

ECO SHIELDS

Providing Innovative Thermal Insulation Solutions



COMPANY

www.ecoshieldsgroup.com

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Backed by a highly specialized team and deep industry expertise, the company delivers expert consultations and on-site support to ensure flawless project execution. Driven by innovation, it continuously evolves its technologies to meet client needs and stay ahead in the dynamic world of sustainable construction

About the Company

EcoShields is a Saudi company specializing in advanced thermal insulation solutions. As one of the leading providers in the Kingdom, it aims to enhance energy efficiency and reduce heat loss in buildings—aligning with Saudi Vision 2030 for environmental sustainability.

The company uses eco-friendly, high-performance materials that meet international standards, delivering integrated insulation systems for residential, commercial, and industrial projects.

EcoShields is distinguished by its use of the EIFS system (External Insulation and Finish System), offering high-quality insulation that improves building performance and reduces energy consumption.



Global-Standard System Powered by High-Quality Materials To Ensure Complete and Comprehensive Thermal Insulation

With over two decades of experience, EcoShields began its journey in the construction sector before shifting its focus to thermal insulation. This transition was driven by the company's founder, who spent years in the electrical industry and observed the rising energy bills faced by consumers, along with an urgent need for energy conservation. Motivated by this challenge, he conducted extensive research to develop a system capable of addressing both issues—reducing electricity costs by more than 60% and promoting more efficient energy use.

Message from the General Manager



Yahya Bin Hussein Hamzi
General Manager

“ At EcoShields, we manage and execute thermal insulation projects in line with globally recognized standards, carried out by skilled technicians certified by leading system manufacturers. We provide our clients with certified material documentation and execution warranties. Our goal is to become the first choice for those seeking to implement advanced insulation systems in their buildings.

“ We recognize that technology in the field of thermal insulation is rapidly evolving—delivering more efficient and environmentally friendly materials. That’s why at EcoShields, we stay at the forefront of these advancements, whether in insulation products or façade finishes, to consistently offer our clients the very best.

Vision and Mission

To be a strategic partner in driving sustainability and enhancing the quality of living and working environments. At EcoShields, we strive to be the leading choice for thermal insulation in Saudi Arabia by delivering innovative solutions that leverage the latest technologies and eco-friendly materials—aligned with global quality standards.

We are committed to offering certified products that reduce carbon footprint, promote sustainability, and position EcoShields as a pioneer in delivering advanced, energy-efficient, and environmentally responsible insulation solutions across the Kingdom.



EcoShields is dedicated to creating a lasting positive impact by delivering high-quality products and services that meet client needs, enhance comfort, and reduce energy consumption.

We aim to become the top choice for thermal insulation solutions by embracing cutting-edge technologies, developing eco-friendly innovations, and upholding the highest standards of excellence and quality in everything we do.

Our Mission

At EcoShields, our mission and responsibility are to deliver fully integrated thermal insulation solutions through the advanced EIFS system—enhancing energy efficiency in buildings while creating safe and comfortable environments.

We understand the critical role of effective insulation in reducing energy bills, and we are committed to providing solutions that combine durability with outstanding quality.



Goals and Strategic Plans

EcoShields' future strategy in the field of thermal insulation—centered around the EIFS system—focuses on strengthening its market position, advancing its technologies, and expanding its service offerings.

This includes geographic expansion across both residential and commercial sectors, continuous technical development and staff training, enhancing the overall customer experience, and increasing awareness of the importance of thermal insulation.



Enhancing energy efficiency by reducing energy consumption in buildings and improving thermal performance—contributing to the achievement of national sustainability goals.

Driving positive change through the implementation of the EIFS system, which combines high-performance thermal insulation with distinctive, aesthetically appealing exterior finishes.



Protecting buildings from environmental elements, as the system helps shield exterior surfaces from deterioration caused by weather conditions such as rain and wind.

Enhancing the building's exterior aesthetics, as the EIFS system allows for the addition of diverse decorative layers—contributing to a more refined and visually appealing architectural appearance.



