**JULI**

**Synthetic Resin Roof Tile**

As the new generation of light-weight, environment-friendly building material, JULI Synthetic Resin Roof Tiles have been widely recognized and noticed in the architectural field due to the unique advantages such as environmental protection, energy saving, recycle use, light weight, high intensity, waterproof, moisture proof, anticorrosion, fire-retardant, soundproof, insulation, etc.

Application: Widely used for flat-to-sloping roof conversion, residential houses, villas, shopping mall, new rural reconstruction, garden, farm stay, etc., and suitable for all slope roofs of concrete structure, steel structure, wood structure, brick structure and other hybrid structures...

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**Company Profile**

WUXI JuLi Building Material Co., Ltd is located at Xin District, Wuxi City of JiangSu Province, China.

Wuxi, the famous cultural city with 3000 years’ history is not only the cradle of Chinese national & rural industries, but also the Chinese most important centers of economy, culture and logistics, which is known as the “The Bright Pearl of TaiHu Lake.”

Just based on Wuxi excellent conditions, JULI has successfully cooperated with many large high-tech chemical companies in Germany, USA, South Korea, Shanghai, Beijing, etc., and imported the advanced processing equipment and production technology to specialize in researching, manufacturing and marketing new green building material.

Specialized in roof tiles for 20 years, after years’ practice and experience accumulation, the annual production capacity of Synthetic Resin Roof Tile is more than 5,000,000m², PVC/UPVC/APVC/AUPVC Corrugated Sheet is more than 5,000,000m², Anti-Corrosion Polyester Sheet is more than 3,000,000m², Anti-Corrosion Polyester Purlin is more than 1,200,000m², well-known by the worldwide gradually.

*With the principle of “Quality-Oriented and Customer First”, we sincerely hope you join with us to create the better future together!*
**Model**
- **JL-1050**
  - Overall Width: 1050mm
  - Usefull Width: 960mm
  - Thickness: 2.3/2.5/3.0±0.1mm
- **JL-880**
  - Overall Width: 880mm
  - Usefull Width: 800mm
  - Thickness: 2.3/2.5/3.0±0.1mm

**Wave Height**: 30mm
**Length**: Customized (Should be multiple of 220mm)
**Purlin Space**: 660mm
**Weight**: 2.3mm: 4.6kg/m²
  - 2.5mm: 5.0kg/m²
  - 3.0mm: 6.0kg/m²

**Container**
- Thickness:
  - 2.3mm
  - 2.5mm
  - 3.0mm
- Loading Capacity:
  - 2.3mm: 4500m²
  - 2.5mm: 4000m²
  - 3.0mm: 3500m²

**Application**
- **Main Ridge**: Length:1050/880mm
  - Usefull Length:960/800mm
  - Covering on main roof ridge
- **Diagonal Ridge**: Length:1050/880mm
  - Usefull Length:960/800mm
  - Covering on side ridge
- **Three-Way Ridge**: Length:280mm + 200mm x2
  - Connecting to main ridge and diagonal ridge
- **End Cap**: Length:250mm
  - End capping of main ridge or diagonal ridge
- **Verge Board**: Length:480mm
  - Eaves flashing
- **Vertical Wall Flashing Board**: Length:1050/880mm
  - Usefull Length:960/800mm
  - Vertical Wall Flashing
- **Gable Flashing Board**: Length:1050/880mm
  - Gable Wall Flashing
- **Inside/Outside Flashing Board**: Length:1700mm
  - Dormant Window Gutters Flashing
- **Top Ridge**: Cornice Board
- **Water-Proof Accessories**: Recommend 4 sets/m²

**Color Choice**
- Purple Red
- Bright Red
- Brick Red
- Sky Blue
- Grey
- Dark Green
- Golden

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Excellent Weather-Resistance: The surface is coated with ASA which is super weather resistance engineering resin to ensure lasting beautiful color even under the conditions of longtime exposing in UV, humidity, hot, cold, and implosion, etc.

