

PENTRO™

The Epitome Of Roofing...

First Time In India

3 LAYER uPVC ROOFING SHEET Technology.

We are the only manufacturer in India to offer more than **200 colours** of uPVC roofing sheets.

Corporate Office:

JD INTERNATIONAL TRADING CO

No 08, 4th Floor, Kanaka Durga Towers, 1st Cross

Vidyanagar, Bellary, Karnataka, India - 583104

Call: (+91) 999-666-4562 / (+91) 999-666-4572

Mail: Sales@pentro.co

Website: www.pentro.co

Special Features:

- **12 Years No Colour Fading**
- **Excellent Anti-UV Performance**
- **Superior Corrosion Resistance**
- **Splendid Water Resistance**
- **All Weather Proof**
- **Good Sound Insulation**
- **Colour Choice**
- **Low Maintenance**

ABOUT US:

JD INTERNATIONAL TRADING CO is a professional enterprise, is engaged in the manufacturing of the latest technology based three layers uPVC colour coated roofing sheets.

The company currently has its own brand “**PENTRO**” in various types of designs. The quality of PENTRO sheets is reliable, has received consistent high praise from the domestic and foreign customers.

At the same time the company has a strong R & D capability and a perfect after sales system.

So that the customers are more relieved to use our products.

We warmly welcome the buyers at home and abroad to visit our field and take business negotiations.

OUR VISION:

To manufacture products comparable to international standards, to be customer-focused and globally competitive through better quality, latest technology and continuous innovation.

OUR MISSION:

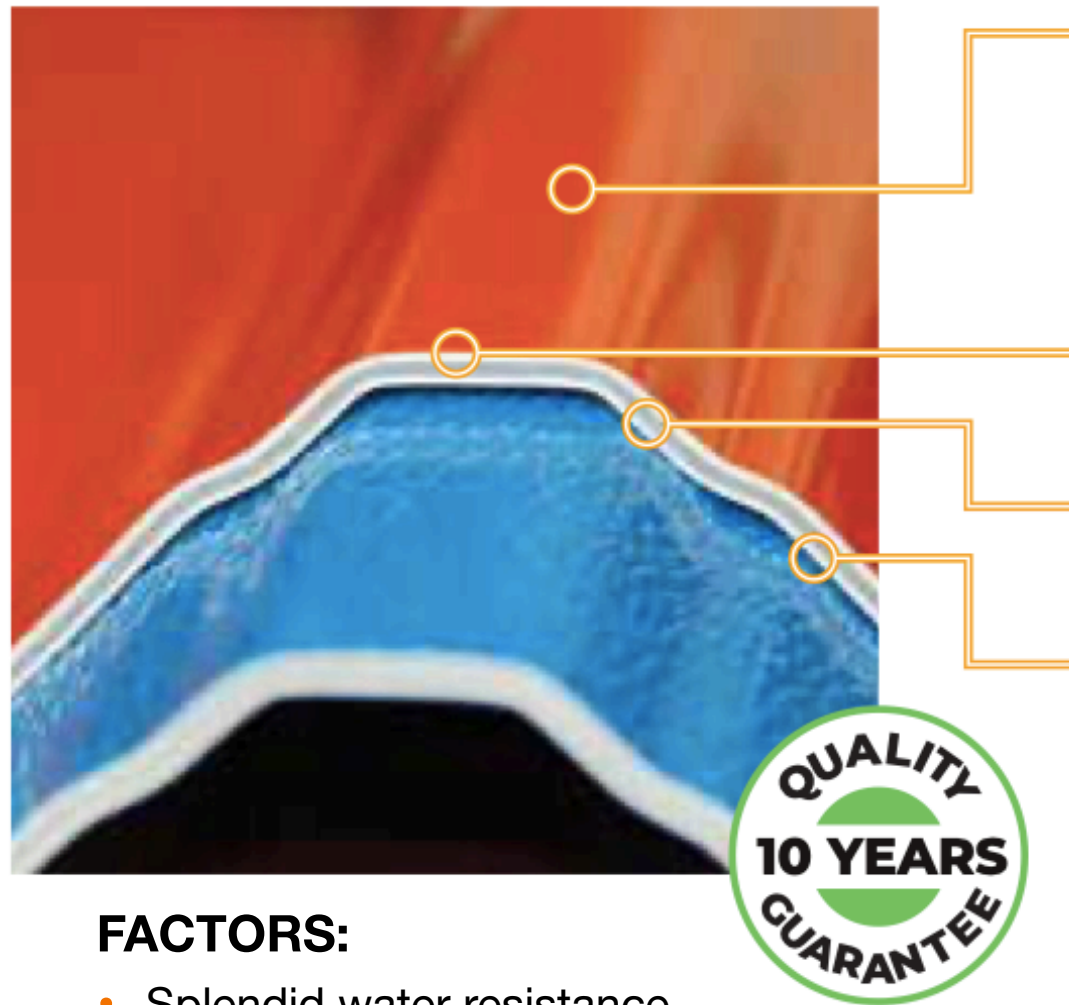
JD INTERNATIONAL TRADING CO wish to provide superior quality uPVC colour coated roofing sheets that customers recommend to family and friends, purchasers select for their places,

