



# BUILDING MATERIALS

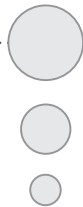




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Most Diversified  
Building Materials Manufacturer  
in the Middle East

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## The Difference is...

### INTUITION

sensing, understanding and anticipating the needs of our customers, markets, people and environment is what makes the difference.

### INNOVATION

Combining Information with our knowledge of science and technology is what makes the difference. Our team of engineers, scientists, designers and architects work around the clock creating new products that can change our world.

### AGILITY

Diversified technologies, resources and our ability to adapt with creativity and speed is what makes the difference. An enormous wealth of intellectual and physical capabilities makes Harwal a unique source for diverse processes and products.



*“Our aim has always been to provide innovative and high quality products and services that meet our customer’s needs. We are sensitive to our most valued resources, our people, and to the environment while maintaining our fundamental values and achieving long term success.”*

*Harout Ohanesian  
Chairman & C.E.O.*

Combining innovation and excellence, Harwal Group is the largest plastics converter in the Middle East. The Group converts over 200,000 metric tons of plastic and 100,000 tons of metals every year delivered through its ISO 9001 certified companies. As an award winning organization, Harwal Group combines its technical capability with evolving market trends to bring superior products and services to its valued customers.

Harwal Group has 28 business units with manufacturing and sales facilities across the globe. Business segments include Building Materials, Building Systems, Electrical Cable Management systems, Switches & Sockets, Pipeline Systems, Prefab Buildings, Doors & Windows, Refrigerated Transport and Storage, Industrial Warehouses and Storage, Refrigerators, Plastic Consumer Products, Packaging Materials, and Furniture.



The manufacturing conglomerate operates business within 65 countries across the Middle East, Africa, Europe and USA. Providing unrivalled manufacturing capabilities and services across the globe, Harwal Group runs its impressive operations through four main companies - TSSC, Interplast, Cosmoplast and Intermetal.

Founded in 1938, Harwal Group currently operates from its headquarters in the UAE. Harwal's strategy and business model is built around the principles of innovation, quality and sustainability. As an organization, the Group takes pride in its work, the success of its customers and the results they achieve together. Its continued growth and success over the last eight decades can be attributed to an ability to adapt and evolve, enabling it to become the leader in its industries.





## Interplast Co. Ltd.

UAE | KSA | France | UK | Russia | Qatar

PLASTIC COMPOUNDS  
ELECTRICAL PRODUCTS  
PACKAGING MATERIALS  
HOME IMPROVEMENT PRODUCTS  
ALUMINUM COMPOSITE PANELS  
uPVC DOOR & WINDOW PROFILES  
FLEXIBLE PACKAGING  
LUXURY & PLASTIC SHOPPING BAGS  
INDUSTRIAL FILMS & BAGS  
INDUSTRIAL THERMOFORMED PRODUCTS  
PLASTICS RECYCLING  
VINYL FENCES  
SHEDS, SHELTERS, GARAGES & CABANAS



UAE | KSA | Oman | Russia | Qatar

INFRASTRUCTURE PIPELINE SYSTEMS  
MOLDED ITEMS  
OUTDOOR PRODUCTS  
DISPOSABLE PRODUCTS  
PLUMBING SYSTEMS  
INSULATED CONTAINERS  
KEEP COLD ICEBOXES & WATER COOLERS  
COMMERCIAL THERMOFORMED PRODUCTS  
DISPOSABLE PRODUCTS  
WASTE CONTAINERS  
PLASTIC MOLDED FURNITURE  
GARDEN PRODUCTS  
TRAVEL & LUGGAGE PRODUCTS  
PLASTIC PALLETS  
PLASTIC CRATES  
LUXURY & PLASTIC SHOPPING BAGS



## Technical Supplies & Services Co.L.L.C.

UAE | KSA | QATAR

ROOF & WALL CLADDING	GALVANIZING SERVICE
INSULATED COMPOSITE PANELS	INDUSTRIAL STORAGE RACKING SYSTEMS
CURTAIN WALLS	COMMERCIAL REFRIGERATORS
STANDING SEAM ROOFING SYSTEM	COLD ROLLED STEEL STRUCTURES
ALUMINIUM & uPVC DOORS & WINDOWS	EASYWALL
COLD STORES	PREINSULATED DUCT PANELS
REFRIGERATED TRUCK BODIES	CONVERTED CONTAINER UNITS
PORTABLE CABINS	ENGINEERED REFRIGERATION SYSTEMS
TELECOM SHELTERS	CHILLERS & FREEZERS
STAINLESS KITCHEN & LAUNDRY EQUIPMENT	PRE-ENGINEERED BUILDINGS
RESIDENTIAL METAL STORAGE SHEDS	PRE-FABRICATED & FACTORY MANUFACTURED BUILDINGS



UAE

HOTEL FURNITURE  
HOSPITALITY FURNITURE  
OUTDOOR FURNITURE  
EDUCATIONAL FURNITURE  
RESTAURANT FURNITURE  
OFFICE FURNITURE  
COIL COATING  
HOTEL ROOMS  
INTERIOR DOORS



US Polymers Inc.

USA

PIPES & PROFILES  
STORAGE SHEDS  
WINDOW SHUTTERS  
VINYL FENCES  
VINYL & COMPOSITE DECKING & CLADDING  
VINYL PATIO COVERS  
WINDOW SHUTTERS



Emirates Recycling L.L.C

UAE

ALUMINIUM RECYCLING  
ALUMINIUM INGOTS & SOWS



Harwal Containers Manufacturing

UAE

PET PREFORMS  
PLASTIC BOTTLES



Interpolymer

UAE

PLASTICS RECYCLING



KSA

MOLDED ITEMS  
THERMOFORMED PRODUCTS









## Building Materials

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## Profiled Cladding Sheets

Profiled cladding sheets are corrugated metal sheets manufactured by TSSC which are extensively used in the construction industry.

