

ROCKWOOL® is the registered trademark of ROCKWOOL Group.



ROCKWOOL Roofing System

ROCKWOOL CHINA

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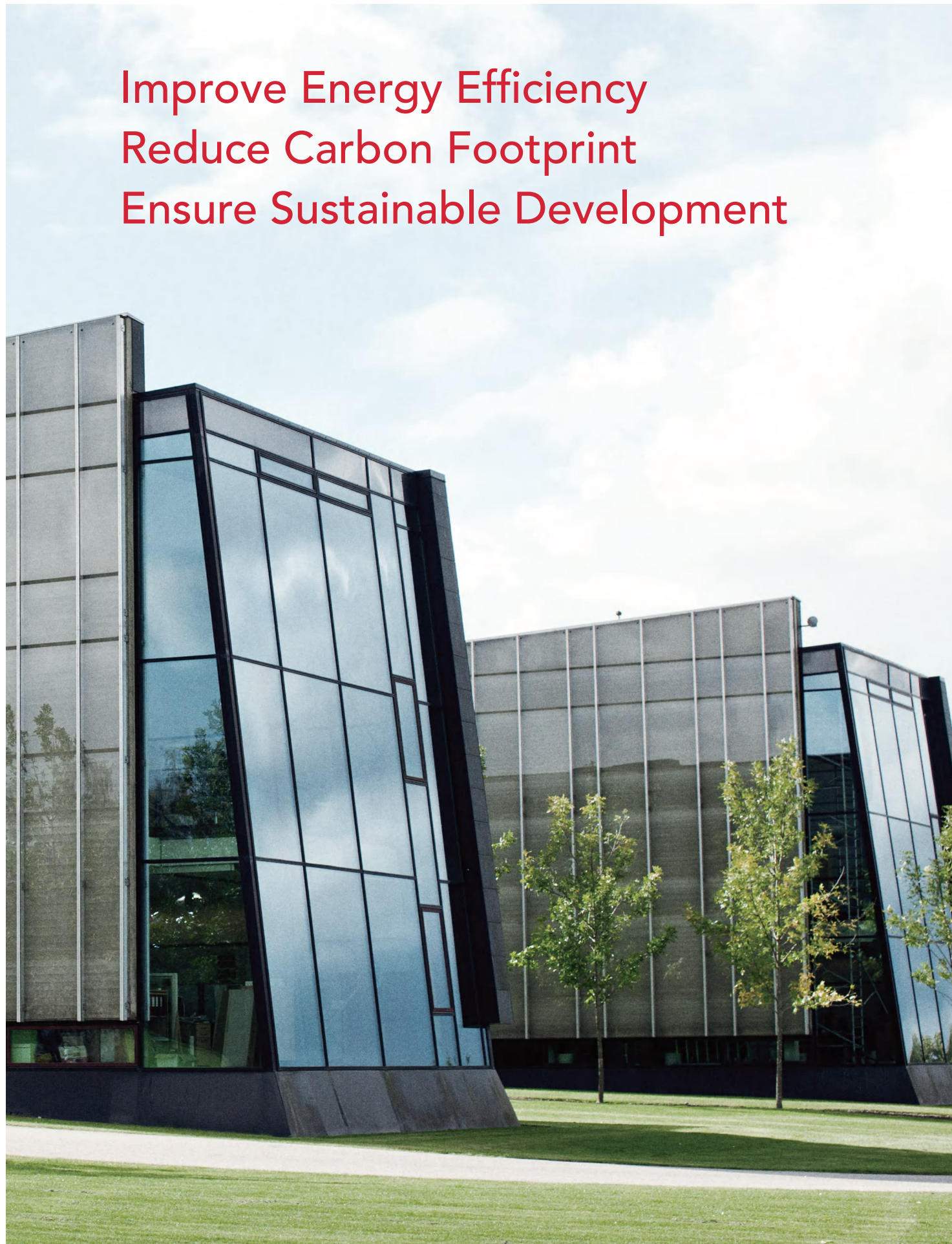
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Improve Energy Efficiency
Reduce Carbon Footprint
Ensure Sustainable Development

ROCKWOOL Group

We are the world leading stone wool manufacturer, with innovative products and systems, committed to protecting the environment and improving people's life.

