



**Fortech**<sup>TM</sup>

Applications:



ROOFING



FAÇADE



INTERIOR

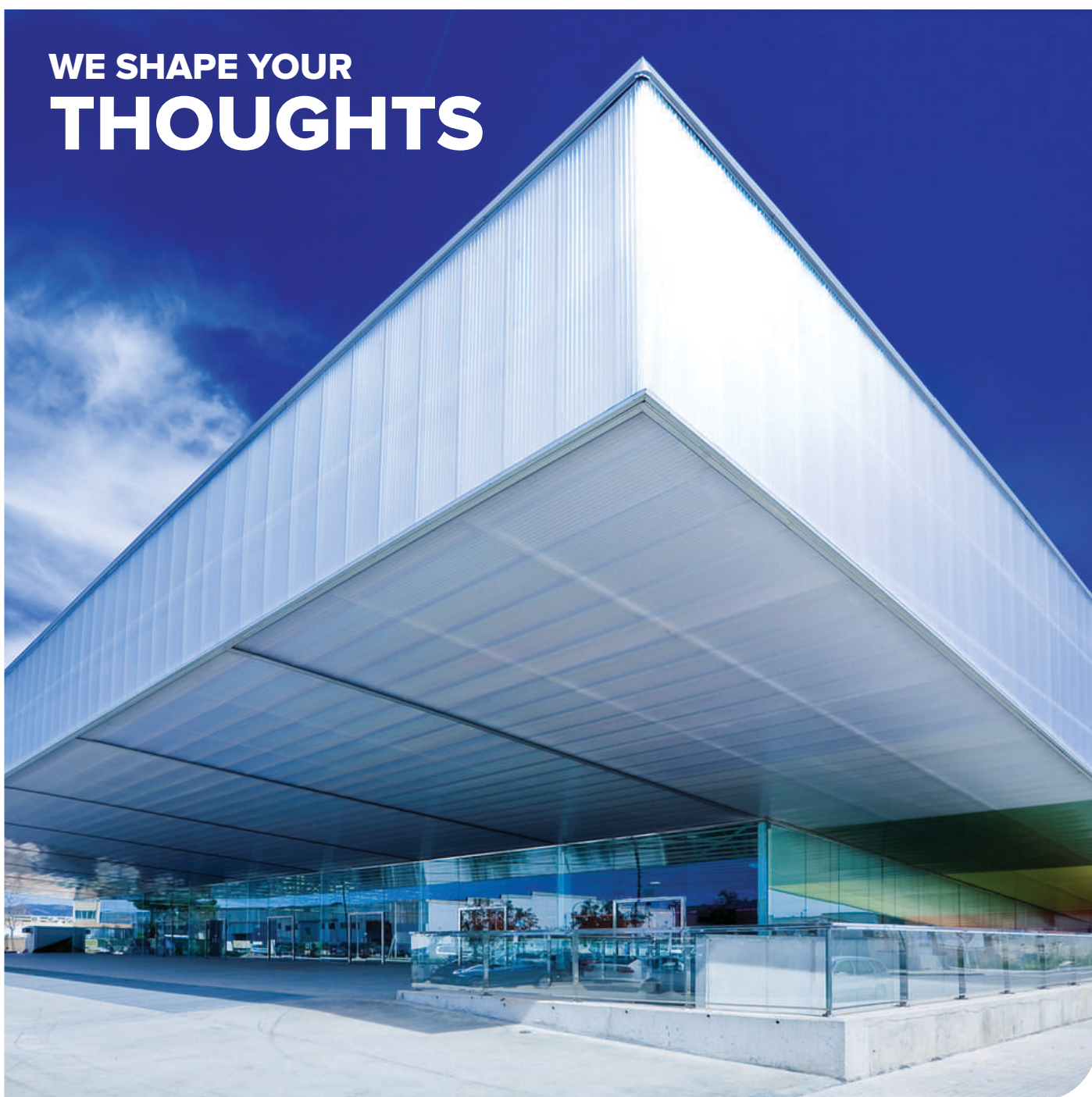


OUTDOOR



SECURITY  
GLAZING

**WE SHAPE YOUR  
THOUGHTS**





## Introduction

Established in 2017, with a team of Extrusion Technology Experts, SKYDOM Industries became a renowned brand for manufacturing, wholesaling and trading the polycarbonate sheets and articles. We are proudly an ISO 9001:2015 certified Company for adapting upgraded machinery and a seamless development process.