Excellent Corrosion Resistance: It can resist acid, alkali, salt and other chemical corrosion in the long time. It is very suitable for the coastal areas with heavy salt & fog corrosion, and other serious air pollution areas.

Excellent Loading Resistance Property: JULI Synthetic Resin Roof Tiles have excellent loading resistance property.

Excellent Impact Resistance: There is no crack on the surface of JULI Synthetic Resin Roof Tile when 1kg steel ball fall from 1.5m height, and also no hollowing, bubble, stopping and crack at all after freeze-thaw 10 times.

Excellent Insulation Properties: JULI Synthetic Resin Roof Tiles adopt insulating materials which is much more safety than steel sheet especially in the thunderstorm areas and near to high voltage line areas.

Self-Cleaning: The compact and smooth surface with "lotus effect" don't absorb dust and can clean as new one after washed by rain.

Convenient Installation: Large size per sheet, high installation efficiency. Light weight, easy hoisting and unloading. Complete supporting facilities. Simple tool and procedures.

Environment Friendly: JULI Synthetic Resin Roof Tiles don't include asbestos and radioactive element, meet the requirement of environment protection, can be recycled completely.


Good Sound Insulation: Noise is 30DB lower than color steel sheet.

Installation of JULI Synthetic Resin Roof Tile
- Can choose square tube (60x40x3mm), C steel (100x50x20x3mm) or anti-corrosion wood (60x40mm), the purflins should be put from bottom to top with the distance 660mm with each other.
- Install at reverse wind according to local windy direction. And install the both sides at the same time after overlapping a wave.
- Please cut a little of the first main ridge before installing the second one.
- The lap-joint between the main ridge and diagonal ridge should be sawed smoothly, install the three-way after finishing the main ridge and diagonal ridge.
- The fixtures are special accessories, drill a hole by electric driller at first when fix.
- The hole aperture should be 2mm larger than hook screw, self-lapping screws we suggest Ø8.3mm

[Diagram of installation process]
As the upgrade product of Color Steel Sheet, JULI APVC/AUPVC Corrugated Sheet adopts advanced co-extrusion technology and use super weather-resistance resin ASA and PVC as main material mixing with UV resistance and other chemical adjuvant to enhance weather resistance ability and color durability.

Application: Widely used for agricultural trade market, passageway, residence house, temporary housing, flat to sloping, villa, sunshade, rain shade, garages, commercial buildings, train station, bus station, newsstand, sports buildings, swimming pool, outdoor playground roof, emergency shelter, building decoration, stage design, exhibition layout, road signs... Specially good effect in corrosive industries, e.g. ceramic factory, fertilizer factory, galvanization factory, aluminum factory, chemical factory, foundry factory, metallurgical factory, farms, pharmaceutical factory, packinghouse, textile&dyeing factory, leather factories, coastal factories, etc.

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### Main Parameter

<table>
<thead>
<tr>
<th>Model</th>
<th>JL-600W</th>
<th>JL-900T</th>
<th>JL-920</th>
<th>JL-1050</th>
<th>JL-1130</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (mm)</td>
<td>960</td>
<td>900</td>
<td>920</td>
<td>1050</td>
<td>1130</td>
</tr>
<tr>
<td>Useful Width</td>
<td>800</td>
<td>840</td>
<td>850</td>
<td>900</td>
<td>1050</td>
</tr>
<tr>
<td>Thickness</td>
<td>1.2/1.5/1.8/2.0/2.5/3.0+0.1mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>Customized (-5700mm for 20’ container, ±11700mm for 40’ container)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purline Distance</td>
<td>500 ~ 1000mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Color Choice

- Brick Red
- Red
- Blue
- Green
- White
- Gray

### Features Of JULI PVC/UPVC/APVC/AUPVC Corrugated Sheet

- **Excellent Anti-Corrosion:** The materials of JULI PVC/UPVC/APVC/AUPVC corrugated sheets don't react with acid, alkali and salt, so it isn't corroded during the use in the long time. It is very suitable for the corrosive factories, acid rain and coastal areas.

