

Quality • Performance









WHERE DO I BEGIN?

- Simple! With a call, Fax or E-mail to **MEI**, our team of professionals in Sales, Marketing, Technical, Engineering, Production and Erection, will help you to develop your building solution.
- **Proposals to Manufacture:** Initial discussions will help us to clarify your requirements for a detailed proposal. Once a proposal has been agreed, a building will be manufactured to meet your specifications.
- **On Site:** Advice on site preparation is part of our customer service. An experienced site team is available to complete your building. Alternatively, site supervisors are available for overseas locations.

For Further information of **MEI** product range, Please contact our Sales and Marketing Department to the address below.

P.O.Box: 14225, Dubai - UAE

Tel: +971-4-8801600 Fax: +971-4-8801700

E-mail: contact@mei-uae.com Website: www.mei-uae.com





COMPANY PROFILE

Middle East Insulation (MEI) was established in the year 1993 in Dubai, UAE and one of the leading manufacturer of cladding systems. MEI work closely with all the customers to produce partnership that builds a successful and profitable business. MEI have a reputation for quality product, using it as a tool for professionalism.

The reliability on a product is of top priority in our business relationship. From a simple warehouse to sophisticated industrial complexes requiring high degrees of thermal insulation, MEI offers quality products with complete design and supply services to meet all the roofing and wall cladding for any size and type of projects.

MIDDLE EAST INSULATION LLC INNOVATION FOCUS QUALITY PERFORMANCE

IN-HOUSE CAPABILITIES

All our efforts towards the customer satisfaction are growing and has no boundaries. MEI offers in-house services such as Sales, Engineering, Designing, Technical, Manufacturing, Installation and Maintenance.

Inspite of stiff competition, MEI manufactured products speak about our credibility and capabilities. It has stood the test of clients in local as well as in the export market.

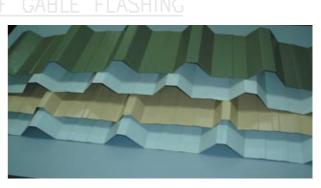
PRODUCT RANGE

1. MEI SINGLE SKIN SHEETS: Available in a variety of thickness, finishes and colors in aluminium or steel profile sheets such as MEI 38/200, MEI 45/150, MEI 32/250 and MEI 45/250. MEI Single Skin Sheets are recommended for the roofing and the walls of industrial, commercial, and agricultural buildings.

PRODUCTS

- 1. CLADDING SYSTEM
- 2. COLD STORE PANEL SYSTEM
- 3. MODULAR BUILDING SYSTEM
- 4. FIXING ACCESSORIES
- 5. STANDING SEAM
 - T CAT SITE DIMENSION!
- 6. STEEL DOORS & FRAMES
- 7. BAAB IND. & GARAGE DOOR
- 8. Z PURLIN & C CHANNEL
- 9. EXPANDED POLYSTYRENE





Unrolled Coils

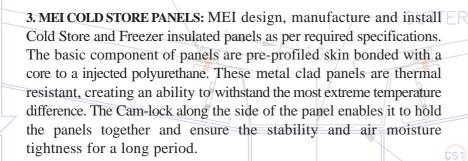
Single Skin Profile

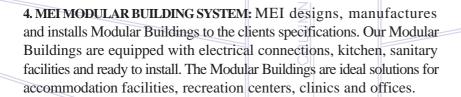


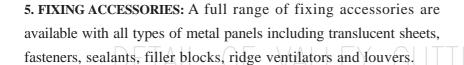
INTRODUCTION

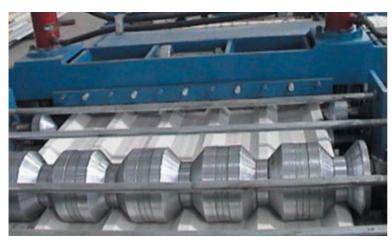
2. MEI INSULATED PANELS: Available in aluminium & steel profile of MEI 38/200, MEI 45/150, MEI 45/250, and 32 /250 and low rib (Slip Joint) panels. These panels are specially designed for buildings requiring high insulation values.