These profiled sheets offer architects and designers a range of choices for roof and wall cladding such as internal linings and external cladding for industrial and commercial buildings.

The panels are manufactured to the exact measurements to fit perfectly and are mounted without mastic (dry joints) assuring short, cost-saving construction time. Designed to tolerate high static characteristics with reduced weight, minimum labour requirement and rapid execution, these cladding sheets guarantee the optimization of the structure's realization costs while providing safe working platforms.



## Advantages

- Inexpensive
- Available in an array of colors and aesthetically pleasing finish
- Minimum labour required for execution
- Easy to dismantle for building transformations
- Modifications and extensions can be done easily
- Manufactured to site measurements thus eliminating wastage and installation complications

# Insulated Composite Panels

TSSC is the largest manufacturer of Insulated composite panels for roofing and cladding in the Middle East. The pre-insulated monolithic composite panels offer an excellent acoustic and thermal insulation for building roofs and walls and is used in various kinds of industrial and civil structures. The differentiated sections of corrugations offer structural characteristics to the building giving the ability to bear the unforeseen overloads in various deployment conditions.

The unique sandwich construction of the composite panel is a result of injection of polyurethane foam at high density between two rigid facings. Combinations of a wide choice of best quality facing materials offer the customers a choice of sandwich panels to choose from. Some of the facings provided include

- Plain and corrugated finish
- Pre-painted and mill finish in Aluminium, Aluzinc and galvanized steel

## Advantages

- High quality cladding systems are compliant with the most stringent life expectancy, and structural demands.
- Offer excellent acoustic performance, fire resistance and thermal insulation.
- Differentiated sections of corrugations offer structural characteristics to the building



## Applications

- Ceiling and Wall panels
- Internal Linings
- Fascias and Barge Doors
- Decorative finishes for buildings
- Weatherproof layer for the roof





Technical Supplies & Services Co. L.L.C.

# BUILDING MATERIALS

## Aluminium & uPVC Doors & Windows

The Aluminium & Glazing division of TSSC supplies aluminium and PVC facades, doors and windows to both commercial and residential construction markets. An extensive range of products include shopfronts, curtain walls (from low rise to high rise), doors (sliding and hinged), glazing residential windows and doors and secondary glazing.

Equipped with advanced machinery, tasks such as crimping, cutting, bench drilling and assembling are performed in our advanced production facility. Manual, automatic and security door systems are available in a wide array of finishes and designs. Both sliding and revolving systems can be provided based on customer requirements.



# Curtain Wall

TSSC offers a unique glass cladding solution using unitized glass. Thermally broken and compartmentally drained, our glass system is designed for projects seeking highest international standards. In order to provide high performance solutions for new and refurbished buildings, our curtain walls are sealed internally and externally with frame gaskets and factory injection moulded vulcanised corner joints. They are able to handle all loads (dead load, wind load, seismic load, thermal load, blast load etc.) imposed on them as well as keep air and water from penetrating the building envelope. The curtain walls are designed to accommodate double glazing options and can withstand calculated design wind pressure for various locations.



## Advantages

- Lower field installation costs
- Allows flexibility in design
- Provides an aesthetic sense to the building
- Weather resistant





## Standing Seam Roofing System

The Harwal BASECO Standing Seam is a structural architectural roofing panel that is mechanically field seamed for increased weather durability and a greater resistance to wind uplift.

The Standing Seam Roof System is structurally designed to perform in various conditions. It saves time, cost and protects the building. Additional benefits include low energy usage and flexibility in design.



A wide spectrum of accessory features such as Glass Reinforced Concrete (GRC), Glass Reinforced Plastic (GRP), Aluminum Composite Panels (ACP), Solar Panels, Walkways, Handrails, and others can be installed on the top of the standing seam .

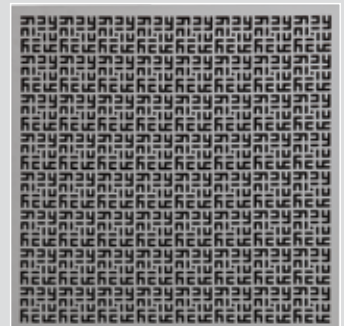
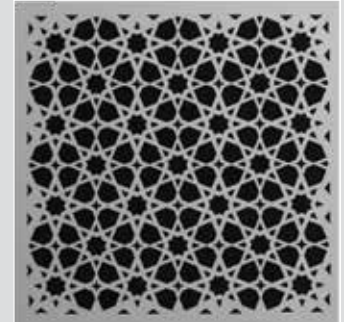
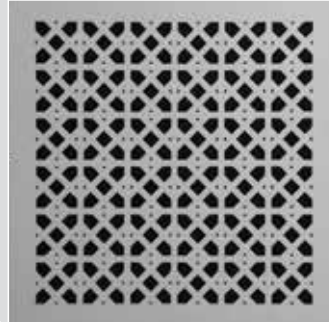
With its essential shape, aesthetic appearance, constructive economies and outstanding technical properties, Harwal Baseco Standing Seam Roofing System is the perfect balance between technology and appearance.



# Ceiling & Partitioning Systems

Harwal Group is a leading building materials supplier, providing all types of suspended ceilings and partition systems. A wide range of false ceiling systems, custom made suspended ceiling systems and dry wall partitions are available to meet today's architectural and design requirements.

- Flexibility in installing and dismantling.
- Hook on / Lay on systems allow heavy loading.
- Product range is aesthetically pleasing and is available in an array of designs.
- Gypsum panels backed with aluminum foil provide insulation against high humidity and extreme high temperatures.
- Metal ceiling tiles with a range of perforation patterns allow functional performance requirements for individual applications.





