

Design to Excellence



SHILPKAR INDIA PVT. LTD.

D-9, HOSIERY COMPLEX, PHASE-II (EXTN) NOIDA,
DISTT- GAUTAM BUDH NAGAR (U.P.) -201301
TEL. : 0120-4299970/71/72, 4352676,
FAX : 0120-4349211, EMAIL. : prefab@shilpkarindia.com



Shilpkar (India) Pvt. Ltd.



Pre- Engineering Buildings, Wall & Cladding Systems

PRODUCT CATALOGUE



Indian Green Building Council



An ISO 9001-2008 Certified Co.

SHILPKAR was started in 1995 with the aim of providing Prefabricated Structures in cost effective turnkey packages. As the needs of the building industry grew and diversified, we graduated to Pre-Engineered Buildings.

The Company engages itself in design, manufacture, supply and installation of Pre-Engineered buildings. Our buildings are functional, affordable, and innovative in design and appearance, conforming to international quality standards. Every Building is tailor made to suit specific use, loading, size and locational requirements. The company has the expertise and substantial experience in the field of Prefab & Pre Engineered buildings.

Our building systems are flexible with various combination of flooring, walling & roofing system to suit specific budgets and design requirements. Our well equipped steel, walling & roofing component manufacturing facilities at Noida & Sitarganj, Uttarakhand. We have a satisfied client base in place & to back our claims are repeated orders from reputed organizations.

Structures of temporary, semi-permanent or even permanent nature catering to various applications can be built fast with ease in the most inhospitable terrains. Shilpkar has developed number of walling, roofing & floor modules to suit the fast growing need of the construction industry.

Aesthetics of the end product is of prime concern & it goes packaged with a firm backbone of reliability of our systems in the most adverse surroundings.

Shilpkar has a sound professional & technical management team of trained and quality conscious Engineers backed by skilled craftsman.

The versatility & ease of Installation has been put to good use in design & execution of a varied segment of structures such as:

*Personnel shelters & Double-storeyed Barracks for ITBP, BSF, CISF, NTRO, CRPF & SSB.

*Bulletproof Dismantle able bunkers & insulated shelters for Indian Army, Air Force & MES in various locations.

* We have catered to various multi-use structures for NBCC, CPWD, PWD, NPCC, MCD, PGI-Chandigarh, NRCM-Solan, HUDCO, CHB, IOC, KRCL, and USIDC.

* Our exhaustive list of clients also include DPS, Riverdale School, Grauer & Weil Ltd, Skyline Engineers, L&T, Shahi Exports, Premier Bars, Shobha Developers, Logix Technopark, Jukaso Inn, MUSKAN (NGO)

Our Company is ISO 9001
accredited And registered with
DGS&D
(DIRECTORATE OF SUPPLY AND DISPOSAL) &
NSIC
(NATIONAL SMALL SCALE INDUSTRY CORPORATION)

we now offer complete Metal Building Systems (MBS), popularly known as Pre Engineered Buildings-PEBs.