ROCKWOOL Group is a global leader in thermal insulation, providing world-class firesafe and thermal insulation products and solutions for building structures. Our products help secure fire safety and reduce energy consumption of buildings, coupled with excellent performance in sound absorption, noise reduction and indoor comfort. ROCKWOOL provides green solutions for the horticulture industry, special engineered stone wool fiber for the manufacturing industry, as well as effective insulation solutions for refining and processing industries, marine and offshore industries and other areas. We also have acoustic and vibration reduction system for modern infrastructure construction.

ROCKWOOL Group has a major market share in Europe, but we have also actively expanded our market in Russia, North America, India and East Asia, with more production, sales and service activities operating locally. ROCKWOOL Group's global network helps promote our products and systems around the world.

Headquartered in Denmark, ROCKWOOL group is a listed company of NASDAQ OMX Nordic exchange Copenhagen. At present, it has 51 manufacturers around the world, nearly 12,000 employees and a sales network of more than 120 countries and regions around the world. At the level of corporate governance, ROCKWOOL has a perfect organizational structure and decision-making mechanism of listed companies, which are supervised and managed by the group's management, the board of directors and the

general meeting of shareholders respectively, and the audit committee and Remuneration Committee ensure the smooth development of the group's business strategy.

In China, ROCKWOOL provides a wide range of products for building insulation and other industrial areas that cater to different applications. We have more than 20 years of exploration and operation in China. ROCKWOOL stone wool is integrated with several excellent strengths: fire resilience, thermal properties, acoustic capabilities, durability and sustainability etc. Our products can stand the test of time. They protect buildings and people in any environment while reducing the carbon footprint. ROCKWOOL protects the environment and makes our society develop with a more sustainable approach.

ROCKWOOL China has an annual stone wool production capacity of 100,000 tons in Qingyuan and Yangzhou, and subsidiaries located in Beijing, Guangzhou, Hong Kong, Taiwan, Philippines and other major cities at present.

100 Times

Energy saved in the life cycle of building application is 100 times than energy consumption during the production.



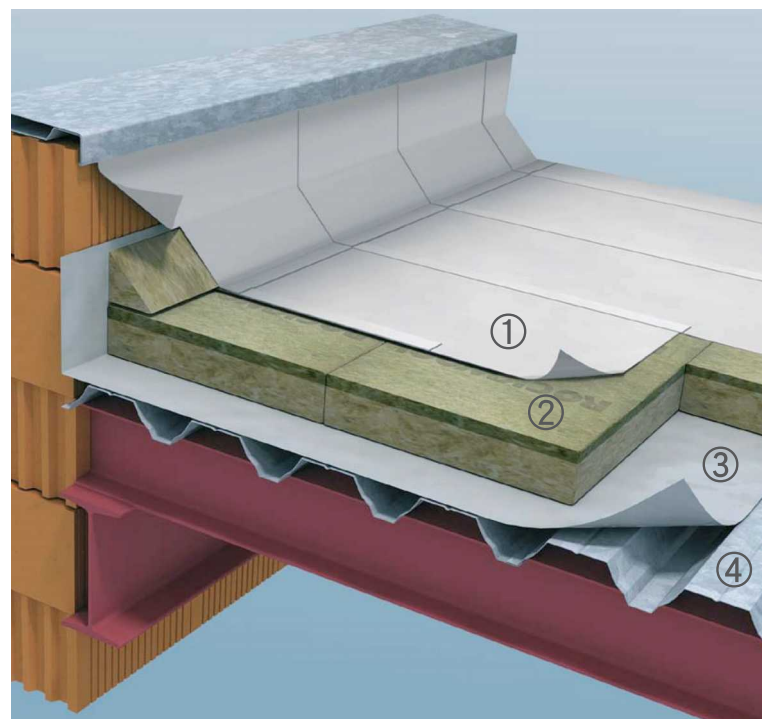
ROCKWOOL Roofing System

The system consists of high polymer flexible waterproofing membrane, stone wool roofing insulation boards, vapor barrier materials and other necessary components.

ROCKWOOL has years of experience in the roofing industry in China and beyond. We built on expertise and developed a flexible roofing system mainly for flat roofs. The system consists of high polymer flexible waterproofing membrane, stone wool roofing insulation boards, vapor barrier materials and other necessary components. The installation methods would mainly be mechanically fastened, bonding or ballasted. The waterproofing membrane and the stone wool insulation would be fixed on the roof substrate to resist wind loads. The design enables a water and sound-proof system with fire protection and thermal insulation when the building is in use, reducing the risk of condensation. ROCKWOOL roofing system has excellent wind resistance and durability.