## Cold Rolled Steel Structures

Operating on a model built around the principles of innovation, excellence and sustainability, TSSC, a Harwal Group Company, has been acknowledged as an industry leader in the manufacturing sector and is a leading provider of Pre-Engineered Cold Rolled Steel (CRS) structure systems. TSSC is commissioned to deliver large scale warehouses, workforce housing buildings, residential developments, accommodation building camps, & poultry shed projects – which can be constructed with accuracy, speed, cost effectiveness & efficiency.

TSSC specializes in pre-engineered structure system where building elements are produced from accurate, bolt assembly, galvanized COLD ROLLED STEEL frame structures using cutting edge software and manufacturing processes.



The cold rolled structures from TSSC offer the following advantages:

- Cost - 100% Pre-fabricated at the factory, which means no extra labor costs or wastage of materials.
- Speed - It is lighter than hot rolled steel and allows shorter erection time compared.
- Green Product- Steel is 100% recyclable and is considered a green building material.
- Customizable - Bolted connections means the building can be disassembled and reassembled again.



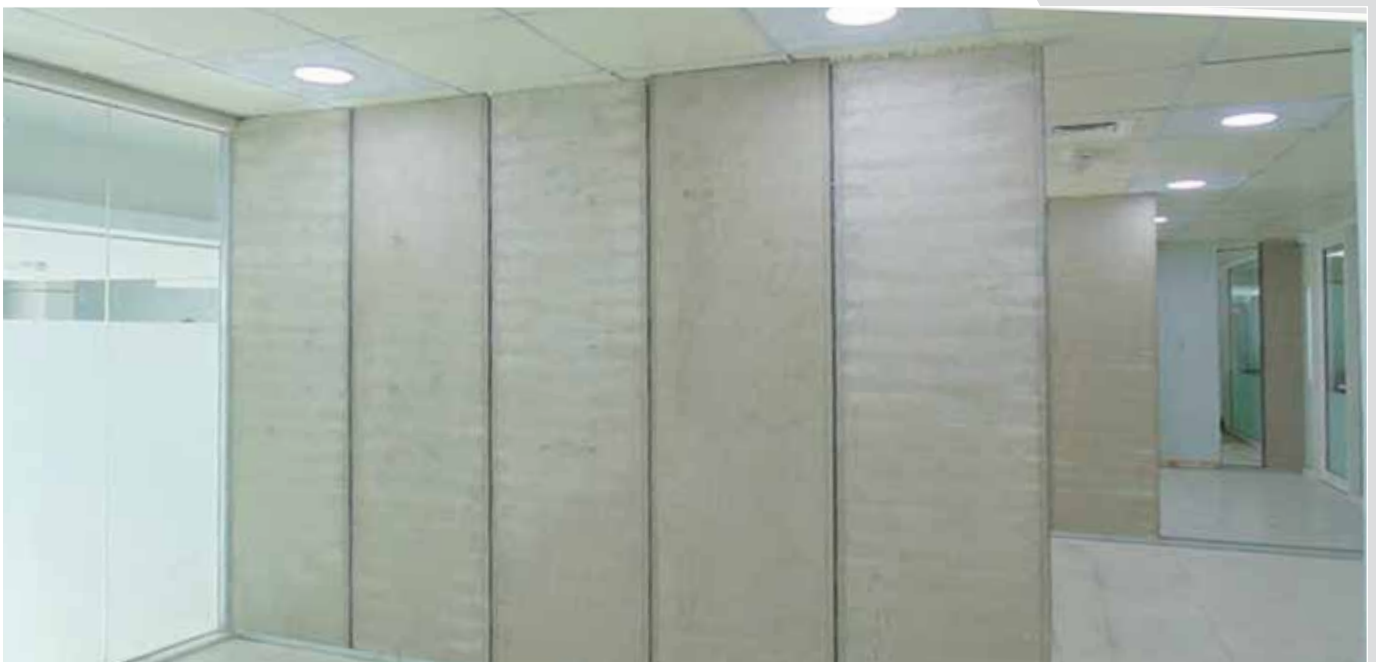


# EASYWALL Lightweight Panels

The EASYWALL partition system is designed to replace block work in non-load bearing the internal walls. Easywall systems to suit all fire rated and acoustic applications. Standard wall thicknesses of 75mm, 100mm, 150mm, 200mm, 250mm and 300mm are available from stock. These include cavity wall systems for high acoustics and ease of MEP installations.

The EASYWALL system offers the following advantages:

- Easy to assemble.
- Fire Resistant and Blast Proof.
- Economical.
- Available in a range of colors and attractive finishes.
- Corrosion Resistant and low maintenance.
- Offers acoustic solutions.
- Resistant to wind loads.
- Easy to dismantle for use in modular construction.



