پلی روف اریکا

PolyRoof Erika

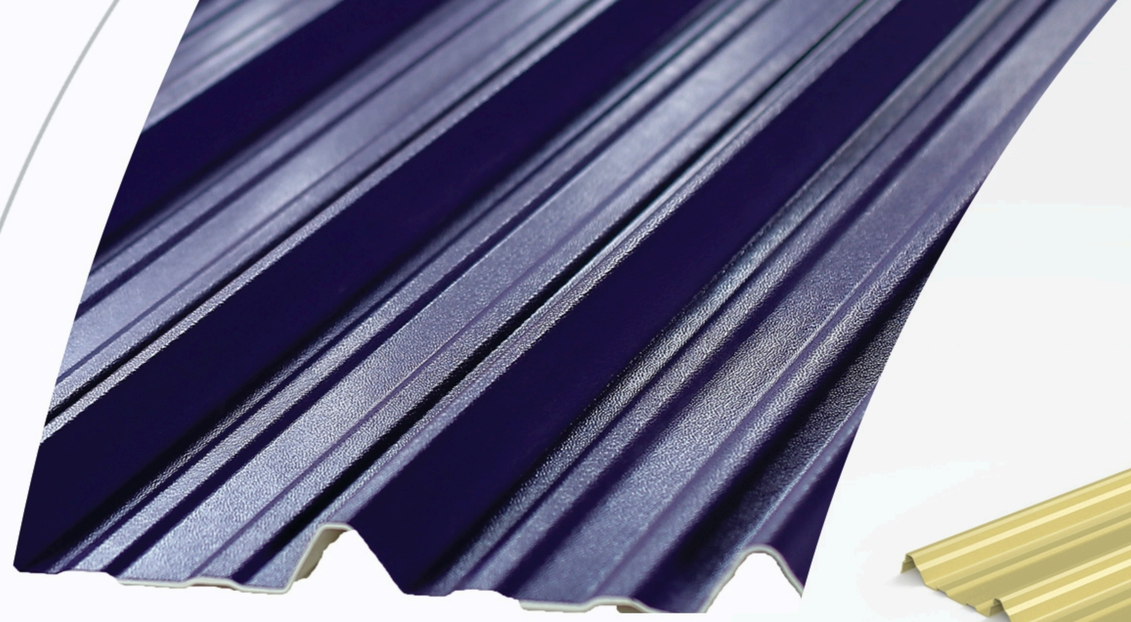
Roofing is one of the most important elements of any structures that in addition to provide the aesthetic of a building must ensure resistance to environmental and weather changes. Furthermore, due to the high costs of energy, roofing requires proper heat insulation.

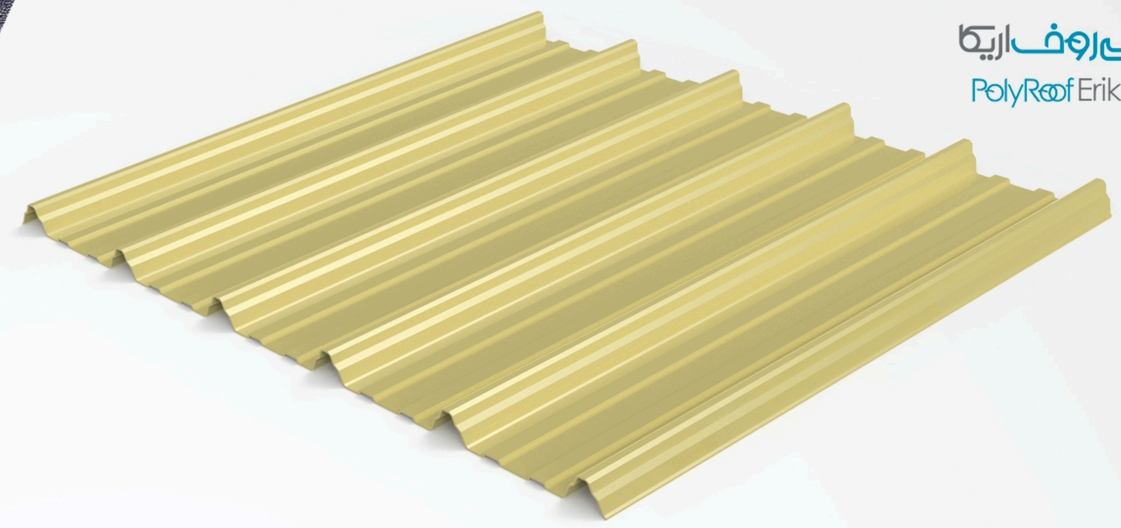
Sepid Fam Varna corporation has tried to eliminate the existing hysical defects of roofing systems in the market.

