Leading in Sustainable **Insulation** Solutions

FUJAIRAH ROCKWOOL FACTORY

FRF

مصنع الفجيرة للصوف الصخري

A subsidiary of Fujairah Building Industries PJSC

At FRF, we take pride in being the go-to manufacturer and supplier of Class A1 Stone wool Products in the MENA Region.

Every watt saved is a step towards a sustainable future. Discover our top insulation solutions for consistent energy savings.

About **Fujairah Rockwool Factory**

Being the first manufacturer of Rockwool insulation in the GCC region since its establishment in 1982, Fujairah Rockwool Factory (FRF), a subsidiary of Fujairah Building Industries PJSC, has distinguished itself as the sole producer in the UAE.

With a diverse team of around 200 employees representing different ethnicities, we celebrate diversity and the wealth of perspectives it brings. Our dedication to quality is reflected in our certifications including ISO 9001 QMS, ISO 14001 EMS, and 45001 OHSAS. Our products are certified by esteemed authorities such as DCL and Civil Defense in Fujairah, Dubai, Abu Dhabi, and Sharjah.

Operating with two production lines, our Fujairah Rockwool Factory has an annual capacity of approximately 40,000 tonnes, ensuring a reliable supply to meet market demands. In line with the UAE's commitment to sustainable solutions, we strive for a manufacturing process that minimizes waste. Our innovative approach involves recycling process waste in our Briquette plant, allowing for its reuse in our manufacturing process. FRF products significantly save energy and CO2 due to their low thermal conductivity and excellent sound absorption, surpassing the energy consumed and emitted during production.

Join us at FRF as we redefine sustainable insulation practices and pave the way for a greener, more efficient future in construction and beyond.

Health, Safety, and Environment

At Fujairah Rock Wool Factory, the safety and well-being of our employees are our top priorities. Our commitment to HSE is ingrained in every aspect of our operations. From the factory floor to the boardroom, we uphold rigorous safety standards to mitigate risks and ensure a secure working environment.

We recognize that protecting the environment is vital for future generations. That's why we continually invest in sustainable practices and technologies to minimize our ecological footprint. Safety isn't just a policy—it's a culture. Through comprehensive training programs and regular safety audits, we empower our employees to prioritize safety in everything they do.

By fostering a culture of accountability and continuous improvement, we aim to achieve zero incidents and environmental harm. Our HSE initiatives extend beyond our factory gates. We actively engage with our communities to promote safety awareness and environmental stewardship, contributing to a safer and healthier society.

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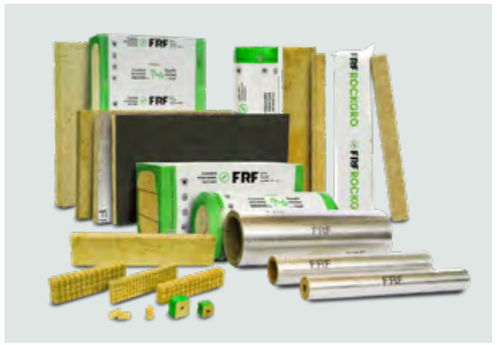

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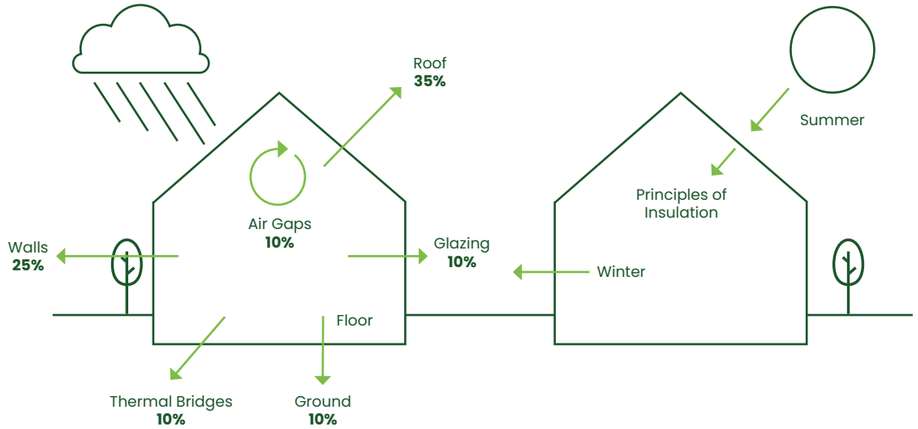
Why **Insulate?**

Thermal Insulation

FRF Rockwool offers excellent thermal insulation due to its open fiber structure, retaining air and effectively regulating heat. It remains stable, preventing expansion or shrinkage and minimizing thermal bridges at joints.



Fire Resistance

With full resistance to fire and negligible heat conduction, FRF Rockwool is ideal for environments with stringent fire safety requirements, such as industrial applications and buildings requiring high-temperature resistance. It is commonly used in fire-retardant applications like facades, cavity fire barriers, partition walls, fireproof doors, and ceilings, achieving a Euro Class A classification.

Soundproofing Properties

FRF Rockwool excels in soundproofing applications, effectively combating noise pollution. Special acoustic tiles designed for ceilings, walls, and floors enhance its versatility in both industrial and commercial settings. It finds use in walls, floors, and ceilings, contributing to sound absorption when combined with plasterboard in false or partition walls.

Cost-Effectiveness

Stone wool insulation is cost-effective compared to other materials. It does not absorb moisture, resisting mold growth. FRF Rockwool products are fully recyclable, minimizing their ecological footprint.

Versatility and Environmental Friendliness

With a wide range of applications, stone wool insulation emerges as a versatile and environmentally friendly choice for insulation needs. It is indispensable for saving energy and power costs in industrial and commercial applications. FRF Rockwool insulation products offer easy, cost-effective ways to achieve comfort in homes and offices.

Is Stonewool Insulation & Energy Efficiency Connected? **YES!!**

WITHOUT HEAT INSULATION

WITH HEAT INSULATION

Why Should You Choose FRF?

PROVEN RELIABILITY FOR OVER 40 YEARS

In keeping stride with UAE's commitment to Sustainable solutions , FRF is committed to a sustainable manufacturing process, wherein the process waste which was normally sent for land filling is recycled in our Briquette plant and reused in our manufacturing process. FRF products help in significant energy savings due to its very low thermal conductivity properties and it has excellent sound absorption properties. FRF products saves more energy and CO2 during its service time , than is consumed and emitted during its production.