Employees are proud of, and Investors seek for long-term returns.

The logo for PENTRO, featuring the word in a stylized, multi-colored font. The letters are in shades of blue, purple, and red, with a decorative flourish above the 'T'.

WHAT IS 3 LAYER ASA-uPVC ROOFING SHEET ?

Our weatherproof ASA-PVC roofing sheet is electrical insulating and it is manufactured by one time processing through three to four layer co-extrusion technique. These roofing sheets are easy cleaning with good thermal and sound insulation and efficiently resists the water, fire, corrosion, and contaminations as well. With high toughness, they can also withstand strong winds, shocks and heavy hails. They weigh light and thus ensures easy installation.



FACTORS:

- Splendid water resistance
- Supporting up to 1250mm purlin spacing
- Corrosion resistance & Anti-UV Performances

Note: For thickness above 3mm, the purlin spacing can be extended upto 1600mm

1. The adoption of highly weather resistant engineering resin ASA from **LG Chem**, one of the Global 500 companies in the world, makes sure the surface layer has at least 10 years colour stability, superior UV resistance, and excellent corrosion resistance as well.
2. Good quality modified PVC materials with high toughness is adopted to ensure the strength while without compromising on the rigidity.
3. The special foam structured material which delivers good heat and sound insulation.
4. Adopts high toughness to ensure both strength and rigidity. The special material also offers a sense of space, and makes the building interior look brighter.

Applications of Weather proof ASA-uPVC Roof Sheets

The only roofing solution with dynamic uses from protecting to enhancing your vicinity.

- High Grade Factories.
- Warehouses.
- Schools and Universities.
- Clubs houses & Community centres.
- Five star hotels & resort on beaches.

PENTRO

REPLACE YOUR METAL SHEETS...

Choose optimum over least and peace over disturbance. For the cooling effect inside your vicinity without getting disturbed by the thrumming noise of rains in monsoons and harsh UV rays in summers, replace your metal roofs with PVC, UPVC and polycarbonate roofs that are not only durable but they also give stunning look to your vicinity.

Strong fire resistance

According to the UL94-2015 standard tests conducted by the SGS, our insulated roof panels are proven to have flame rating that is not less than V0. Which means, Our PVC/ASA roofing sheets are non-flammable and the material performs efficiently in a fire on the exterior of the property.

Superior corrosion resistance

Our range of roofing sheets have an excellent corrosion resistance with no chemical reactions when immersed for 24 hours in acid solution of concentration below 70%, saline solution, or alkali solution. These roofing sheets are ideal for coastal areas as well as areas with frequent.

Remarkable Heat Insulation

Our plastic roofing materials have remarkable heat insulation performance. The heat conductivity efficiency is $0.07W/(m.K)$, which is $1/6$ times more coefficient than cement roofing tile and only $1/2200$ times more coefficient than that of 0.5mm thick colour steel tiles.