Our factory injected insulation core with polyurethane panels (MEI 38/200, MEI 45/150, MEI 45/250 and MEI 32/250), and SlipJoint gives excellent properties. It's available in unlimited choices of outer inner sheet, thickness, finish and colour.









Coil Rolling Process



Mall of Emirates - Carrefour



Mall of Emirates - VIP Entrance



Internal Insulation Envelope at Snow Centre Dubai



Dome Al Khaleej Sugar - Jebel Ali



Dubal Central Garage



1. CLADDING SYSTEM

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Beverage Factory - Dubai

Panels, known as cladding or metal skins, are used to cover roof and wall framing. The main purpose of the panel is to protect the building interiors from the external environment by providing a secure shell.

MEI manufactures Aluminium and Galvanized steel cladding system, Standing Seam, Z - Purlin and C - channel section in Galvanized steel. MEI panels have an extremely high strength to weight ratio, excellent finish and durability even in most aggressive climatic conditions.



National Cement Factory - Dubai

CLADDING PRODUCTS

1. CLADDING PROFILE: It is available in MEI 38/200,MEI 32/250 MEI 45/150 and MEI 45/250 and standing seam 65/400 type of profiles in a choice of gauges, paint finishes and colours. These profile claddings provide a neat and attractive building appearance. Ideal for use as roof and wall cladding. It can also be curved to give additional design flexibility at the eaves and ridge. MEI cladding offers a broad choice of materials, protective coating and structural strength to optimize design requirements and durability.



Oil field supply centre - Dubai

2. COMPOSITE PANELS: It is available in MEI 38/200, MEI 32/250, MEI 45/150 and MEI 45/250 types of profiles in a choice of gauges, paint finishes and colours. MEI manufactures Composite Panels using factory injected Polyurethane skin of aluminium or steel and inner lining of shallow profiled or reinforced aluminium foil.



Carrefour Sharjah



Al - Ittihad school - Dubai



Al - Ittihad school - Dubai



55 SCREW 6.3XZ5MM



Slip joint panel

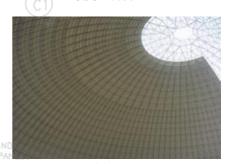


Al Ghurair Edible Oil Factory





OSC - Jebel Ali



Inside - Dome

The major features of MEI composite panels are:

- High standards of thermal insulation.
- Provides durability and long life.
- Light weight and easy installation.
- Saves construction and maintenance cost.
- Full technical and installation support.
- Major saving in energy cost.
- Slip Joint panels with cam lock for extra stability and tightness
- Protective metal surface, flat, hygienic and easy to clean

INSULATIONS

MEI offers Composite Panels made with insulated material called Polyurethane (Fiber Glass/Rockwool insulation can be supplied on

POLYURETHANE: It is one of the best material used to save energy, injected in rigid foam under strict quality control and using high-tech equipments.

MATERIAL: It is available in steel or aluminium sheets and procured from reputable suppliers. The products are available in several grades with regards to strength and qualities. The finishes are available in Mill Finish, Stucco Embossed Polyester, PVF2, or Plastisol Coated in a wide choice of paint system and colours.

FIXING ACCESSORIES: A full range of fixing accessories are available including Translucent sheets, Fasteners, Filler blocks and Sealants.



TANDARD DRAWINGS

Sharjah Sports Centre



Sharjah Sports Centre



MEI SANDWICH RDOF PANELS

2. COLD STORE PANEL SYSTEM





G.I. Insulated Panel



Walk-In Chiller



Cold Store



Cold Store - Project



Cold Storage - Iran

Manufacturing Cold Store and Freezer Panel is the speciality of Middle East Insulation. We are shaping the future of Cold Store Panels with quality assurance tight up to the smallest details. The insulation in these panels are fully protected by the inner and outer skins. Impermeable facings of this nature offers complete protection ensuring the high thermal insulating characteristics are maintained. MEI Cold Store Panels can be seen throughout the region. They are superior, durable and is suitable for the climate we are living in.

