



# DIGNUS INFRA PRIVATE LTD.

(AN ISO 9001 : 2008 CERTIFIED)

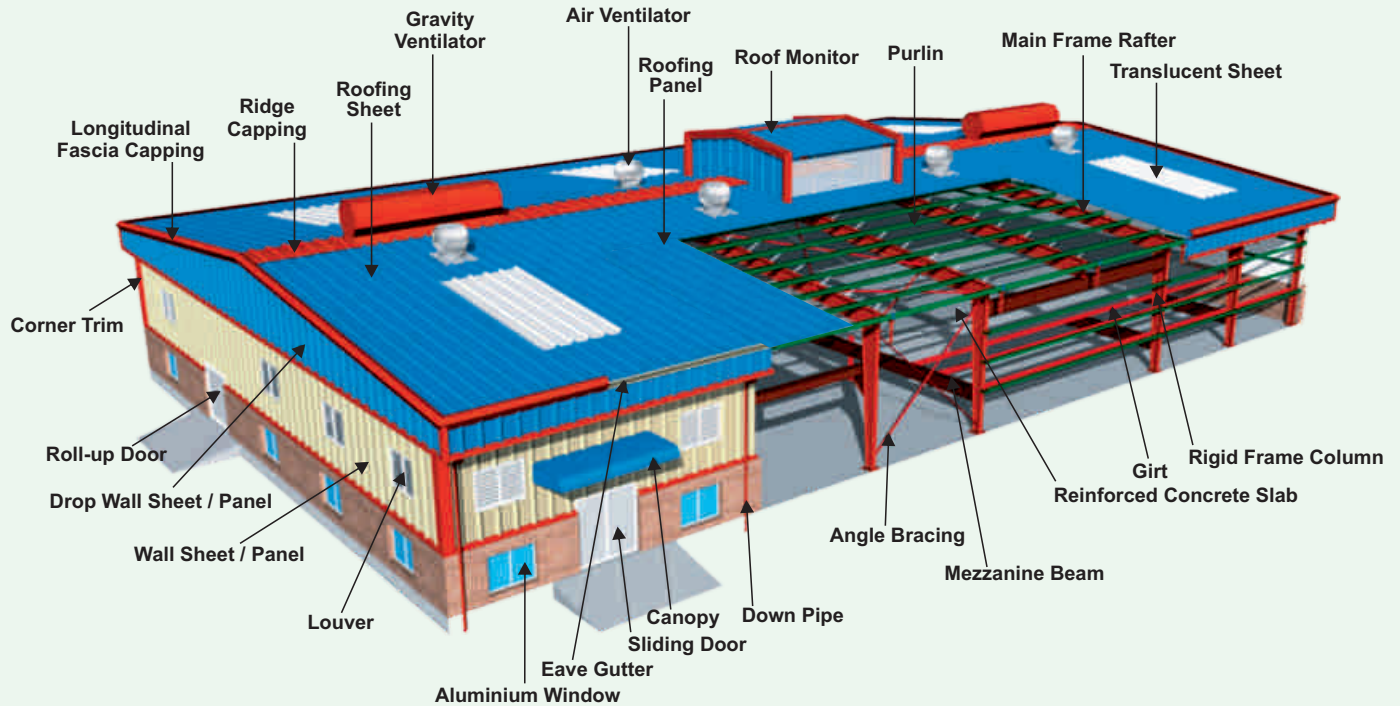
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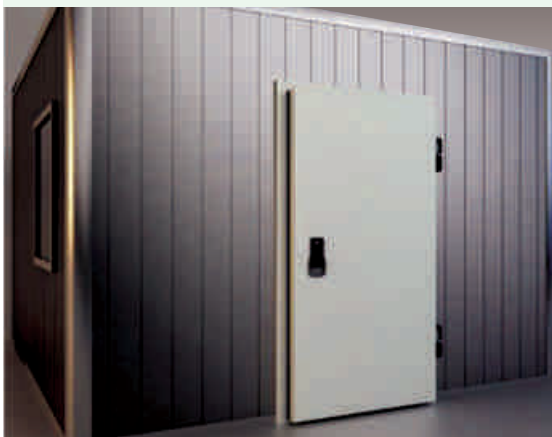
**PUF Panel RO Shelter**



