



# ▶ **RISE & SHINE**

## **GROUP OF COMPANIES**

### **RNS INSULATION**

#### **& FIRE PROTECTION LLC**

- ▶ Fire stopping
- ▶ Lamatherm
- ▶ Thermal insulation
- ▶ GRP lining
- ▶ Combo roofing systems
- ▶ Acoustics insulation
- ▶ Expansion joint covers
- ▶ Fire proofing



DCD, SCD, ADCD AND DCL APPROVED CONTRACTORS SINCE 2007

UAE • CANADA • KSA • QATAR • OMAN • INDIA



## FIRE STOPPING

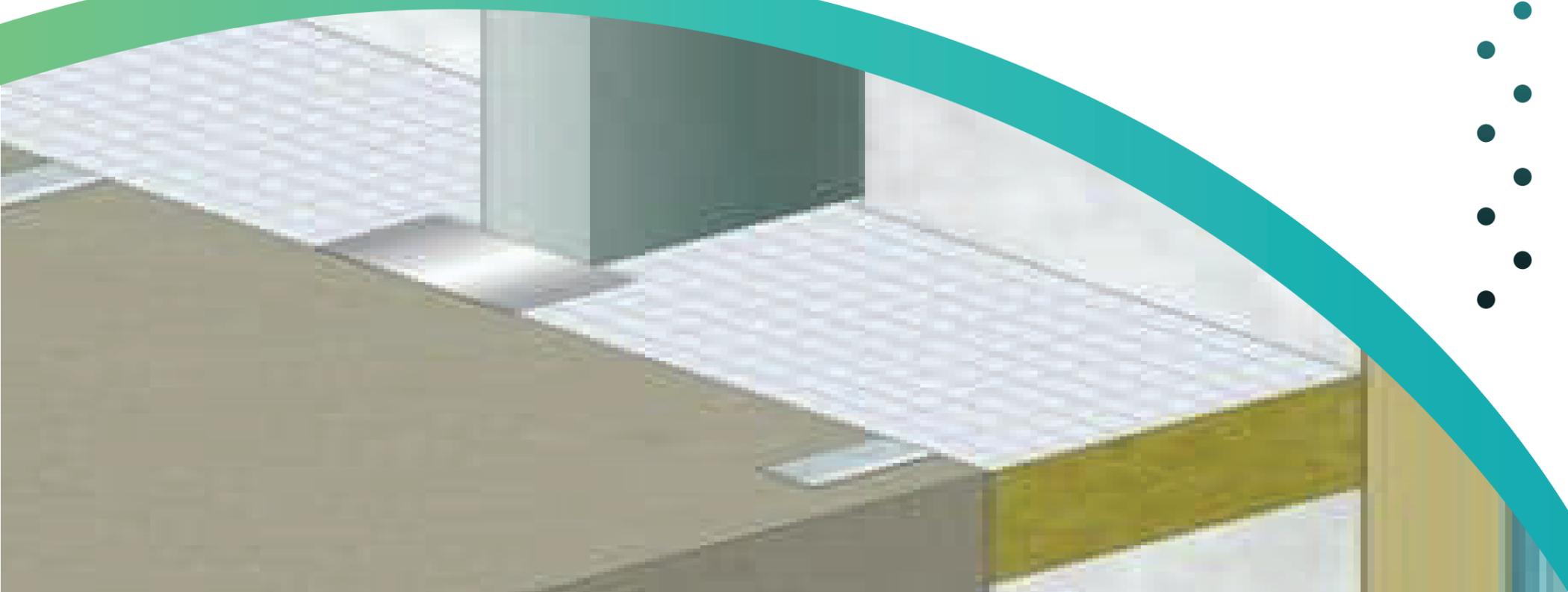
Firestopping is the practice of reinstating fire compartmentation or barriers which have been penetrated; it is part of the passive fire protection system made of various components used to seal openings and joints in the fire-resistance rated wall and/or floor assemblies. Firestopping are designed to restore the fire - resistance ratings of the wall and/or floor assemblies by impeding the spread of fire by sealing the openings with fire-resistant materials. Unprotected openings in fire separations cancel out the fire resistance ratings of the fire separations, allowing the spread of fire, usually past the limits of the fire safety plan of a building.

Firestopping components include intumescent, cementitious mortars, silicone, firestop pillows, mineral fibres, and rubber compounds. Firestopping should be maintained in accordance with the listing, approval use, and be compliant with Code requirements. Construction documentation sometimes includes an inventory of all firestopping in a building, with drawings indicating the location and the certification listings of each firestop. Using this, a building owner can meet the requirements of the fire code related to fire barriers during the period of building occupation. Otherwise, improper repairs may result, which would violate the fire code, and could allow a fire to travel between areas intended by code to be separated during a fire event.