System built up

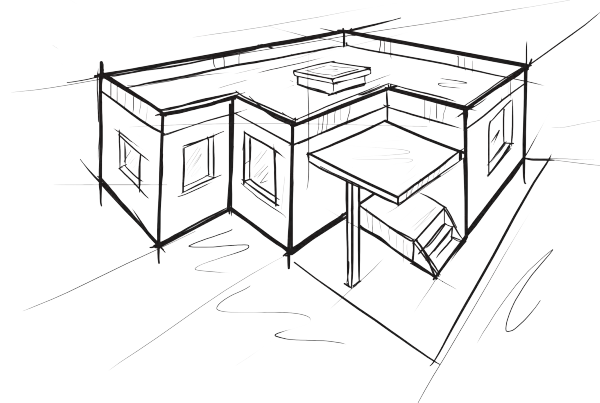


- ① ROCKWOOL TopCover Series Membrane
- ② ROCKWOOL TopRock DD Series stone wool board
- ③ Vapor barrier material
- ④ Steel /concrete base roof substrate

Applications

ROCKWOOL roofing system can be widely applied to steel/concrete-base roofs, for both new build and maintenance.

- For steel structure industrial buildings, warehouses, convention centers, stadiums, airports and lightweight steel roofing in other forms.
- For traffic roofs (including roofs of platforms, pedestrian crossings and heavy equipment) and green roofs, with load-bearing capacity.

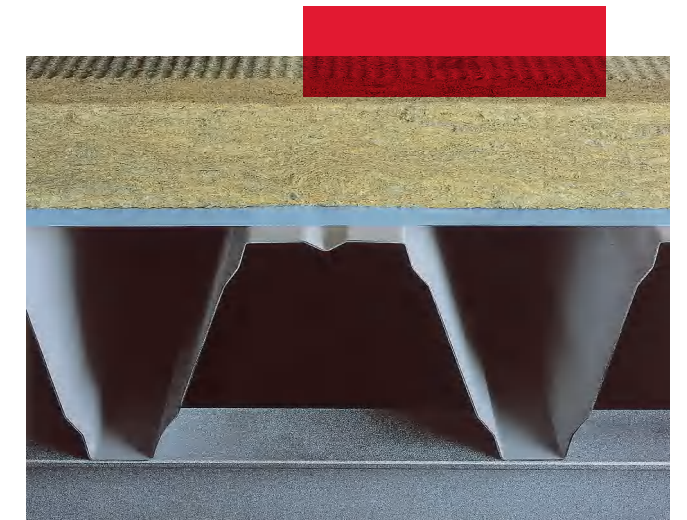


Features

High Polymer waterproofing membrane used in the system has outstanding resistance to weathering, combined with ROCKWOOL TPR-DD/DD Plus of its excellent roof insulation. ROCKWOOL roofing system takes a concise approach to structure, with professional design and flexible touch to node details. The roof has advantages in the following aspects:

Durability

- All roofing materials meet the requirements for long term use under various climate conditions.
- The system meets the standards for roofing materials and systems in China.
- Waterproofing membrane has excellent performance in durability, resistance to puncture and tear, anti-oxidation, anti-UV, resistance to corrosion, etc.
- Our perfect solution guarantees a longer life.



Adaptability

- Great flexibility, no restriction to the slope, shape or direction of the roof, easy to install.
- Membrane and stone wool's excellent performance can meet strict requirements of design and severe weather conditions. The installation can start at any time. Maintenance can be scheduled throughout the roof's lifetime during which changes to its functions can also be conducted.

Economy

- Longer lifetime, lower maintenance cost. Life cycle costs can be controlled effectively.
- A wide range of products to select from upon your budget.

Safety

- Our roofing system provides fire protection which reduces the risk of fire and guarantees the safety of people and buildings, with no smoke or toxic produced. Safe and environmentally-friendly installation methods
- lessen impact on the environment. Our roofing system has no undesirable effect on the building and its use.

Comfort

- Improved insulation performance, higher level of indoor comfort, less building energy consumption.
- ROCKWOOL roofing system can reduce the impact of noise inside the building, especially rain noise.
- No cold bridge, good resistance to condensation, more comfort inside the building.



