

# POLYCARBONATE

LEADING CUTTING EDGE PLASTICS  
100% VIRGIN GRADE





*Malaysia*  
**MULFORD**  
PLASTICS  
*delivering solutions*

**MULFORD PLASTIC (M) SDN BHD**

No. 3, Jalan IMP 1/3  
Pusat Teknologi Sinar Meranti  
Taman Industri Meranti Perdana  
47120 Puchong, Selangor, Malaysia

Tel: +603 8066 8298  
Fax: +603 8066 5193

YOUR COMPLETE  
TRANSPARENT AND TRANSLUCENT  
POLYMER SHEET SOLUTION



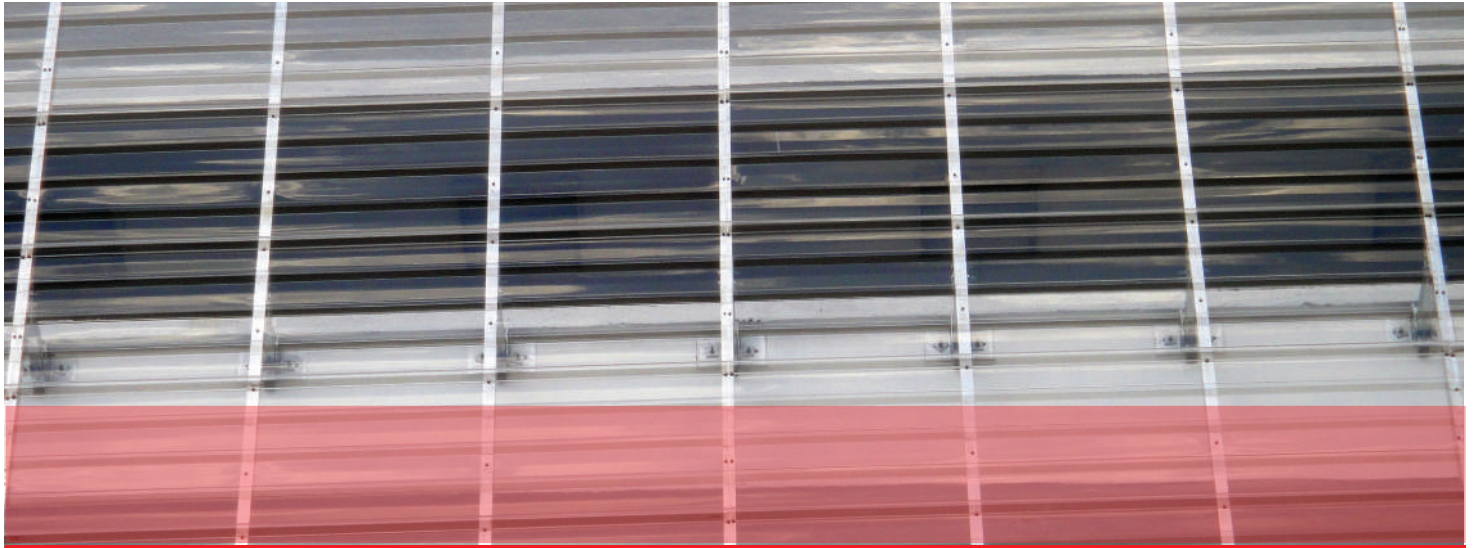
## VERMAX® POLYCARBONATE TRANSPARENT ROOFING SHEETS

Vermax® brand of Polycarbonate transparent roofing sheets are manufactured from 100% virgin grade resins from world renowned producers such as Chimei, Bayer, Sabic.

Our processes and utilization of high grade materials ensures consistent quality and performance, every time, without compromise.

**“100% VIRGIN GRADE RESINS ONLY”**





## ADVANTAGES OF USING VERMAX POLYCARBONATE TRANSPARENT ROOFING SHEETS

➤ **Superior tensile strength**

Vermax Polycarbonate transparent roofing sheets offers superior tensile strength and durability. The base material is the same used for ballistics and bullet proof panels!

➤ **Clarity and radiation filtering**

Vermax Polycarbonate transparent roofing sheets offers high transparency, which allows maximum amount of natural light while providing effective protection against harmful ultra violet rays

➤ **Thermoformability and easy installation**

Vermax Polycarbonate transparent roofing sheets can be hot or cold bent. As such they can be curved to suit various design requirements.