PRODUCT SPECIFICATIONS

- MEI slip joint panels are factory made insulated wall/ceiling panels having embossed aluminium or steel facing combined with Polyurethane foam.
- MEI slip joint panels are incorporated in a recessed female panel edge and a roll formed male edge, which creates an interlock joint with insulation to insulation contact.
- MEI panels can be produced with Cam-lock along the side to hold and add extra stability.
- MEI system provides a horizontally sealed joint for better cold store and freezer enclosure.
- MEI panels create an enclosed environment and control the temperature therein.
- MEI panels are designed to meet a wide range of strength, insulation, colour and finish requirements. The flexibility of the system gives the power to architects and consultants to design the most economic and aesthetic solution and at the same time maintain the highest standards of performance.
- The core thickness of MEI insulated components ranges from 50mm to 150mm to match all insulation requirements.
- The structural and thermal characteristics of MEI panels have been used to construct cold stores, cold rooms, fruit storage, refrigerated vehicles and freezer rooms.
- The high standards of MEI panels have permitted their use in construction of the refrigerated buildings, processing plants for food processing companies.

4/94 SEVE 4/8/



3. MODULAR BUILDING SYSTEM

6 3×40 SCREW WITH

Middle East Insulation's Modular Buildings are a light structured, cost effective, easily transportable, rapidly erectable or dismountable even by un-skilled labours. It is a superior solution for all kinds of temporary to permanent buildings, such as: Military units, living quarters, working space, offices or recreation facilities. MEI provides complete services, covers from an agreed design brief to the delivery and erection of your building within budget and on time

MEI Modular Building System is made of insulated panels consisting insulation layer of Polyurethane between two specially coated metal sheets. The wall and floors are hygienic and easy to keep clean in the most difficult conditions.



@750M Villa Interior at Mirdiff

Insulated Porta Cabin

SELF-CONTAINED BUILDINGS

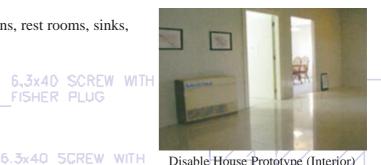
High levels of insulation to roof, wall and floor ensure a comfortable environment to live or work in. The standard specifications can be modified to suit special requirements. A full range of accessories and furnishings are available for complete building solutions.

THE BENEFITS

- Single or two-storey buildings.
- Configured to meet your requirements.
- Factory finished, self contained units.
- Quickly assembled or relocatable even by un-skilled labours.
- On site supervision can be provided.
- Optional fittings, including partitions, kitchens, rest rooms, sinks, air conditioning, windows and doors etc.
- Ready for immediate occupation.
- Modules transported in flat-pack format.
- Building design services are available.



Disable House Prototype



Disable House Prototype (Interior)



Porta Cabin



Emirates Modern Poultry - Dubai



4. FIXING ACCESSORIES



Translucent Sheet



Pointed Flat End Screws



Blind Rivets



Purlin tapes



Packing System for Panels

A full range of fixing accessories are available for all types of panels manufactured by MEI. We choose our suppliers carefully to ensure that they offer both quality and value to the customers. In addition to our standard Fixing Accessories MEI offers a wide range of products that are engineered and designed for special applications.

TRANSLUCENT SHEETS: Also known as Skylights. It is used to utilize day light and save energy, a day light transmitting capacity with these sheets are 70-80%. GRP Translucent Sheets are moulded to roof and wall profile. Particular care is taken to avoid air pockets to increase the life of Translucent sheets.

POINT END SCREWS: Pierce-Point, plated steel fasteners for fast, secure fastening in post frame construction, absolutely superb in its holding power, resulting in fewer roof penetrations. They are available with the maximum sealing power of UV and Ozone resistant sealing washers.

FLAT END SCREWS: It is a highest quality, heavy duty fasteners designed for maximum steel thickness in a typical metal construction, projects fitted with sealing washers to fasten metal sheeting to varying thickness of metal sub framing.

BLIND RIVETS: MEI offers the most widely used Pop Blind rivets which are suitable for most applications. These blind rivets are made of 99.5% pure aluminium material composition to meet international standards. The selected blind rivets should be compatible with the materials being joined and the joined strength will determine the spacing of the blind rivets. The rivets are engineered for a range of material thickness for which it will be effective.

