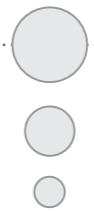




# BUILDING MATERIALS



Fully Integrated  
Building Materials Manufacturer  
in the Middle East



Harwal Building Materials 1

# The Difference is...



## INTUITION

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

By learning and adding to our already vast experience we become more intuitive all the time.



## INNOVATION

Information combined with our knowledge of science and technology is what makes the difference.

A dedicated development team in excess of 450 people consisting of scientists, architects, engineers and designers work around the clock designing and creating new products ready to be delivered to our customers.

***"Our aim has always been to provide innovative and high quality products and services that meet our customers' 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.***



## AGILITY

Diversified technologies, resources and 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. Dedicated leaders in all our divisions with teams of specialists allow us to focus on every detail with great care to deliver what we undertake.



Harwal Building Materials

# HARWAL'S MANUFACTURING HUB...

At a crossroad between East and West, our manufacturing base is strategically located between our various distribution centers in North America, Europe, the Middle East and the Far East. Through this strategic positioning, we are able to be close to our customers, recognize their needs and deliver economically advantageous products.



With abundant raw material resources, supply of energy, a solid industrial infrastructure and a large pool of human resource from all over the world, the Gulf is an ideal manufacturing base for Harwal.

Through this combination, we are able to deliver innovative products that meet our customers' needs and support them worldwide.



# COMPANIES & DIVISIONS



Interplast Co. Ltd.

UAE | KSA | France | UK | Russia

PLASTIC COMPOUNDING  
ELECTRICAL PRODUCTS  
PACKAGING MATERIALS  
BUILDING MATERIALS  
HOME IMPROVEMENT PRODUCTS



Technical Supplies & Services Co. Ltd.

UAE | QATAR

CLADDING AND COMPOSITE PANELS  
COLD STORES  
UNITIZED GLASS SYSTEM  
SEAMLESS ROOFING SYSTEM  
FACTORY BUILT HOUSES  
TELECOM SHELTERS  
METAL SHEDS  
GALVANIZING  
RACKING AND SHELVING  
COMMERCIAL REFRIGERATORS

**TechnoMec**

UAE

CEILING SYSTEMS  
PARTITION SOLUTIONS



**Cosmoplast**

UAE | KSA | Oman | Russia

PIPELINE SYSTEMS  
MOLDED ITEMS  
TRAVELLING GEAR  
OUTDOOR PRODUCTS  
DISPOSABLE PRODUCTS



**INTER METAL**

UAE

HOSPITALITY FURNITURE  
OUTDOOR FURNITURE  
EDUCATIONAL FURNITURE  
RESTAURANT FURNITURE  
OFFICE FURNITURE  
COIL COATING  
DOORS, KITCHEN & INTERIOR FIT - OUT