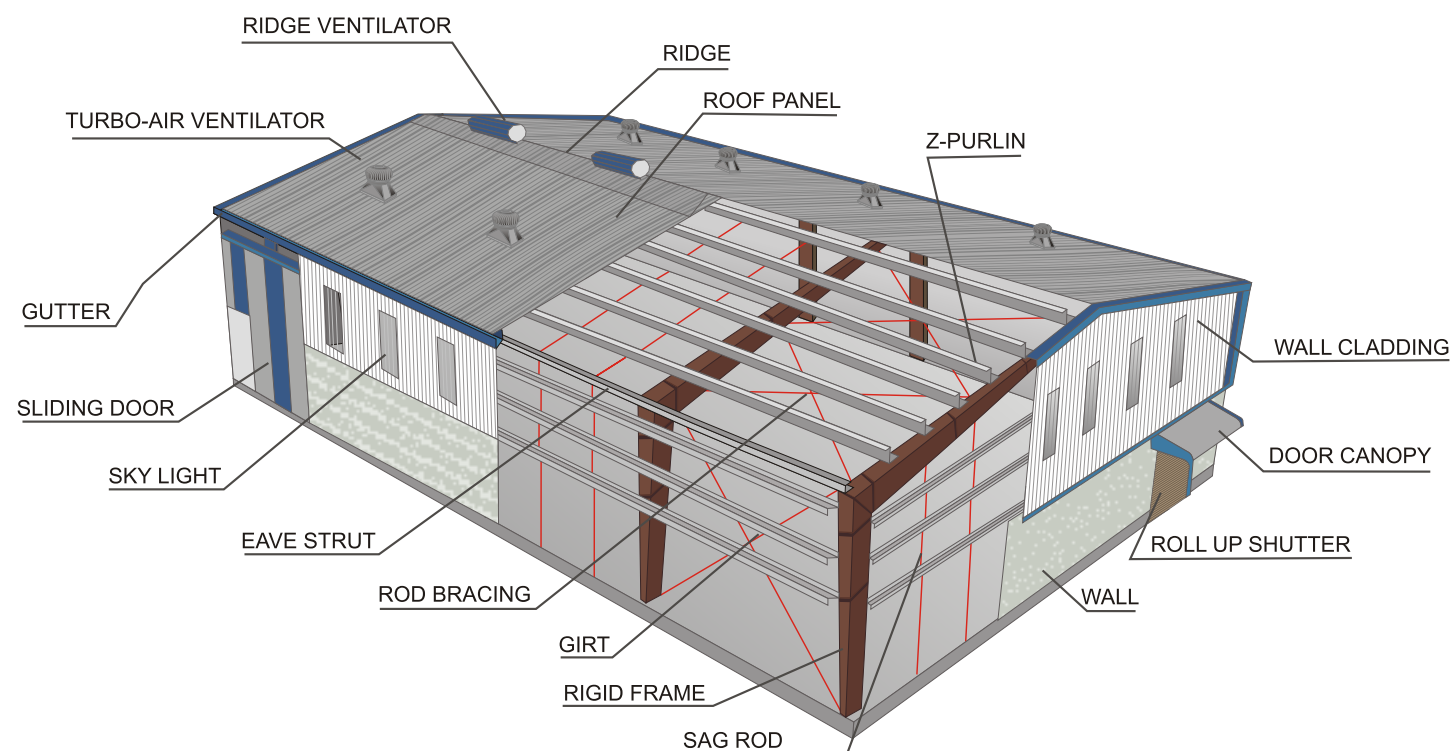
MBS is a complete system of precision engineered, custom made elements & components such as; Steel framing, Structural members, roof & Wall Panels etc. designed to be assembled together at site to make a complete building.

FEATURES & ADVANTAGES

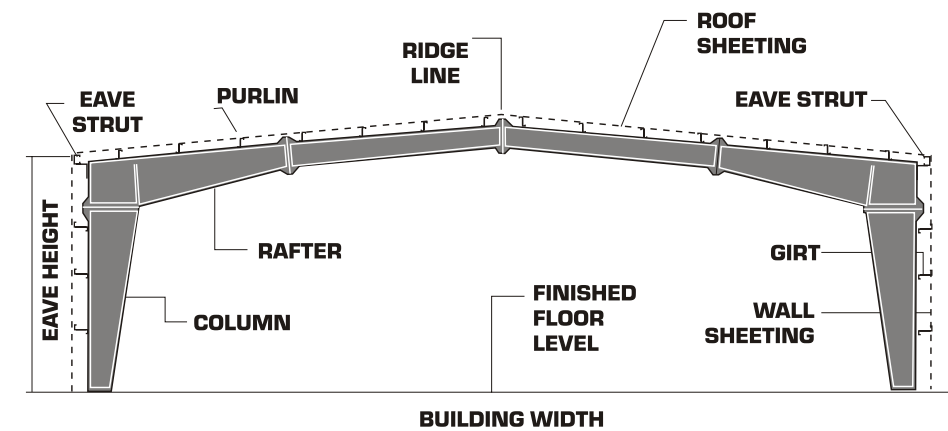
- Wide spans
- Speedier construction
- Cost effective
- Flexibility
- Custom designed
- Single source responsibility

APPLICATION

- | | |
|--------------------|------------------------|
| ■ Factories | ■ Service stations |
| ■ Workshops | ■ Transport Terminals |
| ■ Warehouses | ■ Hangars |
| ■ Showrooms | ■ Parking Lots |
| ■ Exhibition halls | ■ Site-housing |
| ■ Sports halls | ■ Rail yards |
| ■ Auditoriums | ■ Locosheds |
| ■ Convention halls | ■ Cold stores |
| ■ Schools | ■ Distribution centres |
| ■ Food Courts | ■ Storage Yards |