EcoShields Projects

Residential Villa



This project represents an advanced model in thermal insulation technologies, where two types of insulation materials were combined to ensure maximum efficiency and energy savings.

Thermal insulation was implemented using rock wool and polystyrene, offering tailored solutions for every part of the villa's façade.

Location: Makkah, Saudi Arabia

Project Description

In the villa's main façade, rock wool was installed behind the porcelain cladding to provide effective thermal insulation tailored to the cavities behind the cladding—regardless of its type.

For the remaining façades, polystyrene was chosen due to its lightweight properties and excellent insulation performance.

This project exemplifies the integration of thermal performance with architectural design. Insulation materials were carefully selected to ensure maximum efficiency and effectiveness, resulting in a comfortable indoor environment and significantly reduced energy consumption—especially suited to the hot climate of Makkah.

Residential Building



Residential Building – Dr. Abdullah Bin Junaidib

This project stands out as one of the most prominent executed by EcoShields, thanks to the integrated functions of the EIFS system.

It contributed to achieving high thermal insulation efficiency with a U-Value of 0.2 W/m².C.

This exceptional performance helps reduce air conditioning electricity consumption by up to 80%, making it a model of sustainability and energy efficiency.

Location: Jeddah

Project Description

Thermal performance wasn't the only standout feature of this project—it also showcased a distinctive architectural design.

The building's façades were enriched with detailed decorative elements using CNC-cut polystyrene, which created precise grooves across the elevations and between floors, adding a unique architectural flair.

A special granite-textured finish was applied, giving the building a luxurious appearance and excellent resistance to weather conditions.

This combination of thermal efficiency and aesthetic appeal embodies the essence of smart, sustainable architecture—perfectly suited to the hot climate of Jeddah.

Red Sea Airport



Red Sea International Airport & Shura Island

This project is one of our most significant achievements in collaboration with Red Sea Global.

Our selection for the execution was based on the trust we've earned and our outstanding reputation for delivering the EIFS system with high efficiency.

Location: Red Sea International Airport & Shura Island

Executed Area: Over 10,000 m²

Project Description

In this project, over 10,000 square meters of the EIFS system were implemented—an advanced thermal insulation solution that delivers exceptional energy efficiency while enhancing the quality of exterior finishes.

Work is ongoing at Red Sea International Airport and Shura Island, where we continue to apply the highest standards in insulation and finishing to ensure the project aligns with the sustainability vision upheld by Red Sea Global developments.

Our Strengths and Resources

Advanced Insulation Technologies and Materials

High-Performance Materials
We utilize the latest high-quality insulation materials that ensure system efficiency—such as insulated foam panels and weather-resistant metals.

Modern Tools and Techniques
Our advanced equipment supports both installation and maintenance processes, helping reduce execution time and enhance the accuracy and quality of work.

Specialized Team

Experienced Engineers and Technicians
Our team consists of highly skilled engineers and technicians with the expertise required to install EIFS systems professionally and ensure top-tier performance.

Ongoing Training
We provide continuous training programs to enhance our team's skills and keep them up to date with the latest advancements in thermal insulation technology.

Strategic Partnerships with Suppliers

Strong Supplier Relationships
We maintain strong partnerships with top-tier suppliers of insulation materials and equipment, ensuring a consistent supply of high-quality products at competitive prices.

Reliable and Flexible Supply Chain
Our ability to provide materials reliably and flexibly supports uninterrupted project execution and helps avoid delays.

Capacity to Manage Large-Scale Projects

Project Management Expertise
We have the capability to handle large and complex projects with efficiency—covering all aspects from planning and execution to ongoing supervision and quality control.

On-Time Delivery
Our team ensures timely project completion through effective resource coordination and rigorous workflow management, always delivering according to the required specifications.

Capability to Execute Diverse Projects

Residential, Commercial, and Industrial Projects

We have the capacity to deliver projects of all types and scales—from small residential units to large-scale commercial and industrial developments.