- **Excellent Weather Resistance:** It adopts the high quality PVC as basic material adding with UV ultraviolet absorbent, antioxidant and modifier to ensure the long time durability even under the conditions of longtime exposing in UV, humidity, hot, cold and impacting, etc.

- **High Anti-Loading Capacity:** Adopt the advanced co-extrusion technology which has higher mechanical strength and physical properties comparing with normal ones.

- **Good Fireproofing Performance:** Fireproofing performance reaches to class B1.

- **Excellent Heat Insulation:** The thermal conductivity is 0.22 W/(m·K) which is about 1/3 of clay roof tile, 1/200 of 0.5mm color steel sheet. So it can keep the best heat-insulation performance without any heat insulation facilities.

- **Good Sound-Proof and Noise-Proof:** JULI PVC/UPVC/APVC/AUPVC Corrugated Sheet can effectively resist the noise from rain, wind, etc. and the noise is 30dB lower than steel sheet.

- **Excellent Insulation Resistance:** Much more safely than steel sheet especially in the thunderstorm areas and near to high voltage line areas.

- **Environment Friendly:** JULI PVC/UPVC/APVC/AUPVC Corrugated Sheets don’t including asbestos and radioactive element, meet the requirement of environment protection, can be recycled completely.

- **Light Weight:** Easy to install and transport, and save cost.
Installation Of JULI PVC/UPVC/APVC/AUPVC Corrugated Sheet:

- It's better to adopt steel or wood purlin roof truss structure, purlins should be straight without deformation and two purlins must be in parallel with some distance.
- Purlin Span: 2mm~800mm, 3.0mm~1000mm
  - The lateral lap joint must be a complete lap joint and the vertical lap joint longer than 200mm.
  - When fixed by self-drilling screws, drill a hole first. Consider expansion and contraction, the aperture have to be 30% at least larger than screw diameter, the screw must not be over-tightened.
  - Drill a hole at first before installing the self-drilling screws and the aperture of hole should be a little larger than screw diameter.
  - Considering the thermal expansion and contraction, the screw should not be too tightly to avoid the damage of main sheet.
  - The screws and fixing accessories must be not less than 4sets/m² to ensure the roof sheet structure have enough strong against strong wind.
  - At the overlap, roof sheets' placing order and paving should considering about the local prevailing wind direction. The exposed side at lap joint should be on leeward side, reversing to the prevailing wind direction.

Notes of Installation:

- When maintenance the roof tiles should put a wooden board on the top of roof tile first, then the worker step on the wooden board.
- The roofing tile should not be over-bent in order to avoid damages.
- The thermal expansion and contraction of roof tile is different from steel, expansion space should be reserved and pay attention to embedded depth. Otherwise the roof tile may deform and crack.
- It suggests use the special waterproof self-drilling screws and accessories during the installation. Especially at the eaves should use the plastic fixture to compress tightly.
- It suggests use neutral silicone sealant and gasket to deal with the water leakage treatment.

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Anti-Corrosion Polyester Sheet

JULI Anti-Corrosion Polyester Sheets adopt unsaturated polyester resin as main raw material and non-alkali fiberglass chopped stitch felt as main reinforced material, plus with weather-resistance polyester felt and fluorocarbon coating. It is the high density and strength sheets that produced under high temperature & pressure of 8000KG tensile force with the current most advanced composite pultrusion technology.

With the reasonable production prescription, ingredients and design, JULI Anti-Corrosion Polyester Sheets have overcome all the shortages of other ordinary composite materials, such as steel sheet's corrosion rust, intolerant aging, coating peeling off, big noise in wind and rain environment, etc. And also have solved the problems of FRP corrugated sheets for uneven thickness, rough, low weatherability, film easy aging off, flammable, easy chalking and cracking, and no hydrofluoric resistance, etc.