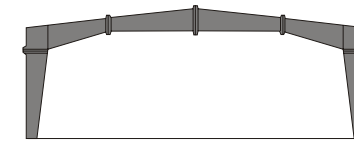


Basic Structure Design



Product Range

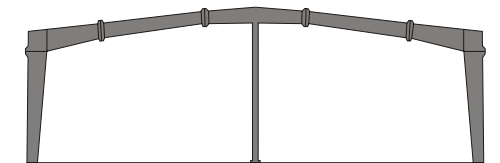
Clear Span Tapered Column



Clear span gabled rigid frames with variable depth tapered columns and rafters, with ridge at centerline of frame. It offers incredible strength, durability, versatility and economy with the most practical solution to most ordinary building requirements.

Width: 10 to 50 mtr.
Height: 3 to 20 mtr.
Standard Roof Slope: 1/10 to 1/20

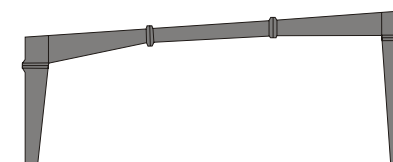
Multiple Span Tapered Column



Multi-span gabled rigid frame with variable depth tapered columns and uniform or variable depth rafter sections supported by intermediate columns, with ridge at centerline of frame.

Width: 10 to 150 mtr.
Height: 3 to 20 mtr.
Standard Roof Slope: 1/10 to 1/20

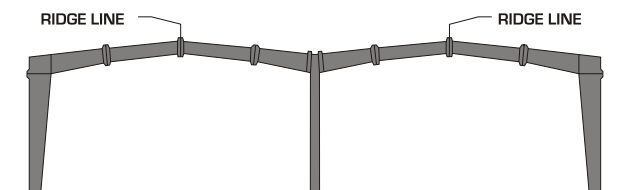
Clear Span Tapered Column Single Slope



Clear span single slope rigid frame with uniform depth tapered columns and uniform or variable depth rafters. The SS System offers a wide range of uses together with fascia systems and parapet walls, exquisite building lines can be achieved for a pleasing architectural treatment. The SS System may also be used as a wing unit, or addition to an existing building.

Width: 10 to 50 mtr.
Height: 3 to 20 mtr.
Standard Roof Slope: 1/10 to 1/20

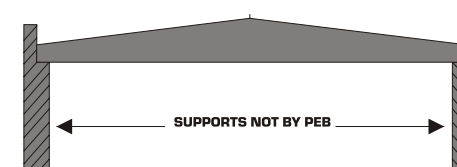
Multiple Gable



Multiple-gabled rigid frames with uniform depth columns and uniform or variable depth rafter sections supported by intermediate columns. It offers the most economical cost per square foot of coverage when spans over 80' are required and interior column supports are not objectionable. Spans of up to 400' are available with multiple interior column spacing.

Width: 20 to 200 mtr.
Height: 3 to 20 mtr.
Standard Roof Slope: 1/10 to 1/20

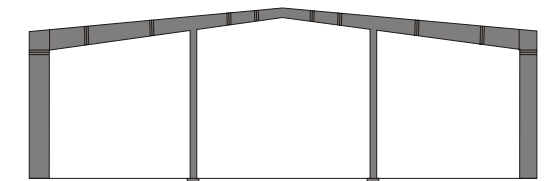
Clear Span Straight



Clear span gabled rigid frames with uniform depth columns and variable depth rafters, with ridge at centerline of frame.

Width: 10 to 50 mtr.
Height: 3 to 20 mtr.
Standard Roof Slope: 1/10 to 1/20

Multiple Span Straight Column



Multi-span gable rigid frame with uniform depth columns and uniform or variable depth rafter sections supported by intermediate columns, with ridge at centerline of frame.

Width: 10 to 200 mtr.
Height: 3 to 20 mtr.
Standard Roof Slope: 1/10 to 1/20

Hi-Rib Profile

Hi-Rib Roofing system is a combination of both, high strength and corrosion resistance with elegance and flexible design for any building need.