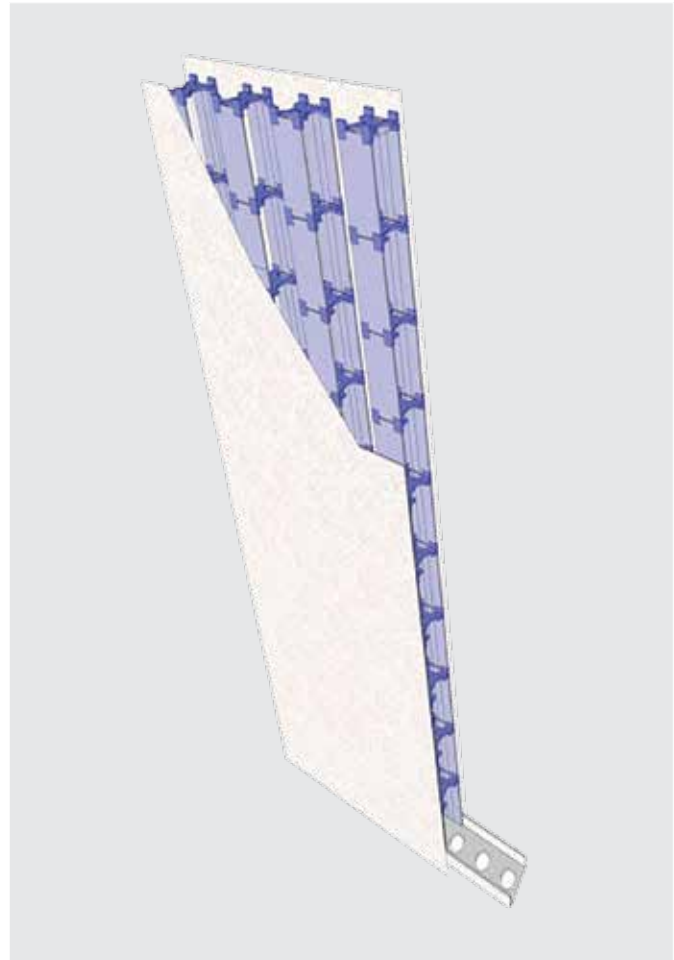


## EASYWALL Load Bearing Panels

The EASYWALL load bearing panels replaces all concrete columns and beams in a structure and provides easy access for MEP installations. Its fibre cement facings are ready for painting or rendering. The load bearing panels can be used for villa construction and multi-level apartment, hotel and commercial buildings. The system also provides the perfect solution for retaining walls and blast rated protection walls.

The EASYWALL - Load Bearing Panels offers the following advantages :

- Design versatility
- Excellent thermal insulation
- Structural durability
- Fast and accurate construction
- Sustainable design to reduce waste
- Easy handling



# Porta Cabins

TSSC is the industry leader in the design and manufacture of composite sandwich cladding PortaCabins, used extensively for labor accommodation, office units, security cabins, kitchen and dining facilities, clinics, storage rooms and a host of other utility requirements. All units are factory assembled and delivered to site with electrical, sanitary, plumbing, pantry and office furniture already installed. Simply connect the power outlets to a main source and they are ready to use.

TSSC PortaCabin units can be relocated multiple times using cranes or heavy duty forklifts. They are the best solution for rugged and remote sites which are exposed to harsh weather conditions.





## Specialized Shelters

TSSC is renowned for manufacturing shelters which conform to international standards. These can be custom-built to the client's specific requirements for the following applications:

- GSM telecom shelters.
- Radar and radio equipment shelters.
- Ambient air quality monitoring shelters.
- Airport shelters.
- Transformer & switchgear sub-station enclosures.
- Mobile abattoir units.
- Cell on Wheels (COW) units.
- Rapid Deployment Units (RDU).

In addition, explosion-proof shelters used in hazardous areas of Zone 1 & 2 for the oil and gas industry can be supplied with complete fit-outs of electrical fixtures ,air conditioning system (split or package), fire detection alarm and Roxtec cable entries.



# Preinsulated Duct Panels

Preinsulated duct (PID) panels is an exciting addition to our family of insulated panels. It is an innovative technology for HVAC ductwork system and the panels are suitable for the construction of air distribution ducts in air-conditioning and heating systems.

These panels feature a unique sandwich construction that is the result of injecting PUR (Polyurethane) or PIR (Polyisocyanurate) as the core material laminated with aluminum facing on both sides.

Features include

- Low Thermal Conductivity.
- Water repellent.
- Excellent thermal insulation.
- Foam CFC Free.
- Negligible smoke obscuration.
- Prevents growth of bacteria and fungi.
- Higher Compressive Strength.
- Ideal for HVAC ductwork in new buildings and refurbishment.
- Lightweight compared to conventional ducts.
- Less labour and material reduce fabrication & installation cost.





Technical Supplies & Services Co.L.L.C.

# BUILDING SYSTEMS

## Pre-Fabricated & Factory Manufactured Buildings

As a pioneer in the manufacture of polyurethane injected/laminated insulated panels, one of the specialties is designing and manufacturing pre-fabricated buildings. These structures utilize fully insulated roofs, walls, partitions and door panels. The buildings therefore provide exceptional thermal insulation, which results in low electricity and maintenance costs. Pre-fabricated buildings are also supplied using LGS (Light Gauge Steel).

Pre-fabricated buildings can be used for various applications including exclusive executive accommodations, general office stations, majlis, dining and kitchen units, and worker housing.

Some of the key features are:

- Energy efficient.
- Light weight and durable steel framed construction.
- Quick erection time compared to conventional buildings.
- Suitable for all climatic conditions.
- Aesthetic appearance.
- Termite resistant.



# Converted Container Units

TSSC's converted container units are suitable for many applications, including temporary accommodations, site offices and military camps. TSSC manufactures and supplies a wide variety of units using in-house engineers and designers who specialize in purpose-built products to suit clients' individual and specific requirements.

More specialized explosion-proof and fire rated units can be supplied to hazardous areas in the oil and gas sector. These specialized units are DNV and CSC certified.



TSSC-converted ISO shipping containers offer ideal building solutions when operating in harsh environments. These container units are perfect for alternative uses, principally for mobility, housing, enclosing equipment and as a secure work environment. Converted containers can be of standard design or customized to meet the client's specifications.

Containers' internal areas can be rockwool, polyurethane or polyisocyanurate sandwich panels, with a choice of various metal skin specification finishes.



## ALUPEX<sup>®</sup> A2 NON-COMBUSTIBLE COMPOSITE PANEL

With the objective to offer quality products for the modern building architecture the latest addition is ALUPEX A2 Non-Combustible Composite cladding. ALUPEX A2 is developed in technical collaboration with US Polymers Inc. and is manufactured in the UAE.

It is a non-combustible composite panel with the highest fire protection suitable for all types of cladding of building surfaces.