ROCKWOOL TPR-DD/DD Plus

Light weight and high strength innovative products representing the trend of roof insulation



ROCKWOOL TPR-DD/DD Plus is an innovation insulation solution provided by ROCKWOOL. The product is made from natural rocks such as basalt and limestone. The rocks are melted in a cupola at temperature of higher than 1450°C, and the molten lava is fiberized by a spinner. The inorganic fibres are bonded together using a thermosetting resin to form the final product which is cut into suitable size for easy handling and installation. Comparing with common stone wool roof slab, ROCKWOOL TPR-DD/DD Plus features lower density, higher mechanical strength, and easier installation. It is an ideal combination of good thermal performance, fire resistance, acoustic, durability and sustainability.



Specifications

Unit code	Thickness (mm)	Size (mm)
TopRock-DD/DD Plus	50-150	1200x600

ROCKWOOL TPR-DD/DD Plus technical parameters

Project	Unit	TPR-DD	TPR-DD Plus	Standard
Nominal density	kg/m³	≤150	≤170	GB/T 5480
Fire classification	-	A (A1)	A (A1)	GB 8624
Thermal conductivity	W/ (m.k)	≤0.037	≤0.040	GB/T 10295
Compressive strength (at 10% deformation)	kPa	≥60	≥80	GB/T 19686
Tensile strength of the surface	kPa	≥20	≥25	GB/T 30804
Tensile strength (perpendicular to the surface)	kPa	≥10	≥10	GB/T 30804
Point load (at 5mm deformation)	N	≥700	≥900	GB/T 19686
Acidity coefficient	-	≥1.8	≥1.8	GB/T 1549
Hydrophobic rate	%	≥99	≥99	GB/T 19686
Short-term water absorption (partial immersion, 24h)	kg/m²	≤0.5	≤0.5	GB/T 19686
Long-term water absorption (partial immersion, 28d)	kg/m²	≤1	≤1	GB/T 19686
Moisture absorption rate by weight	%	≤0.5	≤0.5	GB/T 19686
Surface Burning Characteristic				
Fire Spread Index	-	0	0	UL 723
Smoke Development	-	0	0	UL 723
Melting Point	°C	≥1000	≥1000	DIN 4102

ROCKWOOL Topcover waterproofing membrane

High-quality, high-durability waterproofing membrane

ROCKWOOL TopCover RP Series PVC waterproofing membrane production line uses advanced techniques, embedded with a reinforced polyester mesh for better mechanical performance. ROCKWOOL TopCover RP Series PVC waterproofing membrane is 2-meter wide, with options of 1.2mm, 1.5mm or 2.0mm in thickness.



Integrated roofing system with waterproof and thermal insulation

- A whole set of roofing system as a complete solution
- A roofing system design to customize each project,
- high-quality and reliable products and components
- Improved system design and installation training, safety guaranteed by technical support
- Improved product quality assurance system

Accessory

ROCKWOOL can provide a complete set of accessories, such as fasteners, strips, prefabricated parts, etc. Please contact your local sales representative for more details.

Fixing screws	Tube	Strength bar	Terminal bar	Corners	Lightning rod base
					

Topcover RP technical parameters

Main performances	Testing methods	RP 120	RP 150	RP 200
Thickness(mm)	GB/T 328.5	1.2	1.5	2.0
Thickness of surface (mm)≥	GB/T 328.5	0.4	0.4	0.4
Expansion under maximum tensile stress /% ≥	GB/T 328.9	15	15	15
Maximum tensile stress/(N/cm) ≥	GB/T 328.9	250	250	250
Coefficient of thermal expansion/%≤	GB/T 328.13	0.5	0.5	0.5
Bending at low temperature C ≤	GB/T 328.15	-25	-25	-25
Water resistance	GB/T 328.10	Water resistant	Water resistant	Water resistant
Impact resistance	GB 12592-2011	Water impermeable	Water impermeable	Water impermeable
Seam resistance to peeling/ (N/mm) ≥	GB/T 328.21	3	3	3
Trapezoidal tear strength / N ≥	GB/T 328.19	250	250	250
Water absorption rate (70℃ , 168h) %≤	GB 12592-2011	4	4	4
Thermal ageing (80℃)	GB/T 18244	Requirement met	Requirement met	Requirement met
Resistance to chemical substances	GB 12592-2011	Requirement met	Requirement met	Requirement met