PROTECTING THE ENVIRONMENT WITH ECO-FRIENDLY INSULATION

We prioritize eco-friendly mineral products. FRF Rockwool insulation is recyclable, made from basalt rock with pre-consumer recycled content, and free of harmful substances like CFCs and HCFCs.

OFFERS THE BEST SOLUTION FOR ENERGY-EFFICIENCY AND COMFORTABLE HOMES

Insulation is the optimal solution for an energy-efficient and comfortable home or office throughout the seasons. Proper insulation minimizes heat conduction, creating a cozy environment and shielding against external weather conditions.

ENSURING HEALTH AND SAFETY

Stone wool was removed from the International Agency for Research on Cancer's list of probable carcinogens in 2001. Epidemiological studies show no link between occupational exposure to stone wool fibers and an increased risk of cancer. FRF products are deemed extremely safe. Material safety data sheets and pictograms on packaging provide recommended work practices to prevent dust exposure.

OUR COMMITMENT TO A SUSTAINABLE FUTURE

Fujairah Rockwool Factory enhances living with stone-based solutions. Our services improve aesthetics, building performance, and sustainability while reducing waste, protecting against fires, and conserving resources. We use advanced technology to create stone wool, collaborating with climate agencies for community well-being. Our efforts have earned Green Building certifications like LEED and Estidama.

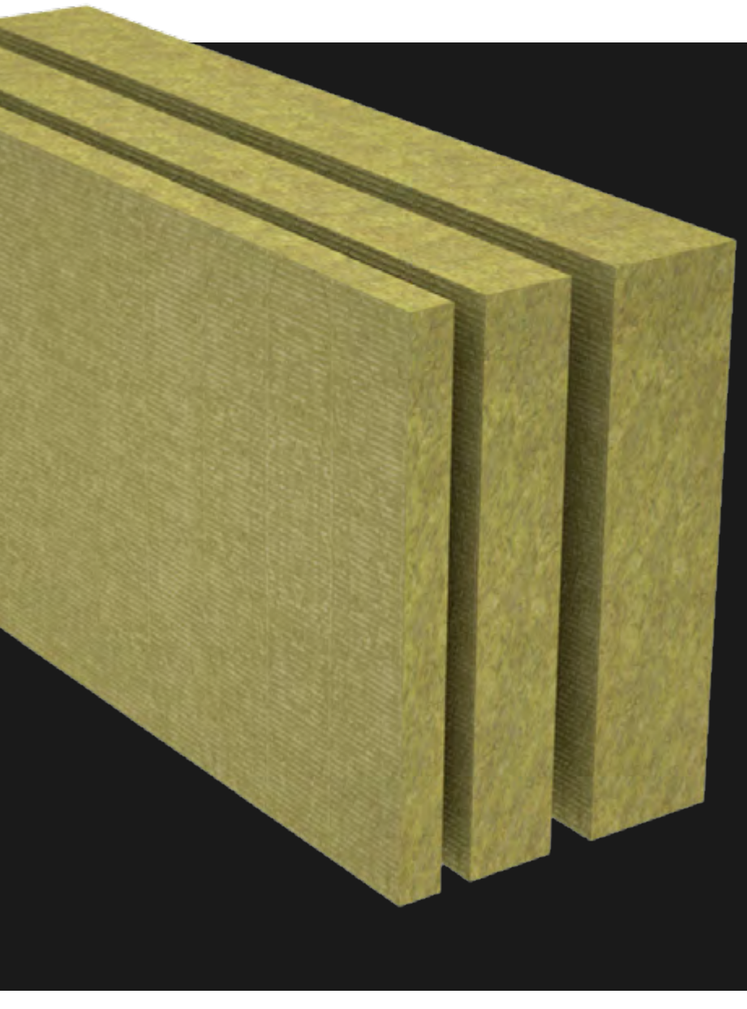
FRF Insulation Products

Insulation For Securing Our Future

FRF Slabs

The Reliable Solution for Superior Thermal and Acoustic Insulation

FRF slabs are designed to meet industry-leading standards such as ASTM C-612, BS 3958 Part 5, and BS EN 13162. These high-quality slabs offer exceptional thermal and acoustic insulation for flat or slightly curved surfaces, even under varying temperature conditions. Comprising non-combustible resin-bonded fibers, our slabs are both easy to cut, fit, and handle. They are the perfect choice for insulating a wide range of building types, including offices, homes, retail establishments, healthcare facilities, educational institutions, and commercial spaces.



Density:
30 Kg/m^3 - 200 Kg/m^3

Thickness:
25 mm – 200 mm

Standard Size:
1.2 Mtr x 0.6 Mtr and
1.2 Mtr x 1.2 Mtr

Note:
Other sizes can be produced on special request

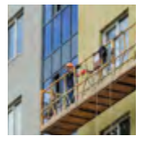
Applications

WALL INSULATIONS

We offer versatile insulation solutions for internal and external walls, meeting thermal, acoustic, and fire safety needs. Our options cover rain screens, over-cladding, facades, masonry cavity walls, and wood/metal frame constructions. Additionally, our internal insulation enhances thermal performance, acts as fire barriers, and prevents noise transfer.

INSULATING INTERIOR PARTITION WALLS
Insulating interior walls provides energy savings and sound-dampening benefits for improved comfort and privacy. Adding insulation to existing walls enhances energy efficiency and fire resistance.

ENHANCING EXTERIOR WALL PERFORMANCE
External wall insulation improves heat regulation, weatherproofing, sound resistance, and appearance. Choose from a variety of finishes, such as painted, paneled, textured tiles, or real masonry brick.



FACADE INSULATION SOLUTIONS
Our efficient facade insulation systems, including pre-cut panels, meet thermal, acoustic, and fire protection requirements for businesses with easy installation.

FIRE STOPPING INSULATION
Our insulation materials provide excellent thermal resistance up to 1000°C and exceptional sound absorption properties.

METAL BUILDING INSULATION
FRF offers durable metal building insulation with customizable one or two-hour fire rated assemblies. Experience outstanding thermal, sound, and fire safety specifically designed for pre-engineered metal building construction.

