Technical Supplies & Services Co. Ltd

ALUMINIUM & GLASS SOLUTIONS
INTRODUCTION

Technical Supplies and Services Co. Ltd. (TSSC) supplies aluminium facades, doors and windows to both commercial and residential construction markets. The doors & windows division of TSSC operates strategically from Dubai (UAE) and it has ISO 9001 quality accreditation. TSSC prides itself in providing responsive and personal customer service with local presence and on forming long term mutually profitable relationship with specifiers and fabricators.

“The mission of the doors and windows department at TSSC is to offer high performance quality products and services to meet the needs of each project at competitive prices.”

Since inception in 1961, TSSC, a primary member of Harwal Group has been setting manufacturing benchmarks in the region with its engineering excellence. The ISO 9001:2008 certified company manufacturers diverse range of products and offers a range of services from its facilities spread across Sharjah, Dubai and Abu Dhabi. TSSC is the largest manufacturer of insulated panels for roofing and cladding in the Middle East. The building materials manufactured by TSSC are fire rated and carry individual product certifications. With over 4 decades of experience, state of the art manufacturing facilities and the largest production capacity in the Middle East, TSSC manufactures products to international quality standards and cater to customer demands by ensuring timely delivery and providing exceptional service.

Range of Products Manufactured by TSSC

Building Materials
• Composite Panels
• Profiled Cladding Sheets
• Seamless Roofing System
• Doors & Windows
• Unitized glass systems & Curtain walls

Commercial Refrigeration
• Merchandising Refrigerators (Visi coolers & Freezers)
• Stainless Steel water coolers

Cold Stores
• Chillers
• Freezers

Prefab Solution
• Factory Manufactured Houses
• Telecom Shelters
• Portacabins
• Containerised Houses

Stainless Steel Products
• Kitchen & Laundry Equipments
• Stainless Steel Refrigerators & Freezers

Metal Products
• Metal Sheds
• Cable Trays
• Trunkings
• Switchgears

Services
• Galvanizing

Product Portfolio:

TSSC has an extensive suite of products including
• Unitized Curtain Walls
• Aluminium Composite Cladding
• Doors & Windows
• uPVC Profiles
TSSC Curtain Walls:
TSSC provides high performance curtain wall solutions for new and refurbished buildings. From high rise applications to ground floor treatments, systems have been developed and tested to suit most environments. Commercial and retail applications, transport terminals, health service buildings and educational establishments are just a few markets in which TSSC has earned a high reputation in service, quality and technical support.

Construction:
Thermally broken and compartmentally drained, TSSC curtain walls are designed for site erection to the highest international standards.

- Width and height: as per customer specification.
- All extruded frame members are fabricated from aluminum alloy and are in accordance with international standards.
- The curtain wall is sealed, internally and externally, with frame gaskets and factory injection moulded vulcanized corner joints.
- The curtain walls are simple to fabricate with ordinary tooling. Press tooling can be used for applications of large sizes.
Glazing:
The curtain wall is designed to accommodate double glazing options. Glazing must satisfy safety recommendations and withstand calculated design wind pressure for various locations.

Performance:
The curtain walls from TSSC are weather resistant for:

- Air permeability
- Water tightness
- Wind resistance

Finishes:
TSSC curtain wall systems are available in mill finish for final finish for others or can be supplied in full range of polyester powder or anodized finishes.

Technical Support:
TSSC technical support department provides comprehensive technical support, manuals and standard drawings.
Advanced Technological Support

The integrity of our systems is supported by the use of stringent quality control methods employed through the fabrication and assembly processes.

TSSC Curtain wall systems are designed to handle all loads imposed on it as well as keep air and water from penetrating the building envelope. The various loads include:

- Dead load
- Wind load
- Seismic load
- Thermal load
- Blast load

Our curtain wall systems are earthquake resistant and have been certified by the Laboratory of Earthquake Engineering. Significant tests have been conducted to assess the performance of various architectural glass types from TSSC and have been subjected to simulated earthquake conditions.

The Engineers at TSSC have been working towards designing curtain walls that will not break when shaken by the intense motion caused by earthquakes. By installing glass panels that do not touch the corners of the frame, researchers have increased the drift capacity of the window frame. Adding a gap between the walls and frame allows for some movement, especially when reinforced by “fuses” that connect the two structures.
uPVC Windows

TSSC offers a range of stylish windows that suit your requirements. Strength, reliability and excellent impact are ensured by thick profile walls. Angled external faces disperse dirt and water as well as enhance good looks.