Flexible Solutions

We provide tailored solutions that meet each client's unique needs—whether in terms of design specifications or thermal performance requirements.

Technical Support and Maintenance Network

Post-Installation Services

We offer maintenance and technical support services to ensure the continued efficiency and performance of our insulation systems.

Rapid Response

Our team is equipped to respond quickly to any unexpected issues that may arise in your projects—enhancing customer satisfaction and reinforcing your reputation.

Robust Financial and Operational Capacity

Efficient Management

Our professional management team effectively oversees resources and plans projects with a high level of efficiency and precision.

Financial Strength

EcoShields has the financial capacity required to execute large-scale projects and support business growth in alignment with market demands.

Commitment to Quality and Standards

High-Quality Standards

We strictly adhere to both local and international thermal insulation standards, reinforcing client confidence in the quality of our work.

Quality Control

A rigorous quality control system is in place throughout every stage of the project to ensure flawless execution that meets the highest standards.

Modern Tools and Technologies

We utilize the latest tools and technologies in the insulation and installation process—ensuring faster execution and greater precision.

We also employ specialized equipment for thermal insulation and final finishing, which enhances overall efficiency and minimizes material waste.

Specialized and Well-Trained Team

We have a team of engineers and technicians who are professionally trained and specialized in thermal insulation and EIFS systems.

Capability for Geographic Expansion

We have the ability to expand project execution across various regions—both locally and internationally—strengthening our presence in diverse markets. Our established network of partners and suppliers in multiple locations allows for greater flexibility and efficiency in implementation.

High-Quality Material Supply

We source our raw materials from trusted and certified suppliers, ensuring consistent access to high-quality components used in the EIFS system—such as insulation boards, exterior layers, and supporting equipment.

Our partnerships with reliable vendors guarantee continuous operations and the uninterrupted availability of essential materials.

Environmental and Sustainability Commitment

The company is committed to implementing eco-friendly practices across its operations—helping minimize environmental impact while upholding the core principles of sustainability.

We utilize environmentally certified materials that enhance thermal insulation efficiency and reduce the overall need for energy consumption.

Customer Support and Maintenance

We offer reliable post-installation and maintenance services, giving clients the confidence to depend on us for the long-term performance and efficiency of their systems

Our dedicated technical support team is always ready to provide expert guidance and consultations even after project completion

Our Clients and Partners



How We Work

To understand how EcoShields delivers thermal insulation using the EIFS system, the main workflow can be summarized as follows:



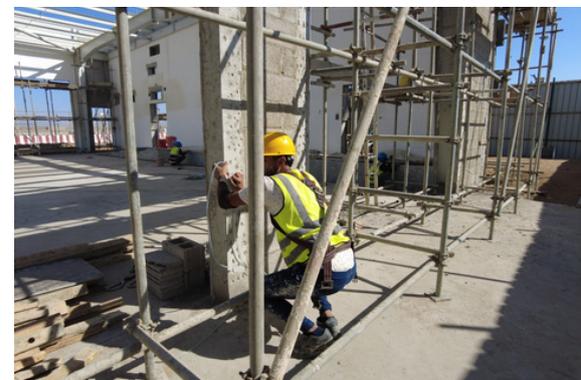
Initial Assessment and Requirements

Site and Building Evaluation

A specialized team from EcoShields visits the project site to assess the building and its specific thermal insulation needs. Key factors such as local climate, wall quality, existing insulation (if any), and building size are thoroughly examined.

Client Consultation

Based on the site evaluation, the team provides expert recommendations tailored to the client's needs and budget—advising on the most suitable insulation solutions.



Design and Planning

System Selection

Based on the assessment results, the appropriate thermal insulation layers—such as foam or rock wool—are selected, along with the exterior finishing type that best complements the building's appearance.

Engineering Design

If the project requires architectural modifications, our engineering team develops detailed technical designs, including insulation installation methods and supporting systems that enhance thermal performance.



Installation and Execution

Site Preparation

The process begins with marking edges, cleaning walls, and ensuring surfaces are level and stable.