PURLIN TAPES: The Polyester/Cotton cloth laminated to a polyethylene backing with a high track, natural rubber adhesive and is mostly available in silver colour.



Private Project - Dubai



(AT SITE DIMENSION)

BUTYL STRIPS: It is used in roofing, cladding, gutter, joints, side/end laps, joining single skin roof light etc. It is available in the blending of cross-linked butyl and inert fillers extruded into strips or braid to form a roll with paper backing. The application is so easy to achieve best results.

SILICON SEALANTS: One component system that is applied direct from the cartridge. Due to the electrometric qualities of the sealant it has excellent recovery properties and will withstand constant cyclic movement without any adverse effect to the sealant. This can be used as an interior or exterior sealant and is virtually unaffected by rain, snow, extreme temperature changes, and constant ultraviolet exposure. It is designed to withstand under the forces of expansion and contractions.

COLOR CAPS: Are plastic caps are used to fit hexagonal head of screw and cover washers. It provides durability, long life and protection against aggressive climate.

FILLER BLOCKS: Quality foam closures are manufactured from high-density polyethelene foam to ensure no shrinkage. Their charcoal black colour blocks 100% of UV rays. Factory cut to the profile shape results in reduced labour cost and interlocking closure tabs allows quick and easy installation. Roofing and cladding profiles filler block protect against water vapors and dust.

CAM-LOCKS: We Offer Cam-locks mold to our Cold Store Panels which includes Pin (to put the cams on the molds). Locks and Gaskets, to ensure that no polyurethane foam goes into the camlock mold. The polyurethane foam is resistant to thermal conductivity. The Cam-lock along the side of the panel enables it to hold the panels together and ensure the stability for a longer period.





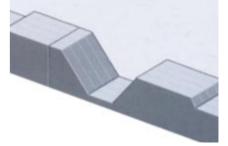
Butyl Strips



Silicon Sealants



Color Caps



Filler Blocks



Cam - Locks

> --C

5. STANDING SEAM

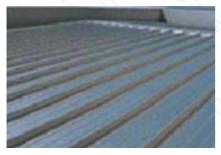




Curved Standing Seam



Arabian Concrete - UAE



Long Sheets - Site Rolled

The standing seam metal roof is one of the most exciting breakthroughs in roofing technology in the last 25 years. It fulfills the need for durable, puncture-resistant protection against the weather, while working in concert with the forces of nature.

The system has potential to capture much larger share of the commercial and residential building market. It assures adequate drainage from rain, pond water problems, leaks and other related troubles commonly associated with roofs.

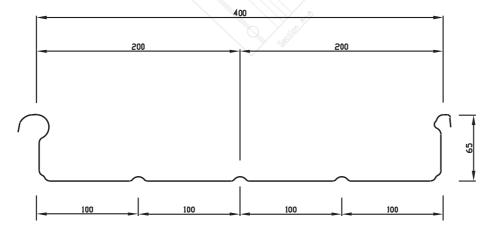
Standing seam roofing will offer long term trouble free performance with little or no maintenance time or expense. The panel fastening system is uniquely designed to handle the potentially damaging effects of thermal movement. Precisely-formed, mechanically profiled metal panels are locked in place by clips inside a raised seam standing two and a half inches above the roof surface. The clips have a moveable feature allowing the panel to expand and contract with temperature changes (Float action). The concealed clip system means fewer through roof fasteners, reducing the chances of leaks.

This type of cladding is quickly becoming the preferred roofing system for a growing number of commercial, industrial and institutional buildings.

Other Advantages:

Design flexibility with a choice of low/flat slopes, good corrosion resistance and environmental friendly as all parts are recyclable.

Material Specifications: The profile material to be for aluminium sheet, 0.7mm minimum thickness, 1.0mm maximum thickness, for steel sheet, 0.5mm minimum thickness, 0.8mm maximum thickness.







6. Z & C PURLIN

MEI Z - purlin and C - section are secondary structural members used to gab between frames. These profiles are made from prehot dipped galvanized steel, G275 coating based on BSEN10147

with minimum guaranteed yield strength 350 N/mm²·

The metal thickness may vary from 1.5mm to 2.5mm.