**PUF Panel Cold Room**



**PUF Panel Clean Room**



**PUF Panel Walking Cold Room**



**PUF Panel Living Shelter**



**Crimp/Curved Profile Sheet**



## **COMPANY PROFILE**

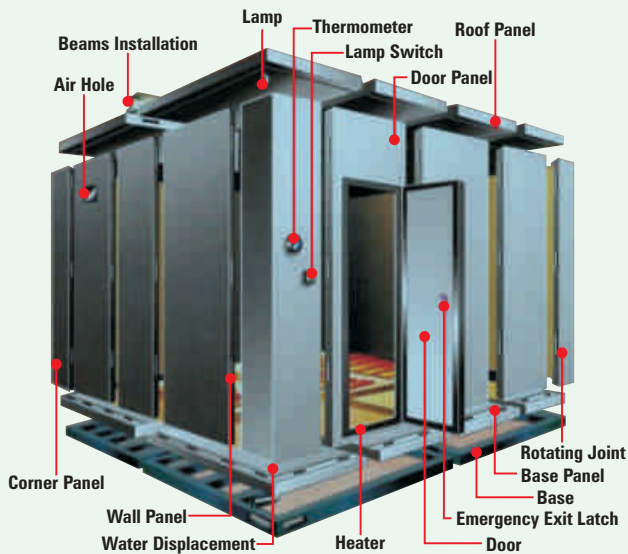
*The foundation of Dignus Infra Pvt Ltd have been set up by a team of real professionals having experience not only in manufacturing mechanism but also actual implementation at ground for construction of Buildings specifically for energy conservation which is now necessity for the nation.*

*Promoters of this company themselves are actual working hands for the company to achieve highest level of standards of products as well as real complicity involved during implementation.*

*To achieve economized products standard this team of professionals has specifically designed various machines and got it manufactured from reputed manufacturing agencies across the world.*

## **COMPANY PRODUCTS**

- 01) DIGNUS PUF/PIR PANEL
- 02) DIGNUS ROOFING PANEL
- 03) DIGNUS HI-RIB PROFILE
- 04) DIGNUS TILE PROFILE
- 05) DIGNUS KLIPLOCK PROFILE
- 06) DIGNUS DECKING PROFILE
- 07) DIGNUS CRIMP/CURVED PROFILE
- 08) DIGNUS ROCKWOOL PANEL
- 09) DIGNUS PUF/PIR PIPE SECTION
- 10) DIGNUS PUF/PIR SLAB
- 11) DIGNUS PUF/PIR PIPE SUPPORT



## DIGNUS PUF/PIR PANEL SYSTEM

At DIGNUS Infra, we manufacture PUF/PIR Panel System to meet every single requirement of latest need of the industry for Energy efficient constructions for Modern Cold Storage, Blast Freezer, Deep Freezer, Porta Cabins, Living Shelters, Industrial and commercial buildings, Schools / Institutions, Clean Room Enclosures & Insulated buildings for various purposes. We understand the need of PUF/PIR Panel for CA Stores, Telecom Shelters & RO Shelters for housing sensitive equipments and construction of Refrigerated Vans etc. Prefabricated, Pre-insulated Sandwich Panel comprising of closed cell, CFC free - Polyurethane foam insulation core sandwiched between two metal facing sheets. The surface of the steel sheets has plain and light grooves to

enhance their strength as well as to provide aesthetic appearance. The metallic facing sheets are plain with intermediate small ribbed finish. Dignus PUF/PIR Panels ensures extra strength, weather tightness, better overlap, corrosion resistance, light weight, low maintenance, good aesthetics, quick installation and long durability.

### TECHNICAL SPECIFICATION OF PUF/PIR & ROOFING PANELS:

Thickness	30mm to 200mm	 
Insulation	Rigid CFC Free Close Cell Polyurethane Foam/PIR	
Density	40 ± 2 Kg/m <sup>3</sup>	
Compressive strength at 10% deformation	2.1 Kg/cm <sup>2</sup>	
Tensile Strength	3.7 Kg/cm <sup>2</sup>	
Bending Strength	4.0 Kg/cm <sup>2</sup>	
Adhesion Strength (Between Foam & Steel)	2.9 Kg/cm <sup>2</sup>	
Closed Cell Content	90-95%	
Temperature Range	-180°C to +110°C	
Thermal Conductivity at 10°C (Design Value 0.020 K-cal/m-hr°C or 0.023 W/m-K)	0.018 K-cal/m-hr°C	
Fire Resistance (Horizontal extent of Burn BS 4735)	<125mm	