Although the through-penetration firestop products mentioned serve as effective fire-stop materials, their effectiveness could be compromised when contractors or maintenance personnel carelessly move, add or change cables; when contractors fail to follow the Fire Resistance Directory; and when initial installations are difficult to inspect. Certain materials, including seals and putties, are especially difficult to inspect following installation. Inspectors must understand that an outer surface that appears Code compliant may mask hidden gaps or voids resulting in an improper or incomplete installation

## LAMATHERM

The primary function of the Lamatherm system is to maintain continuity of the fire resistance by sealing the gap between the compartment floors or walls, and the external curtain wall, both horizontally and vertically.





## THERMAL INSULATION



Thermal insulation is the reduction of heat transfer (i.e., the transfer of thermal energy between objects of differing temperature) concerning objects in thermal contact or in range of radiative influence. Thermal insulation can be achieved with design adaptations – specially engineered methods or processes, as well as with use of appropriate insulation materials. Heat flow is an inevitable consequence of contact between objects of different temperatures.

Thermal insulation provides a region of insulation in which thermal conduction is reduced or thermal radiation is reflected rather than absorbed by the lower-temperature body. The insulating capability of a material is measured as the inverse of thermal conductivity. Low thermal conductivity is equivalent to high insulating capability (Resistance value). In thermal engineering, other important properties of insulating materials are product density and specific heat capacity. Lamatherm (manufactured by Saudi Rockwool and Fujairah Rockwool.) cavity barriers are designed and installed within the ceilings and roofs of the building spaces to keep the fire away, and the dangerous gases from spreading around the building.

## GRP LINING



GRP lining is a best example of modern technology to protect the substrates from Corrosion & Water Leakage with cost-effectiveness. It gives immense strength to structures to face any sort of pressures. This also acts as the best method of Insulation to protect Water or any liquids from foreign bodies. GRP products are recommended as an alternative because of its excellent characteristics ie. flexibility, durability, lightweight, high intensity, resistance to aging & corrosion, dimension stability and aesthetic look with smooth surface We deal GRP lining from a comprehensive and more unique range of systems by specializing in hand layup applications. Our advanced precision moulding facilities enable us to range from small prototypes to high volume production in a multitude of sizes and intricate shapes.

Over the last several years our Technical team has proven its varied ability to execute large Projects conforming to authorities requirements, industry standards based on the design, specification and budgets of clients. Reputed brands like Polychem Middle East, Knightsbridge & Scott bader having strong roots & network across GCC are our prominent Resin suppliers. With their state of the art facilities, their robust team support us 24/7, providing world-class essential services catering to client requirements.





## SAI ROOF SHIELD COMBO ROOFING SYSTEMS

This is a comprehensive multilayer roofing system comprising of waterproofing, thermal insulation and finishing, created and marketed across five countries with forthcoming plans to expand to Canada.

We have developed many variants of this unique energy efficient system to match up to the requirements of Green building regulations, standards, U-values and tolerances from Government bodies. This is acceptable by major property developers, consultants and contractors.

World renowned Raw material manufacturers - supplier names like DOW, BAYER, BASF, and HUNTSMAN support those responsible for fire safety in specifying the best possible solutions for their project. They train and certify our workforce regularly in addition to providing a manufacturer warrantee up to 25 years thereby endorsing the quality of our Combo Roof system.

