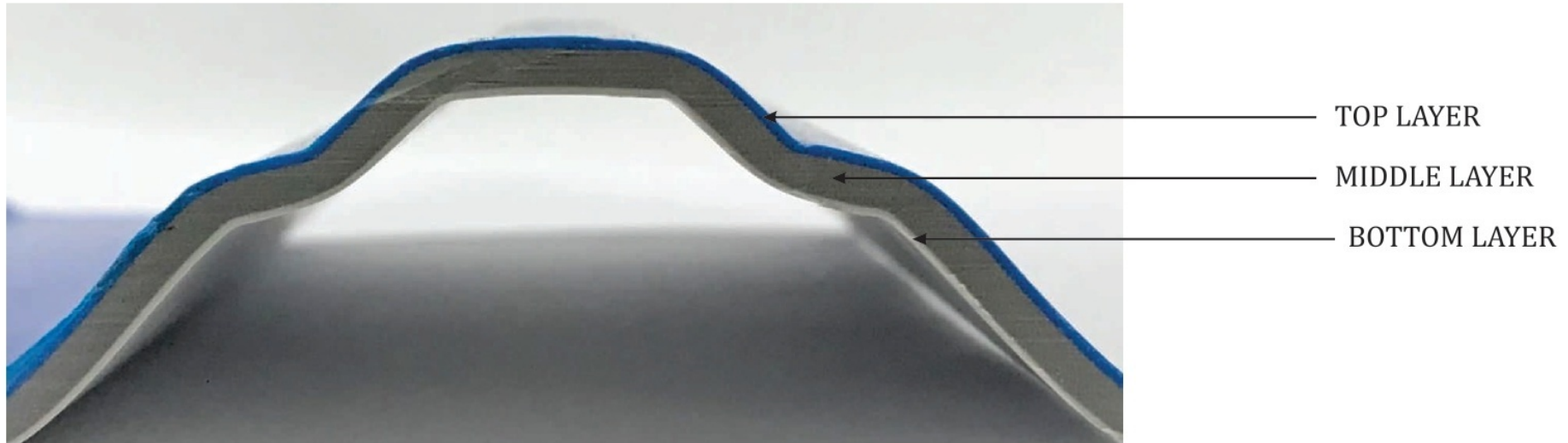


## Features



**Top PVC Layer** - The material is ultra-weather resin, to block the solar ultra violet and reduce the coefficient of heat conductivity, ensure product durability and resistance to chemical corrosion.

**Middle PVC Layer** - Contains uPVC compound with carbon fiber giving to material high rigidity and improved strength.

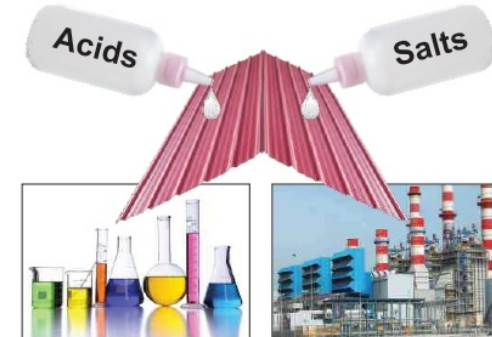
**Bottom layer** - For just a good material toughness special to ensure the strength at the same time, increase the rigidity and light illumination

Co-Extrusion Machinery to give the product their own features and the organically combined to make a new generation of heat insulation uPVC sheet to solve the product durability, corrosion resistance, a sense of space and aesthetics issues.

## Unique Features

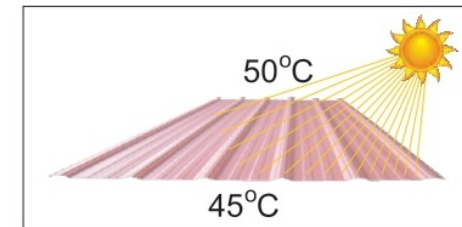
### ⑥ Chemical Corrosion Resistance

uPVC Roofing Material Has An Excellent Resistance To Acids, Alkalis, Salts, Sulfur, HCL, NaOH Solutions Thus Becoming An Absolute Corrosion Proof Material.