PARAMETER	DIMENSIONS
Tough Depth	30mm
Pitch	200/250mm
Length	upto 12.0 meter
Thickness Range	0.30 - 0.80 mm

Advantages

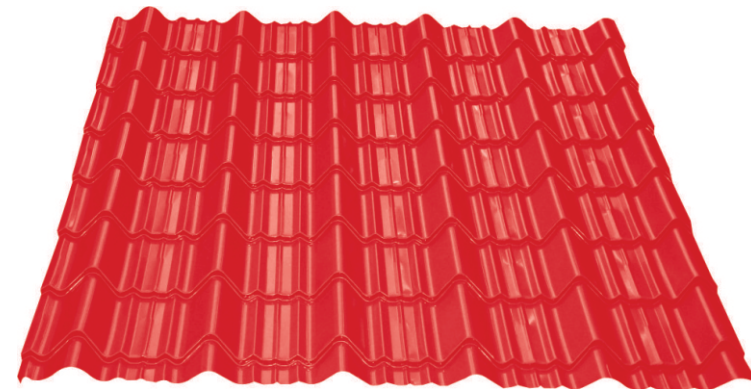
- ★ Easy and faster to install, thereby cutting down on project time.
- ★ Light weight there by putting lesser load on structure.
- ★ Weather proof.
- ★ Offers wide range of design choices.
- ★ Aesthetically good looking.
- ★ Fire resistant.
- ★ Eco friendly.
- ★ Better scrap value.

Material Specifications

Pre - Painted Galvanized Steel Sheets (GI - Base)
Hot dipped galvanized pre - painted steel sheet
Zinc Alum Steel Sheet (Galvalume) Non-colour
(55% Aluminium 43% Zinc 1.6% Silicon)
Alu Zinc coating : AZ 150 (Option AZ100)

Tile Profile

Our Tile roofing profile is the most versatile roofing product in the market and offers you both elegance and flexible design for any building need.



PARAMETER	DIMENSIONS
Tough Depth	28mm
Pitch	200/250mm
Length	upto 6.0 meter
Thickness Range	0.30 - 0.80 mm

Advantages

- ★ Economical Roof Profile with Excellent design flexibility .
- ★ 250 mm pitch for easy water shedding.
- ★ Available in 0.47, 0.50, 0.55, 0.60mm thickness.
- ★ Cover width Rib in 1010 mm available upto 13 m in length.
- ★ Special side lap corrugation gives extra support at panel overlap

Material Specifications

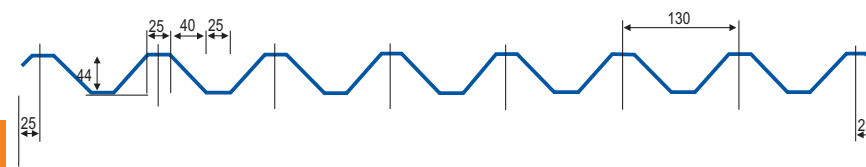
Pre - painted Galvanized Steel Sheets (GI - Base)
Hot dipped galvanized pre - painted steel sheet
Zinc Alum Steel Sheet (Galvalume) Non-colour
(55% Aluminium 43% Zinc 1.6% Silicon)
Alu Zinc coating : AZ 150 (Option AZ100)

Structural Decking Profile - 44/130 MM

44/130 mm Decks are manufactured from test quality of CR Coils as per IS:513 apart from these material, 44/130mm sections can be rolled from galvanized sheets, Pre-colour coated and bare galvalume sheets. 44/130mm Sections are manufactured in thickness of 0.5mm, 0.6mm, 0.63mm, 0.8mm, 1.00mm, 1.25mm, 1.6mm. 2.00mm and are available in any standard lengths as per customers requirement subject to transport restrictions (upto maximum of 12mtrs length)

Material

Steel Deck is produced from galvanized and colour coated products as per IS : 513, IS : 277, IS : 14246 and AS:1397-G300-AZ-275



Advantages

- ★ Ease of installation
- ★ Steel floor deck provides a stable working platform instantly
- ★ Steel floor deck arrives on site in lightweight sheets, cut to length
- ★ Easy to fix using studs, clips and screws
- ★ When installed the deck acts as a diaphragm
- ★ Thinner, lighter slabs

All dimensions are in millimeter

Cee & Zed Purlins

Cee & Zed Purlins are structural members designed and produced using the advanced technology, quality and customer oriented services, for use as secondary supports for economical roof sheeting and wall cladding systems in any type of building with following added advantages :-

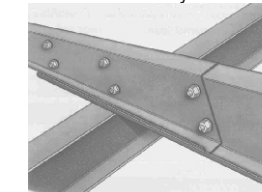
- Continuous splay or splicing for better structural strength, Stability & Economy.
- 45° Lip for better sectional modulus and easy nesting. These are supplied in required length with pre-punched holes for quick bolting. The system gives an excellent strength to weight ratio with flexibility for specific Size requirement.