### Our variants:

▶ Roof Shield Ultra

▶ Roof Shield

▶ Roof Shield Metal

▶ Roof Shield PL

## SUPER ACOUSTICS INSULATION

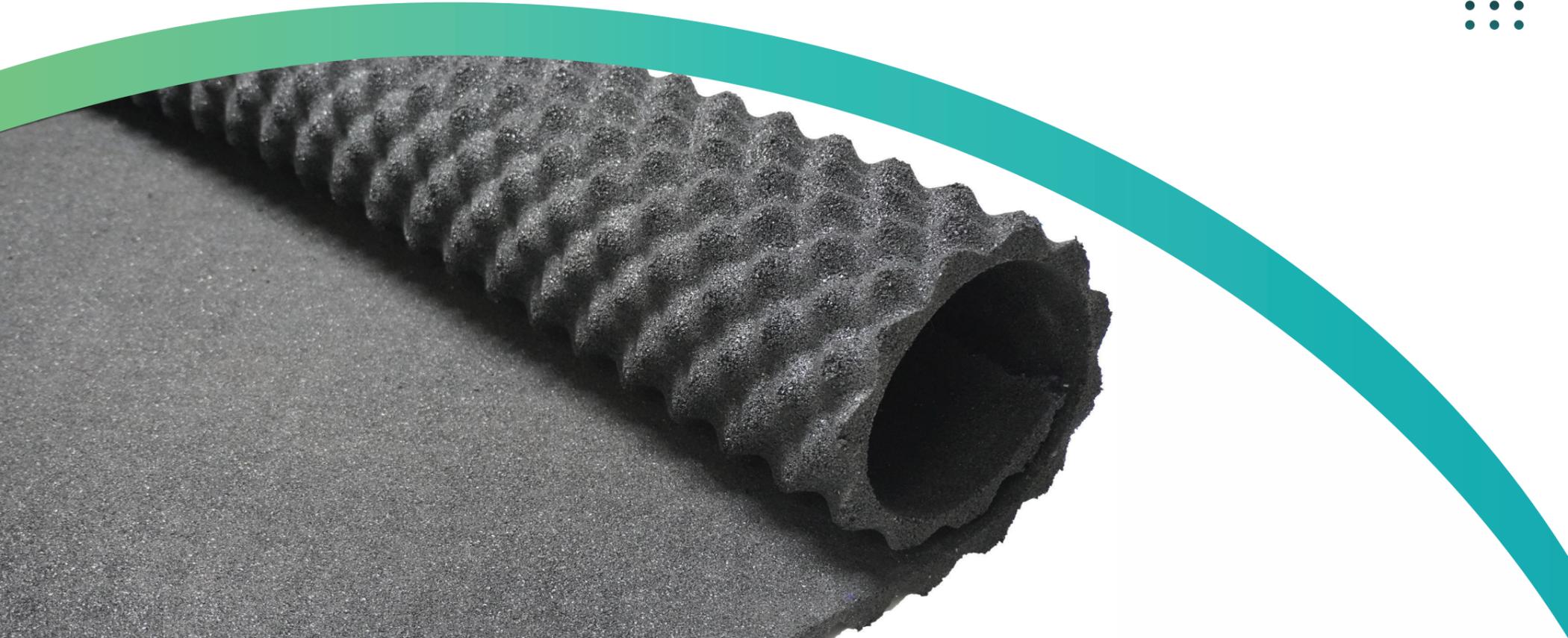
As the RNS brand grew we always have considered environmental impact and social responsibility as a priority in our strategic decision making. The recent feather in our cap the SAI brand of products - made from +90 percent recycled tire rubber, is the Groups eco-friendly initiative offering a responsible solution for quality noise control and sound insulation by recycling and transforming industrial and consumer waste into an extensive range of unique mats, underlayments flooring systems.

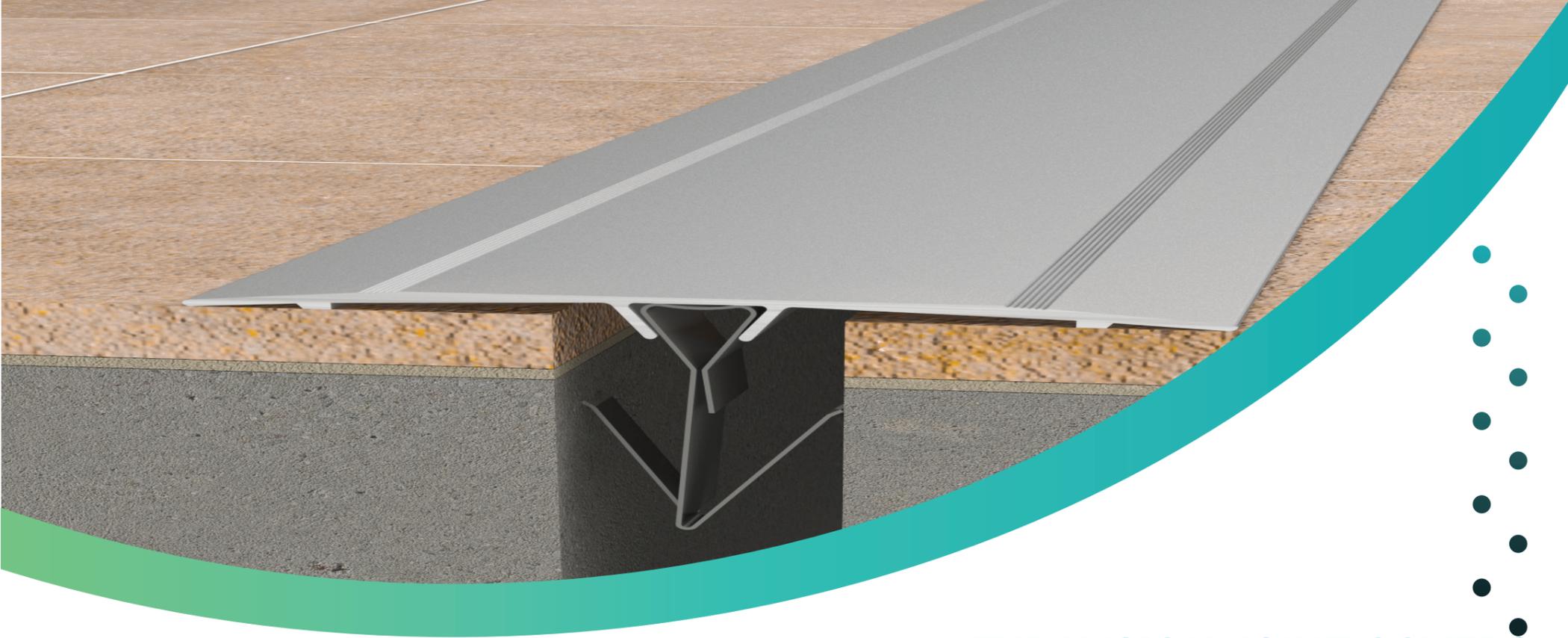
Our manufacturing unit located in AL Ain, UAE is well equipped with most modern technology machinery and precision testing facilities to ensure better efficiency, world class quality of products at very competitive prices and customer gratification. We pride ourselves on fast response time to service requests and going the extra mile in meeting and exceeding consumer expectations.