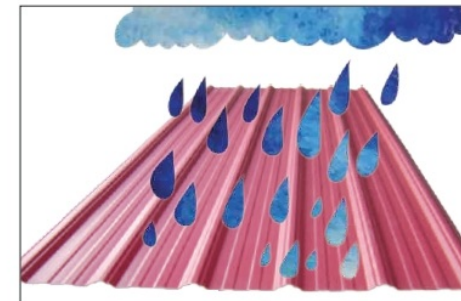
### ⑥ Heat Insulation

uPVC Roofing Sheet have a Very Good Heat Insulation Characteristics by Material The K-Value of Material is 0.1022 W/mK



### ⑥ Sound Insulation

uPVC Roofing Material Provides An Excellent Protection From The Disturbances Of External Sounds And Noise. (Stating for Rain Sound)



## Fire Retardant

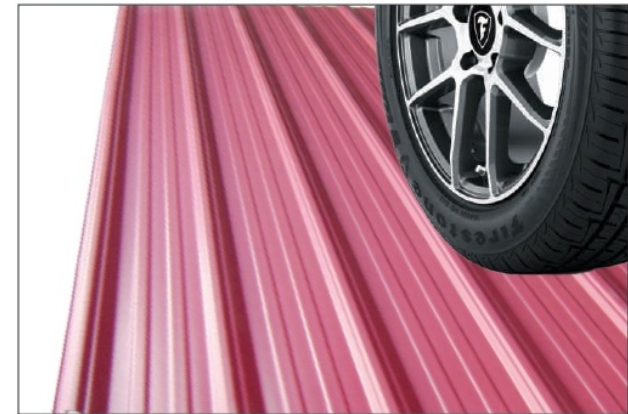
- ⦿ upvc roof sheet is a fire retardant material , as per ASTM it is V0 grade material, The meaning of Fire retardant A fire retardant is a substance that is used to slow or stop the spread of fire or reduce its intensity



uPVC

## Strength

- ⦿ Load Bearing Tests have shown high load bearing capacity of the uPVC roofing material making it a very safe and easy roofing material to install and maintain. roofing also shows high flexural strength.



**Comparative Analysis Between Different Roofing Sheets**

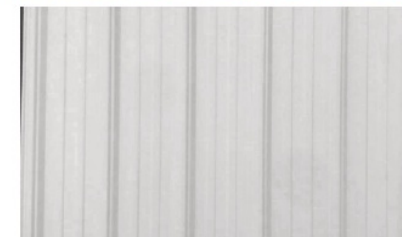
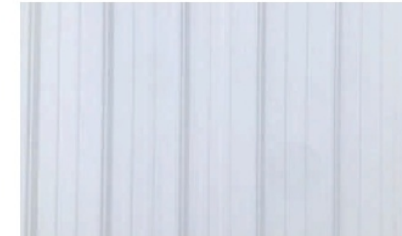
	<b>Metal Roofing</b>	<b>Asbestos Roofing</b>	<b>Ceramic Tile Roofing</b>	<b>Insulating 3 Layer uPVC Roofing Sheet 2 MM</b>
<b>Stability in corrosive environment</b>	Not stable in corrosive environment	Not stable in corrosive environment	Highly stable in corrosive environment	<b>Highly stable in corrosive environment</b>
<b>Flexural Strength</b>	15 MPa	16 MPa	10 MPa	<b>45-55 MPa</b>
<b>Combustibility</b>	Not combustible	Not combustible, but has micro explosions while burning	Not combustible	<b>Not combustible</b>
<b>Thermal Conductivity</b>	15 W/m.°C	0.46 W/m.°C	0.27 W/m.°C	<b>0.102 W/m°K</b>
<b>Weight of 100m2 (kg)</b>	420 kg	1340 kg	5500 kg	<b>340kg</b>
<b>Sound Insulation</b>	Does not provide absorption of the rain, hail, street noise	Provides insignificant absorption of the rain, hail, street noise	Provides significant absorption of the rain, hail, street noise	<b>Provides insignificant absorption of the rain and hail noise</b>
<b>Eco-friendliness</b>	Ecologically clean	Contains carcinogenic asbestos	Ecologically clean	<b>Ecologically clean</b>