This company uses the world latest technology in the field of UPVC sheets manufacturing. It also uses advanced machineries by the cooperation of experienced professionals, has localized this product and launched it to the market under the brand of Poly Roof ErikaTM.

Poly Roof Erika UPVC sheets advantages

- 0/325 w/m.k coefficient of heat conductivity
- Easy installation
- Variety in color and durability
- Ability to be manufactured up to 12 m
- Can be used in various residential, villas, warehouses, industrial sheds and etc. projects.
- Low cost of substructure
- No need for extra heat insulation





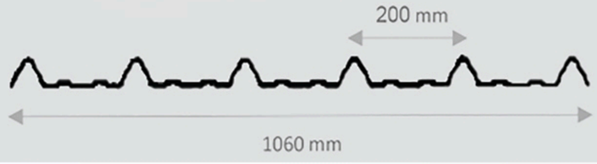
## Trapezoidal Poly Roof Sheets

UPVC sheets have introduced a new generation of roofing system to the market by eliminating the disadvantages of existing roof tiles.
These sheets are made of two layers. The bottom layer is made of UPVC and the top layer is polymer alloy which has the ability to increase UV resistance.

## UPVC Roofing Advantages

- Durable and long lasting
- High UV resistance
- Light weight
- Anti-corrosion
- Self- extinguishing
- Environmental friendly
- Heat and sound insulation
- Self –washing

RAL5015 RAL6024 RAL1003 RAL4005 RAL3003 RAL8004 RAL7047
RAL5024 RAL6027 RAL1015 RAL4009 RAL2009 RAL3012 RAL9010

| | |
|---|---|
| Trapezoidal shape |   |
| Layer Material | PU - UPVC |
| Number of Layers | one layer- two layers |
| Width before forming | 125 c.m |
| Effective Width | 100 c.m |
| Non- effective Width | 106 c.m |
| Wave Height | 4 c.m |
| Wave Length | 20 c.m |
| Thickness | 1.7-5 m.m |
| Length | Based on customer`s order up to 12m |
| Density | 1690 Kg/m3 |
| Weight | Based on thickness 3 to 10 k.g |
| Maximum purlin distance permitted | 1.7 m.m thickness suitable for wall cladding and industrial sheds. |
| | 2m.m thickness = 80 c.m |
| | 2.2 m.m thickness= 90 c.m |
| | 2.5 m.m thickness= 100 c.m |
| | Higher thicknesses based on project conditions. |

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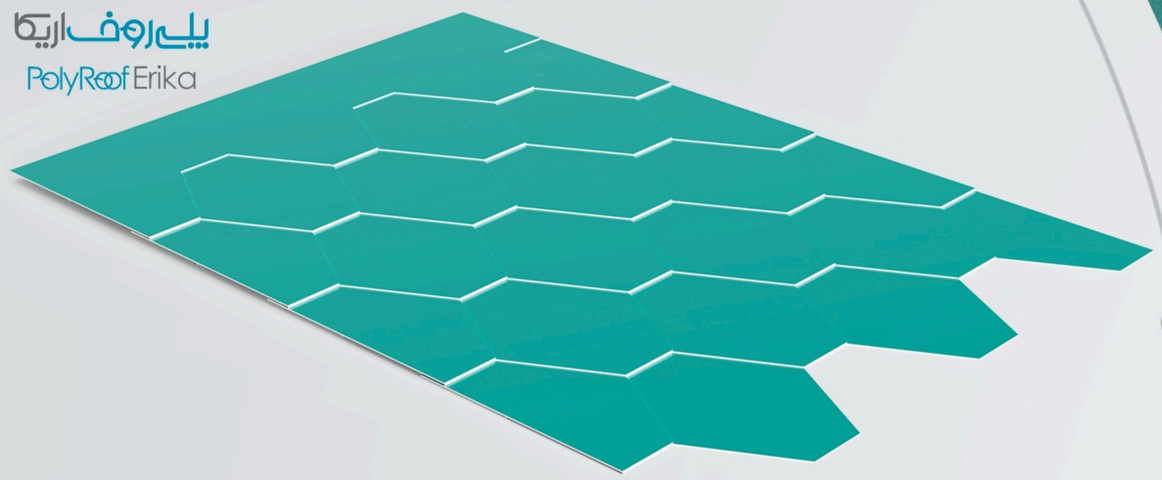