### Our variants:

▶ SAI floating floor

▶ SAI Underlay





## EXPANSION JOINT COVERS



An Expansion Joint (or Movement Joint, MJ on structural drawings) is a structural gap designed to accommodate the movement of a building in a controlled manner, preventing damage to the internal and external finishes of a building. Expansion joints run right through the structure of the building, from top to bottom and front to back, and often become wider as you go higher up the building. Without an Expansion Joint the building movement will cause damage to the building often making it unsafe. It effectively allows the building to move in a safe and controlled manner without leaving a tripping hazard from the exposed Expansion Joint. An EJC has to cope with 4 main types of building movement and has to move in all directions:

1. Thermal Expansion or Contraction = Movement caused by the structure expanding and contracting with temperature changes, or shrinking as it dries out.
2. Building Settlement = Movement caused by the dead and live loads of the structure on the supporting foundations.
3. Wind Sway = Movement caused by the effect of strong winds on the structure, which is more pronounced on tall buildings
4. Seismic Activity = Multi-directional movement caused by seismic events, can be significant depending on the magnitude of the seismic activity.

## FIRE PROOFING



Fireproofing, a passive fire protection measure, refers to the act of making materials or structures more resistant to fire, or to those materials themselves, or the act of applying such materials. Applying a certification listed fireproofing system to certain structures allows these to have a fire-resistance rating. The term fireproof does not necessarily mean that an item cannot ever burn, it relates to measured performance under specific conditions of testing and evaluation. Fireproofing does not allow treated items to be entirely unaffected by any fire, as conventional materials are not immune to the effects of fire at a sufficient intensity and/or duration.

Passive Fire Protection measures are intended to contain a fire in the fire compartment point of origin and is designed to resist high temperature. This limits the spread of fire for a limited period of time plus ensuring no toxic smoke is released if it does encounter flames; as determined by the local building code and fire code protecting the structure of building providing enough time for people to escape the property in case of fire. Passive fire protection measures, such as steel structures, fire stops, fire walls, and fire doors, are tested to determine the fire resistance rating of the final assembly, usually expressed in terms of hours of fire resistance (e.g. 30 mins, 60 mins, 90 mins, 120 mins). A certification listing provides the limitations of the rating. An Intumescent is a substance that swells as a result of heat exposure, thus increasing in volume and decreasing in density. Intumescent are typically used in passive fire protection. As the name suggests, passive fire protection (PFP) remains silent in your coating system till the eventuality of a fire.



## OUR PROJECTS

AL HAJJ CITY  
MADINAH - KSA



RIYADH METRO  
STATION - KSA



CAPITAL MARKET  
AUTHORITY  
TOWER - KSA



ICC MADINAH  
- KSA



KAFD METRO  
STATION - KSA



MINISTRY OF  
INTERIOR  
JEEDDAH - KSA



## ABOUT US

Rise and Shine group has been built with a strong foundation and vision of our founder Mr. Ravi Subramanyam a decade before in UAE, Sharjah. Since its inception, the group has shown its tremendous growth and spread its wings in five countries - UAE, Qatar, Oman, India & KSA, operating with a group of expertise and dedicated talents, which made us a number one player in Passive Fire Protection Industry in all these five countries.

# WHY? RISE & SHINE

OUR STRENGTH



CERTIFIED FOR



APPROVALS



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