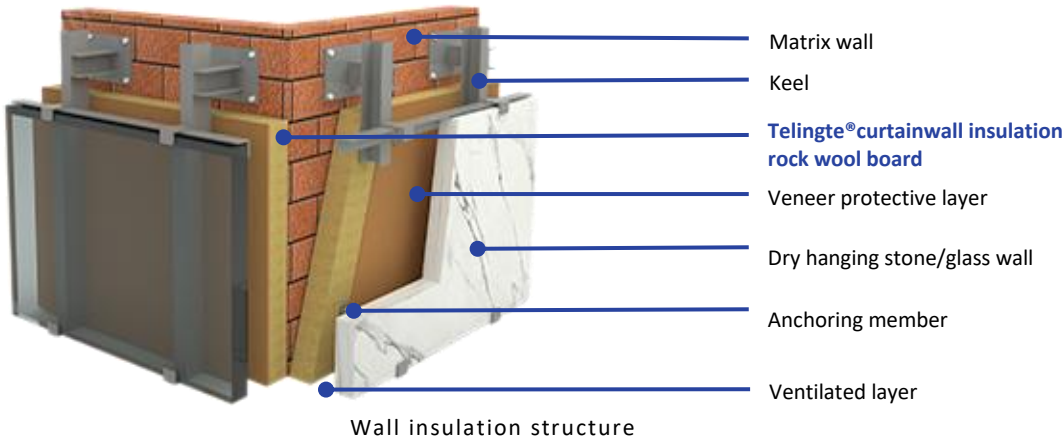
Product characteristics

- ◇ Thermal insulation performance is superior
- ◇ Fire rating reaches A1 level, non-combustible, do not release toxic smoke;
- ◇ Fiber is non-toxic, non corrosive,non moldy, safe and environmentally friendly;
- ◇ Stable chemical properties, no corrosion to metal materials and various components in buildings;
- ◇ Sound insulation and noise reduction, health and environmentally friendly;
- ◇ Melting point is higher than 1000℃,with high temperature resistance and low; thermal conductivity at high temperature, which can win valuable escape time for saving lives and property .



Dry hanging ventilation curtain wall
Insulation rock wool board

Applied range



Main performance and technical indicators

GB/T19686-2015 The curtain wall is made of rock wool board

Order number	Clause	Test item	Index requirements
1	General projects	surface	The resin is evenly distributed, the scars, stains or damage that hinder use
2		Average fiber diameter, μm	≤6.0
3		shot(D>0.25mm),%	≤7.0
4		Length allowable deviation, mm	+10 -3
5		Width allowable deviation, mm	+5 -3
6		Thickness allowable deviation, mm	+3 -3
7		Density tolerance,%	±10%(Capacity≥80kg/m²)
8		Density tolerance,%	±15%(Capacity<80kg/m²)
9		Combustion performance	Level A
10		Coefficient of acidity	≥1.6
11		Thermal conductivity W/(m·K),25℃	≤0.040
12		Mass moisture absorption rate,%	≤0.5
13		Hydrophobicity rate,%	≥98.0
14	Specific projects	Water extraction solution pH	7.0~9.5
15		Short-term water absorption (partial invasion),kg/m²	≤0.5

PRODUCT CLASSIFICATION

Telingte®Rock Wool Metal Surface Sandwich Panel External Wall System

Telingte®metal surface sandwich board external wall and roof system refers to the peripheral protection system that directly installs factory prefabricated rock wool sandwich panels with different appearance effects on the main structure of the building through mechanical fixation. The system is widely used and can achieve thermal insulation, fire prevention and aesthetics, simultaneously.

Product description

Telingte®metal surface sandwich board is an external wall insulation sandwich panel made of Telingte®rock wool as raw material. Generally, rock wool large panels with specifications of 2400mm in length,1200mm in width,and100~150mm in thickness are cut into rock wool strips through automated equipment in factories and then combined with metal panels to form a whole for external wall insulation, which changes the previous method of composite installation of rock wool panels on site. The metal faced sandwich panel fully utilizes the unique performance of rock wool core material, while meeting the requirements of building insulation, sound insulation, fire prevention, etc. it also achieves the goals of high quality, efficiency, reliability, and safety.