## UPVC Shingle

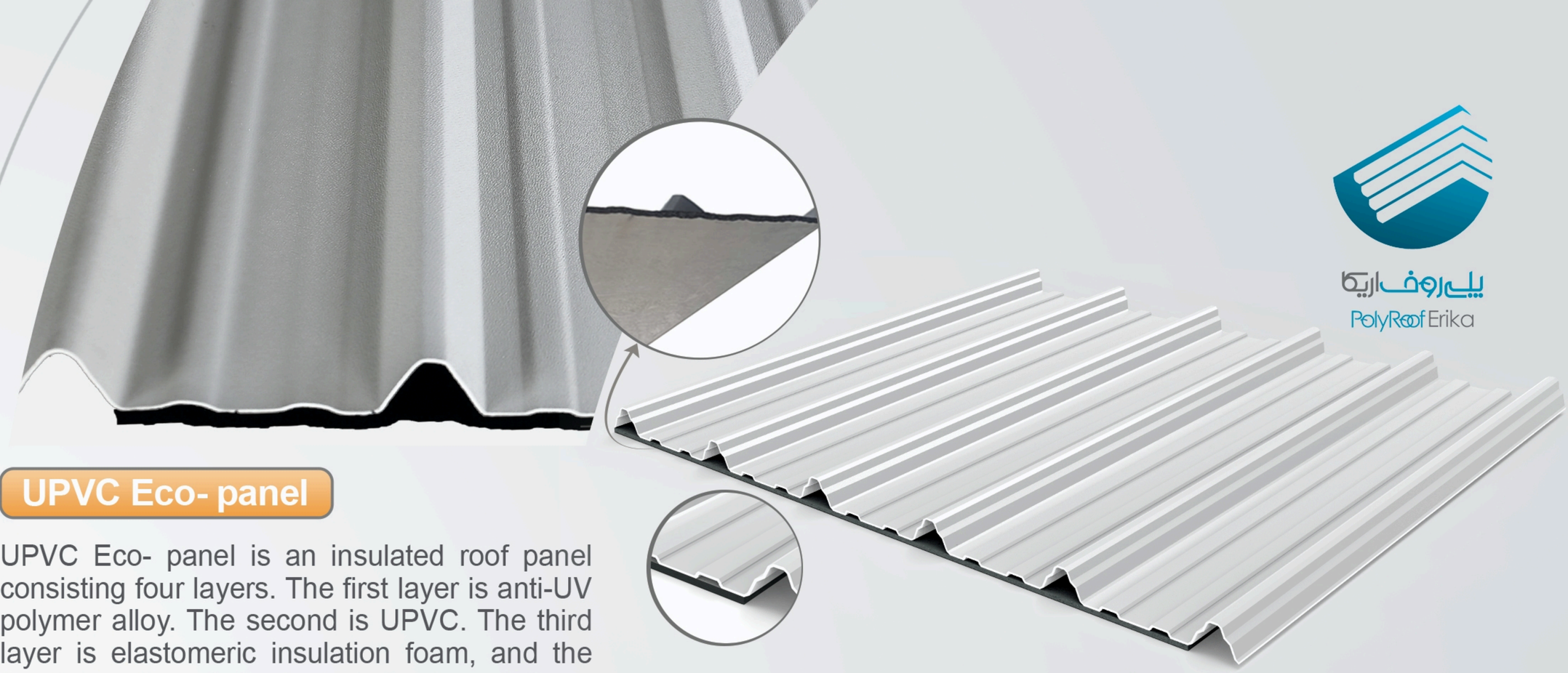
Shingles have been the most common type of roofing systems for centuries which are used for pitched roof in the world.
They are made of different materials such as wood, asphalt, stone, cement, clay and UPVC.UPVC shingles are arranged in an overlapping manner in which each successive tile overlaps the next when installed from bottom edge to the top.
Each 7 UPVC shingle covers 1m2 and has different thicknesses.