We make a perfect blend of engineers, technology, machinery, labour, tools and management to fulfill all demands of engineering applications for robust and resistant glass-like surfaces. Considering our Plastic Engineering expertise, we are listed among the top Polycarbonate Profile Sheet manufacturers in India in a short time. Our young and enthusiast Polycarbonate Process Experts have developed smooth in-house processes to fabricate a range of products of Polycarbonate.

## Our Strengths

- Great Industry Experience
- 20,000 sq. ft Development Area
- Standby Team of Tech-Experts
- Adapting Latest Technology and Process
- Trained Labor Staff
- Transparent Management

## Group of Companies

### **SHREE AADINATH PLASTICS & ENG. COMPANY**

Since 1990

(Mfg. of Customized Vacuum / Thermoformed Articles)

### **ARIHANT FORTECH INDUSTRIES**

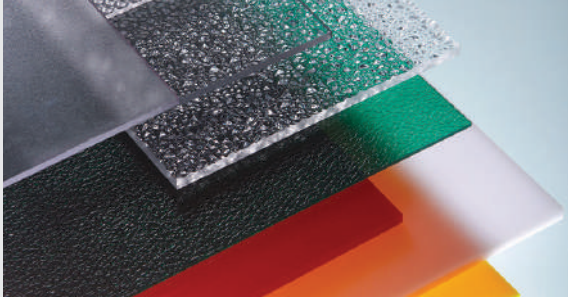
Since 2007

(Mfg. of Extruded Plastic Sheets)

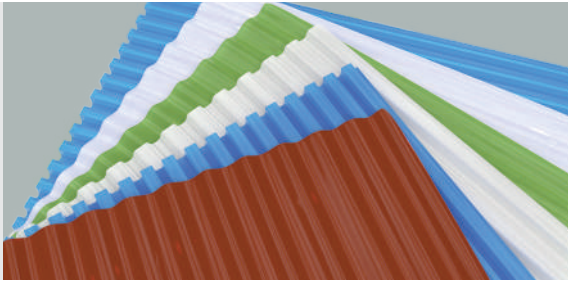
### **SKYDOM INDUSTRIES**

Since 2017

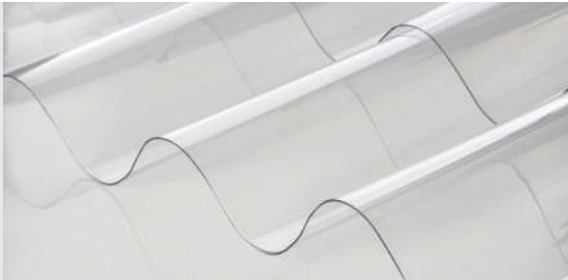
(Mfg. of Polycarbonate Sheets & Articles)