Sleeves are used to join purlin above frames, where as 6 to 8 mm cleats and 16 mm bolts are usually used to connect this profiles to building frames.



Z - roof purlin on Industrial Shed

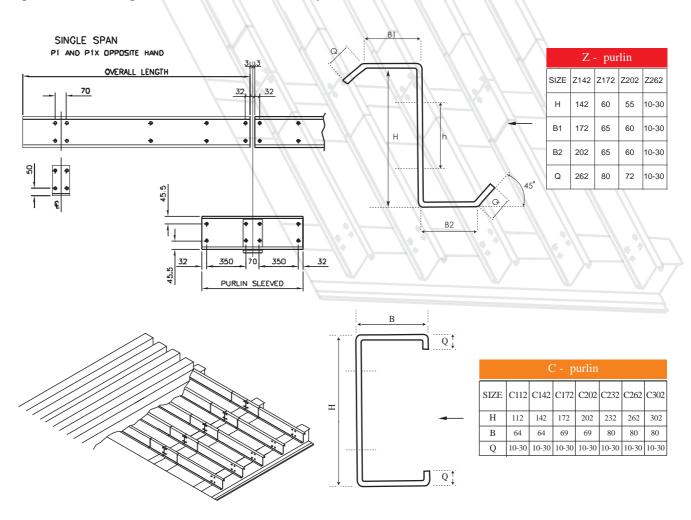
Z & C Section Dimensions and Properties

The section reference of a Z Profile 262mm deep and 2.5mm thick =262 Z 25. The first 3 digits of the section reference indicate the depth of the section in millimeters (ie 262 equals 262mm deep)

The fourth digit is a letter that signifies the profile type (ie Z for Zed Profile). The last two digits indicate the material thickness (ie 25 equals 2.5mm). C profile are identified similarly as above.



C - purlin on Dome Project





7. **BAAB** SECTIONAL OVER HEAD INDUSTRIAL & GARAGE DOOR



A cost-effective solution to meet all the requirements of a sectional overhead door for Garage and Industrial applications, whether it is aluminium or steel, manually or electrically operated, from the right source: Middle East Insulation LLC. Our doors are among the best in the world because we understand your needs.

A door system which is completely tailor-made to meet the correct specifications and requirements of the customer.



BAAB Panel, Profiles & Accessories

BAAB over head door panels, profile and acessories are readily available for sell. We also supply stainless steel accessories. Our spare parts retail department is always in action to cater your needs.

- Aluminium or steel 50mm thick polyurethane insulated panel with standard colours.
- Galvanized angle, horizontal and vertical tracks.
- Galvanized C track and curve profile.
- Oval and rectangular acrylic windows.
- Top and bottom aluminium profile.
- Top and bottom seals.



Garage Door

Advantages:

- Quick Delivery
- Quality & Reliability
- Guaranteed Spare
- Perfect Installations
- After-sale service
- German Hi Tech operators
- European Advanced Hardwares





Assembled Track







Safe Durable Ouite Economical

BAAB Service: MEI also undertake yearly maintenance service contracts with convenient maintenance schemes to meet the requirements of our valued customers.

Features and Benefits

- Injected polyurethane insulated panels monolithically protected by steel or aluminium facing for better • Heavy duty galvanized steel hardware to suit any site conditions. Industrial door solution
- Rollers with high quality ball bearing, galvanized steel hinges for smooth operation.
- Provided handle, foot plate and chain hoist for easy manual operation.
- Quick and easy exchange of damaged panel helps to reduce service cost.
- Glazed option for better interior lighting and improved aesthetics.

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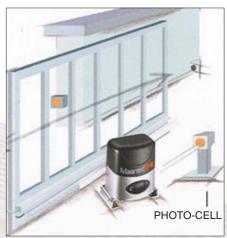
Operators - German make



Swing Gate Operator

AS STRONG
AS NECESSARY,
AS GENTLE
AS POSSIBLE





Sliding Gate

Road Barrier



Garage Operators

- Advanced technology with all safety features.
- More silence, more comfort, more speed.
- Reliable in case of emergency.
- Soft start and soft stop facilities.
- Remote control and push button operations.
- Optimised lighting functions.