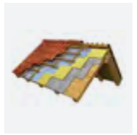
SANDWICH WALL PANEL INSULATION
Our eco-friendly insulation serves as a long-term investment for companies, acting as a key component in firewalls and offering soundproofing solutions for a peaceful environment.

ROOF INSULATION

Insulating is the most effective method to minimize heat loss and significantly reduce energy bills.

FLAT ROOF INSULATION FOR COMMERCIAL BUILDINGS

Commercial construction benefits greatly from flat roof insulation, which minimizes heat transfer, noise pollution, and improves fire resistance.



CUSTOMIZABLE PITCHED ROOF INSULATION

We offer customizable insulation solutions for pitched roofs, including easy-to-install options like blankets. Our pitched roof insulation provides thermal, fire, and sound protection for residential buildings.

METAL ROOFING INSULATION WITH OPTIMUM FUNCTIONALITY

Metal roofing insulation offers design flexibility, thermal performance, fire resistance, and acoustic properties for optimum functionality and performance.

EFFICIENT ATTIC INSULATION

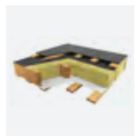
Our metal roof insulation efficiently conserves energy year-round, making it a reliable solution for older homes seeking to expand attic space.

FLOOR & CEILING INSULATION

Insulation is the best way to make sure that the heat loss is at its minimum and energy bills are also considerably reduced.

THERMAL REGULATION FOR INTERIOR FLOORS

We specialize in thermal regulations for floor constructions, offering solutions to prevent heat transfer between upper and lower floors.



INSULATING EXPOSED FLOORS

With our insulation solutions, you can easily convert unused sun-exposed areas like unheated porches into comfortable living spaces. This simple insulation improves comfort, reduces issues like frozen pipes, and leads to significant energy bill savings.

EFFECTIVE CEILING INSULATION

FRF's ceiling insulation provides excellent reduction of airborne sound, minimizes impact sound effects, and offers the highest level of fire resistance as a non-combustible solution.

FIRE PROTECTION

Fire protection is crucial in high-traffic areas like stadiums, hospitals, airports, high-rise buildings and apartments. Using the right grade of fire-resistant building materials, is essential to prevent the spread of flames and safeguard a structure during a fire, allowing more time for evacuation and minimizing damage.

FIRE BEHAVIOR IN A BUILDING

REGULAR / WITH LOW-DENSITY INSULATION

STONE WOOL INSULATION

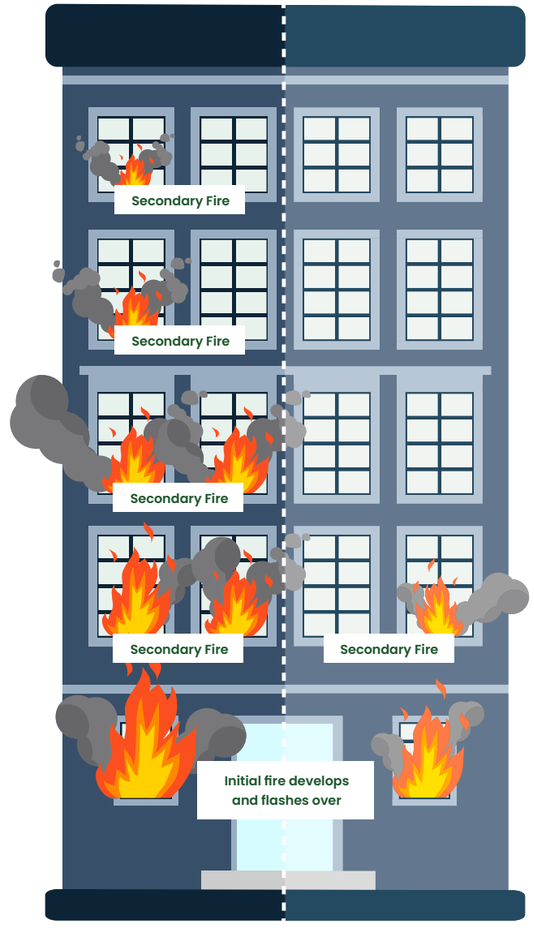
While glass breakage/fallout allows the fire to enter/exit, cladding allows/prevents spread

RAPID
FIRE SPREAD

Fire spreads upwards due to a combustible cladding, thereby contributing to the fire

Fire breaks in & out through glass

Flames break out Smoke / Fumes builds up



RESTRICTED
FIRE SPREAD

Fire spread is restricted due to a **FIRE RETARDANT** or **NON-COMBUSTIBLE** cladding material and system

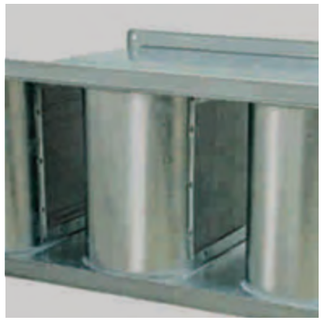
No Droplets falling down to avoid further spread and hazard to people

No Smoke / Toxic Fumes

Internal or External Fire Incident

OEM APPLICATIONS

Fujairah Rockwool's OEM products, engineered for peak performance in sound and fire resistance, offer exceptional solutions for various applications such as acoustical panels, mufflers, HVAC systems, sandwich panel manufacturers, pre-fabricated buildings, and fire doors, ensuring value for money.