Fortech® Polycarbonate Solid Sheets



Fortech® Polycarbonate Corrugated Sheets



Fortech® Polycarbonate Profile Sheets



Fortech® Polycarbonate Base Plate



Fortech® Polycarbonate Skylight Domes



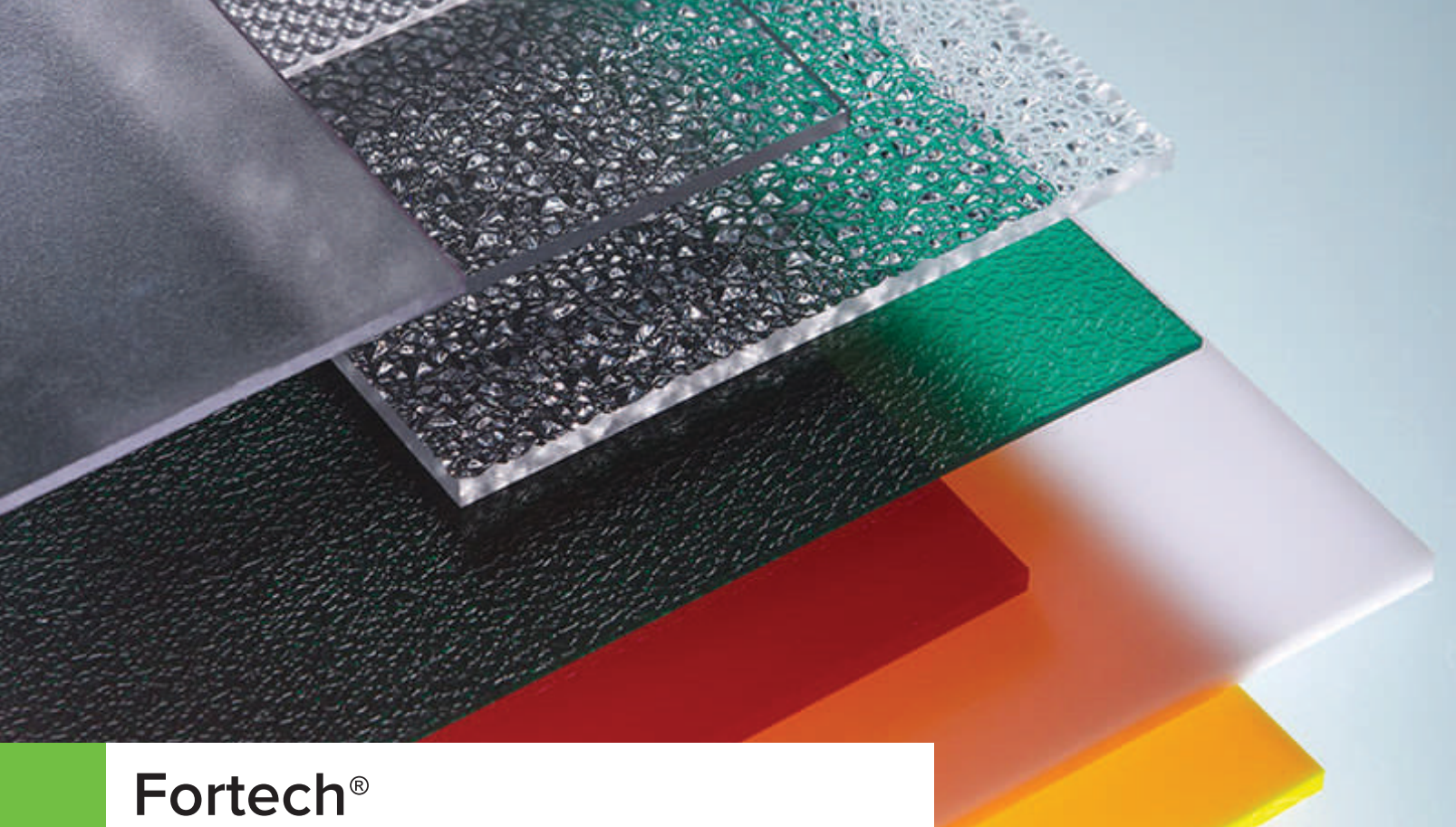
Fortech® Polycarbonate Multiwall Sheets



Fortech® Polycarbonate Standing Seam



Fortech® Turbo Air Ventilator



# Fortech® Polycarbonate Solid Sheets

Fortech® polycarbonate sheet offers a unique combination of material properties that makes it superior to other thermoplastic material or glass, making it the ideal product for roofing, façade, interior, glazing and fabrication. Fortech® polycarbonate sheets are an excellent alternative to glass for a wide range of applications as they are 200 times stronger and weight less than half. Fortech® polycarbonate solid sheets are made from premium grade UV Stabilized pc resins. Fortech® polycarbonate sheet offer extraordinary impact resistance and durability, and are available in a range of tints from glass-like clarity to shaded-with or without diffusion, and variant of tailor made colors.