TSSC window systems combine the latest advancements in technology with unrivalled design. Elegant and attractive, yet practical, durable and energy efficient, TSSC window systems offer quality and style that is simply superior. As the leading manufacturer of uPVC windows in the Middle East, TSSC enjoys an enviable reputation for quality and design. With extensive experience in producing the highest quality uPVC systems, our exceptional products ensure that you receive only the best windows and doors for your home or workplace.
Doors

TSSC doors division provides vital solutions like form, function, efficiency and security for your building entrance system. TSSC offers a complete line of door systems including manual, automatic and security doors available in a wide array of designs and finishes. TSSC offers clients entrance solutions that could be revolving or sliding based on individual requirement.

Standard Features:
- Many standard diameters
- Round or Segmented drum design
- Curved, tempered or laminated wall glass
- Flexible design
- Quick delivery on standard finishes

Specifier Options:
- Finishes (Anodized aluminium, paint, metal clad, wood)
- Floor speed control
- Special diameters and heights
- Aluminium root panels
- Ceiling lights
- Glass ceiling
- Electronic speed control
- Return-To-QuarterPoint
- Push bars
- AutoLock
- Magnetic breakaway for high wind conditions
- Extended canopy
Advanced Technological Support

DURAMAX® uPVC profiles with its physical properties ensure slimmer, lighter optimized material usage. Subject to the number of sashes, various design alternatives permits maximum size of up to 3600 mm. The frame depth of 60 mm allows easy combination with all profiles of the DURAMAX® systems such as Coupling, Angle or Extension Profiles. Different types of glasses that include security glass of up to maximum 28mm thickness can be installed. This colourfast, uPVC system requires minimum maintenance to be maintained in superior condition. Research proves that even extended exposure to harsh environmental conditions does not affect uPVC, keeping them look as good as new!

uPVC technology improves the window system’s performance, through increased thermal insulation resulting in a reduction of energy consumption and offers improved sound insulation. The technology also optimizes the use of raw material components and refines the product, ensuring longevity with an increased lifespan of the uPVC profiles. uPVC can be recycled easily, thus reducing the consumption of raw materials, energy and protects the environment.

Weathering resistance is a key requirement of profiles, especially window profiles. Over the last decades, Lead-stabilised window profiles have proven their outstanding durability under different climatic conditions. They maintain their mechanical properties, such as impact strength or dimensional stability, even when exposed to strong temperature changes, alternate periods of humid and dry weather and solar radiation. Calcium/Zinc stabilisers exhibit better colour hold than traditional Lead systems both in artificial and natural weathering.

TSSC doors and windows division is equipped with advanced machinery to perform functions like crimping, cutting, bench drilling and assembling. Thus improving the products performance, maintaining quality-control, being future-orientated & cost-efficient.

Quality, Research and development have been of core importance

We continuously improve the processing properties and performance characteristics of our stabilisers by way of comprehensive research and development using state-of-the-art equipment. We coordinate our activities closely with our customers in order to offer them tailor-made products to suit their needs.

Together with our customers, suppliers and other companies in the industry we take an integrated approach to our innovative development goals in order to achieve the best possible solutions for our customers.

TSSC doors and windows department appreciate the importance of being customer focused and fully understanding customer requirements. Our company history testifies that such an approach leads to a successful project and satisfied customers.

To ensure that the quality processes within the management system continue to improve and provide a framework for delivering consistent quality standards, TSSC ensures a high level of customer service and satisfaction at all times.
Harwal Group is an international manufacturing conglomerate specialized in various manufacturing technologies with headquarters in UAE. With a diverse range of products that serve a spectrum of industries, we build valuable partnerships with our customers and provide them excellent service.

Our Group companies in the Gulf region include Cosmoplast, Interplast, Intermetal, TSSC, Technomec, Emirates Recycling, Union Beverages Factory and Harwal Containers Manufacturing. Collectively, they cater to diverse market sectors with a customer base spanning across the Middle East, Europe, USA, Asia Pacific, Africa, CIS and beyond.

In the GCC, Harwal Group is the largest converter of plastic, wood and metals into finished products. Harwal Group product lines comprise of building materials, pipeline systems, electrical and plumbing systems, prefabricated solutions, packaging materials and consumer packaging products, cold rooms & refrigeration, beverages, household and commercial equipments, furniture and other relevant allied manufacturing services. The other operations include luxury yacht chartering & brokerage and manufacturing & supply of industrial machineries which are based outside the Middle East.

Our Group companies lay great emphasis on our core values such as quality, service and dependability in order to achieve our objective of manufacturing innovative and high quality products for our customers. All our companies are ISO 9001:2008 certified and follow stringent quality parameters in manufacturing goods that meet international product specifications and standards.

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