Water Absorption	0.2% volume at 100% RH
Water Vapour Permeability (at 90% RH & 38°C)	0.08-0.12 gms/hr m <sup>2</sup>
Width for Wall / Roof panel	1170 & 1190mm / 1000mm
Jointing	Tongue and groove with in-built Camlock
Maximum Length	9500mm (can go for higher length with vertical joints)
Surface finish	PPGI, Alum. Foil, SS, GI, Galvalume, Craft Paper
Type of Panels	Roof and Wall
Corner Panel	DIGNUS also provide Corner Panels to act as main structure element
Self Extinguishing	As per IS: 11239
Conforms to Class-I surface spread of flame	As per BS: 476 Part-7
Conforms to classified as Not Easily Ignitable	As per BS: 476 Part-5



**DIGNUS** provides an international quality & various choices of doors, hatch windows & viewing glasses. We are manufacturing sliding, overlap & flush type doors using imported heavy duty locks & hinges, operated manually or mechanized with & without electric heating coil system to prevent freezing of gaskets in the standard size of 1100x2100mm. Doors of other dimensions are also available on request by client. We are having tie-up with various reputed manufacturer of Door Kits to meet the requirements of various industries.



Insulated Overlap Door



Insulated Sliding Door



Insulated Flush Door

## DIGNUS ROOFING PANEL SYSTEM



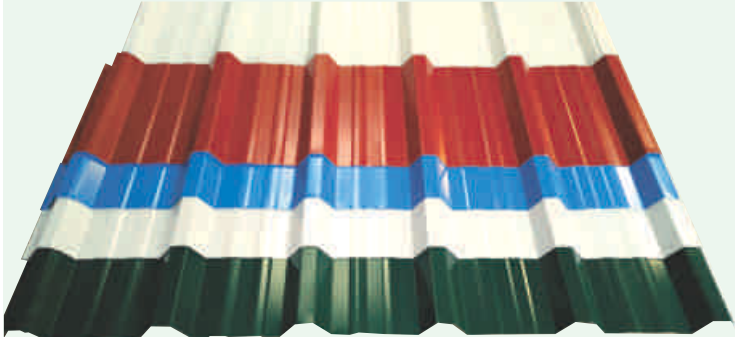
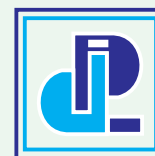
Refrigerated Van

DIGNUS Infra is a leading manufacturing company providing a range of Prefabricated, Pre-insulated Sandwich Panel comprising of closed cell, CFC free - polyurethane foam insulation core sandwiched between two metal facing sheets. The metallic facing sheets are plain with intermediate small ribbed finish on inner skin and DIGNUS Hi-Rib sheet as outer skin. These are designed to withstand the quirks of nature and the vagaries of time. Ideal for roofing in construction of energy efficient Warehouses, Industrial Buildings, RO shelters, Living Shelters & Educational Institutes etc. These are designed using latest technology thus serving with best performance even in extreme weather conditions.

### KEY FEATURES FOR PUF/PIR PANEL & ROOFING PANEL:

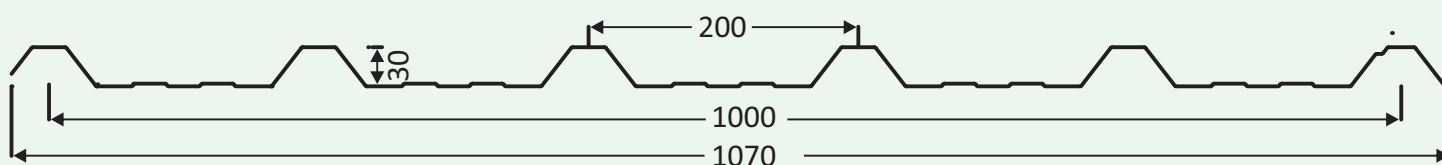
- ❖ Excellent & durable thermal insulation that results in perfect working environment.
- ❖ High pressure foaming machine for PUF/PIR Insulation.
- ❖ Dimensional stability.
- ❖ Ensures easier installation.
- ❖ High load bearing capacity at low weight.
- ❖ A high strength to weight ratio, with significant savings in steel work and load bearing foundations, allowing large spans to be constructed with no intermediate columns.
- ❖ Capacity for rapid erection without lifting equipments.
- ❖ Both side metal facing gives durability as compared to concrete.
- ❖ No problems related to condensation.
- ❖ Aesthetically ingressive facing materials that assure architectural uses & guaranteed for long life.
- ❖ High Thermal efficiency ensures low heat transmission resulting in saving of energy in Air Condition, Cooled & Heated Building.
- ❖ No deterioration of thermal efficiency over time.
- ❖ Available in customized length as per requirement to reduce number of joints & installation cost.
- ❖ Much thinner & efficient than traditional walls, hence increased floor space.
- ❖ Virtually zero maintenance cost throughout the years.