## Features

- Virtually Unbreakable
- High Transparency
- Extreme Impact Strength
- Weather & UV resistance
- Easily Machined, Fabricate & Installation
- Thermoformable
- Low Weight
- Sound Insulation
- ECO friendly material

## Textured Offered

- Both-Side Plain
- Embossed
- Diamond

## Sizes & Colors

- Width: Up to 2100MM
- Thickness: 1mm to 12mm
- Colors: Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made

## Applications

### Construction & Infrastructure industries

- Skylights
- Skywalks
- Façade
- Interior partitions
- Greenhouses
- Stadium roofing
- Awnings

### Advertising Industry

- Sign & Display
- LED lighting
- Billboards
- Bus Shelter Advertising Panels
- Advertising Light Boxes

### Security Industry

- Police shield
- Safety Glazing

## Product Range

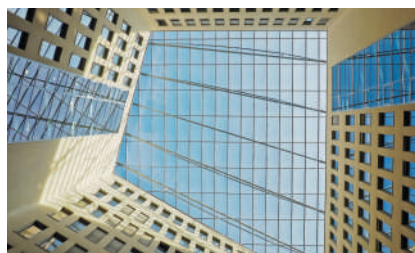


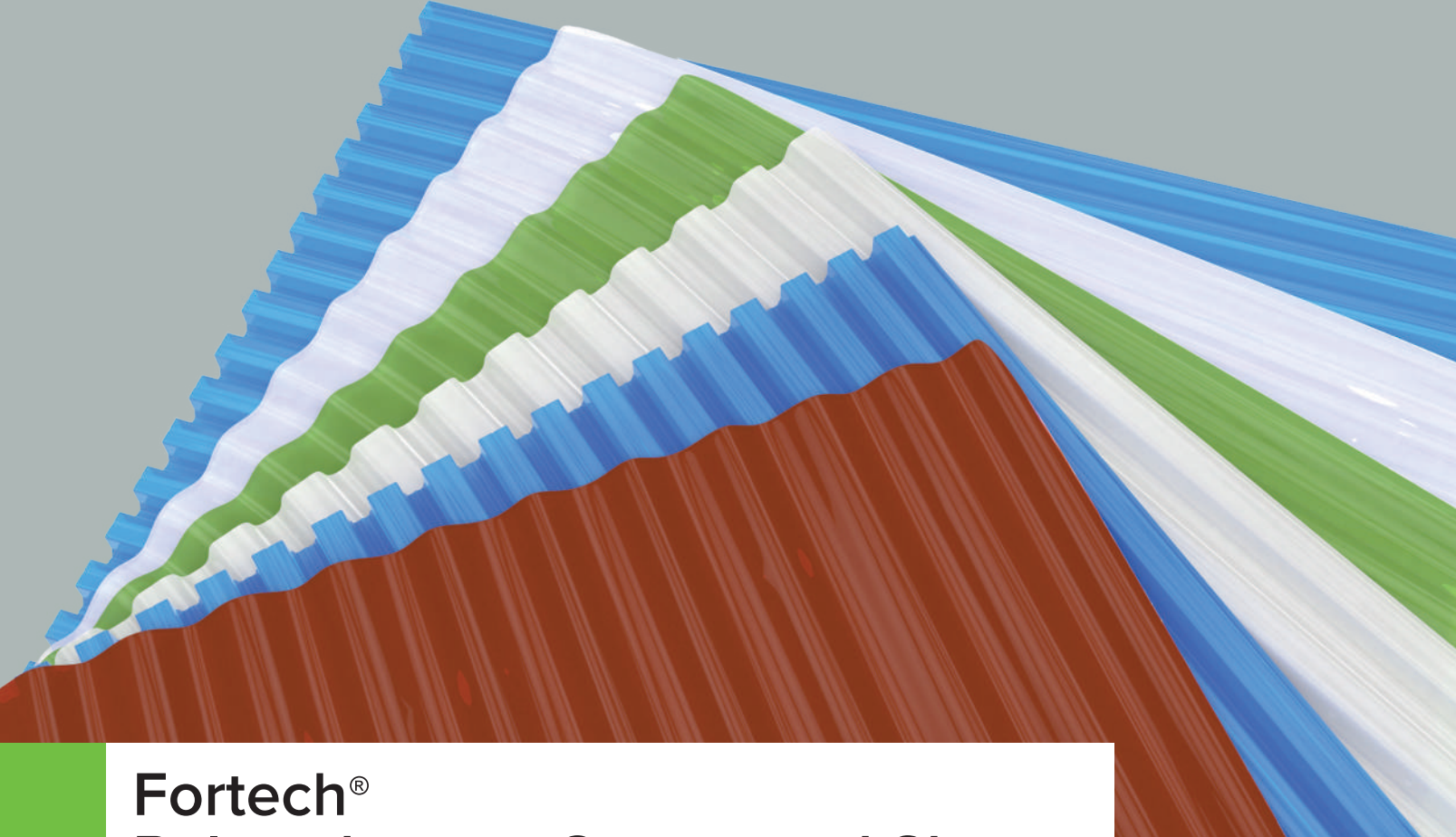
## Specifications

| Description     | Fortech® - UV 3000 Series                                   | Fortech® - UV 5000 Series                                   |
|-----------------|-------------------------------------------------------------|-------------------------------------------------------------|
| UV Stabilized   | Yes                                                         | Yes                                                         |
| UV Coating      | NA                                                          | 40-50 μ                                                     |
| Both Side Plain | Available                                                   | Available                                                   |
| Embossed        | Available                                                   | Available                                                   |
| Diamond         | Available                                                   | Available                                                   |
| Colors          | Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made | Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made |
| Thickness       | 1mm - 12mm                                                  | 1mm - 12mm                                                  |
| Width           | Up to 2100mm                                                | Up to 2100mm                                                |