Insulation Application

Thermal insulation is carefully applied to exterior walls using strong adhesive, ensuring full coverage without gaps.

Additional Layers

Reinforcement layers such as metal mesh and a cementitious coat are added to increase stability and durability.

Final Finishing

Lastly, an exterior finishing layer is applied to enhance visual appeal and provide protection against weather elements.



Inspection and Quality Assurance

Detailed Inspection

Upon completion of the installation, our quality team conducts thorough inspections to ensure that all layers have been properly and effectively applied.

Performance Testing

Thermal performance is evaluated using heat measurement techniques or thermal leakage tests to confirm the system meets the required efficiency standards.



Maintenance and Support

Routine Maintenance

We provide regular maintenance services to ensure the insulation system continues to perform efficiently—especially in the event of damage or leaks.

Post-Installation Support

Our team offers ongoing support after project completion to ensure long-term system sustainability and to address any issues that may arise later.



Education and Awareness

Client Training

We provide training for clients and end-users on how to properly maintain and handle the insulation system for long-term performance.

Guidance and Tips

We offer practical advice to help clients maximize the benefits of the insulation system and achieve optimal energy savings.

EcoShields Thermal Insulation System

There are several methods for insulating buildings, but EcoShields has adopted the EIFS full-envelope system as the optimal solution—based on in-depth research and technical comparisons with other insulation systems.

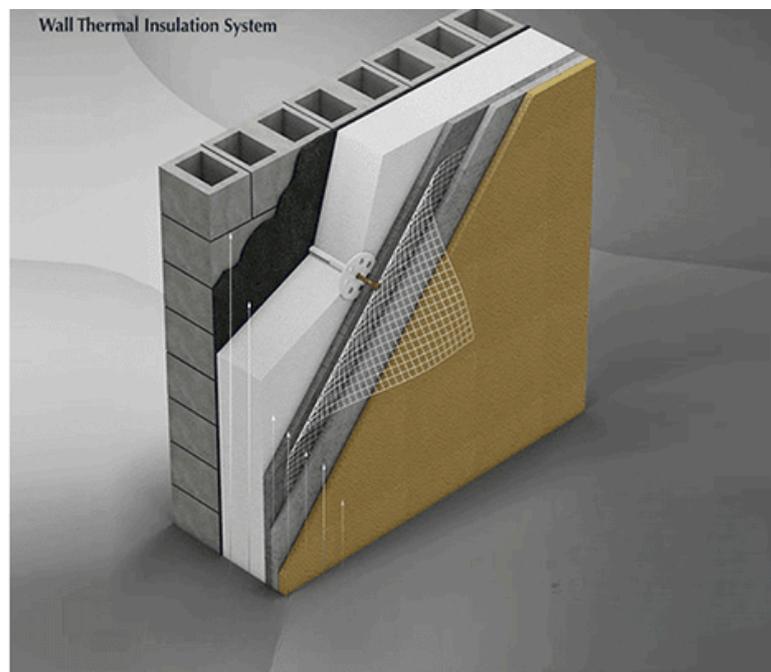
Originally developed in Europe and the United States in the 1950s, EIFS has since become a globally preferred insulation method.

What is EIFS?

EIFS stands for External Insulation & Finish System, which refers to applying exterior thermal insulation along with a final façade finish.

It is also referred to in some references as:

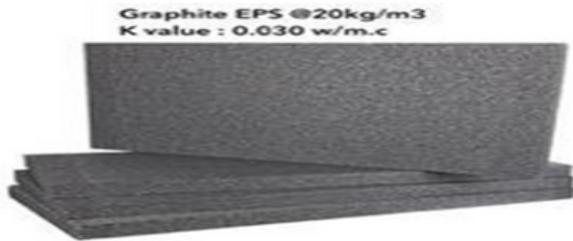
- ETICS – External Thermal Insulation Composite System
- EWI – External Wall Insulation



In this system, the building is fully wrapped with appropriate insulation materials to minimize thermal transfer to the greatest extent possible.

