TWINlite®

Premium Multiwall Polycarbonate Sheet

» STRONGER

» BETTER WEATHER RESISTANT

15 YEARS WARRANTY

Certified System

Quality Management System

ISO 9001:2015

Lic no: QEP/86129

SAI GLOBAL

Environmental Management System

ISO 14001:2015

Lic no: EMS 411103

SAI GLOBAL
A Perfect Combination of Technology, Quality, and Beauty

Twinlite® Gen 2.0 is a new generation of Twinlite, a result of our continuous improvements to give you a better product.

The new Twinlite® Gen 2.0 is re-formulated to resist harsh weather condition, and redesigned to deliver unique benefits like superior impact, wind, and water resistance.

Produced using the most advanced and proven technology to date, Twinlite® Gen 2.0 combines the sleek look of a multiwall polycarbonate sheet with the strength and versatility for enduring elegance.

For you who live the green life, the superior clarity of Twinlite® Gen 2.0 could be an option for your natural lighting need, while its double/triple walls feature makes it an excellent thermal insulation to save your air conditioning cost.

Twinlite® Gen 2.0 offers superior durability, unmatched design flexibility and structural integrity that surpasses other glazing material.

Twinlite is the right choice for almost any demanding glazing application.

How Twinlite® Gen 2.0

Twinlite® Gen 2.0 reflects sunlight heat while at the same time still letting the light in; allowing people underneath to feel comfortable and to enjoy sufficient light.

Co-Extruded UV Layer

Besides protecting the people underneath from the harmful UV rays, the co-extruded UV layer on Twinlite® Gen 2.0’s surface enhances its durability outdoor, preventing it from getting yellowing, discolored, and brittle for a long period of time.

More Advantages of Twinlite® Gen 2.0

» Reduce Heat without sacrificing light transmission
» Absorbs almost 100% of sunlight UV radiation
» Natural lighting, electricity and energy saving
» 250 times stronger than glass
» 20 times stronger than acrylic
» Very light, yet virtually unbreakable
» Withstand temperature changes from -20°C to 120°C
## How Twinlite® Gen 2.0 Works

- Reflects back sunlight heat
- Allows light transmission to go in

### Standard Sizes

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Width</th>
<th>Length</th>
<th>Grammage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mm</td>
<td>2.1 m</td>
<td>11.8 m</td>
<td>1100 g/m²</td>
</tr>
<tr>
<td>6 mm</td>
<td>2.1 m</td>
<td>11.8 m</td>
<td>1300 g/m²</td>
</tr>
<tr>
<td>10 mm</td>
<td>2.1 m</td>
<td>11.8 m</td>
<td>1700 g/m²</td>
</tr>
<tr>
<td>16 mm*</td>
<td>2.1 m</td>
<td>12 m</td>
<td>2700 g/m²</td>
</tr>
</tbody>
</table>

*Available in triplewall, X structure
*Length can be customized according to your need, subject to minimum order quantity.

### Light & Heat Transmission

<table>
<thead>
<tr>
<th>Color</th>
<th>Light Transmission</th>
<th>Heat Transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool Grey</td>
<td>8%</td>
<td>22.96%</td>
</tr>
<tr>
<td>Cool Bronze</td>
<td>20%</td>
<td>28.51%</td>
</tr>
<tr>
<td>Silver Milenium</td>
<td>21%</td>
<td>7.25%</td>
</tr>
<tr>
<td>Cool Blue</td>
<td>35%</td>
<td>37.16%</td>
</tr>
<tr>
<td>Cool Green</td>
<td>35%</td>
<td>35.56%</td>
</tr>
<tr>
<td>Opal</td>
<td>26%</td>
<td>0.30%</td>
</tr>
<tr>
<td>Tosca</td>
<td>50%</td>
<td>44.39%</td>
</tr>
<tr>
<td>Clear</td>
<td>87%</td>
<td>60.31%</td>
</tr>
</tbody>
</table>

*Above data applies for Twinlite® Gen 2.0 - 6mm only
Installation Guidance

Always install the UV protected side facing the sun (marked by the UV SIDE logo printed on the masking film). Before installation, do not remove the masking film. After installation, masking film should be removed, maximum in 2 days time. 

*Caution: misplacing the UV side may void the warranty of sheets.*

A fine tooth saw or sharp knife can be used to cut the sheets. After cutting please clean the debris from the sheets.

Always install the sheets with the flutes facing vertically. Allow at least 5° slope to allow water flows, especially for roofing applications.

Holes should be drilled at the range of 2 mm - 6 mm (depending on the thickness) from diameter of fasteners to allow thermal expansion during noon time and contraction during night time.

During installation, flute edges should be sealed with polycarbonate profiles to avoid leakage, dirt, and fungus from residing within the sheet walls.

We supply polycarbonate profiles for use with Twinlite® Gen 2.0, available in H and U profiles.

Sealant

We recommend using OCI® Silicone sealant or other neutral sealant that is suitable for polycarbonate.

Please check compatibility to polycarbonate before using other sealants.

*Caution: Never use PVC gasket. PVC is incompatible to Polycarbonate, and will harm the panel. Damage caused by this will nulify the warranty.*

Bending Installation

For bending installation, please see the below radius table:

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>MINIMUM RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mm</td>
<td>750 mm</td>
</tr>
<tr>
<td>6 mm</td>
<td>900 mm</td>
</tr>
<tr>
<td>10 mm</td>
<td>1500 mm</td>
</tr>
<tr>
<td>16 mm</td>
<td>2400 mm</td>
</tr>
</tbody>
</table>

Distributed by:

PT Impack Pratama Industri Tbk

Excellence through Passion

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