**Emirates Recycling L.L.C.**

UAE

ALUMINIUM RECYCLING  
ALUMINIUM INGOTS AND SOWS



**Union Beverages Factory**

UAE

BEVERAGES  
CARBONATED DRINKS  
FRUIT JUICES  
DRINKING WATER



**Interpolymer**

UAE

PLASTICS RECYCLING



**Nelson Charter Ltd.**

ISLE OF MAN

LUXURY YACHT CHARTERING  
SALES BROKERAGE



**Zovk - Beverages**

ARMENIA

CARBONATED DRINKS  
FRUIT JUICES & BEVERAGES



**HCM**

Harwal Containers Manufacturing

UAE

PET PREFORMS  
PLASTIC BOTTLES



**USP**  
US POLYMERS INC.

USA

PIPES AND PROFILES  
STORAGE SHEDS  
WINDOW SHUTTERS  
FENCING



**ASPECT-I®**

RUSSIA

PVC DOOR AND WINDOW PROFILES  
STRUCTURAL STEEL TUBES  
WINDOW SILLS



**SETCO**

KSA

MOLDED ITEMS  
COMMERCIAL THERMOFOR-  
MED PRODUCTS

Harwal 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



## BUILDING MATERIALS

## Insulated Composite Panels

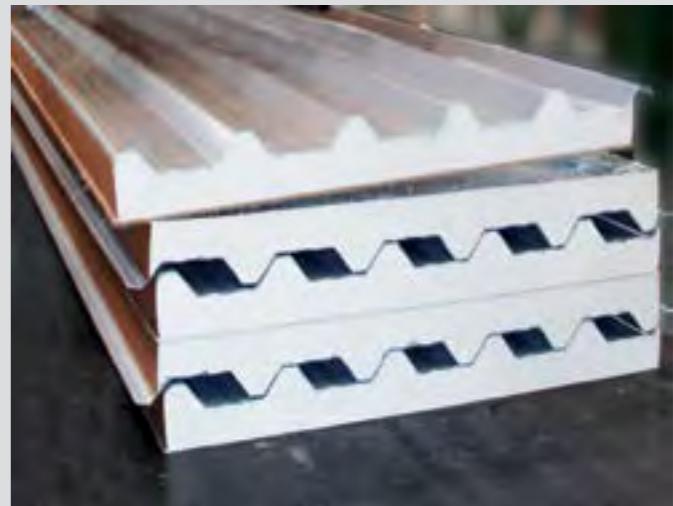
TSSC is the largest manufacturer of Insulated composite panels for roofing and cladding in the Middle East. The pre-insulated monolithic composite panels offer excellent acoustic and thermal insulation for building roofs and walls and is used in various kinds of industrial and civil structures. The differentiated 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. Ltd

# BUILDING MATERIALS

## Doors, Windows & Sliding System

Doors and windows 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.



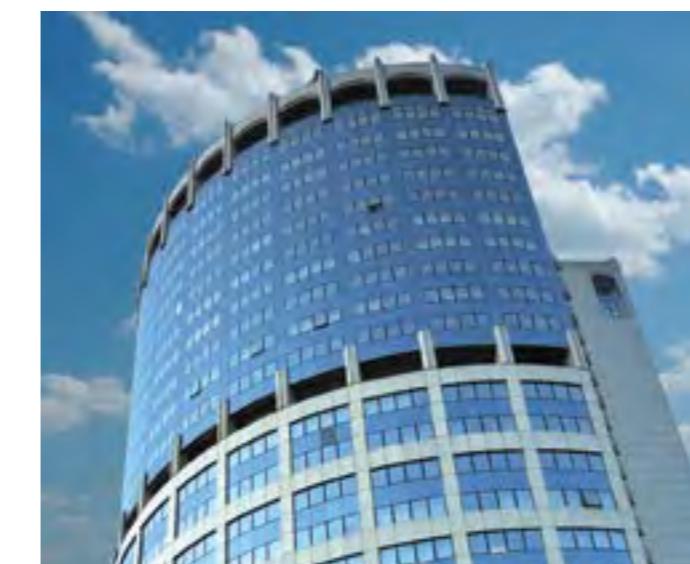
Equipped with advanced machinery, tasks such as crimping, cutting, bench drilling and assembling are performed in our advanced production facility. Manual, automatic and security door systems are available in a wide array of finishes and designs. Both sliding and revolving systems can be provided based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

## Aluminium & Glass Systems

TSSC offers comprehensive solution for glass and aluminium systems meeting any project requirements that include curtain walls, doors, windows and facades. Thermally broken and compartmentally drained, our glass system is designed for projects seeking highest international standards.

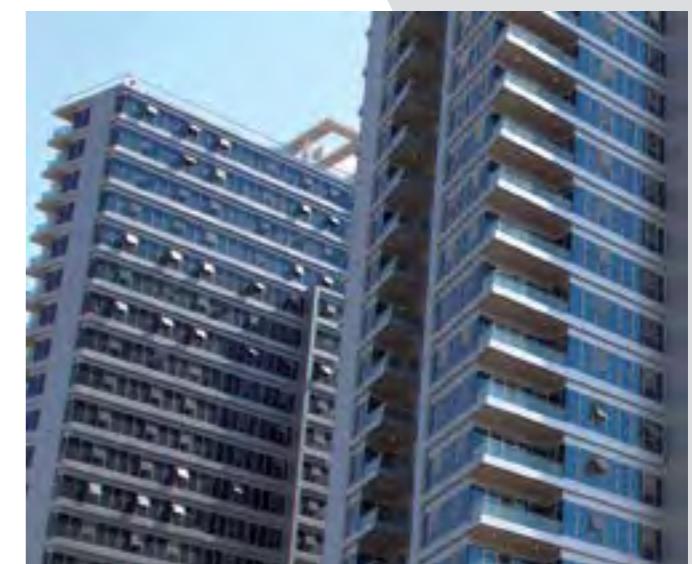
In order to provide high performance solutions for new and refurbished buildings, our curtain walls are sealed internally and externally with frame gaskets and factory injection moulded valcunised corner joints. They are able to handle all loads (dead load, wind load, seismic load, thermal load, blast load etc.) 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.