Surface Treatment

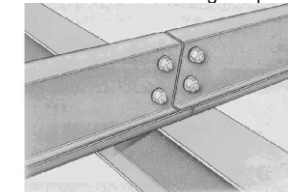
Zed and Cee perlines are made of Hot Rolled Coils are degreased, phosphated and then primer finished with Zinc Chromate Red Oxide Paint- matching test requirement of IS : 4777 and IS : 2074. **Special treatment to combat severe atmospheric corrosion can be offered..**

SYSTEM OF CONNECTIONS

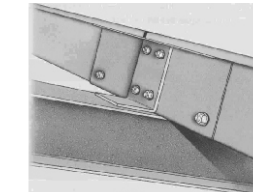
There are three systems of connections based on design of purlin and its connections :



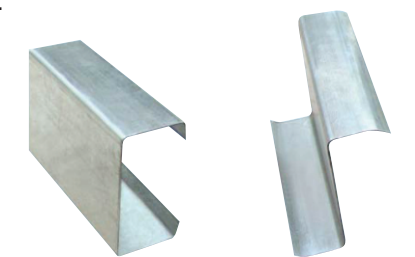
Overlapping



Butt Connection

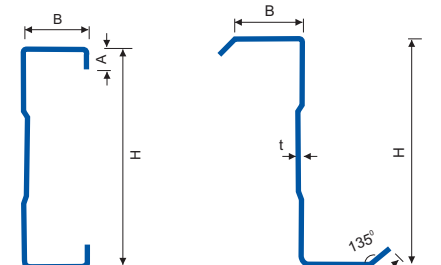


Sleeve Connection



Cee

Zed



A : Lip B : Flange H : Height T : Thickness

These prefabricated structure are conceptualized and developed with flexible design / layout options suitable for multiple usages particularly suitable for living habitat with integrated services, which can be customized to maintain comfortable conditions inside the buildings. Our design and production team are capable of developing your shelter needs for any design and application. We manufacture Shelters/barracks with and without steel superstructure to meet customer requirements

We offer :

- PUF Insulated Shelters / Barracks
- High Altitude Habitat
- Ultra Light Weight Structures
- Ground+1 PEB Structures with PUF Insulation
- Bullet Proof Shelters and Permanent Defense (PD)
- Aircraft Hangers
- Industrial Buildings and sheds - Low Cost Row Housing / Re-habilitation Colony
- Cement Sheet Panels with Core & EPS

Company is registered

with

DGS&D



Today when Land requirement the main concern the Double storey Prefabricated structures are new innovated solution for the fast paced and ever hanging requirement of the global industry. These modular structure are specifically designed & manufactured in order to ensure easy Portaility & installation. Shilpkar manufacture these structure in combination of materials in compliance with client requirement & international standard

USP : Superior Design, Lasting Finish, Comfortable, long lasting, Termite resistance, Leak Proof, proper ventilated, Cost effective, Light in Weight, easy to assemble, combination of different Architect finish.

Prefab structure Consist of the following combination:

STRUCTURE :

Specially designed rolled section & MS fabricated Structure to provide strength & stability.

WALL :

Wall are made from thick insulated sandwich panel for Good thermal and acoustic Insulation for comfortable Ambiance

ROOF :

Roof are designed for stable, easy access & easy maintence with thermal insulation.

FLOOR :

These are subjected to client requirement & site condition could be civil, False raised flooring, made from different material e.g. Cement Board, Puf with Ply, MS structure well designed to take specific loads.

DOOR & WINDOWS :

All door & window are Architectly selected to suite the requirement made from Aluminum, MS steel, UPVC section, Powder coated sections.

SANTITARY :

could be selected from available wide range

ELECTRICAL :

All Points for Light, Air conditioners, Fans are provided for ready to use.