Widely used for light steel structure building, factories, farmers' markets, garages, parking, villas, agricultural greenhouse, chemical industries, grain storage, new rural reconstruction, fence construction, prefabricated houses, stadiums, waiting room, etc. JULI Anti-Corrosion Polyester Sheet is light at weight (3.4KG/Square Meter), low comprehensive cost.
Features of JULI Anti-Corrosion Polyester Sheet:

Stable Geometry Performance, Excellent High And Low Temperature Resistance: JULI Anti-Corrosion Polyester Sheet are soiled and shaped under the average production temperature of 192°C. After testing, the heat distortion temperature is higher than 250°C and the thermal expansion coefficient is 1.02×10⁻⁵°C⁻¹. There is no crack, hollowing, bubble and peeling off after 30 times’ freezing cycle testing. Therefore there is no droop, swell and deformation during use.

Excellent Weather Resistance: Doubly protected by fluorocarbon coating and polyester felt, ensure long lifetime and still keep the stability even chronically exposure in the environments of UV, hot, cold, damp and corrode. (E≤6 via CN10062 hours’ weather resistance test by CNAC, accordance with Nation Technical Standard. Note: 10000 hours in lab is equal to 20 years in nature environment.)

Excellent Corrosion Resistance: The materials of JULI Anti-Corrosion Polyester Sheet itself have the natural anti-corrosion characteristics. There is no obvious change after soaking 120 hours in the solutions of 15% hydrochloric acid, 20% sulfuric acid, 40% hydrofluoric acid, 15% silicic acid, 20% phosphoric, 20% nitric, 5% sodium hydroxide and ammonia.

Strong Wind Resistance: JULI Anti-Corrosion Polyester Sheets themselves are tough and compact which can withstand 2000pa wind pressure (equal to wind grade 8~10)

Excellent Anti-Hail Performance: There is no broken and damage within 50mm hails for JULI Anti-Corrosion Polyester Sheets have adopted non-alkali fiberglass chopped stitch felt as reinforced material with high impact-resistance. Test with 1KG steel ball free falling from 3M height, no any breaking.

Excellent Load-Carrying Performance: Adopts the advanced composite pultrusion technology, with excellent mechanical strength and physical properties.

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### Table: Allowed Max Purlin Space of Anti-Corrosion Polyester Sheet:

<table>
<thead>
<tr>
<th>Model</th>
<th>Thickness</th>
<th>Supporting Condition</th>
<th>Loading KN/M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZT.40-235-940</td>
<td>1.7mm</td>
<td>Multi Span (mm)</td>
<td>2900</td>
</tr>
<tr>
<td>JZB.66-470-940</td>
<td>2.0mm</td>
<td>Multi Span (mm)</td>
<td>3000</td>
</tr>
<tr>
<td>JZB.66-470-940</td>
<td>2.5mm</td>
<td>Multi Span (mm)</td>
<td>3500</td>
</tr>
</tbody>
</table>
**Installation Of JULI Anti-Corrosion Polyester Sheet:**

- **Model:** JZT.40-235-940 (roof and wall sheets) and JZB.66-470-840 roof sheets.
- **Above models are suitable for the roof span 1:5–1:20.**
- **Can be directly covered on flat thermal insulation material**

**Overlap:**
- Width overlap (transverse overlap) request: JZT and JZB series wall and roof sheets, all overlap a wave.
- Length overlap (longitudinal overlap) request: Over purins’ length is not less than 150mm.
- Over laps’ length: <250mm

**Fixing:**
- Use special anti-corrosion and waterproof accessories which produced by our factory, and fixed by self-tapping screws.
- Each purin and roof sheet should evenly fix with two sets accessories. The accessories should be fixed on wave crest and flat surface only available for some special conditions.
- It shouldn’t be too tight when install self-tapping screws with the measurement for non-deformation of roof sheets, or else, might influence flatness.
- Each wave crest of roof sheets must be fixed on purins at the longitudinal edges and each roof sheet should be add fixing accessories at wavy areas.
- Don’t fix the ridges separately on the underneath roof sheets by rivet, must fix ridges and roof sheets together on the underneath purins by self-tapping screws.