TSSC with its exclusive license to supply Alustet system in the GCC region offers a unique system that bridges the gap between stick and unitized glass system.



## Advantages

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





Technical Supplies & Services Co. Ltd

## Seamless Roofing System

Seamless roofing system is a unique system where the roofing sheets are joined together using the snap lock system. The seamless flat roof metal covering system is one of the latest offerings from TSSC and is used in industrial as well as in civil building and offers innovative designs defining new architectural trends.

With its essential shape, aesthetic appearance, constructive economies and outstanding technical properties, seamless roofing system is the perfect balance between technology and appearance.



## BUILDING MATERIALS

## Stainless Steel Kitchen Equipments

We believe that kitchens should be designed reflecting individual needs of the customer, combining functionality with aesthetics. Hence, we offer a fully integrated range of stainless steel kitchens. With its rich luster and polish, stainless steel conveys a look of utmost sophistication and adds elegance to the kitchen décor while offering the most hygienic solution to your kitchen needs.

The stainless kitchen range includes sinks, cabinets, tables, trolleys, hoods, shelving, and various other equipments such as dryers, deep fryers, tray sliders, gastronorm pans, shawarma grill etc. that compliment the range.





Technical Supplies & Services Co. Ltd

# BUILDING MATERIALS

## Factory Manufactured Houses

TSSC specializes in designing and manufacturing permanent pre-engineered housing buildings using polyurethane injected insulated panels that are used to build roof, wall, partition and doors. The insulated panels provide exceptional thermal insulation for the building resulting in low electricity and maintenance costs. Our highly trained and experienced project management team provides attention to details and ensures safe and speedy execution of the projects.

The new breakthrough product TSSC has developed that would revolutionise the construction industry is the sandwich panels with cement boards or GRP boards insulated with concrete and eps mixture. Buildings made with these new panels give it the sturdiness and strength of a conventional concrete structure at a much lower cost and with very short installation time.

### Advantages

- Swift erection time compared to conventional buildings
- Energy Efficient
- Light weight and durable steel framed construction
- Suitable for any climatic conditions
- Flat-packed and bundled to reduce transportation costs
- Aesthetic looks and appearance
- Termite Resistant



## Portable Cabins

Prefabricated housing buildings designed and built to be movable and permanently located offer solutions to the construction and housing needs of offices, labour camps, schools, commercial work modules and even residential villas. These portable buildings are designed to be carried to or from site on a large trailer and can be slung on and off by a crane.



## Telecom Shelters

Under the factory built units division, the Group manufactures pre-fabricated shelters that includes controlled environment shelters for GSM telecommunication, radar equipment shelters and air-quality monitoring shelters. TSSC Telecom shelters are custom built, with particular attention to details, most importantly the electrical component specifications and anti-static requirements. In addition, the shelters will withstand harsh environmental conditions, are transportable and can be easily erected on high rise buildings without any special installation methods. Designed specifically for outdoor use, these shelters are lightweight, can be quickly and easily assembled and disassembled and are dust and water proof.



## ALUPEX® ALUMINIUM COMPOSITE PANELS

With the objective to develop & manufacture quality products for the modern building architecture, ALUPEX Aluminium Composite Panels were developed in collaboration with US Polymers INC, USA. It is a unique and versatile cladding material used in enhancing new trends of modern architecture. With a life expectancy of over 20 years, the panels offer easy installation and provide smooth surface and attractive finishes. With superior strength to weight ratio, Alupex reduces heat and sound transmission.