## Technical Data Sheet

| General                                        |             |            |           |
|------------------------------------------------|-------------|------------|-----------|
| General Properties                             | Method      | Units      | Value     |
| Density                                        | ISO 1183    | g/cm3      | 1.2       |
| Light Transmission (Depending on thickness)    | ASTM D 1003 | %          | 81-90     |
| Reflective index                               | ISO 489     |            | 1585      |
| Mechanical                                     |             |            |           |
| Tensile Strength at yield                      | ISO 527-2   | MPa        | 60        |
| Tensile Modulus                                | ISO 527-2   | MPa        | 2300      |
| Elongation at break                            | ISO 527-2   | %          | >100      |
| Elongation at yield                            |             | %          | 6         |
| Flexural Modulus                               | ISO 178     | MPa        | 2330      |
| Charpy Un-notched                              | ISO 179     | KJ/m2      | Not Break |
| Izod Impact notched                            | ISO 180a    | KJ/m2      | > 65      |
| Thermal                                        |             |            |           |
| Temp of deflection (HTD) Under load of 1.8 MPa | ISO 75-1    | °C         | 130       |
| Vicat softening temp (50 °C/h 50N)             | ISO 306     | °C         | 144       |
| Thermal conductivity                           | DIN52612    | W/m x°C    | 0.2       |
| Coefficient of linear thermal expansion 0-50°C | ISO 11359   | mm/(mx1°C) | 0.070     |
| GWFI(Glow-wire Flammability index)             | IEC60695-2  | °C         | 900       |
| Electrical                                     |             |            |           |
| Volume Resistivity                             | IES 60093   | Ω x cm     | 3 x 1014  |
| Surface Resistivity, dry                       | IEC 60093   | Ω          | 6 x 1015  |
| Dissipation Factor 1Mhz                        | IEC60250    |            | 0.009     |
| Dissipation Factor 100Hz                       | IEC60250    |            | 0.0006    |