ALUPEX A2 is a unique and versatile cladding material used in enhancing performance and aesthetics of modern building architecture. With the state-of-the-art technology of multi-layer extrusion lamination, two skins of non-corrosive special grade aluminum sheets are bonded on to a non combustible mineral core. The external surface of the panels is available in various finishes and colors, coated with high performance PVDF paints to maintain consistent decorative finish of the building surface over an extended period of time, even in the harsh Gulf weather conditions.



Alupex A2 offers the highest grade of fire protection with a superior strength-to-weight ratio and is manufactured with corrosion resistant system to provide durability. It generates a pseudo-insulation and barrier to reduce heat and sound transmission losses.

## Applications

- External Wall Cladding Fascia and Facades.
- Curtain Walls and Internal Finishes.
- Rooftop Edges, Parapet Walls and Wall Canopies.
- Stairways and Elevators.
- Balconies and Patio Wall Claddings.
- Partition and Ceiling Panels.
- Spandrels, Column Covers and Beam Wraps.



## uPVC Door & Window Profiles

Our uPVC doors and windows profiles perfectly combine all features of an aesthetic, economic, durable, secure and modern solution. With a co-extruded UV protection layer specially suited to the harsh weather conditions of the Gulf region, our uPVC doors and window profiles provide additional thermal protection.



Laminated Decorative PVC Profiles





## Vinyl Fences

Using state-of-art coextrusion technology, vinyl fencing has been specially designed to meet the demanding weather conditions of the Gulf region. The fences do not use nails that rust or brackets that crack. A route-and-lock construction ensures that all parts are interlocked and will never pull apart. A wide range of fences such as picket fences, privacy fences, perimeter fences and pool fences are available with aesthetic caps to compliment them.



## Sheds, Shelters, Garages

Manufactured from fire retardant durable PVC our Vinyl Storage sheds and garages provide safe and secure storage for the vehicle, home, business or vacation property. The assembly is simple, clean, safe, and can be completed in a few short hours. Similarly our cabanas are manufactured with thermal insulated panels to offer thermal insulated stores and accommodations.

### Applications

- Military sheds
- Garden sheds
- Car shelters
- Green House Sheds

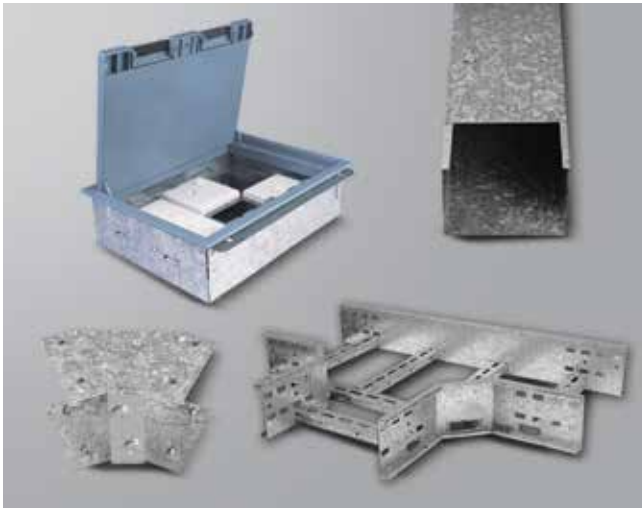
### Advantages

- Durable, all-weather property eliminates painting or treating
- Noncorrosive unlike metal garages
- Fire Retardant
- Easy to install
- Reinforced with metal inserted columns for greater rigidity and strength
- Available in varied sizes



## **DECODUCT**<sup>®</sup> CABLE MANAGEMENT SYSTEMS

DECODUCT Cable Management System include conduits, trunkings, accessories, industrial cable management system in PVC and metal and are manufactured to meet the Gulf Specifications as well as International standards. Decoduct Cable Management System has won the diamond mark certificate from ASTA BEAB of the UK confirming their compliance with the relevant BSEN standards. ASTA BEAB is the reputable and relevant UK certification body for electrical products.

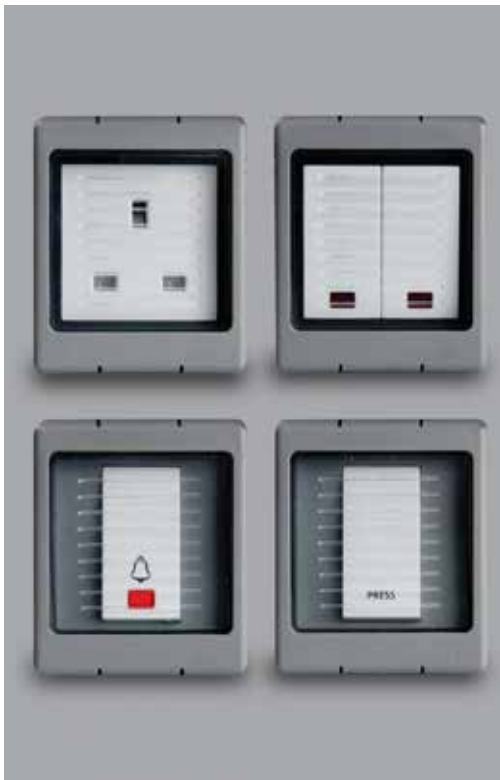


DECODUCT LSF cable management systems meet all the mechanical and physical properties of rigid CMS and in any event of fire, the emission of the smoke and fume are within safety levels and much lower than normal rigid CMS.



# EDISON<sup>®</sup> ELECTRICAL ACCESSORIES

The Electrical Division of Interplast manufactures wide range of electric switches and sockets under the brand name EDISON and are marketed under the ranges as "Dura finish", "Elite", "Euro" & "Metal Clad".