LINEAR GAP SEALING / CAVITY FIRESTOP APPLICATIONS

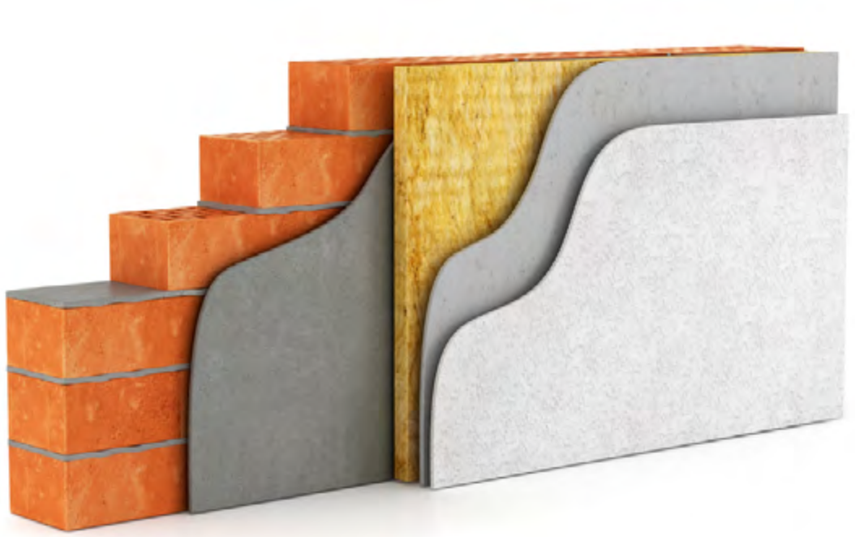
Our insulation serves as a barrier in construction joints, utilizing a unique manufacturing method for resilience, offering to prevent fire spread, ensure acoustic isolation, and accommodate building movement.

INDUSTRIAL APPLICATIONS

Fujairah Rockwool Factory manufactures Rockwool products tailored for diverse industrial segments in the Middle East, including Oil & Gas, Refining, Petrochemical, and Power plants. **Over four decades, we have earned a reputation as the industry's preferred choice.**

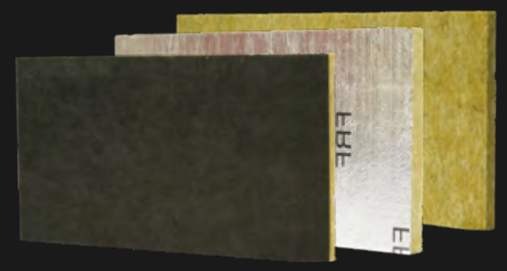
EIFS/ETICS APPLICATIONS

FRF insulation is made from non-combustible stone wool that can withstand up to 780°C (depending on density). It effectively reduces fire spread and provides extra time for escape and property preservation. With its natural properties obtained from heat-treated basalt rocks, FRF insulation offers noncombustibility, excellent vapor impermeability, soundproofing, and long-lasting thermal insulation. Additionally, the Exterior Insulation Finishing Systems (EIFS) Rockwool insulation excels in thermal insulation, vapor impermeability, and soundproofing, making it a versatile and sustainable choice for building projects.



Installation Recommendation

To ensure proper installation, it is important to clean, dry, and dust-free all contact surfaces. When handling the material, it is crucial to use the appropriate protective equipment. Horizontal joints should be staggered according to the recommended fixing practice. Additionally, slabs should be closely aligned at both horizontal and vertical joints.



FRF Blanket

The Industry's Preferred Choice: Flexible and Versatile

FRF BLANKET

FRF Blanket is the ultimate insulation solution for thermal and acoustic needs in ducts, heating equipment, and air conditioning systems. With its adaptability, efficiency, and sustainability, FRF Blanket is a reliable choice for all industrial insulation needs, from large tanks to high-temperature plants and machinery.

WIRED BLANKET

The versatile solution for large vessels, machinery, ducts, valves, flanges, and high-temperature plants, with the ability to conform to irregular shapes and wrap large curved surfaces.

Density:
30 Kg/m3 - 200 Kg/m3

Thickness:
25 mm – 200 mm
(depends on the thickness & facing)

Standard Size:
1.2 Mtr x 5 Mtr and
1.2 Mtr x 1.2 Mtr

Wired Blanket Size:
1.2 Mtr x 4 Mtr

Note:
Other sizes can be produced on special request

Applications

HVAC SMOKE EXTRACT & KITCHEN EXTRACT DUCTWORK APPLICATIONS

When it comes to fire prevention and containment, the choice of insulation material is crucial. FRF products not only offer high fire resistance and safety, but also provides excellent thermal and acoustic insulation, making it an ideal choice for HVAC installations in buildings. Its flexible and simple fixing options ensure hassle-free and efficient installation for both horizontal and vertical ducts, giving building management peace of mind in their fire safety measures.

Some of the advantages of using FRF products for both vertical and horizontal duct systems are as follows.

Superior Fire Resistance

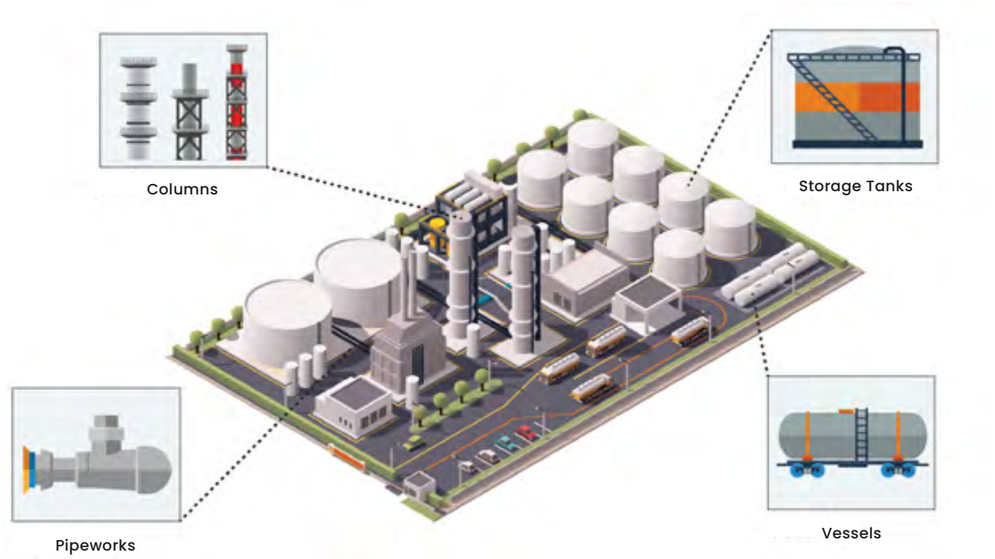
Excellent Thermal Resistance

Less Maintenance Costs

Easy Installation Process

INDUSTRIAL APPLICATIONS

For over four decades, Fujairah Rockwool Factory has been the **preferred choice** for oil, gas, refining, petrochemical, power, and other industrial plants across the Middle East. Our Blankets, carefully designed to meet stringent process parameters and operating conditions, provide the ideal insulation solution for tanks and equipment, ensuring constant temperature control and optimal industrial processes.