**WE ALSO MANUFACTURE PIR CFC FREE PANELS SUITABLE FOR WALL, CEILING, ROOFING & CLADDING AS PER CLIENT REQUIREMENT.**



## DIGNUS HI RIB PROFILE

DIGNUS Hi-Rib Profile sheets are produced on state of the art machines, we ensure that the products offers an extra strength and perfect over-lap so as to provide a high degree of weather protection & corrosion resistance while at the same time being aesthetically appealing & cost effective. Our profile is a Light weight wide span trapezoidal shaped roofing profile designed to give aesthetic and economic solution & to take long span in horizontal & vertical application making it the most preferred profile for architects across the world. We recommend the minimum roof slope for the installation of this profile as 3° (1:20). The sheets are custom rolled to any transportable length. Anti capillary side lap grooves with butyl sealant tape makes it leak proof from water and dust. It provides scientific solutions for roof & side walls of industrial as well as commercial buildings. It is provided with the precisely engineered "Rib and Flute" designed to ensure wide spanning and quick recovery after being subjected to excessive loads.



SPECIFICATION:	
Trough Depth	30mm ± 2mm
Pitch Centre to Centre	200mm ± 2mm
Supply Width	1070mm
Cover Width	1000mm ± 2mm
Thickness	0.4mm to 0.8mm
Material	GI, PPGI, Bare Galvalume, PPGAL
Yield Strength	240mpa, 345mpa, 550mpa
Paint Coating	Regular Modified Polyester (RMP), Silicon Modified Polyester (SMP) & PVDF Coating
Standard Conformance	AS:2728, AS:1397, IS:14246, IS:513, IS:277

**Note :** We can also provide Polycarbonate & FRP Sheet matching to our above profile.

### KEY FEATURES

- ❖ Positive side Rib Anti-capillary flute for easy flowing of stacked water.
- ❖ Excellent coverage area as designed.
- ❖ Custom cut lengths to prevent wastage.
- ❖ High performance sheeting with excellent corrosion resistance.
- ❖ Attractive Colours & Flexible Designs.
- ❖ Fast erection & extra support.
- ❖ Excellent water shedding capacity.
- ❖ High strength to weight ratio for excellent structural properties.
- ❖ Resistance to extremity of weather.
- ❖ Very low maintenance cost.
- ❖ Environment friendly & fire proof.
- ❖ Common use: Roofing solutions in Industrial, Commercial and Domestic applications.

### INSTALLATION

The fixing is easier and fast, since it covers more area per sheet. The full side-lap corrugation gives extra support at the end overlap for workability during erection and a better fitment for weather tightness. Roofing sheets are crest fixed using SDST Screws no. 12-14 x 55mm long and wall cladding are valley fixed using SDST Screws no. 12-14 x 20mm long for the purlin thickness upto 4mm.



## DIGNUS TILE / KLIPLOCK / DECKING PROFILE

**DIGNUS Tile Profile** sheets are designed and manufactured using high grade raw material under the guidance of our skilled professionals. Tested on several quality parameters, these sheets are perfect for roofing construction. Our product keeps the classical heritage looks of the architecture and also uses the strength of steel. Architects, contractors and building professionals have for long acknowledged metal roofing for its low maintenance, superior weather resistance, aesthetical look and long life. DIGNUS Tile is ideally suited for commercial buildings, tourist resorts, Farm Houses, hotels, residential houses. DIGNUS Tile requires lesser skilled workforce which saves money & assembling time. In order to meet the varied needs of the clients, we offer these sheets in diverse colors and sizes.