**Installation:**
- In order to ensure people safety during installation, must use ladder and other qualified safety facilities and fasten safety belt.
- Don’t step on the middle of two purins but must on the purins. Don’t step on wave crest of roof sheets, especially JZT series sheets, but must be on wave trough. Please checking the photos above.
- When install ridge roof, the top of sides’ roof sheets should butt together and align. Then installed simultaneously with ridges.
- When install under the temperature of -5°C, take effective slip-resistant measures, and fasten safety belt.
- Please be installed by professional qualified installation team to ensure good installation quality.

**Drilling**
- Drilled by electric drill.
- When drill, ensure roof sheets have placed well on purins.
- Directly drilled by self-tapping screws and appropriately fasten but ensure roof sheets are non-deformation.

**Cut with fine-toothed saw when cut roof sheet.**
Projects

JULI
ROOFING TILE

JULI
Anti-Corrosion
Polyester Purlin

Unsaturated polyester resin, continuous non-alkali fiberglass yarn, non-alkali fiberglass chopped stitch felt and processing aids as main raw material, adopts advanced technology and machines, to be produced out under the condition of high pressure and high temperature.

JULI Anti-Corrosion Polyester Purlin is made from the raw materials of unsaturated polyester resin, continuous non-alkali fiberglass yarn, non-alkali fiberglass chopped stitch felt and processing aids under the high temperature with the reasonable prescription and advanced technology.

With the reasonable designing, Anti-Corrosion Polyester Purlins have effectively solved the internal corrosion problems of steel purlins and plastic covered steel purlins (PVC dip or plastic spraying), which surface layers are broken and fall off during transportation and installation. And highly meet purlin intensity requirements for light steel structures.

JULI Anti-Corrosion Polyester Purlins have the advantages of excellent corrosion resistance, high strength, easy installation, maintenance free, etc. Which have been regarded as the best material for anti-corrosion, anti-earthquake and anti-typhoon.

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Anti-Corrosion Polyester Purlin JZL 220(200/160)-60-5

**Size and Parameter:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Beam Space</th>
<th>Purlin Space (mm)</th>
<th>Loading (KN/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZL 220-60-5</td>
<td>6000</td>
<td>1.00</td>
<td>0.83</td>
</tr>
<tr>
<td>JZL 220-60-5</td>
<td>8000</td>
<td>1.00</td>
<td>0.83</td>
</tr>
</tbody>
</table>

**Installation of JULI Anti-Corrosion Polyester Purlin:**

Not allowed to put too many roof sheets or other debris on anti-corrosion purlins. No more than two workers step on each purlin during installation.

Purlins are placed directly on steel beams and no sill between them. Install special supporting end caps at the two ends of anti-corrosion purlins before installing bolts. When installing bolts, keep nuts and sleeves tight but at the same side. Fix bolts appropriately without damaging purlins' shape.

For Model 220 anti-corrosion purlins, beam space <8000mm, purlin space <15000mm. Design purlin space according to anti-corrosion purlins' loading requirements.

Wall purlins, doors and windows should connect with L-type connectors. Then the connections are fixed by bolts.

The middle positions of wall purlins should use rods to support and then adjust smoothly.

**Storage and Transportation:**

Store on flat surface. Length of flat surface shall not be shorter than length of sheets, and must be placed stably.

Sheets with different shapes should not put together. And the shorter roof sheet should put on the longer ones when store the same shape roofing sheets.

Please keep the roof sheet in cool place if need to store in long time.

Please avoid breaking, galling and scratching the surfaces during moving.

If put the sheets outdoor, please use the ropes to keep all the components together to prevent from blowing away and scraping.
Projects

JULI Synthetic Resin Roof Tile
JULI PVC/UPVC/APVC/AUPVC Corrugated Sheet

JULI Anti-Corrosion Polyester Sheet
JULI Anti-Corrosion Polyester Purlin

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Pharmaceutical Enterprises
Coking Enterprises
Electroplating Enterprises
Battery Enterprise
Farming Enterprise
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