| Shingle shape |  |
|---|---|
| Material | PU - UPVC |
| Number of layers | two layers |
| Non- effective width | 32 c.m |
| Length | 106 c.m |
| Effective width | 100 c.m |
| Amount of coverage | 7 tiles covers 1m2 |
| Thickness | 1.7-2 m.m |
| Minimum permitted slope in order not to be leaked | 20-30 $^{0}$ |
| Shingle Installation | First apply the main pitched roof structure. Then install the 3*5 fir wood which should be ax to ax with a central distance of 60 c.m against the profile. Then OSB board is screwed on the fir wood. After screwing the board apply the underlayment in a completely smooth and flat manner with small nails at the corner of OSB boards. Finally start to install shingles from the edge of the slope and end at the top of it. |

### Advantages

- Durable and long lasting
- Cost effective
- Heat and sound insulation
- Self-extinguishing
- Temperature change resistant
- Non-corrosive

UPVC shingles are installed on OSB boards. OSB boards are arranged on metal substructure, and a special sealer layer is applied on them. Then UPVC shingles are installed by screws or special nails.

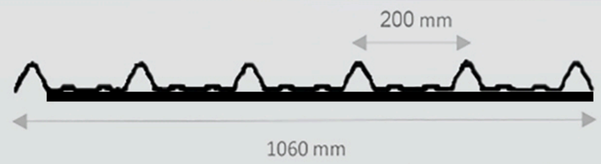


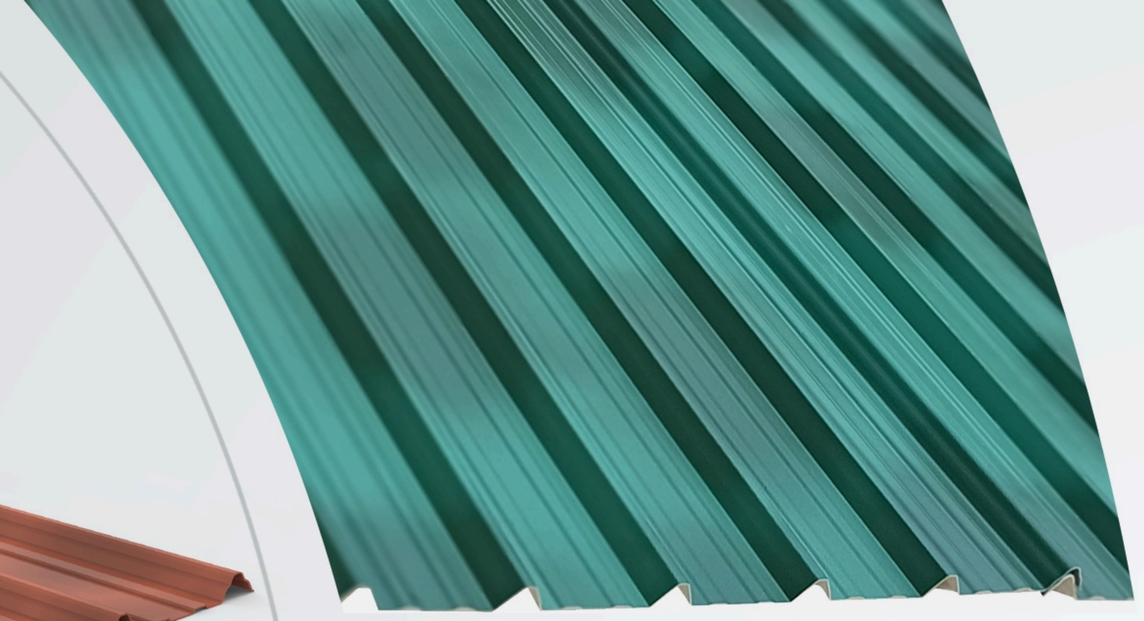
## UPVC Eco- panel

UPVC Eco- panel is an insulated roof panel consisting four layers. The first layer is anti-UV polymer alloy. The second is UPVC. The third layer is elastomeric insulation foam, and the fourth is polymeric laminated aluminum foil.
Eco- panel can be used in various ways based on insulation thickness. It is more economical compared with existing conventional roofing systems.