**DIGNUS Kliplock Profile** sheets are screw less and can be fixed with the help of clips. Moreover, these are water, heat and fire resistant and serves for a longer period of time. This profile is designed to be fixed to roof or wall purlins in order to have a puncture free roof with concealed fastening. It is a strong, durable and versatile roof. It combines the strength of steel with smart fluted pans and a lock-action rib design for strength & beauty. Even for roof pitches as low as 2° (1:30) where no end laps are used, the interlocking ribs, together with concealed fastening, ensure weather resistance. It is designed particularly for low-pitch roof application. Dignus Kliplock profile is fixed using specially designed clips, for strongly holding the roofing sheets. While using these clips, the lap is placed just clear of and on the high side of the clip. These clips provide allowance for expansion.

**Dignus Decking Profile** sheets are used for composite floor system as well as permanent form work. Steel Deck provides a permanent form support due to its positive reinforcement. These sheets are manufactured utilizing high grade raw material in compliance with international standards. The offered sheets are available in various specifications and can be customized as per the specific demands of our valued clients. Owing to their accurate dimensions, perfect finish, high strength and durability, these sheets are highly demanded in the industry. We use pre-painted galvanised and HR/Cr/Galvanised steel of premium producers. It is a high depth roofing metaldeck profile, available in standard finishes.

SPECIFICATION:	TILE PROFILE	KLIPLOCK PROFILE	DECKING PROFILE
Trough Depth	30mm ± 2mm	40mm ± 1mm	44mm ± 1mm
Pitch Centre to Centre	200mm ± 2mm	218 ± 2mm	130mm ± 2mm
Supply Width	1085 ± 5 mm	460 ± 4mm	880 ± 5 mm
Cover Width	985mm ± 5mm	436 ± 4mm	780mm ± 5mm
Thickness	0.4mm to 0.8mm	0.4mm to 0.6mm	0.6mm to 2mm
Material	GI, PPGI, Galvalume, PPGAL		
Yield Strength	240mpa, 345mpa, 550mpa		
Paint Coating	Regular Modified Polyester (RMP), Silicon Modified Polyester (SMP) & PVDF Coating		
Standard Conformance	AS:2728, AS:1397, IS:14246, IS:513, IS:277		

### KEY FEATURES

- ❖ Architecturally Attractive look adds aesthetic look & durability to the building.
- ❖ Highly Resistant to fire and to all weather conditions & Environment friendly as metallic base.
- ❖ Saves time and labour cost in installation.
- ❖ Does not break, crack or leak for longer time.
- ❖ It also eliminates problems of pest infestation and rot that occur with wood and clay roofing materials.
- ❖ Custom cut length to prevent wastage.
- ❖ Sheds Snow and Ice at high altitudes in winter and is energy efficient in summer. Unbeatable hurricane, hail, and all-weather resistance.
- ❖ Light weight & cut to length gives easy fixing of studs, clips and screws which prevents wastage.
- ❖ High performance sheeting with excellent corrosion resistance.
- ❖ Common Use: Roofing solutions in industrial, commercial and domestic applications.

#### KLIPLOCK PROFILE

- ❖ Positive side rib interlocking with concealed klips to give more strength & Long deck lengths to cover maximum area.
- ❖ High water carrying capacity due to valley depth.
- ❖ Concealed Fastening- no fasteners penetrate the profile resulting increasing the life of sheet.

#### DECKING PROFILE

- ❖ Special rib design, making deck a structural member in itself, permitting a more economical use of steel framework.
- ❖ Reduces weight of concrete floor, so it is very economical and gives high strength excellent structural properties.
- ❖ It provides stable working platform instantly saves construction time and overall cost, safety & accessibility of the project.