Density(kg/m³)	80-180
Thickness(mm)	100-150
Size(length×width)(mm×mm)	2400×1200
Note: Can be customized, Please consult the company	

Specification and size

Standard specification-Enterprise brand number

Enterprise brand	Criterion	Characteristics and main indicators	
TLTGW-G501	国标 GB/T 19686-2015	Thermostability	Black cotton, high temperature resistance above 760℃
TLTDL-G502		Low chlorine	Mk≥1.6,Cl≤10mg/kg
TLTGQ-G503		High strength	Mk≥1.6,high temperature resistanceabove649℃

Product characteristics

- ◇ Fire prevention rating reaches A1 grade, non-combustible, does not release heat or toxic smoke;
- ◇ The fibers are distributed in a three-dimensional manner, meeting the overall strength requirements of the sandwich plate, with excellent compressive, tensile and shear strength;
- ◇ Sound insulation and noise reduction, health and environmentally friendly;
- ◇ Fibers are non-toxic, non-corrosive, non-moldy, safe and environmentally friendly;
- ◇Low thermal conductivity, superior thermal insulation performance, reduce the energy consumption of building heating and refrigeration, energy saving and emission reduction, in order to meet the green building system.

Applied range



Metal-faced sandwich board

Main performance and technical indicators

GB/T19686-2015 Test requires rock wool sheet for metal surface sandwich sheet(strip)

Order number	Clause	Test item	Index requirements	Test method
1	General project	Surface	The resin is evenly distributed, the scars, stains or damage that hinder use	visualization
2		Average fiber diameter, μm	≤6.0	GB/T 5480
3		Shot(D>0.25mm),9%	≤7.0	GB/T 5480
4		Length allowable deviation, mm	+10 -3	GB/T 5480
5		Width allowable deviation, mm	+3 -3	GB/T 5480
6		Thickness allowable deviation, mm	+2 -2	GB/T 5480
7		Density tolerance,%	±10%	GB/T 5480
8		Density tolerance,%	Level A	GB 8624-2012
9		Combustion performance	≥1.6	GB/T 5480
10		Coefficient of acidity	≤0.048	GB/T 10294
11		Thermal conductivity W/(m·K),25℃	≤0.5	GB/T 5480
12		Hydrophobicity rate,%	≥98.0	GB/T 10299
13	Specific project	PH	7.0~9.5	GB/T 19686
14		Short-term water absorption(partialinvasion), kg/m²	≤0.5	GB/T 30805
15		Tensile strength perpendicular to faces TR, kPa	≥100	GB/T 30804
16		Compressive strength, kPa	≥40	GB/T 13480
17		Shear performance, kPa	≥60	GB/T 32382

PRODUCT CLASSIFICATION

Telingte® Rock Wool Light Steel Structure and Internal Insulation System

Product description

Light steel structure is a kind of young and vigorous steel structure system, which is one of the ordinary structural forms in modern construction engineering. It has been widely used in the construction field of sport halls, office buildings, warehouses, etc. In recent years, it has also been vigorously promoted to residential buildings. The outstanding advantages of light steel structure: fast construction, good structural performance, good seismic resistance. Telingte®rock wool is mechanically fixed and filled into the wall frame of light steel structure, which is the best match of light steel structure to ensure the heat insulation, fire prevention, sound insulation and waterproofing of the whole structure.