## Specification

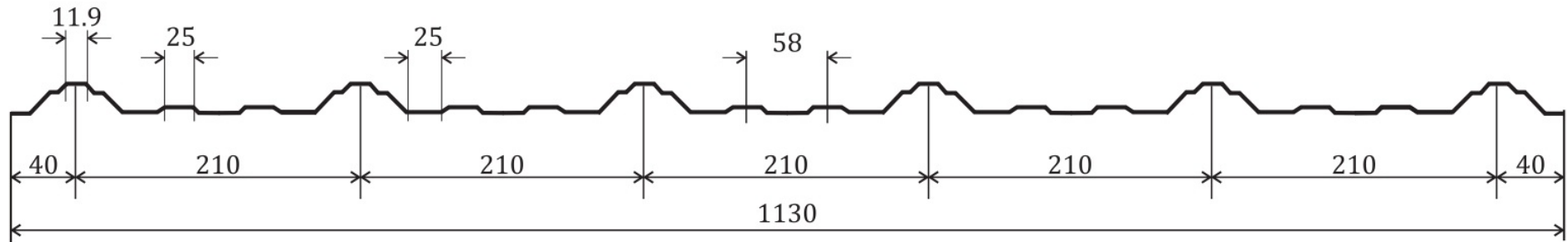
Thickness	1.5 mm	2.0 mm	2.5 mm	3.0 mm
	1.5 feet	2.0 feet	2.5 feet	3.0 feet
Purlin Distance				
Width	1.13 mtr. Standard			
Covering Width	1.06 mtr. for Actual Used			
Length	3.05 mtr   3.66 mtr   4.57 mtr 10ft.   12ft.   15ft. for Bulk order we will give you any length up to 6 mtr.			
Weight	3.4 kg per Sq.mtr. for 2 mm (Aprx.) 5.1 kg per Sq.mtr. for 3 mm (Aprx.)			
Colors	White/Blue/Green/ Terracotta Red / Grey			
Fixing	5 self Drilling Screw per Sq.mtr. must			

### Note :

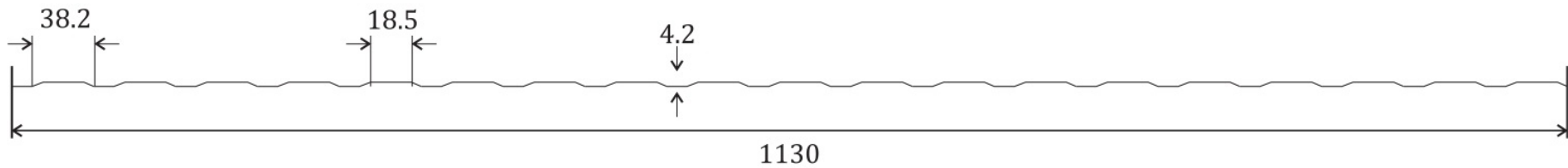
Special Thickness i.e. 3.5 mm is also Available for Who have Purlin Distance above 1.0 to 1.2 mtr.