Alupex is manufactured with the state-of-the-art technology of multi-layer extrusion lamination where two skins of non-corrosive special grade aluminum sheets are bonded on to the non-toxic polyethylene thermoplastic or a fire retardant mineral core to form a sandwich panel. The external skin surface is available in various finishes and colors made from PVDF paint coatings. The external surface is further protected by an easy-to-peel protective film for the panels to maintain its superior exterior finish.

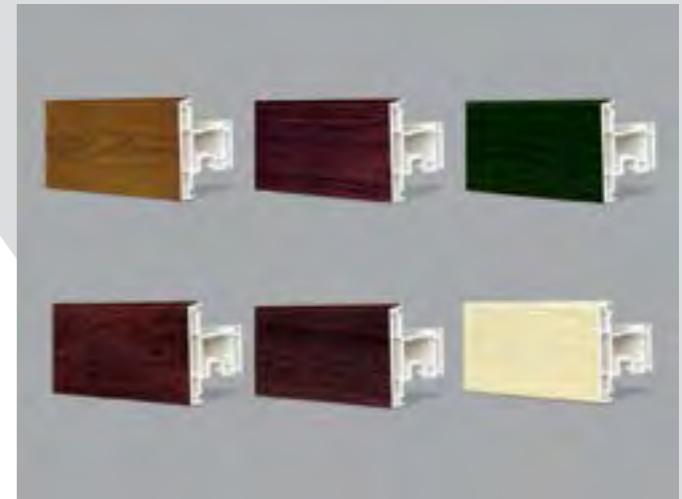


### Applications

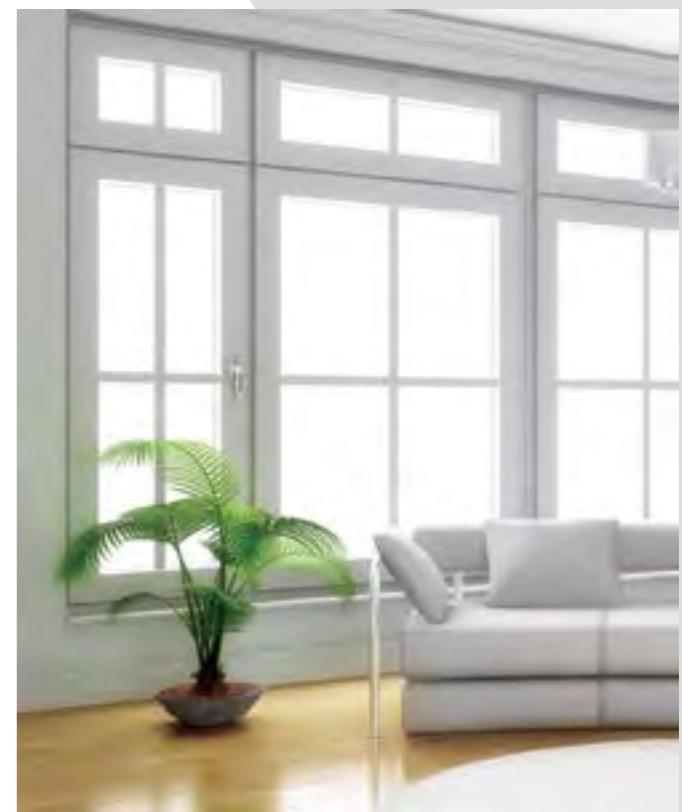
- External Wall Cladding
- Curtain Walls and Internal Finishes
- Rooftop Edges and Wall Canopies
- Stairways and Elevators
- Advertising Display Sign Boards
- Spandrels, Column Covers and Beam Wraps

## DURA MAX® 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



## 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® 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® ELECTRICAL ACCESSORIES

EDISON range of products include various ranges of switches, sockets, and electrical wiring devices & accessories under the series Dura Finish, Designer, Royale and Nano. The range from EDISON comes with exotic designs and color schemes and can be offered in custom designs to match any décor. All wiring accessories are manufactured to Gulf and international specifications and our fully equipped laboratory carries out all tests specified by the relevant standards.