Firesafe **Acoustical** **Thermal** **Durable** **Sustainable**

OEMS APPLICATIONS

Discover Fujairah Rockwool's impressive line of OEM products, meticulously crafted to withstand rigorous fabrication demands, and experience the outstanding fire and sound performance properties that can enhance any design project while supporting sustainability efforts.

Installation Recommendation

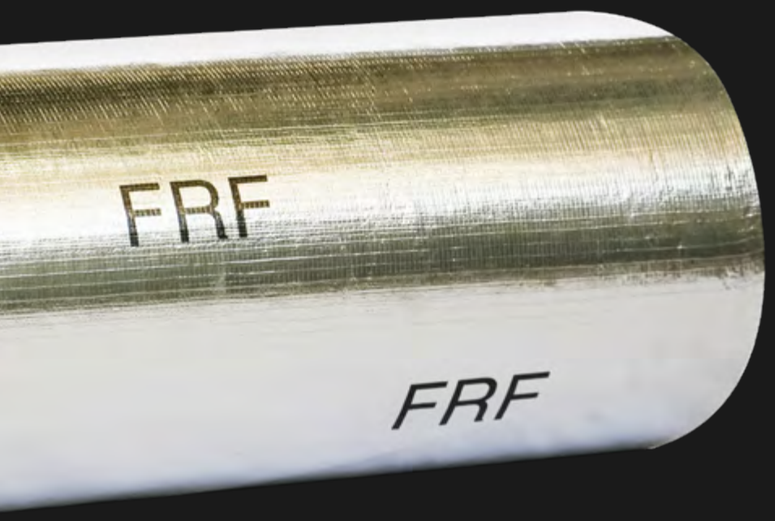
To ensure a proper fit, cut the wired blanket to the necessary length to match the surface. When closing the joints, it is important to stagger them at an angle of at least 30 degrees to each other. Use steel wire (minimum 0.5mm) or hooks to securely fasten the closing joints of the blankets, both lengthwise and circular. For stainless steel pipes and pipes with a temperature below 400°C, it is recommended to insulate them with blankets that have a stainless steel wire mesh. When installing multiple layers of blankets, ensure that both the lengthwise and circular joints are staggered. Finally, finish the insulation by applying metal cladding.

FRF Pipes

Superior Thermal and Acoustic Efficiency: FRF Pipe Section

The preformed pipe section from Fujairah Rockwool provides superior thermal, acoustic insulation, and fire protection for high-temperature pipe installations. Compliant with ASTM C-547 and equivalent to BS 3958-4 standards, this insulation delivers efficient performance, ease of handling, and versatility for use in both industrial and non-industrial environments.

Crafted from durable noncombustible rock fibers and a high-performance binder, this pipe insulation boasts exceptional thermal efficiency and strength. Its design allows for easy cutting, fitting, and handling, making installation straightforward. Each section is split and hinged for convenient snap-on applications, catering to demanding thermal and acoustic insulation requirements for pipe systems. With a balance of density, strength, and impressive thermal conductivity at elevated temperatures, this insulation provides effective temperature control.



Density:
80 Kg/m³ - 180 Kg/m³

Diameter:
1/2 inch – 24 inch

Thickness:
25 mm – 120 mm
(pipe are available in multiplayer as per project requirements)

Standard Size:
1.2 Mtr

Note:
Other sizes can be produced on special request

Applications

The seamless and continuous operations of chemical and petrochemical facilities, along with their power plants, rely heavily on piping systems. Essential equipment like appliances, columns, vessels, boilers, and turbines must be interconnected effectively to ensure a smooth flow of materials and energy without disruptions.

Purpose of insulation

The functions of proper thermal insulation for piping include:

- Minimization of heat loss
- Cost savings in the long run
- Lower carbon footprint
- Process Stability: Proper control of process temperature ensures stable operations.
- Noise reduction
- Prevention of condensation
- Personal Protection against high temperatures

Industrial Applications

Our pipes are the **top choice in industries** spanning Oil & Gas, Refining, Petrochemical, Power, and various other industrial plants throughout the Middle East. Featuring superior design and the capability to eradicate thermal bridges, our pipes provide efficient and sustainable solutions for enhanced performance.

One of the key benefits of opting for FRF pipes is the ability to apply pipe sections in a single layer. By utilizing FRF pipe sections, we can prevent the formation of thermal bridges and their adverse impacts, subsequently decreasing the occurrence of thermal bridges.

BANDING: Secure Your Pipes with Confidence

At FRF, our team of engineers is dedicated to providing you with the best quality banding solutions to ensure the secure installation of your pipes. We recommend applying three steel bands per section length, placing the end 100 mm away from the lateral joints. For pipe sections with an outer surface diameter of 200 mm or less, wire ties or spiral binding are ideal alternatives.

MULTIPLE LAYERS: Achieve a Consistently Tight Fit

In cases where multiple layers of insulation are required, our experts highly recommend banding both layers. This ensures a consistently tight fit and maximizes the insulation's effectiveness. For optimal results, apply the outer layers of the section with staggered joints, both laterally and longitudinally.

ELBOWS/BENDS: Insulated Efficiency

When it comes to incorporating insulated elbows into your pipe sections, our approach involves cutting the section at specific angles to form segments. The size of the pipe and the angle of the elbow determine the configuration of these segments. To secure the pipe section segments around the elbow, we utilize dependable steel banding or wire ties per section.

With any type of FRF insulation, customers can fill any minor gaps between the segments easily.

Installation Recommendation

Prepare contact surfaces meticulously, and handle material with protective equipment. Fit preformed pipe sections around pipes with lengthwise joints turned downwards, ensuring they're staggered at an angle of at least 30 degrees to each other. Bind the sections securely with 0.5mm thickness wire. Use two layers of insulation for thickness over 100mm or temperatures over 250°C. For multi-layer insulation, stagger lengthwise and crosswise joints.

FRF **Loose Wool**

FRF Loose Wool for Insulating Irregular Dimensions

FRF's loose wool is perfect for insulating cavities of any shape. Its specially bonded loose wool fits snugly, ensuring optimal insulation in irregular spaces. Our wool's density determines the desired thermal conductivity, matching our other products.