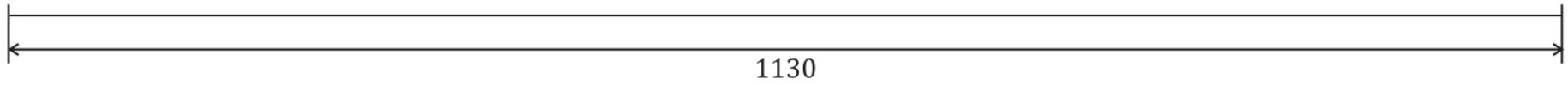
### Trapezoidal Wave Profile Drawing



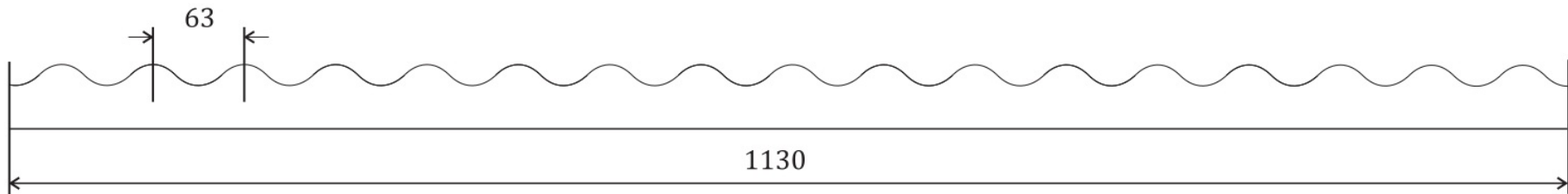
### Wallcladding Profile Drawing



## Plain Profile Drawing



## Round Wave Profile Drawing



**Physical Test Report**

Sr. No	Test	Result	Unit	Standard	Institute
1	Tensile Strength	331.5	Kg/cm <sup>2</sup>	ASTM D 638	<b>CIPET - Ahmedabad</b>
2	Elongation at break	11	%	ASTM D 638	
3	Density	1.52	Gm/cc	ASTM D 792	
4	Vst AT 1 KG. LOAD	86.6	°C	ASTM D 1525	
5	Flexural strength	622.3	Kg/cm <sup>2</sup>	ASTM D 790	
6	Flexural modulus	21850	Kg/cm <sup>2</sup>	ASTM D 790	
7	Izod Impact strngth	41	J/m	ASTM D 256	
8	Water Absorption	0.16	%	ASTM D 570	
9	Rockwell Hardness (® Scale)	70	----	ASTM D 785	
10	HDT AT 66 psi	72.4	°C	ASTM D 648	
11	HDPT AT 264 psi	64.7	°C	ASTM D 648	
12	Limiting Oxygen Index	31	%	ASTM D 2863	
13	Flammabnility	V0	----	UL-94	
14	Long Term Heat Resistance	No Effect	----	ASTM D 794	<b>Alekh Plastics Testing Center - Ahmedabad</b>
15	Weight Loss	ZERO ( @200°C)	----	----	<b>SICRAT - V.V.Nagar</b>



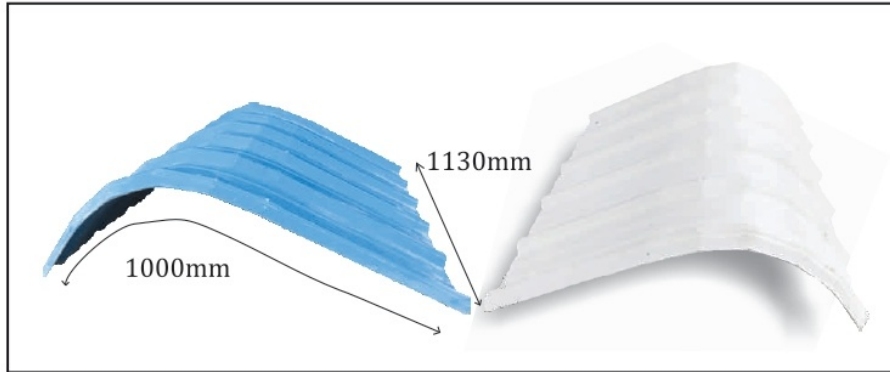
**Chemical Test Report**

Sr. No	Test	Result	Unit	Standard	Institute
1	Chemical Resistance ( in 18% HCL )	No Effect	----	ASTM D 543	<b>Alekh Plastics Testing Center -Ahmedabad</b>
2	Chemical Resistance ( in 20% NaOH )	No Effect	----	ASTM D 543	
3	Chemical Resistance ( in saturated solution )	No Effect	----	ASTM D 543	

**Roofing Accesories**



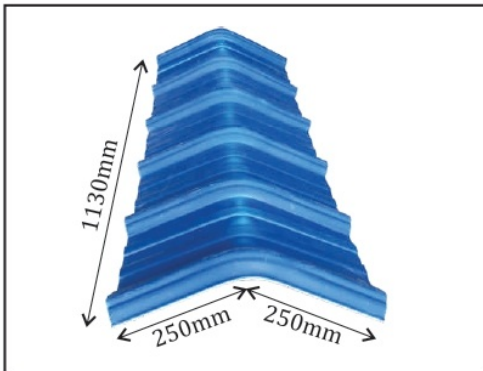
Self Drilling Screw  
(Zink, Zylone, SS)