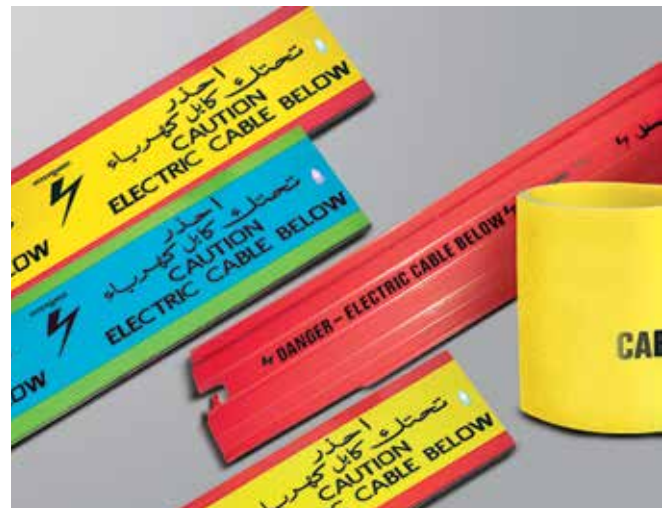




As a substitute to concrete cable cover tiles, Interplast manufactures protection tapes which are particularly suitable as protective and warning markers and which are lightweight for easy transportation, handling, storage and installation.



INTERGARD range includes PVC, HDPE and LDPE cable covers , boards and tapes for warning and protection of all kinds of cable distribution system.



## Low Voltage Power Distribution Components



Electrical distribution needs are continuously evolving in residential, commercial and industrial sectors. Improved operational safety, continuity of service and greater convenience have assumed a tremendous significance.

Interplast Electrical Division offers an range of Low Voltage Distribution Components such as Miniature Circuit breakers, Consumer Units, Distribution Boards, Enclosed Isolating Switches and Manual Transfer Switches.

## uPVC Drainage Pipes & Fittings

With a wide range of uPVC drainage pipes and fittings covering a size range from 36mm up to 1000mm, we offer complete solution for our customers' piping needs. Our range of uPVC systems offers comprehensive solution required to complete any domestic or industrial drainage system. Cosmoplast drainage pipes and fittings are manufactured with both solvent welding sockets and rubber ring (push fit) sockets, which satisfies the various requirements of projects, designers and installers.



All our uPVC drainage pipes and fittings are manufactured and tested in accordance with the new British standards and awarded the BS Quality Kite Mark.





# PVC-U High Pressure Pipes & Fittings

uPVC high pressure pipes and fittings satisfy the increasing demand for American and European standard pipes and fittings for plumbing applications that demand high operating pressure, high levels of toughness, chemical and thermal resistance along with cost effective installations.

PVC-U high pressure pipes to British & European standard is certified by Kite Mark and WRAS



Cosmoplast High Pressure uPVC pipes and fittings are widely used in

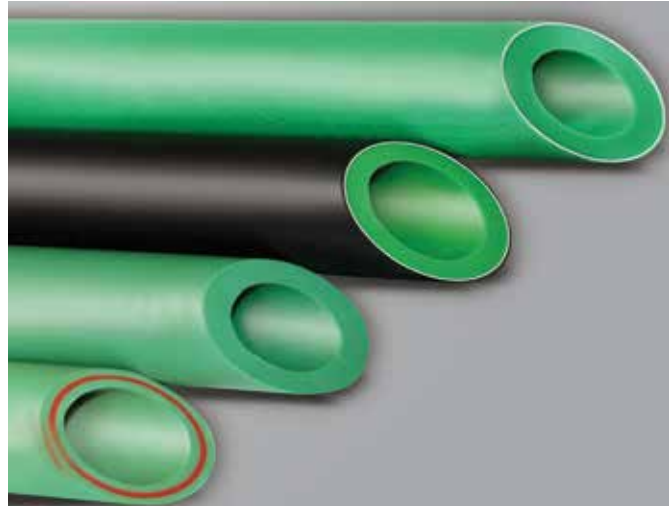
- Distribution of cold water under pressure.
- Air conditioning Drain Systems
- Piping networks for swimming pools facilities & rainwater utilization
- Cold fluids circulation in industries.
- Transport of chemicals and corrosive fluids in industries



## PP-R Pipes & Fittings

Cosmoplast PP-R pipes and fittings are manufactured according to the German DIN Standards with sizes ranging from 20mm upto 160mm. The outstanding temperature rating up to 95°C and pressure rating up to 25 Bar make the PPR system the ideal solution for variety of applications including:

PPR Pipes and Fittings are certified by WRAS.  
PPR Pipes are certified by DVGW



- Hot and cold potable water piping networks in residential and commercial buildings.
- Heating Systems.
- Chilled water networks in air conditioning systems, as an effective lightweight and corrosion free substitute for steel pipes.
- Transport of wide range of chemicals in the industry.
- Piping networks for rainwater utilization systems and swimming pools facilities.
- Compressed air installations and other industrial applications.



# PEX Pipes & Fittings

PEX pipes are manufactured to the German DIN Standards from cross-linked high-density polyethylene material. PEX pipes are used for long term applications in extreme levels of cold and hot fluid transmission.