Each Wool bag is about 25 kg in weight. Customers can have custom packaging weights upon request.

Applications

FRF's loose wool serves as a versatile solution for general purpose insulation and expansion relief. It is effective for packing cavities in brickwork within furnaces, ovens, and various industrial equipment. Additionally, it is ideal for cavity packing in refrigerated cargoes, oxygen plants, valve boxes, automobile mufflers, and other types of silencers, particularly in situations where pre-formed insulation is challenging to install.

FRF RockGro

MINERAL WOOL SOLUTIONS FOR SOIL-LESS CULTIVATION

FRF presents sustainable water-conserving mineral wool as the innovative accessible soil-alternative for all hydroponic solutions. Grow any vegetables, fruits, leafy greens, and flowers in an efficient process with FRF ROCKGRO.

WHAT IS FRF ROCKGRO MEDIUM FOR HYDROPONICS?

Growing mediums are produced by spinning fibers from melted basaltic rock. These fibers are then cut into a variety of shapes and sizes to meet the diverse needs of hydroponic growers.

The durability and compatibility of FRF ROCKGRO products with various hydroponic systems make them an ideal medium for all hydroponic farming

WHY ROCK WOOL FROM FRF?

Safety. ROCKGRO has proven zero toxicity and contains no harmful chemicals, making it a safe and reliable rooting medium for plants. Its chemical-free composition ensures no risk to plant health or the environment, offering peace of mind for growers who prioritize safety and .sustainability

Easy to Use and Cost-Effective. It is lightweight, convenient, and easy to use. Available in various shapes and sizes, it supports plant development at every growth stage. Highly economical compared to other mediums, it allows growers to ensure uniform crop development even with basic irrigation systems.

Ideal Medium. ROCKGRO in nutrient solution has a pH of 5.5 to 6.5 and high porosity, making it an ideal substrate material. The capillary design of ROCKGRO efficiently traps oxygen molecules, leading to ideal levels of dissolved oxygen, which in turn promotes healthy roots and enhances the overall growth of plants.

Sterile Medium. Because mineral wool is inorganic, it is resistant to rot, free from seeds, and devoid of pathogens and vermin. These properties significantly reduce the risk of disease exposure for crops. Its sterile nature ensures a healthier growing environment, promoting robust plant development and minimizing potential health threats.

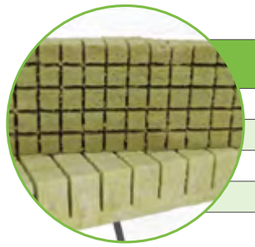
Water Retention and Absorption. The medium ensures uniform water distribution, help the plants to achieve adequate hydration while promoting air circulation and root oxygenation. This property allows for the efficient use of water and nutrients.The medium ensures uniform water distribution, help the plants to achieve adequate hydration while promoting air circulation and root oxygenation. This property allows for the efficient use of water and nutrients.

KEY TECHNICAL INFORMATION

Time required to sink	< 20 sec
Water Absorption	Completely absorbs water
Nominal water content	85% Min
Porosity	High porosity
Recovery capacity	95% Min
pH in nutrient solution	5.5 pH to 6.5 pH
Toxicity	Nil
(Dissociate hydroxy benezene (as phenol	0.1 ppm max
(Dissociate aldehyde (as formaldehyde	0.018 ppm max

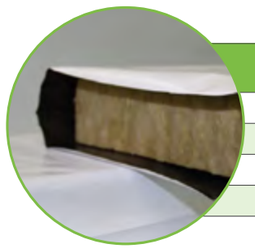
MEASUREMENTS

FRF ROCKGRO represents the future of food sustainability, and FRF Rockgro offers customized .sizes and shapes to meet your specific requirements



FRF ROCKGRO STARTER CUBES	
FRF ROCKGRO STARTER 200	20 x 20 x 43 mm
FRF ROCKGRO STARTER 9863	30 x 30 x 63 mm
FRF ROCKGRO STARTER 9840	30 x 30 x 40 mm
FRF ROCKGRO STARTER 056	40 x 40 x 65 mm

FRF ROCKGRO STARTER PLUGS	
FRF ROCKGRO STARTER 012	DIA x 60 mm
FRF ROCKGRO STARTER 022	DIA x 60 mm
FRF ROCKGRO STARTER 044	DIA x 60 mm



FRF ROCKGRO SLAB	
FRF ROCKGRO SLAB 90	1000*200*90 mm
FRF ROCKGRO SLAB 70	1000*200*70 mm
FRF ROCKGRO SLAB 150	1000*200*150 mm
FRF ROCKGRO SLAB 200	1000*200*200 mm

FRF ROCKGRO BLOCKS	
FRF ROCKGRO TOP-BLOCK 65	75X75X65 mm - HOLE: 30 mm
FRF ROCKGRO TOP-BLOCK 70	100X100X70 mm - HOLE: 40mm

Based on the grower's requirement, we also customize products and carry a range of FRF ROCKGRO Mini Slabs (70X40X20 MM) and FRF ROCKGRO Rock Wool Mats (500X250X7 MM) for ease of use.