### Advantages

- A unique material in curving structures with high insulation feature
- Light weight and low thickness
- Resistant to chemical and environmental destructive factors
- High energy efficiency
- Self- extinguishing
- Quick and simple to apply
- Economic installation

| | |
|---|---|
| Eco -panel shape |   |
| Layer material | PU –UPVC |
| Number of layers | Four- layers |
| Width before forming | 125 c.m |
| Non-effective width | 106 c.m |
| Effective width | 100 c.m |
| Wave height | 4 c.m |
| Wave distance | 20 c.m |
| Thickness | 8 to 42 m.m |
| Length | as customer`s order |
| UPVC sheet density | 1690 kg/$m^2$ |
| Elastomeric foam density | 50 kg/m2 |
| Foil thickness | 130 µ |
| Panel weight | 5/100 kg to 7/200 k.g |
| Maximum permitted purlin distance | - 90c.m based on the thickness of 2m.m sheet |



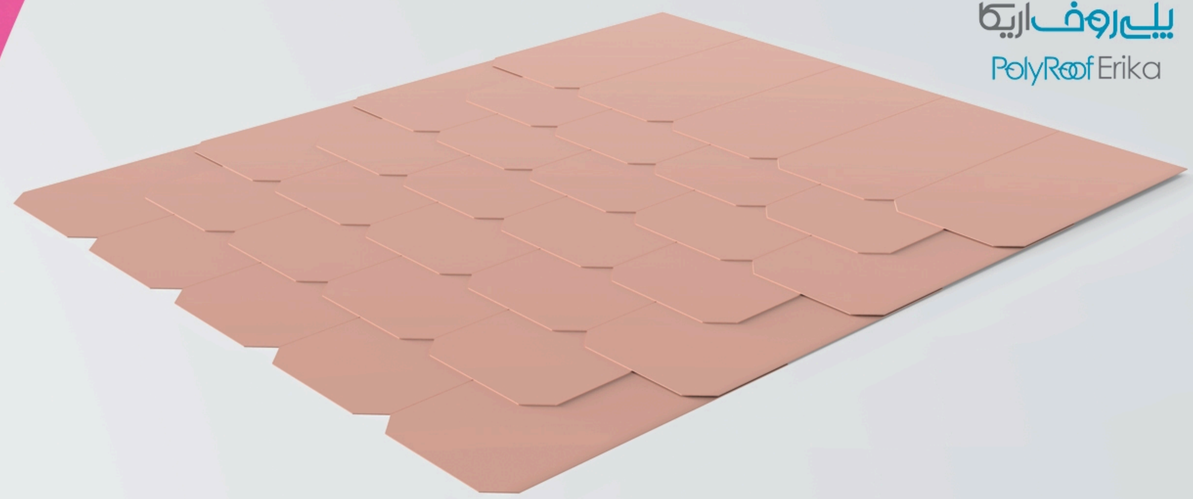
## UPVC Polyline

Polyline is a kind of construction material used in roof facades. It is made of UPVC with PU layer on it available in a variety of shading colors. This product consists of three layers including UPVC as the bottom layer, polymer alloy both as middle and top layer that is applied on UPVC layer in two phases respectively. These tiles are produced in 1*2 and are easier to install compared with similar products since they do not require specific substructure.
Considering the amount of overlapping for required sealing, they can be installed on metal or wooden purlin.