Good Sound Insulation

The test shows that the roofing sheet boasts good noise absorbing effect under the noise of rainstorm and strong wind. It can make the noise 30dB lower than the colour steel tile.

Long lasting colour stability

Our PVC/ASA roofing sheets have an outstanding anti-UV performance with at least 12 years of colour stability ($\Delta E \leq 5$) when exposed to varied temperatures and any other severe environmental conditions for outdoor use in areas with strong sun radiation.

High Loading and Bearing Capacity

Our products have very high loading capacity. The roof sheet (3mm thick) can be bearing 120kg when the purlin spacing is less than 700mm.

Efficient and convenient installation

Our weatherproof ASA-PVC roofing sheets weighs light than clay tiles. They offer an effective width up to 1050mm with ensuring high installation efficiency. They also cost lesser than clay tiles without affecting your budget roofing construction.

BENEFITS OF uPVC ROOFING SHEET

UPVC roofing sheets offer several unique features that make them a popular choice for roofing applications:

Durability:

UPVC roofing sheets are highly durable and long-lasting. They are resistant to weathering, UV radiation, and chemical corrosion, making them suitable for use in harsh weather conditions.

Lightweight:

UPVC roofing sheets are lightweight, making them easy to handle and install. This also reduces the structural load on the building, which can be important for some applications.

Low maintenance:

UPVC roofing sheets require minimal maintenance. They do not rust or corrode, and they are easy to clean with just soap and water.

Energy efficiency:

uPVC roofing sheets have excellent insulation properties, which can help to reduce energy costs by keeping the building cooler in the summer and warmer in the winter.

Aesthetically pleasing:

UPVC roofing sheets are available in a variety of colours and styles, which means that they can be customised to suit the architectural style of the building.

Fire-resistance:

UPVC roofing sheets are fire-resistant and can help to prevent the spread of flames in case of a fire.

Eco-friendly:

UPVC roofing sheets are recyclable, which means that they can be reused at the end of their useful life, reducing waste and contributing to a more sustainable future.

Overall, UPVC roofing sheets offer a range of unique features that make them an attractive option for a variety of roofing applications.



Comparative Analysis Between Different Roofing Sheets

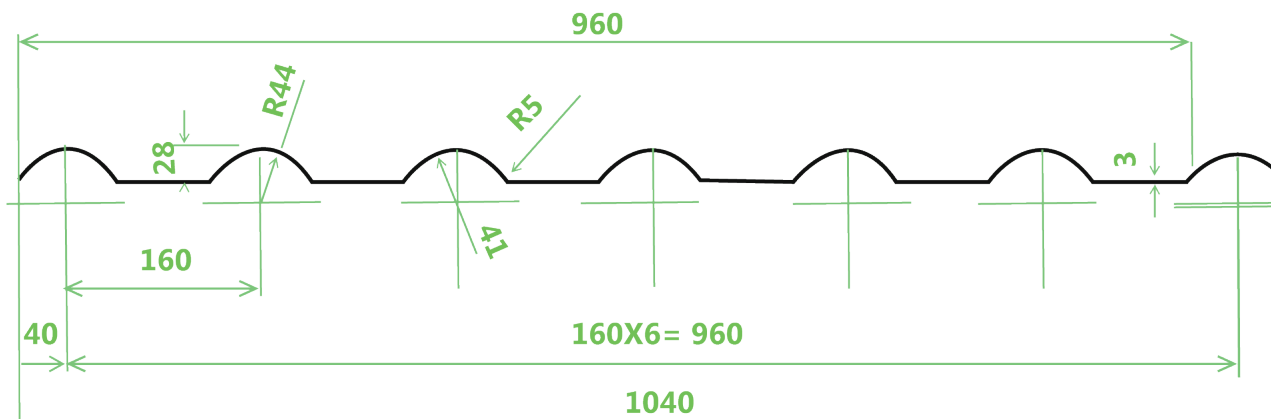
	METAL	ASBESTOS	CERAMIC TILE	PENTRO uPVC
Stability in corrosive environment	Not stable in corrosive environment	Not stable in corrosive environment	Highly stable in corrosive environment	Highly stable in corrosive environment
Flexural strength	15 MPa	16 MPa	10 Mpa	45-55 MPa
Combustibility	Not Combustible	Not Combustible, but has micro explosions while burning	Not Combustible	Not combustible
Thermal conductivity	15 W/m.°C	0.46 W/m.°C	0.27 W/m.°C	0.10 W/m.°C
Weight of 100 Sq.Mtr	420 Kg	1340 Kg	5500 kG	340 Kg
Sound insulation	Not provided absorption of the rain,hail,street noise	Provides insignificant absorption of the Rain,hail,street noise	Provides insignificant absorption of the Rain,hail,street noise	Provides insignificant absorption of the Rain,hail,street noise
Health hazard	Ecologically Clean	Contains carcinogenic asbestos	Ecologically clean	Ecologically clean