School Building



Double Story Control Rooms

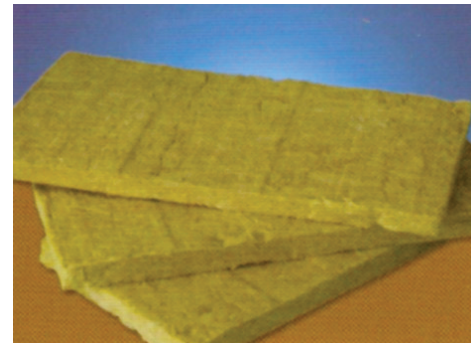


Double Story Township



Reflectix Insulation

Resin Bonded Slab Consist of Long fine fibre spun from molten natural rock and bonded with thermosetting resin slabs have best combination of thermal insulation, Fire protection and sound absorption properties.



Rock Wool Insulation

Resin Bonded Slab Consist of Long fine fibre spun from molten natural rock and bonded with thermosetting resin slabs have best combination of thermal insulation, Fire protection and sound absorption properties.

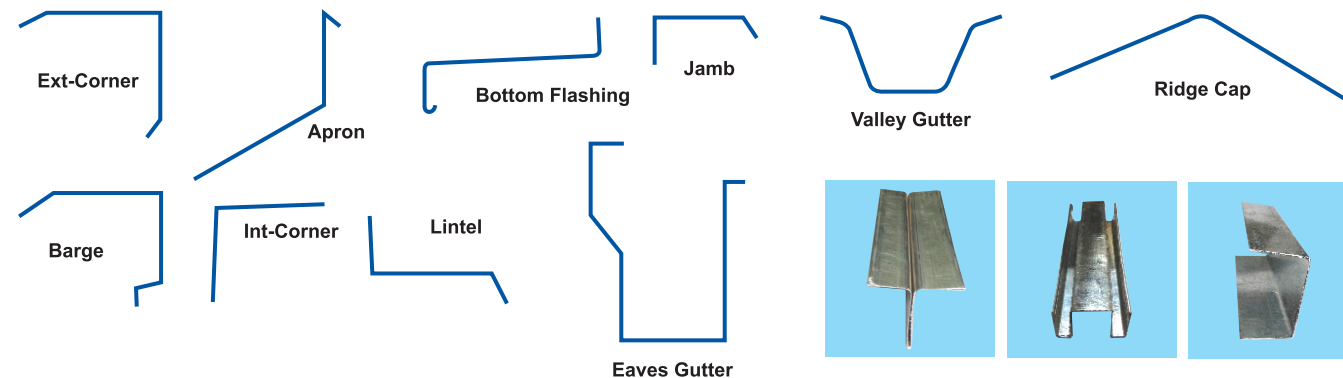


Glass wool Insulation

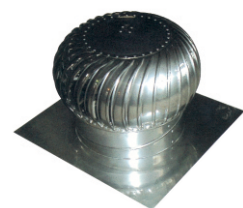
uses vertical-hair-shaped glass wool as inner side, colored steel sheets as outer side, after formed by automatically machine, then adhered with super glue. It is good in fireproofing because colored steel sheet and rock wool doesn't flame. It is suitable to be used as roof tile and wall panel in large-size factory

Accessories

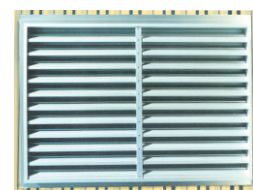
FLASHING, TRIMS, RAIN WATER ACCESSORIES & COLD FORM SECTIONS



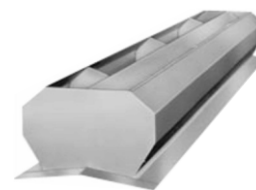
VENTILATION SYSTEMS



Wind Driven Roof Vents



Wall Louvers Vents



Ridge Ventilator

Anchor Bolts, Structural Fasteners, Self Drilling Screws, Stich Fasteners,



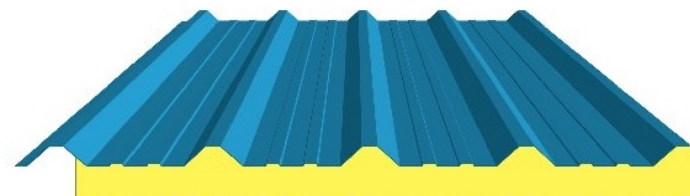
PUF Panel is state-of-the-art Polyurethane, developed exclusively for the tropical climate. Polyurethane foam is the result of a reaction between two liquid components - Polyol and MDI (Methyl diphenyl diisocyanate) – which produces air-filled microcapsules.

