Introduction

To meet the demands of diverse industries for quality building solutions, TSSC manufactures a wide range of building materials and is the largest manufacturer of composite panels in the Middle East. The building products range include high quality corrugated metal sheets and insulated composite panels, seamless roofing systems, glass & aluminum systems, factory manufactured houses, pre-engineered buildings and cold rooms. The products are manufactured to meet the prescribed specifications of design engineers and building contractors. The components manufactured by TSSC are aesthetically pleasant, weatherproof, provide thermal insulation as well as resistance to fire, fungi and mildew.

The panels are manufactured to the exact measurement to fit perfectly and are mounted without mastic (dry joints) assuring short, cost-saving construction time. The range of products offered by TSSC for industrial development can be broadly classified as

- Profiled Cladding Sheets
- Composite Panels
- Purlins
- Metal Decking
- Roofing Systems

With state of the art manufacturing facilities and latest advanced technology, TSSC is specialized in the design, production and distribution of Insulated Panels and Cladding Sheets.

Composite Panels

TSSC composite panels range represent a complete system of insulated monolithic metallic panels used for building roofs and walls for 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 panel is a result of injection of rigid polyurethane or PIR foam at high density between two rigid facings. The CFC and HCFC free Pentane blowing agent used in manufacturing the panels makes PIR panels environment friendly suitable for green buildings.

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 by TSSC include

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

TSSC supplies panels based on the customer chosen parameters such as weight, strength, durability, surface finish, colour and thermal insulation properties. Our dedicated sales team offer the best possible advice for your requirements of insulated panels. We also offer composite insulated panels for use in residential and industrial sectional door applications and rigid and secure but highly insulated low conductivity panels for use as residential exterior door blades.

The use of polyurethane foam for insulation offers several advantages. Most notable advantages of using insulated panels are its energy saving characteristic, light weight, absence of thermic-bridges, and its long lasting quality. Therefore, they perform the dual role of providing structural strength and insulation. Most importantly, these panels also conform to the fire protection requirements of European guidelines for flammable materials in building construction. With the heating and cooling contributing the most to the operating expenses of a building, TSSC panels with its excellent thermal insulation provide its customers considerable savings.

Our PIR panel system with non-combustible panels and specially designed details and accessories provides a complete solution for fire-resistant facilities.
TSSC is committed to sustainable development

At TSSC, we fully comprehend environmental issues as we continue to innovate, develop and deliver environment friendly green products to meet our customer needs. In compliance with EHS regulations and international standards, TSSC manufactures sandwich panels using environment friendly pentane as the blowing agent. The sandwich panels with rigid PU and PIR foam insulation manufactured using pentane are of high-quality, economical and offer higher compressive strength. The blowing agent Pentane has an ODP (ozone depleting potential) of zero and a GWP (global warming potential) of less than 11.

Specifications

Profiled Cladding Sheets for Roof & Wall Cladding

Material - Color Coated Aluminum / Steel / Alu Zinc

Color coating as per RAL 840 - HR & RAL 841 - GL

Features

• Bringing everlasting life to buildings
• Long decorative life coupled with low maintenance.
• After supplying millions of square meters yet not reported single failure.
• Virtually unlimited color choice available subject to external lead time.
• Metallic colors & harsh weather proof coatings are also available

Applicable for Polyester, Silicon Polyester, ARS, Plastisol & PVDF coatings

Color indicated are representations of TSSC standard color range to be used for guidance only. Shade difference shall be upto Delta E-2

TERMS & CONDITIONS APPLY

Specification

• Aluminium profiled sheet is 0.5 mm. up to 0.9 mm. thick Alloy A3105 - H16 Temper from tension leveled coils - different alloys can be supplied on request.

• GI & Alu Zinc coated steel profile sheets 0.5 to 0.9 mm thick as per ASTM A 656 for GI & ASTM A 792 for Alu Zinc - Different grades Can be supplied on request

• Painting is baked regular modified enamel polyester, with 5 micron primer and 20 micron coat on the weathering side and 5/7 micron primer on the reverse - PVDF, Silicon, Modified Polyester, Plastisol & ARS coating on request is applicable.
ISO WALL - Type 1

1150

50 / 75

ISO WALL - Type 2

1150

100

Hidden Fastener
(Concealed Type)

1085
Accessories

- Eave Curve
- Corner Flashing
- Ridge Panel
- Valley Gutter
- Door Head Flashing
- Drip Flashing
- Eave Gutter
- Gable Flashing
Quality Assurance Policy

For decades, the Quality Management System followed by TSSC has ensured that the products and services offered by the company always surpass the expectations of its customers. Continuous improvement is an ongoing characteristic of our ISO 9001:2008 system to improve every operational process. As a leading manufacturer, TSSC has always stayed focused on finding new ways to design, produce, sell and deliver quality products at economic prices.