| | |
|---|---|
| Polyline shape |   |
| Layer material | □□ - □□□□ |
| Numbers of layers | 3 layers |
| Length | 200 c.m |
| Width before forming | 125 c.m |
| Non-effective width | 106 c.m |
| Effective width | 100 c.m |
| Thickness | 2 m.m |
| Coverage amount | 1.85 $m^2$ |
| Overlapping amount | overlapping in the direction of the length is at least 15 c.m<br>Overlapping in the direction of the width is 6 c.m |
| Purlin distance | At most 70 c.m |
| Polyline sheets installation steps | Polyline tiles can be installed on iron framework with 7.5 c.m tap screws and special corpies. Moreover, insulation depending on the geographical conditions should be taken into account. |

### Advantages

- Attractive appearance
- Durable and color stable
- Light weight
- Self- washing
- Self- extinguishing
- Sound and moist insulation



## UPVC Slate Roofing

Slate roofing system is suitable for pitched roof. They are available in plain or curved patterns and can be applied in step-like, adjustable manner in a building façade.
They are produced in a variety of materials such as UPVC. Slate roofs can be applied in villas, apartment roofing, upper windows, gazeboes, cottage rooms, residential and official building entrances.

### Advantages

- Durable and long lasting
- Available in a variety of colors
- Resistant to temperature changes
- Self-extinguishing
- Self- washing
- Resistant to chemical and environmental destructive factors
- To install the slate roof and prepare the framework rafters should be done.

Then install the four-cut sheathing with the distance of 20 c.m from the underlying roof structure. After applying the rafters start to arrange the slates which is quite specialized.

RAL5015 RAL6024 RAL1003 RAL4005 RAL3003 RAL8004 RAL7047
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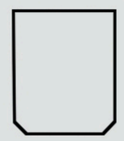
### UPVC Slate Shapes



| | |
|---|---|
| Material | PU - UPVC |
| Numbers of layers | two layers |
| Non- effective width | 30 c.m |
| Length | 60 c.m |
| Coverage amount | Each 17 tiles covers 1m2 |
| Thickness | 1.7-2 m.m |
| Installation steps | To prepare the framework, rafters should be done with the distance of 1m. Then install the four-cut sheathing with a distance of 20 c.m each from the underlying roof structure.<br>After applying the sheathing, start to arrange the slates which is quite specialized.<br>First cut some of the 30*60 slates in half from the 60 c.m direction and form them to the size of 30*30. Then arrange them beside each other at a distance of 0.5 c.m using two or three nails. (installing the first row requires more care.)<br>The second row will be installed on the first row and the next steps will be followed in the same way.<br>In order to control the slates of wind lifting and also to guide the installation process, disc rivets are used between the two edges. two nails are used at the side edges of the slate in specific parts and nailed to the bottom underlying structure. |

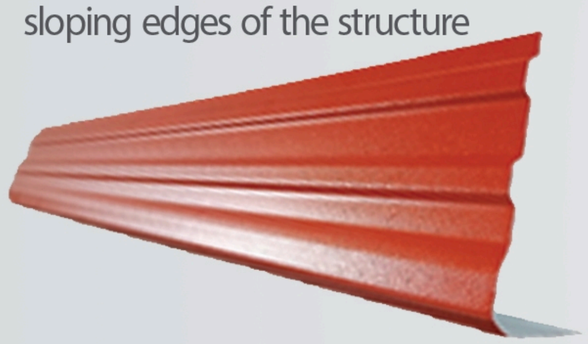
## UPVC Accessories

### Poly roof special ridge:
This part is used for complete and safe sealing for capping

### Flat ridge:
used for specific parts sealing for capping

### 33 c.m Ridge:
used for specific parts sealing for capping

### Gutter:
to direct water on the west sides or sloping edges of the structure



### curvy, vertical and horizontal ridge tiles:
to create a beautiful view of the fascia

### Corpies specifically designed for poly Roof:
It is used to protect the screws from environmental destructive factors and also minimizes the pressure from screws to the sheets surface.


**Tehran office :**

Dr. Shariati St. below Sadr Bridge, Corner of Elahie Alley,No.1680
Seventh floor , North unit - Zip code :1914733536
+98 9129629521 +98 9120465837 +98 21-22645886-7

**Factory:**

Mazandaran province , Neka Industrial Estate Phase 2 +9811-44405168-70
0912 046 5839 | 0911549 5291 | 0903365 4276