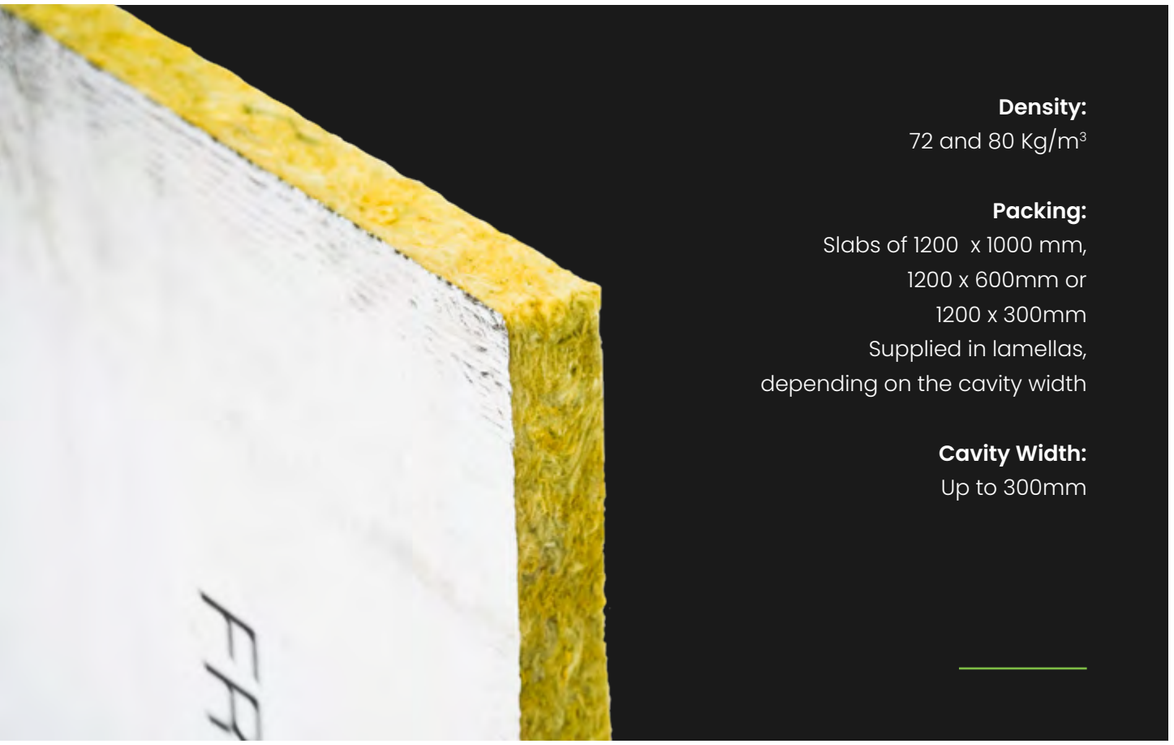
FRF Pyroboard

Why Choose FRF Pyroboard for Your Building's Passive Fire Protection Needs?

Are you seeking unparalleled passive fire protection for your building's non-ventilated cladding facades? Look no further than FRF Pyroboard Cavity Fire Barriers (CFB). In the event of a fire, these barriers play a pivotal role in reducing the spread of flames and smoke through the walls, safeguarding lives, and property.

What sets FRF Pyroboard apart is its exceptional composition, designed to offer superior resistance to the passage of fire. By completely sealing the space between the external cladding and the building's structure, it ensures maximum safety.

Installing FRF horizontal cavity fire barriers is a breeze, as they fit snugly within the cavity using specially crafted brackets, available in various sizes to accommodate different cavity widths. With FRF Pyroboard, you're not just investing in fire protection – you're investing in peace of mind.



Density:
72 and 80 Kg/m^3

Packing:
Slabs of 1200 x 1000 mm,
1200 x 600mm or
1200 x 300mm
Supplied in lamellas,
depending on the cavity width

Cavity Width:
Up to 300mm

THERMAL CONDUCTIVITY

0.036 W/mK

REACTION TO FIRE

Classified as A1 as per EN 13501-1

RESISTANCE TO FIRE

Tested as per EN 1366-4 (2021)

FRF PYROBOARD Linear Gap Seal (LGS)

Seamless Junction Sealing

Are you in search of a dynamic solution to seal junctions between building elements and prevent fire penetration? Choose FRF Pyroboard Linear Gap Seal (LGS), the ultimate choice for flexible fire protection. Crafted with compressible rock wool, it effortlessly adapts to different joint widths, accommodating structural movement while meeting stringent thermal and acoustic standards.

Featuring standard sizes catering to gaps up to 100mm, FRF Pyroboard LGS delivers an impressive 90-minute fire rating, ensuring robust defense against fire spread. Say hello to peace of mind and bid farewell to fire safety concerns with FRF Pyroboard LGS guarding your building's critical junctions.

Packing	Slabs of 1200 × 1000mm or 1200 × 600mm
Facing	Unfaced
Density	72 and 80 Kg/m3
Thermal conductivity	0.036 W/mk
Gap Width	Up to 100mm
Gap Depth	Up to 200mm
Reaction to Fire	Classified as Al as per EN 13501-1
Resistance to Fire	Integrity (E) 120 minutes and Insulation (1) 90 minutes as per EN 1366-4 (2021)

FRF Spandrel Insulation

Excellence in Thermal Efficiency for your Curtain-Wall Applications

Looking to optimize thermal insulation for your curtain-wall projects? Our FRF Spandrel Insulation is meticulously engineered to meet your needs. Positioned behind spandrel panels alongside aluminum foil and Perimeter Fire Barrier, this specialized insulation solution ensures peak thermal performance.

Crafted to adhere to rigorous standards like ASTM C-612, BS 3958 Part 5, and BS EN 13162, FRF Spandrel Insulation is your go-to choice for flat surface thermal and acoustic insulation demanding high compressive strength. With FRF Spandrel Insulation, experience heightened thermal efficiency and acoustic comfort in your structures.

Packing	Slabs of 1200 x 1000mm or 1200 x 600mm
Facing	Aluminum foil facing on one side
Density	128 Kg/m3
Thermal conductivity	0.036 W/mK
Gap Width	50 mm - 150 mm
Reaction to Fire	Classified as Al as per EN 13501-1

LOUVRE MUSEUM - ABU DHABI

Our Major Projects Across the UAE

Featured Clients

KAEFER

DANUBE
No.1 building material company
since 1993

FIBREX
Construction Group since 1972

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INNOVATIVE SOLUTIONS. EVERYTIME.