These pipes require few directional fittings due to its high flexibility and strength. PEX pipes can be used for applications ranging from sub zero temperature up to 200 degrees Fahrenheit. Some of the applications of PEX pipes include

PEX Pipes are certified by SKZ & WRAS



- Hot & cold water distribution
- Industrial Applications
- Compressed air distribution networks.
- Radiators and Under-flooring heating systems
- Transportation of chemicals in the industry

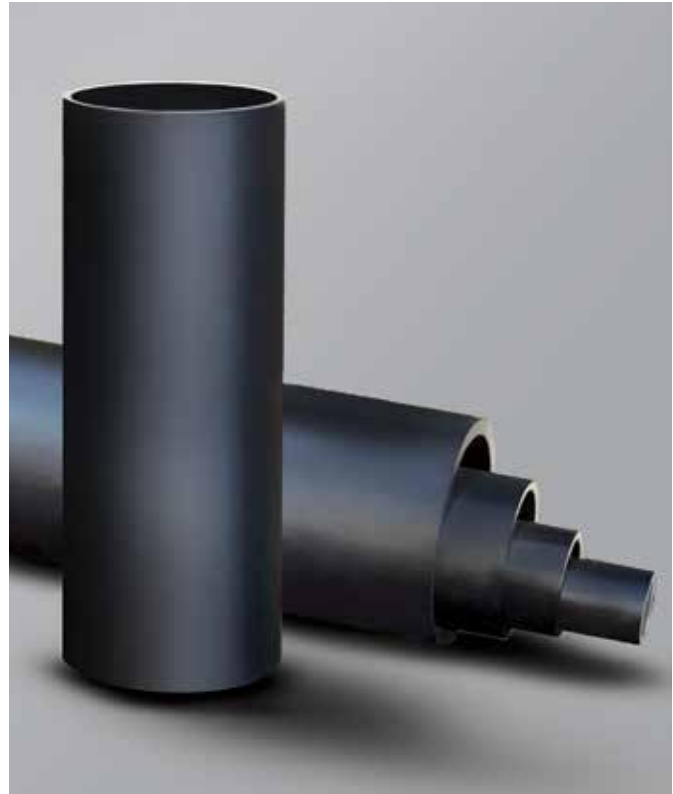


## HDPE Drainage Systems

Cosmoplast HDPE drainage system is the ultimate solution for all types of drainage applications including soil and waste, above ground, below ground and chemical waste. These pipes and fittings are manufactured according to the latest European EN standards and can be joined by butt-fusion, electro-fusion, flanges or rubber ring joints

The characteristics of the PE Drainage system such as the outstanding chemical resistance, high temperature rating, flexibility and low noise make it the ideal selection for residential and industrial buildings, laboratories, hospitals and hotels.

HDPE Drainage Pipes are certified  
by Kite Mark



# CPVC Pipes & Fittings

Characterized by unique thermal, physical and mechanical properties CPVC is desirable for piping applications which require high temperature rating, high impact resistance and fire resistance. Manufactured to various international ASTM / DIN standards our high pressure CPVC pipes and fittings are widely used in:

CPVC Pipes and Fittings are certified by NSF

- Hot and cold water distribution in residential, industrial and public buildings.
- Transportation of hot water in Heating Systems.
- Piping networks for sprinkler fire fighting systems
- Water and waste water treatment systems.
- Air Conditioning Drain Systems.
- Piping networks for swimming pools facilities & rainwater utilization.
- Irrigation networks - sprinkler piping and municipal projects
- Transport of wide range of chemicals and corrosive fluids in the industry



## Fabricated Plumbing Products

Cosmoplast presents wide range of custom made fabricated fittings and accessories made of uPVC, HDPE, ABS, polypropylene or GRP materials to suit different application areas in sewerage, water supply, irrigation, soil and waste applications. Examples of Cosmoplast fabricated items are : Grease traps, Gully Traps, Dry manholes, Catch basins, Sand traps, Bell Mounts, Long radius, Puddle Flange.



## uPVC Ball Valves

Manufactured to the American ASTM and European EN standards, Cosmoplast uPVC ball valves satisfy the requirements of water supply systems and irrigation networks. The unique design of these valves and the implementation of built in unions enable easy installation and maintenance.



# Pipe Clamps & Supports

A wide range of pipe clamps and supports are manufactured according to highest quality standards. These clamps and supports are widely used in drainage, water supply and Fire Fighting systems, and are applicable for most of the piping materials including uPVC, ABS, CPVC, PPR, GI etc.



# Solvent Cements, Cleaners, Lubricants

As a provider of complete plumbing solutions we also present the highest quality solvent cements, cleaners, and joint lubricants manufactured by the top manufacturers in the world. These products are manufactured to ASTM standards and certified by NSF.



## PVC-U Pipes & Fittings for Main Water & Sewerage Lines

Cosmoplast PVC-U pipes and fittings for main water and sewerage lines are manufactured to the latest international standards with sizes up to 1200mm and are supplied to major infrastructural projects in the region.

Cosmoplast PVC-U pipeline are manufactured to various international standards (DIN, EN, BS, ASTM etc) to satisfy the requirements of the various markets and sectors and are used in the following applications:

PVC-U high pressure pipes to British & European standard is certified by Kite Mark and WRAS



- Main water distribution lines for cities and districts.
- Main Drainage and Sewerage lines.
- Pipelines for pumped sewage systems networks.
- Industrial process pipelines.
- Agricultural and golf course irrigation main lines.





# HDPE Pipes & Fittings for Main Water & Sewerage Lines

Cosmoplast HDPE pipes and fittings for main water and sewerage are manufactured to the latest international standards with sizes up to 1400mm and are supplied to major infrastructural projects in the region.

Cosmoplast polyethylene pipelines are manufactured to various international standards (ISO, DIN, ASTM, ...etc) to satisfy the requirements of the various markets and sectors and are corrosion resistant with smooth bores which guarantee smooth water flow and discourage sediment build up.

HDPE pipes eliminate the cause of odor, taste and turbidity combined with high quality jointing techniques and therefore are considered the most suitable for water and drainage service and distribution lines.

HDPE Pipes are certified by Kite Mark | FM | WRAS | SASO



## HDPE & MDPE Gas Pipes

Cosmoplast pipeline systems range includes Polyethylene pipes for gas distribution, produced from high density and medium density polyethylene materials. These pipes are made in yellow or orange color, the universal color code for fuel gas lines.