PENTRO

Physical Test Report

S.No	TEST	RESULT	UNIT	STANDARD	INSTITUTE
1	Tensile Strength	331.5	Kg/cm ²	ASTM D 638	CIPET-Chennai
2	Elongation at Break	11.0	%	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 ²	ASTM D 790	
6	Flexural modulus	21850	Kg/cm ²	ASTM D 790	
7	Izod impact strength	41	J/m	ASTM D 256	
8	Water Absorption	0.16	%	ASTM D 570	
9	Rockwell Hardness(R) Scale	70	— — —	ASTM D 785	
10	HDT AT 66 psi	72.4	°C	ASTM D 648	
11	HDT AT 264 psi	64.7	°C	ASTM D 648	
12	Limiting Oxygen Index	31	%	ASTM D 2863	
13	Flammability	V0	— — —	UL-94	
14	Long Term Heat Resistance	No Effect	— — —	ASTM D 2863	MSV ANALYTICAL LAB-BALLARI
15	Weight Loss	Zero (@2000C)	— — —	— — —	SICRAT-V.V. NAGAR

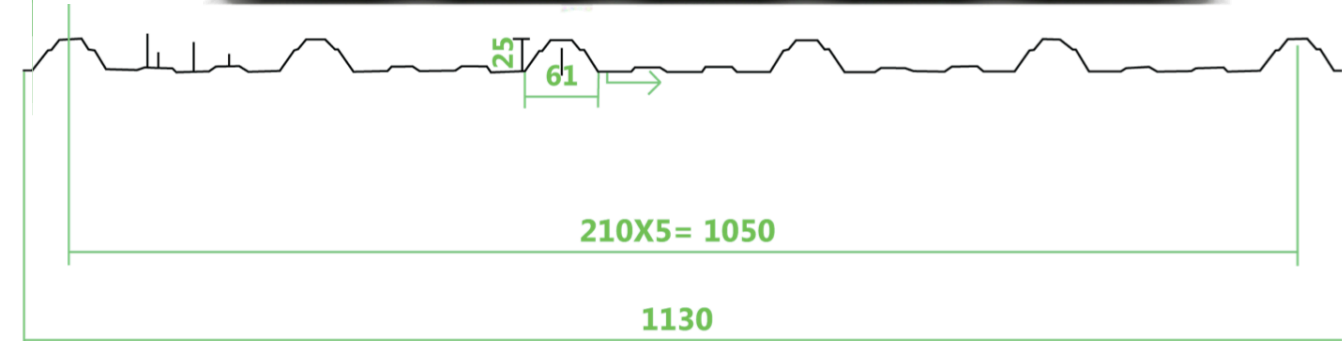
GLAZING TILE



Introducing our top-of-the-line UPVC roofing sheets! We offer two fantastic varieties that will meet all of your roofing needs:

The **glazing tile** and the **trapezoidal**.