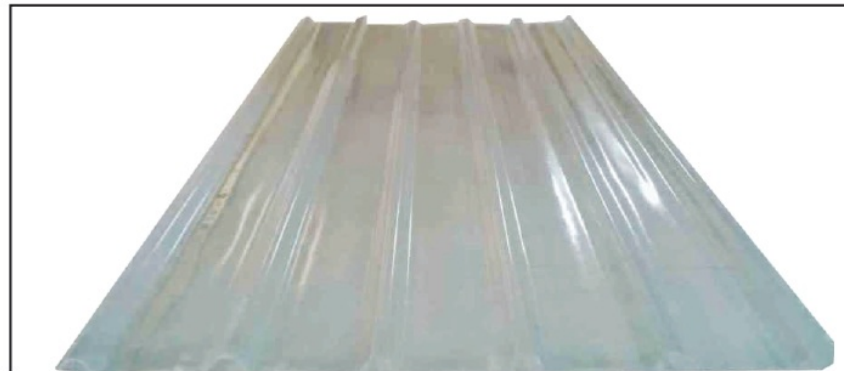
North Right Curve (NRC)(FRP)



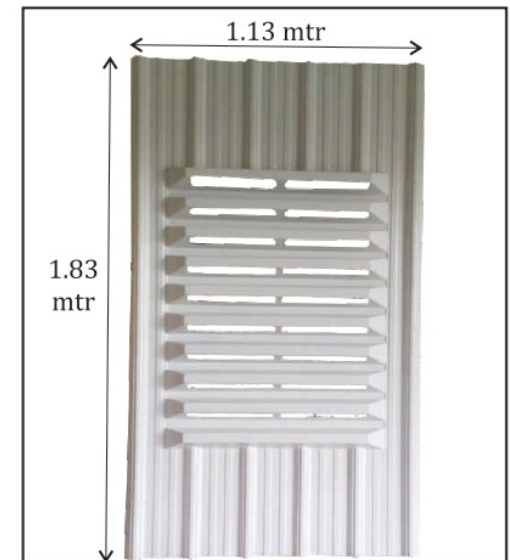
PVC Cape & Washer



uPVC Ridge Matching Profile

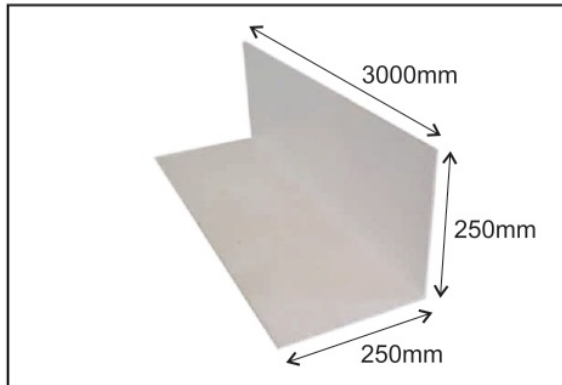


Translucent Sheet (FRP)  
available in Matching Profile & Other Profile Also

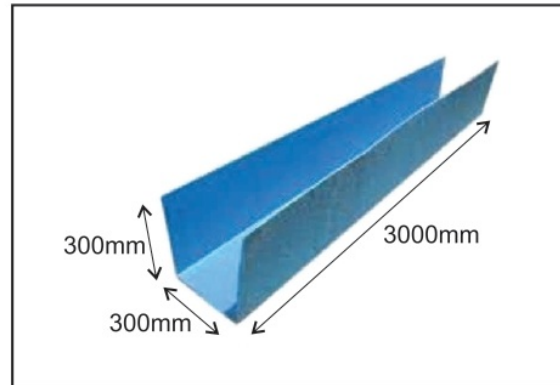


Matching Profile Louvers

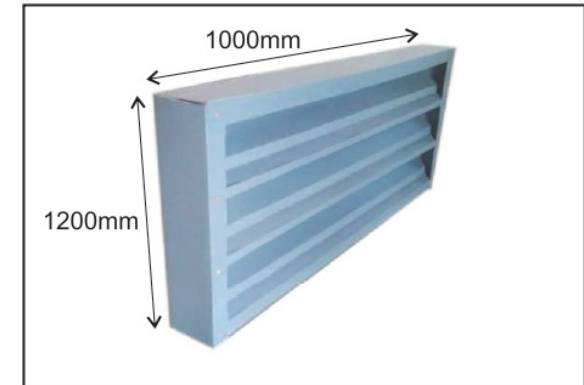
**Roofing Accesories**



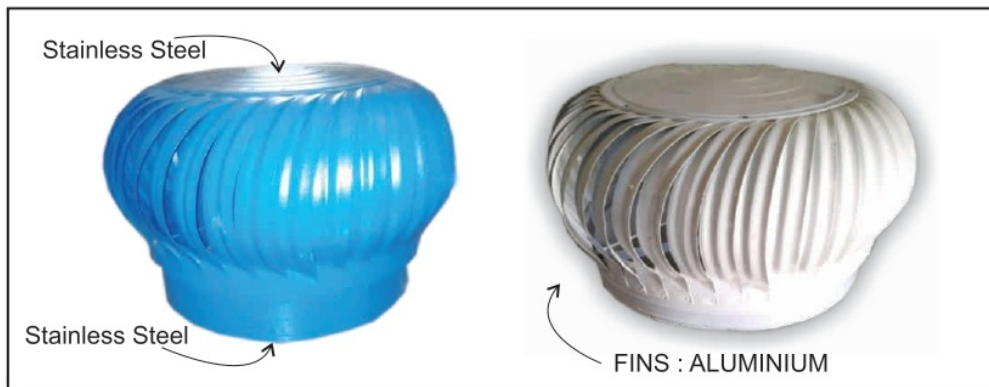
L Type Flushing (FRP)



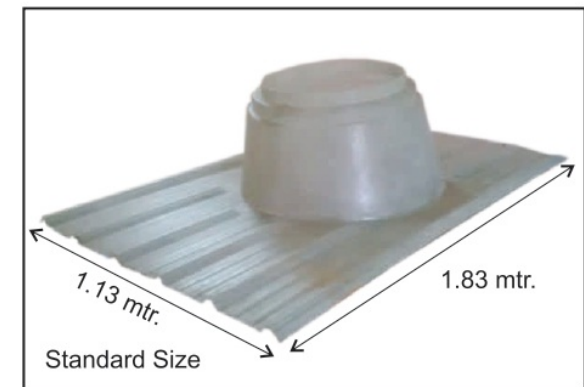
Industrial Type Gutter (FRP)



Louvers (FRP)



Turbo Ventilator Fan



Base Plate (FRP)

## Important Installation Guideline

- ⌚ PURLIN DISTANCE MUST BE 2.0 FEET FOR 2.0 MM THICKNESS.
- ⌚ PURLIN DISTANCE MUST BE 3.0 FEET FOR 3.0 MM THICKNESS.
- ⌚ FOR OTHER THICKNESS PURLIN DISTANCE REFER PAGE NO. 8.
- ⌚ 5 NOS SCREW PER SQ. MTR.

## Who can Fix

- ⌚ ANY FABRICATOR WHO IS DOING FIXING JOB FOR PPGI, PPGL OR NON ASBESTOS SHEET JOB CAN INSTALL THIS ROOF SHEET EASILY, HE JUST HAS TO FOLLOW ABOVE INSTALLATION GUIDELINE AT THE TIME OF INSTANTIATION