TSSC

GBM

DAS داس العالمية DAS INTERNATIONAL
Innovative Reliable Quality

SBM

RMI
Roof Metal Industries

TEEJAN

Thermal INSULATION

إعمار للصناعات emaar Industries

ARCO | شركة إيجيس للأسقف AEGIS ROOFING COMPANY

CAPAROL

Certifications

Certification	Certifying Body	Description
Abu Dabi Civil Defense (ADCD)	ADCD	ADCD
Abu Dhabi Quality & Conformity Council Certificate	ADQCC	Insulation Products Certification scheme
ADCE (Abu Dhabi Commercial Engineering Services)	ADCE	ADCE
ASTM C547	Dubai Central Laboratory (DCL)	Standard Specification for Mineral Fiber Pipe Insulation
ASTM C612	Dubai Central Laboratory (DCL)	Standard Specification for Mineral Fiber Block and Board Thermal Insulation
ASTM D 1929	ESL(Emirates Safety laboratory)	Standard Test method for Determining Ignition Temperature of Plastics
BS EN 13162	Dubai Central Laboratory (DCL)	Thermal Insulation products for buildings - factory made mineral wool (MW) products
BS EN 13501-1 Classification A1	Intertek	BS EN 13501-1 Classification A1
BSEN 13501-1 (CF5332)	Certifire - Warrington Fire	Fire classification of construction products and building elements
CE Certificate	SAGACI	Building Matrial Regulation (EU) No.305/2011 (CPR)
Dubai Civil Defense (DCD)	DCD	DCD
Emirates Green Building Council Certificate (EGBC)	EGBC	EGBC
EN 1363-1:2020, EN 1366-4:2021, BS EN 13501-1 Classification A1	Intertek	EN 1363-1:2020, EN 1366-4:2021, BS EN 13501-1 Classification A1
Environmental Product Declaration	International Climate Intelligence System	ISO 14025 & EN 15804:2012+A2;2019/AC:2021
FM Approvals Class : 4880	FM	Approval Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials
FM Approvals Class : 4924	FM	Approval Standard for Pipe and Duct Insulation
Fujairah Civil Defense (FCD)	FCD	Fujairah Municipality
Fujairah Civil Defense Safety	FCD	Fujairah Municipality
ISO-14001-2015	ISOQAR	Certificate No. 22353-E15-001
ISO-45001-2018	ISOQAR	Certificate No. 22353-OHS-001
ISO-9001-2015	ISOQAR	Certificate No. 22353-Q15-001
Pipe & Duct Insulation	Dubai Central Laboratory (DCL)	2023 Al Sa'Fat Dubai Green Building System
PyroBoard LGS - EN 1366-4:2021	Efectis - PYROBOARD -LGS	EN 1366-4:2021
Sharjah Civil Defense (SCF)	SCD	SCD
UL 723	UL	UL Standard for Test for Surface Burning Characteristics of Building Materials

Note*

In addition to the product certifications, all our products are tested to a variety of performance tests. Please contact FRF technical support team for further details.

Test **Reports**

Testing Methods	Testing Laboratory	Description
ASTM C1104 / C1104M	DCL/ETL/In-house	Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation
ASTM C1335	DCL/ETL/In-house	Standard Test Method for Measuring Non-Fibrous Content of Man-Made Rock and Slag Mineral Fiber Insulation
ASTM C165	DCL/ETL/ In-house	Standard Test Method for Measuring Compressive Properties of Thermal Insulations
ASTM C356	EXOVA, Canada	Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat
ASTM C423	RIVER BANK ACOUSTICAL LABORATORIES	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM C692	TUTCO SCIENTIFIC CORPORATION	Standard Test Method for Evaluating the Influence of Thermal Insulations on External Stress Corrosion Cracking Tendency of Austenitic Stainless Steel
ASTM C795	TUTCO SCIENTIFIC CORPORATION	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel
ASTM C871	AL HOTY- STANGER LABORATORIES	Standard Test Methods for Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions
ASTM E136	DCL/UL	Standard Test Method for Behavior of Materials in a Vertical tube Furnace at 750°C
ASTM E1966-07	THOMAS BELL WRIGHT(TBW)	Test Method for Fire-resistant Joint Systems
ASTM E84	UL/TBW/EXOVA	Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E96	DCL	Standard Test Methods for Water Vapor Transmission of Materials
BS 2972	ETL/In-house	Methods of test for inorganic thermal insulating materials
BS 476-20	WARRINGTON FIRE/ TBW	Fire tests on building materials and structures. Method for determination of the fire resistance of elements of construction
BS 476-4	WARRINGTON FIRE	Fire tests on building materials and structures. Noncombustibility test for materials
BS 476-6	WARRINGTON FIRE	Fire tests on building materials and structures. Method of test for fire propagation for products
BS 476-7	WARRINGTON FIRE	Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of productsl
BS EN 717-1:2004	WIMPEY LABORATORIES	Wood-based panels. Determination of formaldehyde release. Formaldehyde emission by the chamber method
DIN 52271	TUV	Testing of mineral fiber insulating materials; Behavior at elevated temperatures
ASTM C411	EXOVA, CANADA	Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation
UL 723	UL	UL Standard for Test for Surface Burning Characteristics of Building Materials as per ASTM E 84 & ASTM E 136

About **Fujairah Building Industries**

Quality and Commitment is in our DNA

A GLOBAL STANDARD IN INDUSTRIAL CONSTRUCTION MATERIALS.
Successfully Serving Construction Industry Since 1978.

Fujairah Building Industries (FBI), under the leadership of H.H. Sheikh Hamad Bin Mohamad Al Sharqi, is a highly regarded technology-driven organization in the construction sector. Known for their exceptional products and services, FBI has established themselves as a leading company in the industry.

The extensive product range of Fujairah Building Industries Group includes rockwool insulation products, concrete blocks, pavers, terrazzo tiles, marble products, kerbstones, ceramic tiles, and more. Recognizing the ever-changing regional market, FBI has strategically implemented growth plans across their group of companies to ensure their continued success and ability to meet the growing market demands.

FBI takes pride in their state-of-the-art infrastructure and advanced plant and machinery. By investing in research and development, they consistently adhere to international quality standards and stay updated with market trends. This dedication allows them to continually innovate and offer products that cater to the diverse requirements of their customers.

Currently, the following companies fall under the Fujairah Building Industries umbrella:

- Fujairah Rockwool Factory (FRF)
- Fujairah Concrete Products (FCP)
- Fujairah Marble and Tiles Factory (FMTF)
- Fujairah National Quarry (FNQ)

The main objective of the company is to efficaciously provide high quality building materials to the local, regional and global market.

Contact Fujairah Rockwool Factory

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FUJAIRAH ROCKWOOL FACTORY FRF مصنع الفجيرة للصوف الصخري

FUJAIRAH BUILDING INDUSTRIES P.J.S.C. الفجيرة لصناعات البناء ش.م.ع