Specification and size



Density(kg/m³)	40-140
Thickness (mm)	100-150
Size(length×width) (mm×mm)	1200×600
Note: Can be customized, Please consult the company	

Standard specification-Enterprise brand number

Enterprise brand	Criterion	Characteristics and main indicators	
TLTGW-G801	国标 GB/T 19686-2015	Thermostability	Black cotton, high temperature resistance above 760℃
TLTDL-G802		Low chlorine	Mk≥1.6, Cl≤10mg/kg
TLTGQ-G803		High strength	Mk≥1.6, high temperature resistance above 649℃

Product characteristics

- ◇ Fire prevention rating reaches A1 grade non-combustible, does not release heat or toxic smoke;
- ◇ Sound insulation and noise reduction, health and environmentally friendly;
- ◇ Fibers are non-toxic, non-corrosive, non-moldy, safe and environmentally friendly;
- ◇ Stable chemical properties, metal materials and various components in the building are not corrosion;
- ◇ Low thermal conductivity, superior thermal insulation performance, reduce the energy consumption of building Heating and refrigeration, energy saving and emission reduction, in order to meet the green building system;
- ◇ Convenient construction, good structural performance, good earthquake resistance, larger usage area;

Applied range



Main performance and technical indicators

GB/T 19686-2015 Steel structure and internal thermal insulation rock wool board/felt

Order number	Clause	Test item	Index requirements of board	Index requirements of felt	Test method
1	General project	Surface	The resin is evenly distributed, the scars, stains or damage that hinder use	The resin is evenly distributed, the scars, stains or damage that hinder use	Visualization
2		Average fiber diameter, μm	≤6.0	≤6.0	GB/T 5480
3		Shot(D>-0.25mm), %	≤7.0	≤7.0	GB/T 5480
4		Length allowable deviation, mm	+10 -3	∞ -3	GB/T 5480
5		Width allowable deviation, mm	+5 -3	+5 -3	GB/T 5480
6		Thickness allowable deviation, mm	+3 -3	∞ -3	GB/T 5480
7		Density tolerance, %	±10%(Unit weight≥80kg/m²)	±10%(Unit weight≥80kg/m²)	GB/T 5480
8		Density tolerance, %	±15%(Unit weight<90kg/m²)	±15%(Unit weight<90kg/m²)	GB/T 5480
9		Combustion performance	Level A	Level A	GB 8624-2012
10		Coefficient of acidity	≥1.6	≥1.6	GB/T 5480
11		Thermal conductivity W/(m·K),25℃	≤0.040	≤0.040	GB/T 10294
12		Mass moisture absorption rate, %	≤0.5	≤0.5	GB/T 5480
13		Hydrophobicity rate, %	≥98.0	≥98.0	GB/T 10299
14	Specific project	The pH value of the water extract solution	7.0~9.5	7.0~9.5	GB/T 19686

PRODUCT CLASSIFICATION

Telingte® Rock Wool Roof and Floor Insulation System

Product description

Waterproofing and insulation of roofs are particularly important in buildings. Telingte®roof special rock wool board has good compressive and point load resistance, which can meet the needs of bearing the weight of related equipment during roof construction and maintenance. There is no need for an isolation layer between the waterproof layer and rock wool insulation layer, and it is compatible with various waterproof membranes.



Specification and size

Density(kg/m³)	80-180
Thickness (mm)	100-150
Size(length × width) (mm × mm)	1200×600
Note: Can be customized, Please consult the company	

Standard specification-Enterprise brand number

Enterprise brand	Criterion	Characteristics and main indicators	
TLTGW-G801	国标 GB/T 19686-2015	Thermostability	Black cotton,high temperature resistance above 760℃
TLTDL-G802		Low chlorine	Mk≥1.6, Cl'≤10mg/kg
TLTGQ-G803		High strength	Mk≥1.6, high temperature resistance above 649℃