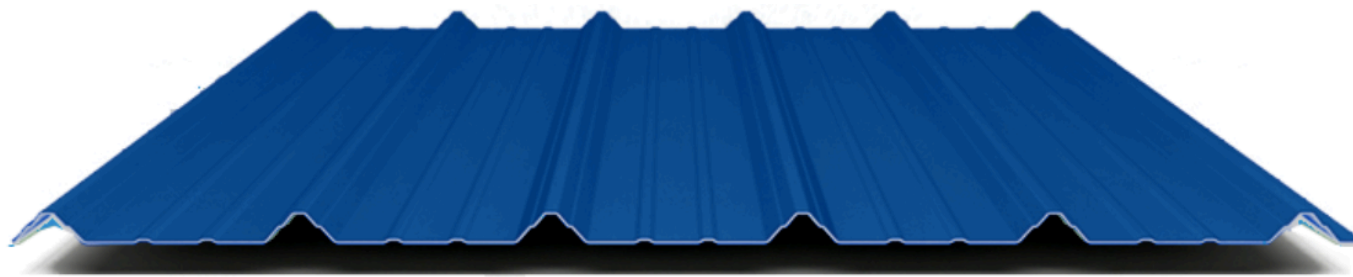
TRAPEZOIDAL



SPECIFICATION:

THICKNESS	1.5mm	2.0mm	2.5mm	3.0mm	3.5mm
WEIGHT kg/sq.mts (approx.)	2.7	3.4	3.8	5.2	5.6
WIDTH	1.13 mts. Standard				
COVERING WIDTH	1.05 mts. For Actual Used				
COLOURS	BLUE / TERRACOTTA RED / GREEN / BROWN / WHITE				
LENGTH AVAILABLE (CUSTOM SIZES AVAILABLE)	2.43 mtr (8 ft)	3.05 mtr (10 ft)	3.66 mtr (12 ft)	4.57 mtr (15 ft)	6.10 mtr (20 ft)

PLASTRO



BLUE

Our roofing sheets come in
five regular colours:

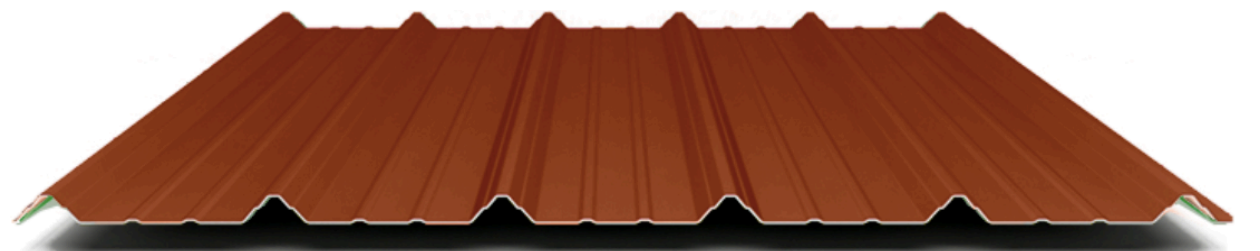
Blue, Terracotta red, Green,
Brown, and White.