Options

- Oval or rectangular windows.
- Security lock.
- Chain hoist.

Industrial Operators

- Designed for easy installation.
- Security and reliability.
- Emergency Hand chain for manual operation.
- Electronic travel cut-out.
- Equipped with Photo-cell or Opto-sensor safety devise.

High Speed Door

- Designed for inside and outside environment.
- Specific requirements of each industry.
- Crash resistant without damage.
- Automatically repairable.
- Resistant to high winds.
 - Able to provide excellent Sealing.

The complete sectional over head G

WE ALSO OFFER ROLLING SHUTTER, AIRCRAFT HANGAR AND STACKING DOORS IN DIFFERENT SIZES

SERVICE: 050 - 5518356 / 04 - 880 1600











FOR'

STEEL DOORS & FRAMES

Steel door and frame products have earned an enviable reputation with architects engineers, and construction trade professional around the world. It provides a wealth of benefits uncommon in competing products. When specifying door and frame systems for your next project, consider the many demonstrated benefits of steel products.

Steel products are rugged, long lasting and offer great endurance through time. They resist environmental stress like heat and humidity that adversely impact other door and frame products. Steel products are easy to maintain and ensure virtually trouble free operation for many years. Steel door and frame products are also an ideal solution to any degree of security.

To meet the varied needs of the construction industry, Middle East Insulation manufactures a wide range of steel door and frames for interior and exterior use. FORT® doors are the most reliable door manufactured, by using only the highest quality materials and manufacturing techniques. **FORT**[®] doors are produced in many sizes, gauges and design to meet the needs of architects, owner and contractors.

Middle East Insulation has vast experience, knowledge of the product, state of the art CNC machines, has made the timely delivery of finest quality material possible.

LPCB and BRE Certification

For the manufacturing of **FORT**[®] fire rated steel doors and frames, Middle East Insulation are in full compliance with the Loss Prevention Standard (LPS) issued by the Loss Prevention Certification Board

This compliance includes satisfactory evaluation for fire testing under: B.S. 476: Part 22: 1987 and a Cyclic Test to LPS 1056: Issue 5: 1996. The testing and certification body is BRE (Building Research Establishment) Bucknalls Lane, Garston Watford WD259xx, U.K. www.bre.co.uk

To meet the strict production requirements, our manufacturing unit is producing under ISO 9001-2000 quality control system.

These certificates and approvals demonstrate our ongoing continued commitment to provide quality products and service to our customer.



Application of **FORT®** Doors and Frames.

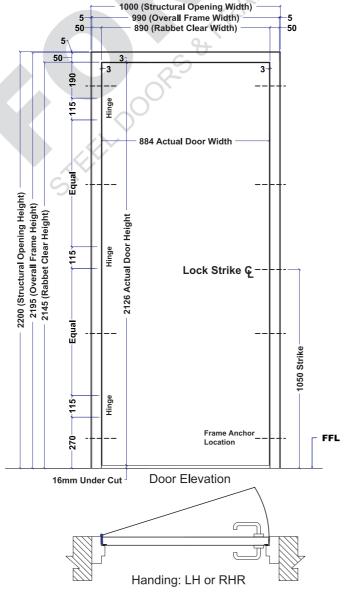
The applications in which **FORT**® door and frame products are appropriate is virtually limitless. From apartment buildings, hotels, schools, courthouse, office buildings, dormitories, military barracks, detention centers, prisons, retail stores, warehouses, hospitals, industrial buildings, airports, convention centers and many more. Steel products have met and exceed expectations for decades.



The construction of **FORT**® doors and frames affords architects a degree of design freedom in non-typical situations, where a standard size or profiled product is inappropriate. With the proprietary steel construction techniques and capabilities of Middle East Insulation, our design professionals have the opportunity to innovate and create virtually any solution and do so within a reasonable budget.



Dimensions for Standard size single door.