## DIGNUS CRIMP/CURVED PROFILE

DIGNUS Crimp/Curved sheets are yet another aspect of creativity having the vertical as well as horizontal transfer for crimping. The Crimp curved is aesthetically pleasing along with better structural elements. Crimping adds strength to roofing, thus making it structural designers favourite. Crimped Roof sheets are supplied in custom lengths. The Crimp further adds to economy by allowing the maximum purlin spacing upto 4 meters, thus minimizing the amount of structural steel cost. The Crimp Curved Sheets are available in Concave & Convex shapes with flats & angle to provide versatility and creativity that bring new and refreshing design to industrial and

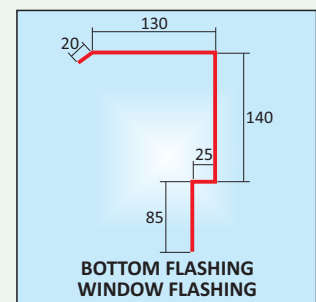
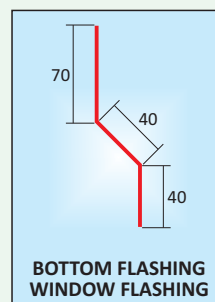
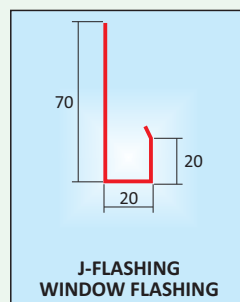
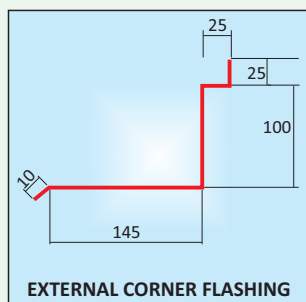
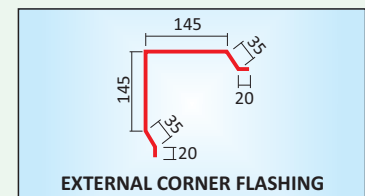
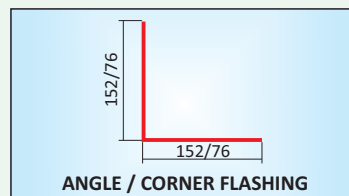
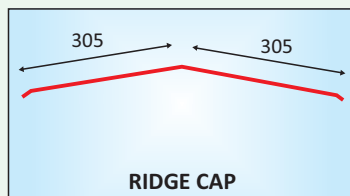
domestic buildings. DIGNUS Crimp/Curved sheets are available in the same colour of the main sheeting of building in PPGI & PPGAL steel. These sheets are having a minimum radius of curvature of 350mm on inside of the sheet. The sheets can be curved upto 3 quarters of a full circle to facilitate proper side overlap. The maximum length of DIGNUS Hi-Rib sheet can be curved upto 12mtr. of maximum height of 2.3mtr. at the centre. The maximum permissible straight distance between two curves shall be 6mtr.

These sheets provide absolute design freedom with significant cost saving in construction, require less supporting framework for parapets and roofs, reduction or elimination of many flashing/cappings, less cladding material required for covering a given curve.

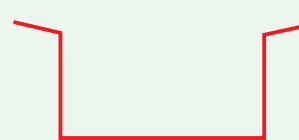
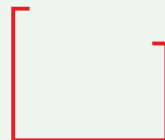
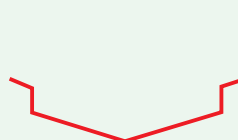
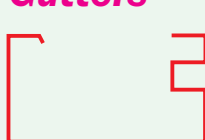
## ACCESSORIES

### Flashings, Ridges, Gutters & Trims

Flashings, Ridges, Gutters, Down Spouts, Copings, Roof Expansion Joint Covers and Trims are produced from the same material (Base metal, thickness, substrate coating, paint finish and color) as of the metal sheet of the building. Precision engineered, factory finished accessories as per site conditions are supplied. All accessories are available in any size in division of 1220 mm overall width and in length upto 2500 mm. Thickness: 0.45 to 0.8 mm



### Gutters



### Foam Fillers



### SDST Screws



### Louvers



### Turbo Ventilators





## DIGNUS CLEAN ROOM PARTITION & DOORS

DIGNUS Infra an ISO 9001:2008 Certified Company provides Clean Room Partition Systems & Doors in compliance with standards & design requirement of a Controlled environment. A type of Clean Room Partition System requirement is dependent on type of process facility and its manufacturing & production standards. Dignus have state-of-the-art manufacturing set-up and capable team which enables it to fulfill such customized requirements for a widely spread customer base.

DIGNUS Clean Room Systems & Doors can be applied to any clean room facility or manufacturing setup requiring controlled environment. These systems can be integrated with new as well as existing systems. Modular and simplified construction methods are used for reducing overall construction time and cost. We offer application specific solutions whether it's new construction or upgrading or modifying the existing facility or system.