The EDISON Royale is a fully modular international range of switches, sockets & accessories that offer flexibility and is aesthetically pleasing. With an extensive selection of modules, it easily fits into a wall fixing back frame which are covered by various designs and colors of front plates. The weatherproof series enables safe operation of equipment for exterior applications.

The Nano range of wiring accessories are made from carefully finished genuine metal flat plates to match all architectural decors with impressive style. The Nano range also offers metal clad switches and sockets with anti corrosion protection for low voltage commercial and industrial applications.





## Lighting, Switchgears & Enclosures

The DECOVOLT range of low voltage switchgears comprise of miniature circuit breakers, MCB ISOLATORS, MCB Distribution Systems and Fluorescent fixtures. DECOVOLT range of OEM manufactured products are as per international standards IEC/EN 60947-3 & 60898 and the quality management system is certified to ISO9001 by ASTA U.K. DECOVOLT products are CE marked declaring conformity to European standards and safety regulations.



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.



## uPVC Drainage Pipes and Fittings

With a wide range of uPVC drainage pipes and fittings covering a size range from 32mm 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 - European standards and awarded the BS Quality Kite Mark.



## uPVC 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.



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:

- 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

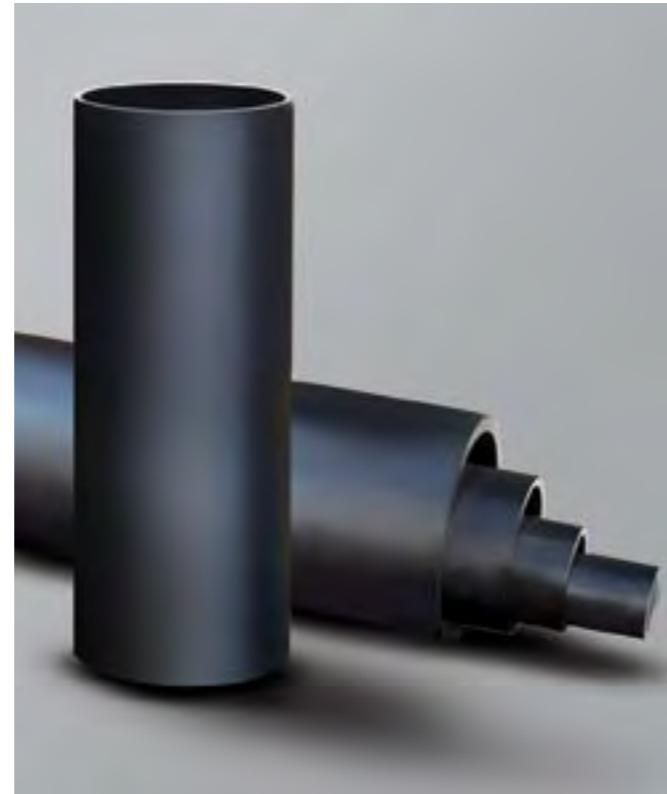
- Hot & cold water distribution
- Industrial Applications
- Compressed air distribution networks.
- Radiators and Under-flooring heating systems
- Transportation of chemicals in the industry



## 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.



## CPVC Pipes and 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:

- 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 etc



## 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 and 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 and Compression Fittings

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.

A wide range of PP compression fittings are also supplied by Cosmoplast for use in high pressure applications using polyethylene pipes. These fittings are manufactured by the top European manufacturers according to the highest European standards.



## uPVC Pipes & Fittings for Main Water and Sewerage Lines

Cosmoplast uPVC 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 uPVC 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:

- 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 and 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 and 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 1200mm are manufactured according to various international standards depending on customer specifications.



## Glass Reinforced Plastic (GRP) Pipes and 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 & GRP Well Casings and 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 and GRP. 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. The GRP casing and screen system has many advantages over the steel pipes used in deep well applications.