Product characteristics

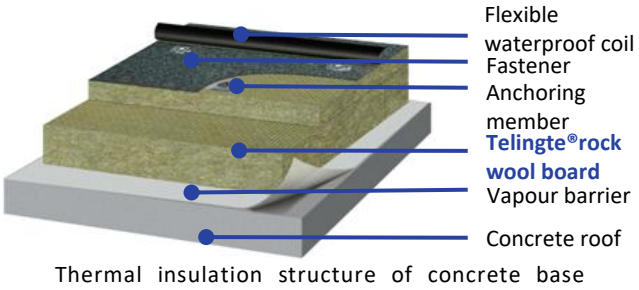
- ◇ Fire prevention rating reaches A1 grade, non-combustible, does not release heat or toxic smoke;
- ◇ Stable chemical properties, metal materials and various components in the building are not corrosion;
- ◇ Excellent air permeability, which is beneficial for timely diffusion of indoor and wall moisture;
- ◇ Sound insulation and noise reduction, health and environmental protection;
- ◇ Fibers are non-toxic, non-corrosive, non-moldy, safe and environmentally friendly;
- ◇ There is no need for an isolation layer between the waterproof layer and rock wool insulation layer, and it is compatible with various waterproof membranes;
- ◇ Low thermal conductivity, superior thermal insulation performance, reduce the energy consumption of building heating and refrigeration, energy saving and emission reduction, in order to meet the green building system;



Applied range

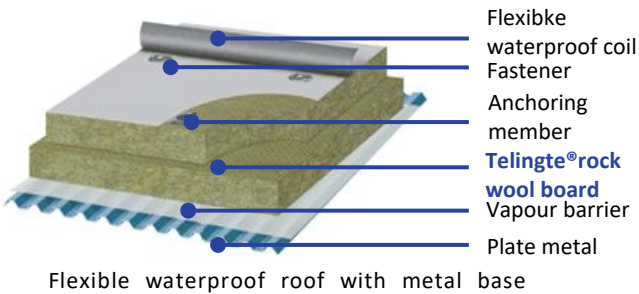
(1) Concrete based flat roofs

Concrete roofs have high heat storage properties. Rock wool boards are used as thermal insulation layers, and flexible waterproof felt or asphalt is covered on the insulation rock wool boards to achieve the purpose of fire prevention, insulation, and waterproofing of the entire roof. They are suitable for the construction and repair of concrete roofs.



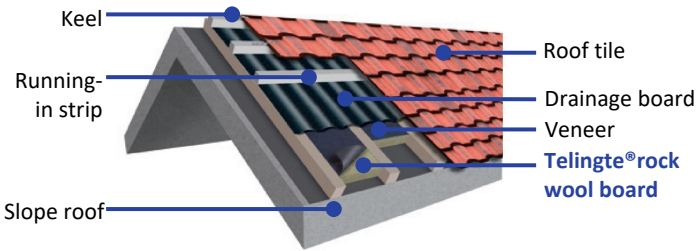
(2) Flexible waterproof roofs on metal based surfaces

Metal roofs are usually made of single layer or double layer metal plate as the base, filled with thermal insulation rock wool boards and mechanical fixed on the metal surface. They have high Compressive strength and resistance to point loads and are convenient for regular maintenance. They are also economically efficient, environmentally friendly, widely used in large public buildings, factories, warehouses, etc.



(3) Rock wool boards applied on slope roofs

This kind of tile roof surface usually has a certain slope and is usually composed of a roof base layer, rock wool insulation layer, waterproof layer and various tiles. The design and construction method of the rock wool insulation layer is not used for the flat roof. This kind of tile roof surface is often used in low or multi-story residential buildings, such as villas, etc.



PRODUCT CLASSIFICATION

Telingte® Rock Wool Roof and Floor Insulation System

● Main performance and technical indicators

GB/T19686-2015 Steel structure and internal thermal insulation rock wool board/felt