The goal is to meet the Saudi thermal insulation code for exterior walls, which requires a U-value of $0.342 \text{ W/m}^2\text{-C}$ —achieved by adjusting the thickness of the insulation layer accordingly.

Common Insulation Materials Used in the EIFS System



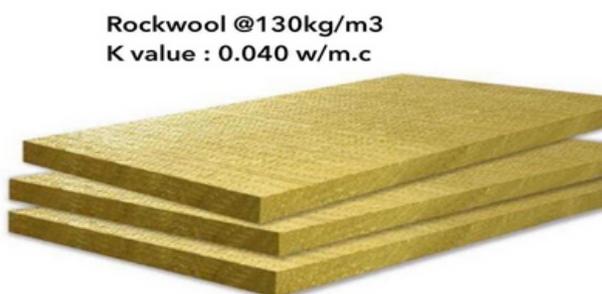
High-Density GEPS (Graphite-Enhanced Polystyrene)



High-Density EPS (Expanded Polystyrene)



High-Density XPS (Extruded Polystyrene)

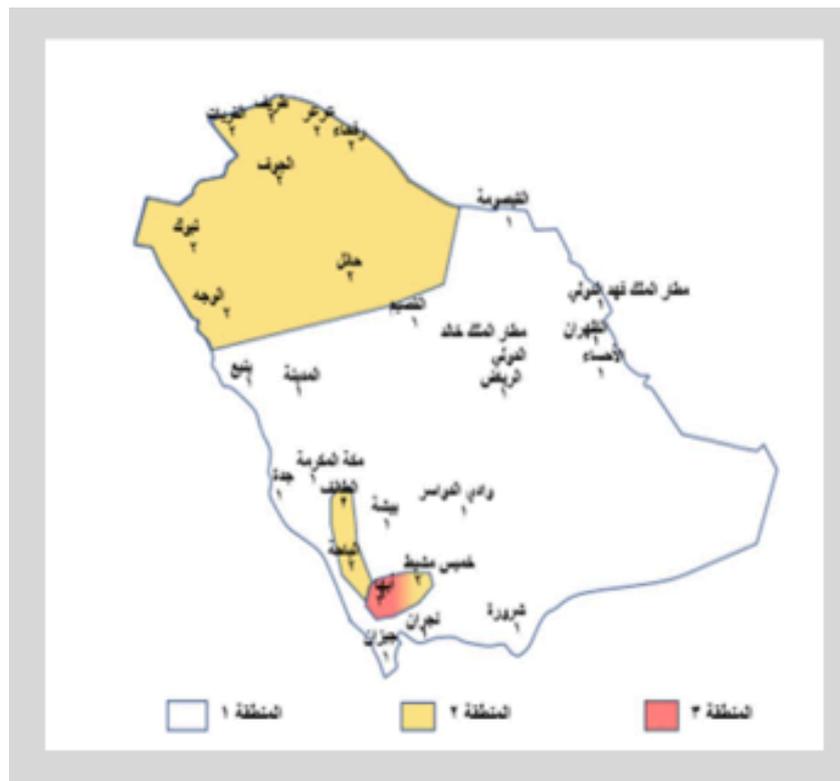


High-Density RW Rock Wool

The new Saudi Building Code for Thermal Insulation defines the thermal transmittance values (U-values in $W/m^2 \cdot C$) for all building elements.