Relatively light weight, they can be easily installed at height without incurring excessive labour costs.

➤ **Energy saving: for a greener future**

Vermax Polycarbonate transparent roofing sheets conserves energy by cutting lighting costs significantly, with little initial investments. Greater savings, greater productivity.

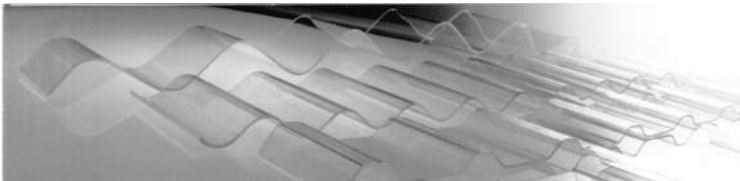
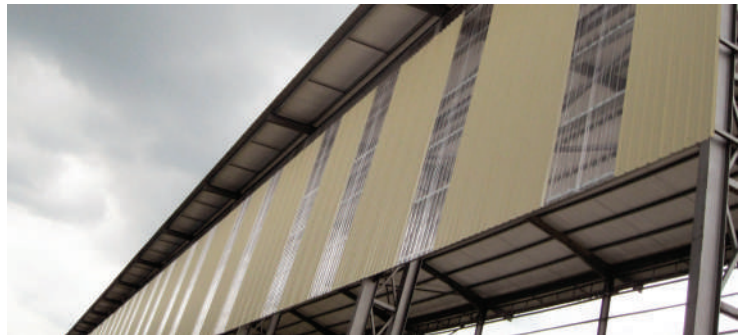
100% VIRGIN GRADE • HI-QUALITY • SIRIM TESTED



# PRODUCT SPECIFICATION

# APPLICATION

- > **100% Virgin grade resins, with in-built UV inhibitors**
- > **Weather resistant, high durability, good impact resistance**
- > **UV filtration up to 99%**

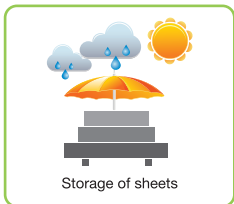


## ROOF PROFILES AVAILABLE :

- > Trimdek 740mm
- > Trimdek 760mm
- > MSP 750mm
- > 3" Corrugation
- > Custom made other roof profile

- > **General warehouses**
- > **Commercial spaces**
- > **Residential skylights**
- > **Sports complexes**

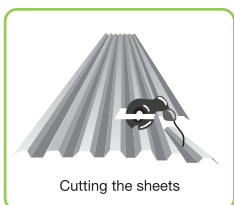
## VERMAX® INSTALLATION GUIDE



Storage of sheets

### Handling and Storage

1. Transport and storage Vermax® Polycarbonate Transparent Roofing Sheets horizontally on flat.
2. Avoid storing unwrapped Vermax® Polycarbonate Transparent Roofing Sheets.
3. Short Vermax® Polycarbonate Transparent Roofing Sheets should be stacked on top of longer ones. Do not stack up more than 1 meter in height.
4. Store Vermax® Polycarbonate Transparent Roofing Sheets in a cool, dry and shaded place, protected from direct sunlight.  
Avoid covering the stacks of Vermax® Polycarbonate Transparent Roofing Sheets with dark or heat-absorbing materials objects, to prevent solar heat build-up.
5. Recommended handling:
  - a) Protect the sheets from any physical damage.
  - b) Avoid stepping on the panel when it on the ground.
  - c) Avoid folding panels across the corrugation during handling and installation.
  - d) Do not drag the Vermax® Polycarbonate Transparent Roofing Sheets on the ground or scrape them against structural elements or other rough objects.

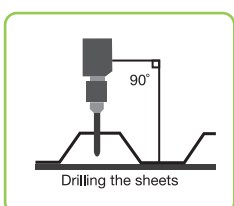


Cutting the sheets

### Processing

#### 1. Cutting

- a) Use fine-toothed tenon saw.
- b) Power saws with abrasive cutting-off wheel or circular saw blade suitable for cutting Vermax® Polycarbonate Transparent Roofing Sheets with dark or
- c) Jig saw with suitable blade may be used as well.