Order number	Clause	Test item	Index requirements of board	Index requirements of felt	Test method
1	General project	Surface	The resin is evenly distributed, the scars, stains or damage that hinder use	The resin is evenly distributed, the scars, stains or damage that hinder use	Visualization
2		Average fiber diameter, μm	≤6.0	≤6.0	GB/T 5480
3		Shot(D>0.25mm),%	≤7.0	≤7.0	GB/T 5480
4		Length allowed deviation, mm	+10 -3	∞ -3	GB/T 5480
5		Width allowable deviation, mm	+5 -3	+5 -5	GB/T 5480
6		Thickness allowable deviation, mm	+3 -3	Negative difference is not allowed	GB/T 5480
7		Density tolerance, %	±10%(Capacity≥80kg/m²)	±10%(Capacity≥80kg/m²)	GB/T 5480
8		Density tolerance, %	±15%(Capacity<80kg/m²)	±15%(Capacity<80kg/m²)	GB/T 5480
9		Combustion performance	Level A	Level A	GB 8624-2012
10		Coefficient of acidity	≥1.6	≥1.6	GB/T 5480
11		Thermal conductivity W/(m·K), 25℃	≤0.040	≤0.040	GB/T 10294
12		Mass moisture absorption rate, %	≤0.5	≤0.5	GB/T 5480
13		Hydrophobicity ate, %	≥98.0	≥98.0	GB/T 10299
14		water absorption rate, %	≤5	≤5	GB/T 5480
15	Specific project	Short-term water absorption (partial invasion), kg/m	≤0.5	≤0.5	GB/T 30805
16		Compressive strength, kPa	≥80(High strong type)		GB/T 13480
17			≥60(The first layer)		GB/T 13480
18			≥40(Non-first layer)		GB/T 13480
19		Point load, N	≥700(High strong type)		GB/T 30802
20			≥500(The first layer)		GB/T 30802
21			≥200(Non-first layer)		GB/T 30802

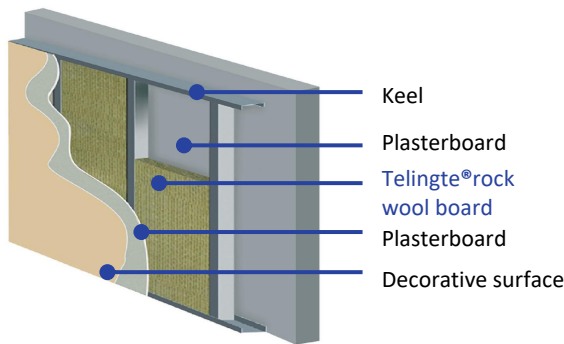
Telingte® Rock wool multifunctional insulation system

● Product description

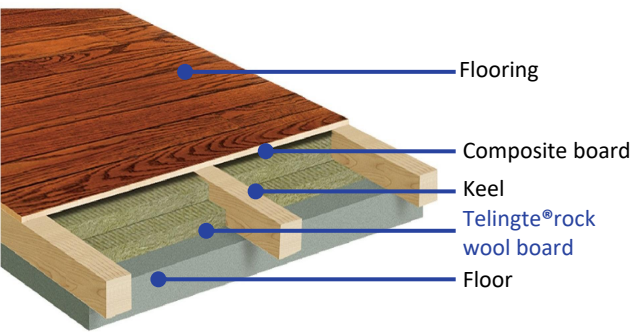
Telingte®building rock wool board not only serves the basic purpose of external wall and roof insulation and fire prevention system, but also has many other uses due to its wide range of density and thickness selection, such as inner partition wall, floor sound insulation, fire door, fire partition, attic, roof and other places. According to different uses, various composite materials such as aluminum foil, non-woven fabric, or waterproof and breathable film can also be applied on the surface or both sides of the product to meet the needs of different customers.

● Scope of application

(1) Rock wool board for insulation and sound insulation of the inner partition wall

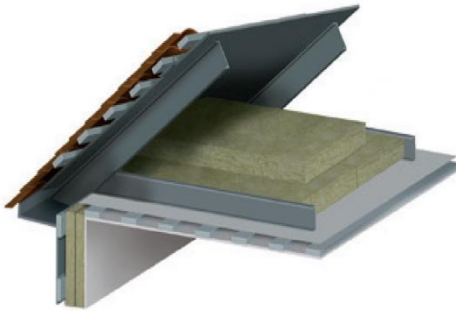


(2) Floor insulation rock wool board



(3) Attic insulation rock wool board

With the prevalence of the top attic in all kinds of buildings, the fire and thermal insulation of the attic has become particularly important. If attics are well insulated, their comfort will be better than ordinary floors, making them the preferred place for leisure and hospitality. The high-quality Telingte®building rock wool board is the best choice for attic insulation.



Attic insulation structure and construction