### CLEAN ROOM PARTITION

<b>Sheet Thickness</b>	<b>: 0.5mm / 0.6 mm</b>
<b>Surface Finish</b>	<b>: PPGI/ SS/ Alum. Foil / Craft Paper</b>
<b>Infill (Density)</b>	<b>: PUF / PIR (<math>40 \pm 2 \text{ kg/m}^3</math>) &amp; Rockwool (<math>96-144 \text{ kg/m}^3</math>)</b>
<b>Width / Thickness of Panels</b>	<b>: 1170mm &amp; 1190mm as standard. Panel thickness 30mm to 200mm</b>
<b>Panel Length (Maximum)</b>	<b>: Upto 9500mm</b>
<b>Finish / Coating Thickness</b>	<b>: Pre-Painted / 25-30 Micron</b>
<b>Connecting Profile</b>	<b>: Tongue &amp; Groove with optional Camlock for easy &amp; quick installation</b>
<b>View Panel</b>	<b>: Double Glazed Flush view panels made with PPGI frame profile with 5mm thick Float/ Toughened Glass</b>
<b>Riser Panel</b>	<b>: Riser panel having finished with PPGI sheet on both sides having hollow in center (as per panel size) made out of rectangular GI Sheet</b>

**Note : Specifications may change without any prior notice. Please check and confirm all details before placing order.**



## CLEAN ROOM DOOR



DIGNUS Infra Doors are manufactured from galvanized / stainless steel sheets with lock formed edges. Insulated and bounded with Honeycomb Craft Paper / PUF / Mineral Wool forming a rigid flush fitting with innovative flush double glazed finish in epoxy polyester powder coating of 60-80 microns forming a smooth surface finish.

<b>Frame / Leaf Sheet Thickness :</b>	<b>Frame - 1.2 mm / Leaf - 0.8 mm</b>
<b>Infill (Density) :</b>	<b>PUF / PIR (<math>40 \pm 2 \text{ kg/m}^3</math>) / Honeycomb Craft Paper</b>
<b>Finish :</b>	<b>Epoxy Polyester Powder Coated (60-80 microns) / SS304</b>
<b>Door Dimension (width) :</b>	<b>Single Leaf Door upto 1200 mm &amp; Double Leaf Door upto 2400 mm</b>
<b>View Glass :</b>	<b>Single / Double Glazed Flush Glass of 5mm thick (Toughened/Float)</b>
<b>Door Hardware :</b>	<b>SS Ball Bearing Hinges, Door Closer, Dead Lock, Kick Plate, Door Seal, Drop Seal, Back to Back D Handle etc.</b>

**Note : Construction can be tailored to meet the specific requirements.**



### KEY FEATURES

- ❖ Adaptability to varying design & Application needs
- ❖ Designed to meet hygienic & stringent requirement
- ❖ Excellent insulating property
- ❖ Light weight construction & Longer lasting
- ❖ Easy & Quick installation
- ❖ Prevents bacteria growth
- ❖ Flush surface & Easy to clean
- ❖ No pressure leakage
- ❖ Concealed electrical fittings

### APPLICATIONS

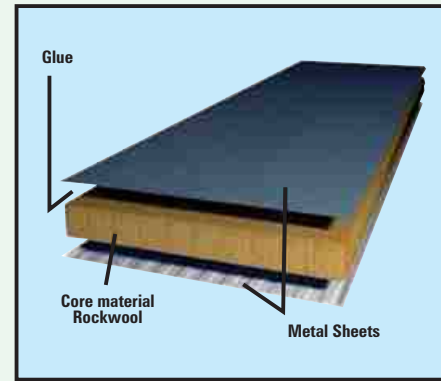
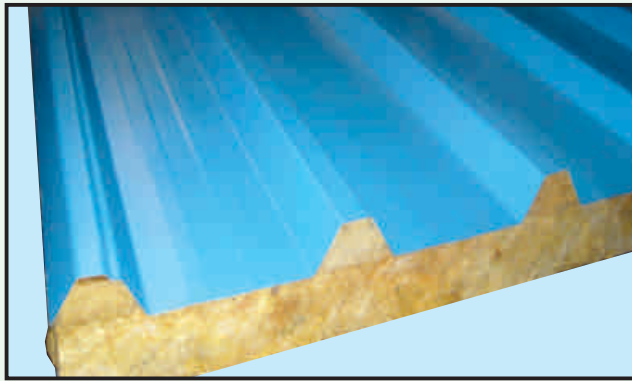
- ❖ Pharmaceutical
- ❖ Healthcare Industry
- ❖ Food Processing
- ❖ Electronic
- ❖ Semi-Conductor
- ❖ Telecommunication
- ❖ Defence
- ❖ Automotive