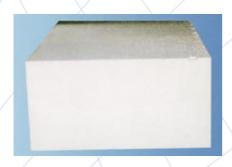






9. EXPANDED POLYSTYRENE











Expanded Polystyrene (EPS) is an excellent insulating material that has secured a firm position in the insulation sector. This rigid foam is used for up-to-date energy saving and economical construction. Buildings are characterized substantially by requirements for energy saving, noise and environmental protection. Virtually all industrialized

countries today have statutory minimum requirements for thermal insulation. This is due to the fact that energy lost in summer for air conditioning is a significant factor and comparable to the energy used for heating in winter for cold countries. EPS insulation gives the owner of a building (renovated or under construction) considerable cost/benefit advantages with reduced risk of technical errors in the execution of work.

Application: There are unlimited application in which EPS is being perfectly utilized. Construction industry has benefited much for EPS because of its excellent insulation characteristic and strength to weight ratio.

It is used for roof panel, wall panel, floor insulation, precast slabs, portacabins, modular building system, cold storage etc.

BENEFITS

EPS excellent properties have made it one of the top material used in wide scope of application. Among these are:

- Extremely low density combined with good load resistance.
- Easy and simple to handle and use.
- Excellent thermal insulation.
- Good impact and sound insulation.
- Durable and reliable.
- Resistant to water, moisture, and humidity.
- Unaffected by Alkalis and most Acids.
- Hinder harmful micro-organism from growing.
- Environmentally safe, CFC free and Recyclable.
- Have no deleterious effects on Human health.
- Comes with flame retarding agent.
- Economical construction.
- Energy saving.
- Reducing the capacity of heating and cooling required.

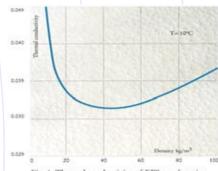


Fig. 1: Thermal conductivity of EPS as a function of bulk density at a mean temperature of 10° C.

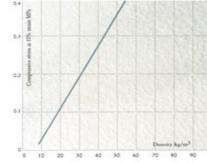


Fig. 2: Stress for compression of 10%, vs density





We have supplied our products not only in the UAE projects, but also exported to GCC, Asian and African countries such as Kingdom of Saudi Arabia, Qatar, Kuwait, Bahrain and other countries like Oman, Yemen, Iran, Iraq, Afghanisthan, Azerbaijan, Georgia, India, Egypt, Sudan, Tanzania, Keneya, Angola, Armania....

We have successfully executed several turn-key projects with UAE Defence, Civil Aviations, UAE Govt. projects. Some of our prestigious projects are highlighted below:

- Carrefour at Sharjah.
- The Mall of the Emirates at Dubai.
- Snow Centre at Dubai.
- Lulu Island at Abu Dhabi Defense.
- Low cost villas at Hatta, Al Ain and Abu Dhabi.
- Cement Factory Dome at Al Qouz.
- Al Khaleej Sugar Dome at JAFZA.
- Sharjah sports centre for disabled.
- Arabian Packaging Factory at Jebel Ali.
- Emmar Properties-The Greens
- Dubai 2000 International Aerospace Exhibition.
- Defence Projects all over UAE.
- DUBAL.
- Engineer's Office
- Al Habtoor Engineering.
- Khan Saheb Civil Engineering.
- Al Nabooda Laing O'rourke.

List of some of our prestigious projects for **BABB** Doors

- Defence projects all over UAE
- Real Estate Department Dubai
- Public Work Department Abu Dhabi
- ADWEA Project
- Engineer's Office (EO) Dubai
- Emirates Hills Dubai

List of some of our prestigious projects for **FORT**® **Doors**

- ADWEA. Training centre-Abu Dhabi
- Up Town Mirdif Development-Dubai
- Sharjah Govt. Sport Hall-Sharjah
- Light Industry Units at International Air Port FreeZone-Dubai
- Azwar Tower at Dubai Marina-Dubai
- Al Ain Health Centre-Al Ain.

*Standard colours are subject to availability and specifications can be changed without prior notice.

MEI reserves the right to change the information in the MEI catalogues / brouchers without prior notice.



Complicated Jobs

Precision

Quality





الشـرق الأوسـط للعــوازل دم.م. Middle East Insulation LLC Quality Cladding Systems