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 and 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 and GRP Fabricated manholes

Fabricated uPVC manholes with sizes ranging up to 1,200mm in diameter and GRP manholes of up to 2,400mm 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



## Reinforced Thermoplastic Pipes (RTP)

Reinforced thermoplastic pipes for oil and gas applications are manufactured in collaboration with Technip and have a pressure rating of 150 Bar at 60 degrees Celsius. These pipes are supplied in coils with lengths up to 500m. Reinforced thermoplastic pipes are preferred over steel pipes due to its easy and fast installation. Some of the applications of reinforced thermoplastic pipe include

- Gas distribution networks
- Oil flow lines
- Water injection lines



## 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

LDPE, LLDPE (linear low density polyethylene) pipes are high precision drip pipes manufactured according to the ISO 9261:2004 standard for irrigation purposes. The drip pipes are also manufactured to customer specific standards. Landscape and lawn edging is also manufactured as a part of the irrigation systems supplied by the company.



## Interior Doors

Intermetal manufactures a comprehensive range of PVC, Solid, Veneer and Fire Rated doors for residential and commercial properties. Using latest equipments and technological advancements, our doors are manufactured using softwood with solid core, semi-solid core or honeycomb core. Our wide selections of doors are manufactured from a combination of natural and synthetic materials and offers different textured surfaces. Our working philosophy involves us to partner with each customer to provide solutions to meet exacting needs. The superior manufacturing processes guaranteeing high performance and durability has made us the specified choice amongst consultants, contractors, architects and designers.



Interwood, a total joinery and fit-out division of Intermetal, manufactures an extensive range of quality products for both commercial and domestic customers. As a total joinery solutions provider, the division hosts a highly automated joinery and lamination factory that manufacturers complete fitted kitchens, bedrooms, doors, carcasses, wardrobes, and interior furnishings in a variety of finishes (PVC Lamination, Solid Wood, Veneer and Stained).



Attention to detail, stringent quality measures and the ability to control all aspects of the project; design, manufacturing, installation ensures the highest standard and guarantees total customer satisfaction.



## Ceiling & Partition Systems

As a leading building materials supplier we provide installation and supply of all types of suspended ceilings and partition systems. We manufacture a wide range of false ceiling systems, both metallic and gypsum with complete suspension systems, custom made suspended ceiling systems and dry wall partitions, to meet today's architectural and design requirements.

### Advantages

- 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 aluminium 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.



## Structural Steel Tubes

Aspect-1 produces cold-rolled sections and profiles such as structural tubes and metal decking that are extensively used in the construction industry.

Cold-forming is done at room temperature using rolling or pressing processes. Cold-rolled steel offer reduced thickness, enhanced surface finish, forming characteristics, and high-strength grades.

### Advantages

- Light weight
- High strength and stiffness
- Ease of prefabrication and mass production
- Fast and easy erection and installation
- No formwork needed
- Termite-proof and rot proof
- Economical in transportation and handling
- Non combustibility
- Recyclable material
- Non shrinking and non creeping at ambient temperatures



## Window Sills

Window sills made of durable vinyl are an ideal and economic solution for the completion of your interior rooms. These sills are easy to install, maintenance free, waterproof and direct sunlight will not warp the window sill.

### Advantages

- Durability
- Easy maintenance
- Insensitivity to scratches
- Pleasant shape, nice to look at and to touch



## Vinyl Decking

Engineered for life in the great outdoors our Vinyl decking makes a durable and superior alternative to wood decks. Vinyl has an inherent resistance to UV light, termites and wood worms. 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

Shutters are designed to cover the interior of windows. We offer shutters in poly, vinyl, wood and mdf. Our flagship vinyl clad wood shutter is designed with a solid wood core and covered with a durable resin surface. The combination gives the strength of a wood shutter while eliminating the aging effects of wood. The shutters are built by a network of fabricators throughout the world using our window shutter systems and components.



## 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 to meet local engineering standards
- Available in various colors



## Durawall

Durawall is designed to replace traditional stone and brick walls with a durable vinyl reinforced steel structure. They eliminate the common problems found in traditional masonry walls of cracking and deterioration caused by shifting of the ground and weather etching of stone. They are easy to install, wind tested to withstand high winds, act as sound barriers and are stable in all weather conditions.

### Advantages

- Unlike Traditional Walls, will not crack from ground movement.
- The Look and Feel of Real Stone Wall.
- Easy to Replace.
- Low Maintenance Durable Vinyl Surface.
- Strong Steel Frame structure.
- Fire resistant.
- Graffiti Resistant



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ASPECT-I



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