## DIGNUS ROCKWOOL PANEL SYSTEM

DIGNUS Rockwool Panel System comprises of pre-fabricated composite sandwich panels with high density Rockwool converted to Lamellar as core and profiled / plain colour coated Galvanised Steel / Galvalume steel sheet facing on both sides, complete with joint sealants and fixing ancillaries. These panels adopts fibrous rock wool as the core material, and color steel plate as its surface layers. These panels are resin bonded slabs, which acts as good insulators for sandwich panel system. Moreover, our panels are manufactured using excellent basic material and have good thermal & acoustic properties. High in compression strength, these panels are recyclable, fire and water resistant. DIGNUS Rockwool Panels can be supplied in lengths upto 8.50mtr. and are available in a standard width of 1mtr. and in various thickness to suit the Industry requirements. Since Dignus Rockwool panels are fireproof, heat insulated and sound insulated, they are widely used to construct roofs and walls of industrial buildings and civil buildings. They are especially suitable for use in buildings that require a high degree of being fireproof.



DIGNUS Rockwool Panels come with concealed fixing system arrangement for cladding of buildings and with profiled sheets for Roofing and cladding applications. DIGNUS Rockwool Panels come with plain sheet with Tongue and Groove Joints for construction of hot rooms like Turbine Generator Buildings, DG set buildings, Driers, Ovens etc. There is high strength vesicant between rock wools and surfaces. This product is featured with full anti-firing, heat & sound insulation.

### KEY FEATURES

- ❖ Major saving in energy cost
- ❖ Light weight and easy installation
- ❖ High standard of thermal insulation
- ❖ Can be produced rapidly and on demand in the required quantity and length
- ❖ Can be easily transported to wherever they are needed
- ❖ Lower cost solution compared to traditional building materials
- ❖ Saves construction and maintenance cost
- ❖ Provides durability and long life.

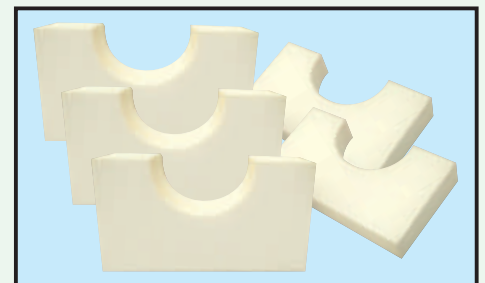
### DIGNUS PUF/PIR PIPE SECTIONS



### DIGNUS PUF/PIR SLABS



### DIGNUS PUF/PIR PIPE SUPPORTS



Rigid close cell CFC free Polyurethane foam available in slab, pipe section & pipe support forms. Temperature ranges from  $-200^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$ . Low thermal conductivity, low smoke emission and low water vapour permeability qualities that are ideal for building and industrial insulation. Conforms to IS 12436 and IS 13205, BS 5608. DIGNUS Puf Pipe Sections have excellent thermal insulation properties and make a valuable contribution towards reducing energy consumption in various industries. Insulated pipe supports are designed to prevent direct heat transfer between pipes and their supports. Thus, they reduce heat loss due to conduction at each support. It remains durable for years, no thermal bridges, high mechanical strength, maintains insulation effectively.



## PROJECTS



**Aim & Ambition** - *Dignus Infra Private Limited maintained the highest level of quality under supervision of technically & professionally qualified personnel. We aim to reach at zero tolerance and no complaint level by maintaining in-house quality control system at different stages during production process.*

*The team of Managers & Engineers of Dignus Infra Private Limited are committed to maintain the aim & ambition of the organisation by their dedicated services to all its customers.*



DIGNUS  
MAIN GATE VIEW



# DIGNUS INFRA PRIVATE LTD.

(AN ISO 9001: 2008 CERTIFIED)



DIGNUS MANUFACTURING UNIT