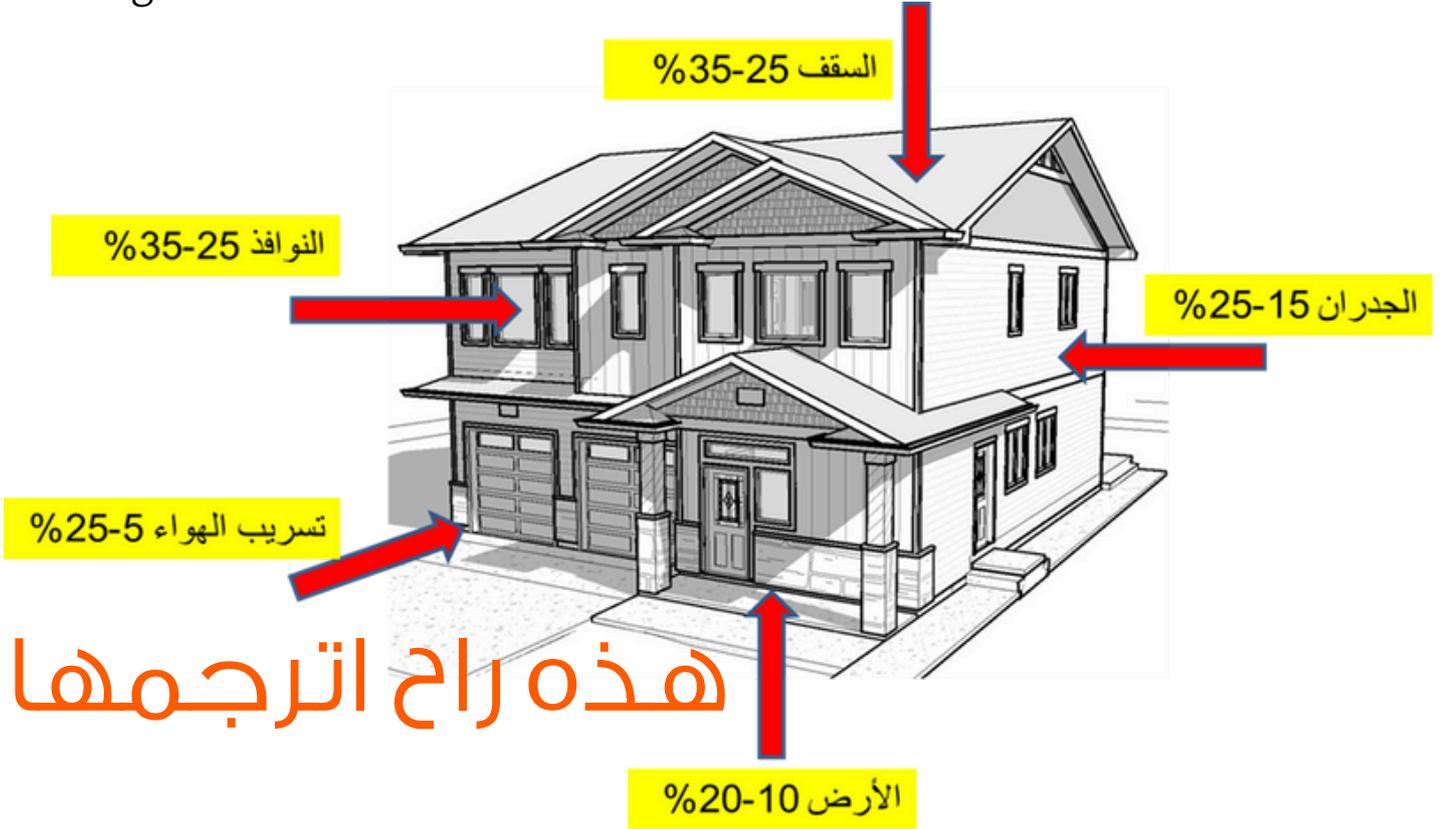
The Kingdom is divided into three climatic zones based on temperature levels, and each zone has specific thermal requirements as follows:

Walls	Floors	Roofs	Windows	Doors	Basements	Zone
0.342	0.496	0.202	2.668	2.839	0.678	Zone 1
0.397	0.469	0.238	2.668	2.839	0.678	Zone 2
0.453	0.469	0.273	2.668	2.839	0.678	Zone 3



Continuous Insulation

It is well known that thermal transfer into and out of a building occurs primarily through its external surfaces and the ground. Numerous studies have confirmed the proportional contribution of different building elements to overall heat transfer.



