

Shelter

Our shelters are manufactured and processed by state of art machines conceptualized to provide protection to the high value telecom equipment. Telecom equipments are housed inside the shelter made of PUF sheets panels. The Panels are manufactured at the plant and shipped to site. At site these panels are assembled to make housing for the telecom equipments. This compressed PUF between the galvanised MS sheets makes a panel. A panel is typically specified by PUF thickness, galvanised MS sheet thickness, Dimension of panel. PUF based panels are used for housing telecom equipments because it provides better insulation.

Heat transfers from inside to outside and vice versa is restricted because of efficient insulation properties of PUF. This makes the housing energy efficient and saves huge amount of energy. The use of PUF based panels in shelter being energy efficient makes diesel set to run less than had there been no PUF insulation in panels. Making the DG to run less number of hours causes less pollution and helps protect environment. **Due to its energy efficient and environment friendly properties**, PUF based shelters are widely used in telecom cell site for equipment housing.



Some of the important features:

- High thermal resistance
- Reinforced floor panels
- Air and water tight to achieve IP54 level protection
- Long life with zero maintenance
- High quality locks and stainless steel hinges.
- Insulated Sandwich panel construction
- Cam Lock arrangement for locking the walls
- Colour bond finish
- Hot Dip Galvanized base frame (Optional)
- Vinyl anti-static floor covering
- Construction grade marine plywood floor
- Boot Pad for Wave guide entry
- MS Step Ladder (Optional)
- Cable Tray (Optional)
- Secondary roof



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Our Facilities:

State of art machinery to produce quality PUF Panels.

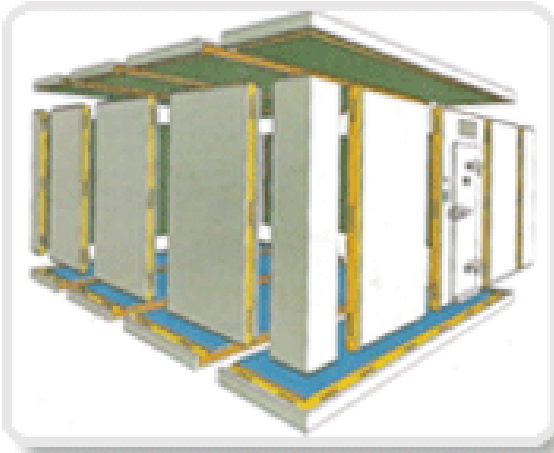
- Well equipped workshop with PUF machine, Hydraulic Press, Chiller Plant, and Compressor
- Well equipped workshop with Numerical controlled shearing machines, numerical controlled bending machines, de coiler and PUF cutting machine.
- In house door fabrication section
- In house reinforced floor fabrication section
- Standby supplies from DG sets
- Loading and Unloading cranes and Pallets

Existing Products: (All dimensions are in mm)

Sl No	Specs.	Shelter Code				
		AS-01	BS-02	DS-04	ES-05	FS-06
1	Size of Shelter	L-3000	L-3600	L-4000	L-3600	L-3000
		W-2500	W-3000	W-3000	W-3000	W-2550
		H-2750	H-3000	H-2700	H-3000	H-2900
2	Door Size	1000	800	920	800	800
		X2000	X1900	X2140	X1900	X1900
3	Cabin Size	NA	D-1500	NA	D-1560	NA
			W-1060		W-1260	
			H-3000		H-3000	
4	Cabin Door Size	NA	1300	NA	800	NA
			X1900 (Double Leaf)		X1900	
5	Sheet Thickness	0.6mm	0.6mm	0.6mm	0.6mm	0.6mm
6	PUF Thickness	80mm	60mm	60mm	60mm	58.8mm
7	PUF Density	40kg/m3	40kg/m3	40kg/m3	40kg/m3	40kg/m3
8	Floor Load	2 T/Sqm.	2.5 T/Sqm.	2.5 T/Sqm.	2.5 T/Sqm.	2 T/Sqm.

A Proto Model of Shelter - Code No. DS04





Parameters	Specifications
b. Opening size	1000x2000mm or as per specifications
c. Inner skin	>= 0.6mm
d. Outer skin	>=0.6mm
e. Thickness	60mm/80mm or as per specifications

Shelter Specifications
 State -of -art product with elegant finish, riveted with flashings, shelter size as per requirement, inner skin >=0.6mm PCGI and outer skin >= 0.6 mm PCGI, panel size 60mm – 80mm, PU density 40 Kg/Cub M, floor load designed for 2000 Kg/ Sq M – 2500 Kg / Sq M, ISMB base optional designed as per loading, Sunshade / canopy, secondary roof with projection all around 100 – 200mm, roof load 200 Kg/ Sq M, permissible wind speed 180 Km/Hr.

Beam	ISMB as per load requirements duly galvanised with accessories i.e. base plates and J bolts.
Silicon sealant	Transparent/ White
Panel locking arrangement	Torque and Groove
Cut out / flashers for AC & ROXTEC	0.6mm/ 0.8mm PCGI
Accessories	Door stopper, Door closer

Parameters	Specifications
Type of Shelter	Walls joined with flashings and rivets
Size	As per customer need. Some common sizes in telecom in mm: 2500(W)x2000(D)x2700(H) 2500(W)x3000(D)x2700(H) 2500(W)x4000(D)x2700(H)
Thickness	
a. Wall Panel	60mm/80mm or as per customer
b. Inner skin	>=0.6mm PCGI
c. Outer Skin	>=0.6mm PCGI
PU Foam	
a. Thickness	>58.8mm for 60mm panel or 78.8 mm for 80mm panel
b. Density	>= 40Kg/ Cub m
c. K Value	0.0214 W/MK
Lock	One No. From standard make, cylinder type
Flashing	0.6mm PCGI for inside and 1.0mm for outside joints
Floor	Floor with 18mm marine ply board and PUF panel 60/80mm with internal reinforcement as per floor loading specifications
Permissible floor loading	2000Kg/ Sqm or 2500 Kg/ Sqm or more as per customer specifications
Door	Integrated door panel with aluminium channel, 100% air tight by rubber gasket.
a. Type	Single leaf

Exposure	Sun light/ Rain/ Snow
Ceiling/Roof	
a. Type	Slanted roof from front to back
b. Slope	20-40 degree
c. Loading	200Kg/ Sqm
Sunshade/ Door Canopy	1200mm wide to cover door, 0.6mm thick PCGI
Permissible wind speed	180 Km/Hr
C- Rail	C- Rail option to fix equipments(Optional)
Door Step Ladder	MS Ladder (Optional)
Anti Static flooring	2.38mm thick three tier anti static mat
Earthing for anti static flooring	Copper foil, 50mm wide, 0.05mm thick laid below 3 layer PVC anti static mat connected with earth at any one point.
Life span from date of installation	15 Years
Aluminium plate with gland and rubber gasket at power cable entry at floor	Available

**Specifications subject to change