TERRACOTTA RED



GREEN



BROWN



WHITE

PENTRO



MAIN RIDGE



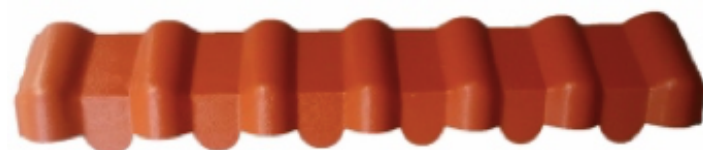
MAIN RIDGE CAP



SIDE RIDGE



SIDE RIDGE CAP



FASCIA BOARD



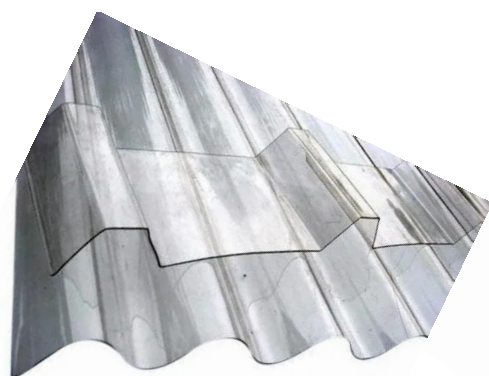
3 WAY RIDGE



WALL FLASHING BOARD



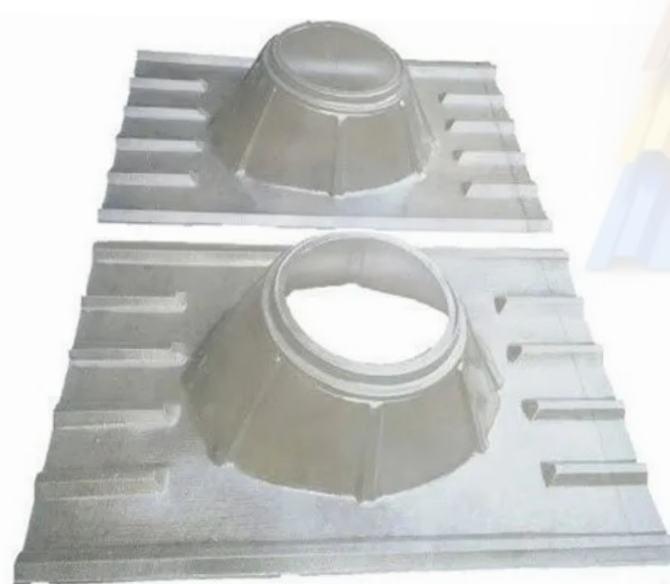
4 WAY RIDGE



**POLYCARBONATE
TRANSPARENT
SHEET**



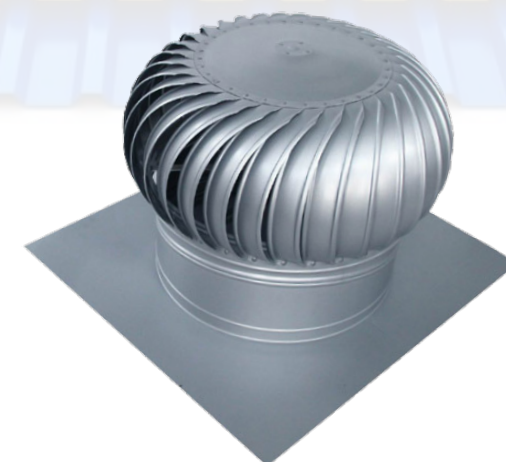
TOP RIDGE



**POLYCARBONATE TROBO
VENTILATOR BASE**



ACCESSORIES



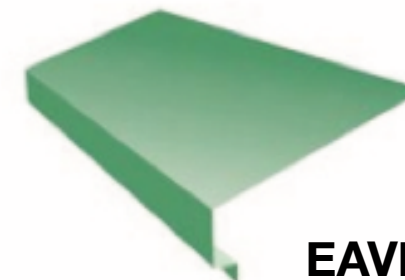
TROBO VENTILATOR



**GABLE END
FLASHING**



**CORNER
FLASHING**



**EAVE END
FLASHING**



RIDGE



EAVE GUTTER



END TRIM

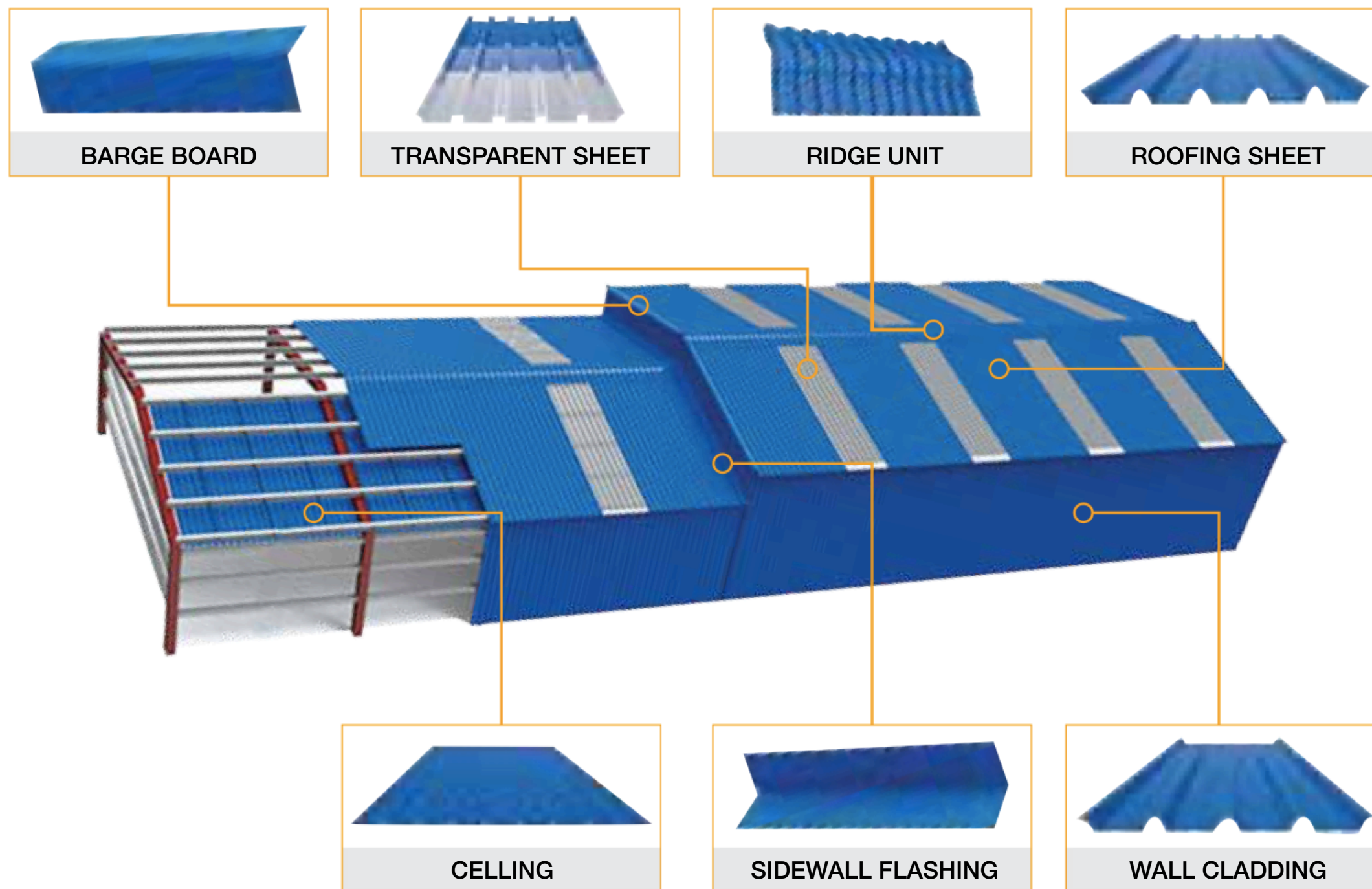


FIXER SET

PENTRO

Accessories List:

Durable accessories or durable roofing sheets that are anti-corrosive with excellent design, material, conductivity and tractability.



Special Features

12 Years No Colour Fading | **Excellent Anti-UV Performance** | **Superior Corrosion Resistance**
| **Peaceful Sleep During Monsoon** | **Splendid Water Resistance** | **All Weather Proof** |
Good Sound Insulation | **Colour Choice** | **Low Maintenance**

PENTRO

Introducing the ultimate solution to your
roofing needs -
UPVC roofing sheets more than 200 vibrant
colours!

At **PENTRO**, we take pride in being the only manufacturer in India to offer more than 200 colours UPVC roofing sheets. Whether you're looking for a traditional, sophisticated look or something bold and modern, we have the perfect colour to suit your style.