TSSC has QA/QC departments to continuously monitor their operational processes and product quality. TSSC’s state of the art QC laboratories ensure that products supplied meet the various international standards to which they are designed and produced. The production line implements a continuous quality system that conforms the quality at each stage of production. Most of TSSC products are approved by third party certifying agencies. We are ISO 9001 : 2008 certified by VINCOTTE INTERNATIONAL MIDDLE EAST. TSSC composite panels have very high fire ratings and TSSC is under the process of obtaining FM approval for all the panels they manufacture. Besides these, most of TSSC products are DCL approved.

TSSC offers up to 25 years guarantee (according to the specifications) against manufacturing defects for all polyurethane insulated panels.

Moreover, TSSC’s stringent vendor qualification system selects the best international manufacturers and suppliers for the production and procurement needs. Some of the major suppliers for TSSC include -

- HUNTSMAN USA
- BAYER GERMANY
- KASON USA
- DAN-DOORS DENMARK
- PASTORE & LOMBARDI ITALY
- CORUS UK
- OTEFAL ITALY
- ARCELOR EUROPE
- HINDALCO INDIA
- UNI COIL KSA
- BLUESCOPE AUSTRALIA
- JSW STEEL INDIA
- UTTAM GALVA INDIA
- BASF GERMANY
- NATIONAL STEEL INDIA
- ESSAR STEEL INDIA
- POSCO SOUTH KOREA
- YUSCO TAIWAN
CERTIFICATE
ISO 9001 : 2008
Quality Management System

VINCENTTE INTERNATIONAL MIDDLE EAST
Dubai – United Arab Emirates

This is to certify that

TECHNICAL SUPPLIES & SERVICES CO. LTD.
(CORPORATE)

Located at
Plot No. 1317 and 1320, Industrial Area #10,
P.O. Box 1916, Sharjah, United Arab Emirates
Plot No. 1348, Industrial Area #13,
P.O. Box 1916, Sharjah, United Arab Emirates
Plot K 09/219, 217, 219, Dubai Investment Park,
P.O. Box 7301, Dubai, United Arab Emirates.

The above-named company is in conformity with the requirements of National Joint Consultative Management System

See Annexure for Scope of Sites

Certificate number: C48 4974

Date of issue: 22 March 2013
This certificate is valid until 21 March 2016

Signed for the certification body:

Chairman Certification Committee

ANNEXURE TO CERTIFICATE Q16-106

1. TECHNICAL SUPPLIES & SERVICES CO. LTD. (Industrial Area # 10)
(a) Design of Insulated Panels and Refrigeration Equipment for Cold Stores, Refrigerated Transport and Telecommunication Shelters
(b) Manufacture and/or Supply of Commissioning and Servicing of Insulated Panels, Profile Metal Sheets, Z-Purlins, Freezers and Refrigeration Equipment

2. TECHNICAL SUPPLIES & SERVICES CO. LTD. (Industrial Area # 13)
(a) Provision of Hot-Dip Galvanizing Services
(b) Design, Manufacture, Supply and Service of Display Chiller and Freezer Units

3. TECHNICAL SUPPLIES & SERVICES CO. LTD. (Roof and Wall Cladding Division)
Manufacture and/or Supply of Commissioning and Servicing of Insulated Panels, Profile Metal, Z & C Purlins

4. TECHNICAL SUPPLIES & SERVICES CO. LTD. (Glass and Aluminium Division)
Design, Manufacturing, Supply, Installation and Servicing of Aluminium, UPVC and Facade Systems

CERTIFICATE OF PRODUCT CONFORMITY
Dubai Central Laboratory Department (DCLD) of Dubai Municipality, hereby authorizes the above manufacturer to affix the DCL Product Conformity Mark on the above-mentioned products.

Factory-Made Rigid Polyurethane Foam
(Details as per the attached Scope of Certification)

Manufactured by:
TECHNICAL SUPPLIES & SERVICES CO. LTD.
P.O. Box 7301 Dubai Investment Park, Dubai UAE

have been assessed in accordance with DCLL Document Ref. No. B/CO1/1/2008 “General Rules for Dubai product certification system” through factory assessment and the relevant Specifications, and were found to be in conformity with the said standard specifications:
BS EN 13165:2008

Accordingly, DCLL hereby authorizes the above manufacturer to affix the DCL Product Conformity Mark on the above-mentioned products.

DCLL MANUFACTURER

Text: This certificate is subject to the Terms and Conditions of the Product Certification System.
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 manufactures a 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**

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Global Harwal Group Offices & Branches

Our Global Presence

USA, France, Cyprus, UK, Armenia, KSA, UAE, Russia, Kaliningrad