The key advantages of PUF (polyurethane) over conventional elastomers and plastics; it is stronger, tougher, more durable, and more versatile. It's valued above the parts made with other conventional materials which often crack, break, tear, swell, deteriorate, and abrade. As a result, they can interrupt and slow down your business operation.

These are normally available in PPGI sandwiched options of varying length. PUF applications can found in cold rooms, refrigerated vehicles, Green buildings, warehousing and storage applications and low cost housing.

As per the requirement Sandwiched PUF panels of different thickness and length can be manufactured with consistence chemical and physical properties as per relevant national and international standards. . These PUF Panels are used in insulated buildings as Wall, Floor, and Roof Panels.

Roof Panels



Wall Panels



Structural Integrated Wall Panels



Building Example

Material :

1. The thickness of up/lower steel panel: 0.35-1.2mm colour-coated panel/zinc plate, hot galvanized plate/stainless steel panel
2. Core material---The density of PU is : 40kg/m³
3. Side steel strip or not: 0.35-0.8mm galvanized plate

Specification :

1. The suitable interface width: 950mm, 1150mm & Thickness : 40mm-120mm
2. Surface protection : PVC foil

Usage :

This kind of sandwich panel can be used in steel structure workshop, easy building and air clean room as walls, ceilings.

Our Cold Room are configured to specific space and volume requirements. We offer rooms from small size to very large refrigerated warehouse. We have a variety of cooling/freezing options that specifically, cater to the requirement of various goods and perishable food items that require cold storage. Our engineering and technical support staff assists architects and consultants in configuring the units that meet energy applications. In other words, we custom design the cold rooms with concise drawings, unit specifications and advise methods of preservation of different products. Each of these Cold Rooms consist of precisely engineered components that are designed keeping in mind durability and reliability during usage



Cold Storage Warehouse



Walking Cold Rooms

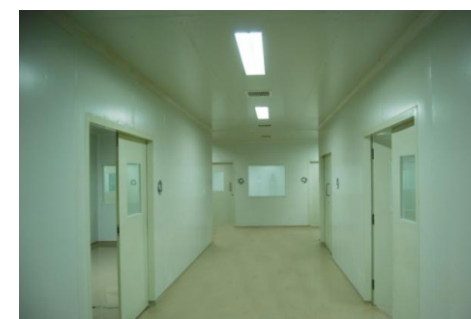
Shilpkar gained expertise in designing, manufacturing, installing and maintaining a wide assortment of telecom shelters for accommodating sensitive telecom equipment. telecom shelters are self supporting with metal puff sandwich panels and specially designed doors. Our shelters are corrosion resistant, dust and dirt proof and provide protection to high value telecom equipment. The specifications are in line with the Customer requirements. The shelters are well ventilated, which helps to maintain a comfortable environment considering the heat generated by enclosed equipment and environment temperature variations. Our Telecom shelters are offered at industry leading prices and come with warranty against any manufacturing defect.

- High thermal resistance
- Reinforced floor panels
- Additional roof to provide slope
- Complete security
- Air and water tight to achieve IP54 level protection
- Long life with zero maintenance
- Mortice lock and stainless steel hinges
- Torque groove configuration with in-built unpickable eccentric camlocks



Telecom Shelters

Other Applications



Office Internal Partition



Walkable Ceiling



Moveable Site Office

Various customised structures to meet end user requirements

- Covered Assembly
- Covered Stadium
- Space frame
- Roof Top Extensions
- Petrol Pump Canopy
- Club house
- Fencing
- Parking



Petrol Pump



Watch Tower



Covered Assembly (Kadirpur)



Personal Parking



Club House



Covered Stadium (Tigri / Ghitorni)



Before



Space frame (sanjay AKG)



Fencing

Shilpkar offers variety of sturdy & secure shelters for defence application that are easy in handling, installing & Transportation.

- Bullet proof Bunkers (PD)
- Watch towers

- Fencing
- Barracks (single & double storey)
- Shelter with steel foundation



Working in Extreme Conditions



Bunkers



CSD Canteen



Double Storey Building



Raised Ground



Prade Ground