Minimum Order Quantity For Customised Colour: 1000 Sq.Mtrs

RAL 1000

RAL 1001

RAL 1002

RAL 1003

RAL 1004

RAL 1005

RAL 1006

RAL 1007

RAL 1011

RAL 1012

RAL 1013

RAL 1014

RAL 1015

RAL 1016

RAL 1017

RAL 1018

RAL 1019

RAL 1020

RAL 1021

RAL 1023

RAL 1024

RAL 1026

RAL 1027

RAL 1028

RAL 1032

RAL 1033

RAL 1034

RAL 1035

RAL 1036

RAL 1037

RAL 2013

RAL 2017

RAL 2000

RAL 2001

RAL 2002

RAL 2003

RAL 2004

RAL 2005

RAL 2007

RAL 2008

RAL 2009

RAL 2010

RAL 2011

RAL 2012

RAL 2013

RAL 2017

RAL 3000

RAL 3001

RAL 3002

RAL 3003

RAL 3004

RAL 3005

RAL 3011

RAL 3012

RAL 3013

RAL 3014

RAL 3015

RAL 3016

RAL 3017

RAL 3018

RAL 3020

RAL 3022

RAL 3024

RAL 3026

RAL 3027

RAL 3028

RAL 3031

RAL 3032

RAL 3007

RAL 3009

RAL 3033

RAL 7047

RAL 4001

RAL 4002

RAL 4003

RAL 4004

RAL 4005

RAL 4006

RAL 4007

RAL 4008

RAL 4009

RAL 4010

RAL 4011

RAL 4012

RAL 5000	RAL 5001	RAL 5002	RAL 5003
RAL 5004	RAL 5005	RAL 5007	RAL 5008
RAL 5009	RAL 5010	RAL 5011	RAL 5012
RAL 5013	RAL 5014	RAL 5015	RAL 5017
RAL 5018	RAL 5019	RAL 5020	RAL 5021
RAL 5022	RAL 5023	RAL 5024	RAL 5025
RAL 5026	RAL 6000	RAL 6001	RAL 6002
RAL 6004	RAL 6005	RAL 6006	RAL 6007

RAL 6008	RAL 6009	RAL 6010	RAL 6011
RAL 6012	RAL 6013	RAL 6014	RAL 6015
RAL 6016	RAL 6017	RAL 6018	RAL 6019
RAL 6020	RAL 6021	RAL 6022	RAL 6024
RAL 6025	RAL 6026	RAL 6027	RAL 6028
RAL 6029	RAL 6032	RAL 6033	RAL 6034
RAL 6035	RAL 6036	RAL 6037	RAL 6038
RAL 6039	RAL 7000	RAL 7001	RAL 7002

RAL 7004	RAL 7005	RAL 7006	RAL 7008
RAL 7009	RAL 7010	RAL 7011	RAL 7012
RAL 7013	RAL 7015	RAL 7016	RAL 7021
RAL 7022	RAL 7023	RAL 7024	RAL 7026
RAL 7030	RAL 7031	RAL 7032	RAL 7033
RAL 7034	RAL 7035	RAL 7036	RAL 7037
RAL 7038	RAL 7039	RAL 7040	RAL 7042
RAL 7043	RAL 7044	RAL 7045	RAL 7046

RAL 8000	RAL 8001	RAL 8002	RAL 8003
RAL 8004	RAL 8007	RAL 8008	RAL 8011
RAL 8012	RAL 8014	RAL 8015	RAL 8016
RAL 8017	RAL 8019	RAL 8022	RAL 8023
RAL 8024	RAL 9018	RAL 9022	RAL 9023
RAL 9001	RAL 9002	RAL 9003	RAL 9004
RAL 9005	RAL 9006	RAL 9007	RAL 9010
RAL 9011	RAL 9012	RAL 9016	RAL 9017

PENTROTM

The Epitome Of Roofing...



Corporate Office

JD INTERNATIONAL TRADING CO
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Towers, 1st Cross Vidyanagar,
Bellary, Karnataka, India - 583104

Manufacturing Unit

‘PENTRO’
Plot No, 4 & 5, 2nd Stage,
KIADB Industrial Area,
Bangalore Road
Bellary, Karnataka, India - 583101

Channel Partners