Drilling the sheets

#### 2. Drilling

- a) Pre-drill the required fixing holes to at least 4-5 mm larger than the diameter of the screw used. (e.g. Diameter of screw 4mm, hole drilled require minimum 8mm or larger).
- b) Power drill may be use at LOW SPEED and the drill bit must be ground to suit the Vermax® Polycarbonate Transparent Roofing Sheets with dark or
- c) Avoid drilling hole by punching.
- d) Drilling vertically at 90°

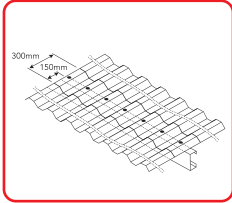
# VERMAX® INSTALLATION GUIDE



## Roof Details

### 1. Pitch

- The minimum recommended roof pitch for Vermax® Polycarbonate Transparent Roofing Sheets application is 6° (10% slope).
- For roof pitch less than 10° (1:5.6) apply full sealing system (Neutral Silicone Sealants) on all lapping and drilled holes.

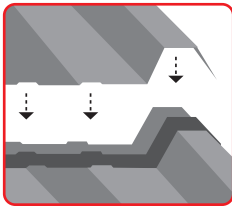


### 2. Purlins

- Roof purlins must have a level face parallel to the Vermax® Polycarbonate Transparent Roofing Sheets.
- The allowed maximum roof span (purlins distance - center to center) is 1.2 meter.

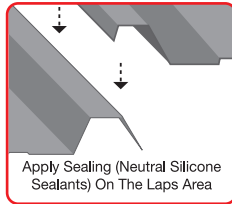
### 3. Positioning

- Lay the Vermax® Polycarbonate Transparent Roofing Sheets to overlap the metal roof panels on both sides. If not feasible - Vermax® Polycarbonate Transparent Roofing Sheets must underlap the metal roof panels side against the primary direction of wind/rain.
- Vermax® Polycarbonate Transparent Roofing Sheets must be located and installed without any stresses. Do not pull, stretch or force the sheets when the profiles are not perfectly matched.



### 4. Overlaps

- Recommended longitude overlap of minimum 300mm above purlin.
- Each Vermax® Polycarbonate Transparent Roofing Sheet to extend 150mm or over the fixings along the purlin.
- Recommended apply two runs of sealing (Neutral Silicone Sealants) on both sides of fasteners line.



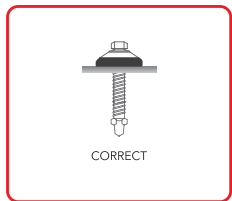
### 5. Side-laps

- Recommended apply sealing (Neutral Silicone Sealants) along the centreline of the corrugation ribs



### 6. Fastening

- Pre-drill 10mm or more holes at the screw points.
- Fasten screws on every purlin from the lower end towards the upper end sequentially, starting always from the same side.
- Always fasten through the ribs of the Vermax® Polycarbonate Transparent Roofing Sheets. Do not fasten screw on the valley.
- The screws should be tightened moderately, without deforming the washer and distorting the Vermax® Polycarbonate Transparent Roofing Sheets. Careful attention should be given to assure perpendicular insertion of the fasteners.
- Excess tightening and oblique insertion will distort the Vermax® High-Impact Acrylic Transparent Roofing Sheets induce undue internal stresses, leading to fracture and cracks, eventually ending in failure.
- Screws fasten positioning vertically at 90°. Screws fasten position at the center of the pre-drill hole and not the side or corner of the pre-drill hole.
- Do not fasten screw at the side or corner of the ribs.
- Never use an impact wrench or driver for fastening Vermax® Polycarbonate Transparent Roofing Sheets. Tighten by hand or by an adjustable torque power screwdriver .
- Do not use Drive Screw, Nails or Pop Rivets.



## TECHNICAL ADVICE:

If you are doubtful over the fixing and installation method, please contact our Project Technician or Marketing personnel for proper advice and assistance.

## MANUFACTURER'S LIABILITIES:

The information contained in this brochure is to our best knowledge, accurate and proper, but all the recommendations are made Without Guarantee. Since the conditions of use at work site are beyond our control, we therefore Hold No Liabilities for any mishandling and workmanship defects in using our skylight materials.



POLYCARBONATE TRANSPARENT ROOFING SHEETS