Continuous insulation goes beyond insulating only the exterior walls —it involves integrating roof insulation with external wall insulation, including parapet walls, and insulating beneath the ground-level floors. This approach ensures that the building is fully enveloped in a continuous thermal barrier.

In addition to insulating walls, roofs, and floors, high-performance windows—such as UPVC frames with double or triple glazing—are also essential for maximizing energy efficiency.

Controlling air leakage through building components like windows and doors is a key part of the continuous insulation system. Therefore, proper air-sealing measures must be applied to external windows and doors to maintain thermal integrity.

Final Finishing

The EIFS system offers exceptional flexibility, allowing contractors to execute complex architectural designs and façade decorations—without compromising the thermal insulation performance.

Buildings insulated by EcoShields become architectural landmarks, thanks to modern designs, spray-applied finishes, and the ability to use any desired color. The materials we use for external insulation are known for their stunning appearance and internationally certified quality. We take pride in partnering with renowned European manufacturers.

EcoShields also executes exterior decorative elements such as cornices, decorative columns, and window frames based on your provided designs—all fabricated using the same approved insulation materials.

Additionally, we offer cladding options made from stone veneers, clay panels, and treated wood—all of which are lightweight and environmentally friendly.



What Sets Us Apart

At EcoShields, we adopt the most advanced and beneficial thermal insulation systems—led by our implementation of EIFS technology.

Advanced Technologies & Innovative Materials

EcoShields relies on cutting-edge global insulation technologies combined with eco-friendly, high-performance materials that ensure long-term efficiency. These solutions are designed to reduce energy consumption and deliver indoor thermal comfort across varying climate conditions.

Customized Designs & Solutions

We are committed to providing tailor-made insulation solutions to meet each client's unique needs—whether homeowners, businesses, or industrial facilities. Every project is approached with a customized plan that balances design, performance, and cost-efficiency.

Commitment to Environmental Sustainability

EcoShields understands the vital role of thermal insulation in environmental sustainability. We work to reduce the carbon footprint of buildings by improving energy efficiency and lowering emissions.

Expertise and Team Efficiency

Our experienced team ensures every project is executed with precision and professionalism. From start to finish, we provide expert consultations and ongoing technical support to guarantee complete client satisfaction.

Measurable Results

We use only certified, high-quality materials that meet global standards—ensuring not just promises, but performance you can measure.

- A specialized team with extensive experience in delivering projects with high precision and quality.
- Commitment to sustainability through eco-friendly technologies aligned with Saudi Vision 2030 for energy efficiency and environmental preservation.
- High-quality materials that ensure outstanding performance and system longevity, improving insulation efficiency and reducing long-term maintenance needs.
- Strong technical expertise in thermal insulation system installation, ensuring accurate and effective implementation according to international standards.
- Outstanding customer service—from initial consultation to post-installation follow-up—ensuring client satisfaction at every stage.
- Continuous innovation in thermal insulation solutions, keeping pace with the latest technologies to deliver superior performance.
- On-time project delivery, reflecting our dedication to meeting deadlines and earning client trust.
- Focus on sustainability by using environmentally friendly methods that help conserve energy and reduce a building's environmental footprint.
- Competitive pricing for high-quality insulation solutions, making EcoShields the ideal choice for cost-effective and high-performance projects.
- A 10-year warranty—our confidence in our materials and workmanship allows us to guarantee durability and professional execution.
- Deep expertise in advanced insulation technologies, enabling us to offer tailored solutions based on environmental and climate conditions.
- Precision-driven implementation, ensuring error-free insulation and enhanced system effectiveness with extended building life.
- Eco-efficient systems that support environmental sustainability and reduce carbon emissions through enhanced energy efficiency.
- Flexible design compatibility to adapt to various architectural and aesthetic requirements, delivering elegant, modern results.
- Ongoing client support, including post-installation services and technical assistance to ensure peak system performance, with fast and effective problem-solving when needed.

Project Gallery

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**Your Optimal and
Premium Choice for
Thermal Insulation**