- ⌚ 5 NUMBER OF SELF DRILLING SCREW PER SQUARE METER
- ⌚ AT THE TIME OF SCREWING YOU HAVE TO MAKE 10 MM WHOLE FOR CONTRACTION AND EXPANSION OF SHEET .

## Most Important Note:

- ⌚ THE WHITE IS OUR RAW MATERIAL COLOUR THE OTHER COLOURS ARE DERIVED FROM PIGMENTATION & PIGMENT ARE SUBJECT TO SUNLIGHT FADING.

## Guarantee & Warranty

- ⌚ THERE IS ALWAYS EXPECTED LIFE IN ROOFING MATERIAL , THE WARRANTY IS NOT THERE.
- ⌚ UPVC ROOFING SHEET EXPECTED LIFE PERIOD IS APPROX 10 YRS.

## Applications

- ⌚ High grade factory building.
- ⌚ Steel Structure factory building.
- ⌚ Warehouses.
- ⌚ Farm Product market.
- ⌚ Market Pathways.
- ⌚ Car, Motorcycle, Bicycle Parking Sheds.
- ⌚ Flat to Sloping Renovation.
- ⌚ Farm Houses.
- ⌚ Water Resorts.
- ⌚ Animal Houses. (Cottages)
- ⌚ Chemical Industries.
- ⌚ Poultry Farm
- ⌚ Cattle Farm



### Note :

Mainly Used for Food, Pharma & Chemical Industries.

# BLAZE ENGINEERS

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