The pipes are strong, flexible and light in weight, offering easy installation. Polyethylene pipes ranging in sizes from 20mm to 630mm are manufactured according to various international standards depending on customer specifications.

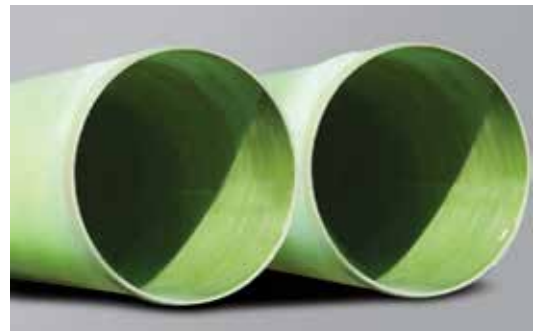


## Glass Reinforced Plastic (GRP) Pipes & Fittings

GRP pipes and fittings are manufactured conforming to various international standards and employs the filament winding manufacturing technique. The product range includes pipes and fittings in sizes ranging up to 1500mm in diameter and manholes up to 2000mm in diameter.

The various applications for which GRP pipes are used include

- Potable water distribution
- Drainage and Sewerage
- Irrigation
- Sea water intake
- Pipe jacking
- Micro Tunneling
- Ducting
- Pre-insulated pipes for district cooling and oil and gas Application



## uPVC Well Casings & Screens

Cosmoplast well casings and screens are widely used in water well extraction in the Gulf region. We offer a comprehensive solution through our extensive range of casings and screens in uPVC. The uPVC double walled deep well casings provide water extraction solution for the most remote areas in the Gulf region that require wells of up to 600m depth.

Some of the key advantages of Cosmoplast casing and screens are

- Lightweight & corrosion resistant
- Easy to install
- Ideal for remote irrigation areas
- Available in diameters up to 1200mm
- Additional filtering options through Granule pack and Gravel Pack
- Continuous slotted pipe and perforated pipes for easy water flow



## Pre-Insulated Pipes & Fittings

Pre-insulated pipes are manufactured for district cooling, oil and gas and other industrial applications using both insulation methods of injected foam or sprayed foam as per customer requirement. The core pipe can be supplied in Polyethylene (PE), cross linked polyethylene (PEX), steel or Glass Re-enforced Plastic (GRP) pipe and the jacket pipe are made of either high density polyethylene or GRP pipe.

While the core pipes can range in sizes from 20mm upto 1500mm, the jackets can be made up to the size of 2000mm in diameter.

Cosmoplast also supplies leak detection systems for district cooling applications.

The different types of jacket core pipe configurations include : HDPE - HDPE , GRP - HDPE , HDPE - GRP, GRP – GRP, HDPE – Steel, GRP – Steel.



## uPVC Fabricated Manholes

Fabricated uPVC manholes with sizes ranging up to 1,200mm in diameter in diameter and any specified height can be fabricated in the company's facilities.. Manholes are the largest entry chambers providing access to a sewer or drainage system for maintenance equipments and inspectors.

The applications for which manholes can be used include

- Drainage and sewerage systems
- Foul water overflow
- Soil and waste
- Chemical plants
- Large pipeline junctions and valve boxes



## Telecommunication Cable Ducts

The telecommunication ducts are HDPE duct pipes pre-lubricated with silicone core suitable for telecommunication and fiber optic cables. They are derived by combining the strength and flexibility of PE material with a suitable lubricating layer on the inner surface of the ducts.

Cosmoplast telecom ducts are suitable for cable installation by blowing technique or pulling by rope. Directional drilling can also be used to install electrical and/or telecommunication ducting in under road applications, or heavily built up areas. Our cable ducts offer extremely low friction properties, are strong & flexible and highly suitable for fiber optic cable installations.



## LDPE Irrigation Pipes

Cosmoplast drip irrigation pipe is made of a black, bimodal linear low-density polyethylene, with an optimum balance between flexibility and strength. It has a high average molecular weight giving good toughness and impact resistance even at low temperatures. This type of low-density polyethylene is recommended for irrigation systems where flexibility and coil-ability is of importance.



## Interior Doors

Intermetal, a Harwal Group Company, manufactures a wide range of interior doors that includes Fire Rated, FSC Certified, Veneer Skin, PVC Skin, Grooved and Solid Wood Doors that are available in a wide range of styles, colours and finishes. A state-of-the-art factory equipped with the latest technology produces consistent interior doors that are recommended due to their performance and durability. We work with architects, interior designers, consultants and contractors to meet exact specifications and budgets. With the entire production located under one roof, we manufacture doors that conform to stringent quality and commercial standards and that can be specified with confidence.



## Vinyl & Composite Decking & Cladding

Engineered for life in the great outdoors our vinyl and composite decking makes a great alternative to wood decking. The deck material has an inherent resistance to UV light and wood worm. Because it is moisture resistant, it endures the elements without rotting, warping or splitting. Our composite decking will stay beautiful come rain or shine.



## Window Shutters

US Polymers, a member of the Harwal Group, is a major international extruder and fabricator of window shutters and components. Manufactured under the brand ShutterSMART our poly clad wood shutters have a wood construction with a durable resin surface giving it the strength of a wood shutter while eliminating the aging affects of wood. The combination delivers unmatched quality and durability. ShutterSmart also offers polyresin, wood, and composite shutters to meet all needs.



## Vinyl Patio Covers

Low-maintenance vinyl patio covers have become the product of choice of landscape designers, architects, and homeowners. These solid structures have an impressive look and feel.

### Advantages

- Unlike wood, vinyl will not rot, warp, crack, attract termites, or ever need painting.
- Unlike aluminum, vinyl is quiet in the rain and will be cool to the touch under the sun.
- Patio covers are engineered in in ready made sizes or components for custom building
- Available in various colors.





# Global Harwal Group Offices & Branches



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