# Fortech® Polycarbonate Corrugated Sheets

As leading polycarbonate sheet manufacturers, Fortech® manufactures corrugated polycarbonate roofing sheets that embody superior performance with exemplary impact resistivity. These sheets are available in a range of choices for light transmission and possess fire resistant properties. These sheets are deemed fit for commercial establishments, industrial applications, residential areas and warehouses. The profiled are manufactured with precise specifications to find an apt use in industrial roof illumination and daylight cladding. The use of corrugated polycarbonate roofing sheets is greatly beneficial in enhancing daylight harvesting.

## Features

- Long-term performance
- Ability to withstand heavy loads
- Flexible installation
- Impact resistant and virtually unbreakable
- Transparent: Up to 90% Light Transmission
- Weather and UV resistant
- Wide service temperature range
- Blocks 99.9% of harmful UV radiation
- Lightweight – less than half the weight of glass
- Good fire rating
- Easy to work with and install with standard tools

## Sizes & Colors

Width: Up to 2100MM

Thickness: 1mm to 3mm

Colors: Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made

## Applications

### Construction & Infrastructure industries

- Skylights
- Architectural roofing
- Industrial roof lights
- Residential roofing: pergolas, canopies, patios & sun rooms, etc.
- Light roofing and awnings
- Swimming pools & spa facilities

### Agriculture

- Commercial greenhouses
- Gardening centers

### Textured offered (With photos)

Both-Side Plain

Embossed

Diamond

Product Range



Specifications

| Description     | Fortech® - UV 3000 Series                                   | Fortech® - UV 5000 Series                                   |
|-----------------|-------------------------------------------------------------|-------------------------------------------------------------|
| UV Stabilized   | Yes                                                         | Yes                                                         |
| UV Coating      | NA                                                          | 40-50 µ                                                     |
| Both Side Plain | Available                                                   | Available                                                   |
| Embossed        | Available                                                   | Available                                                   |
| Diamond         | NA                                                          | NA                                                          |
| Colors          | Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made | Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made |
| Thickness       | 1mm - 3mm                                                   | 1mm - 3mm                                                   |
| Width           | Up to 1220mm                                                | Up to 1220mm                                                |





## Fortech® Polycarbonate Base Plate & Skylight Domes

Fortech® Polycarbonate Base Plates are used to fix Turbo Ventilators on roofs. Fortech® Polycarbonate Base Plate is an excellent replacement for FRP. Fortech® Polycarbonate Base Plates are made from premium Fortech® Polycarbonate sheets. Our Expertise in Roofing Products enable us to design base plates matching with metal sheet precision, thus eliminating the possibility of leakage. Fortech® Polycarbonate Base Plate transmits light up to 85% for long time. These base plates are virtually unbreakable, fire retardant, UV Resistant and easy to handle and install. Fortech® Polycarbonate Base Plate can be used for factories, ware houses, Workshops & Industrial sheds. We have more than 35 different profiles to meet your requirement. Even we can develop tailor made profiles as per your requirement.

### Features

- Ability to withstand heavy loads
- Flexible installation
- Impact resistant and virtually unbreakable
- Transparent: up to 90% Light Transmission
- Weather and UV resistant
- Wide service temperature range
- Blocks 99.9% of harmful UV radiation
- Lightweight – less than half the weight of glass
- Good fire rating
- Easy to work with and install with standard tools
- Long-term performance



## Product Range



## Specifications

| Description     | Fortech® - UV 3000 Series                                   | Fortech® - UV 5000 Series                                   |
|-----------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Diameter        | 21" & 24"                                                   | 21" & 24"                                                   |
| UV Stabilized   | Yes                                                         | Yes                                                         |
| UV Coating      | NA                                                          | 40-50 $\mu$                                                 |
| Both Side Plain | Available                                                   | Available                                                   |
| Embossed        | Available                                                   | Available                                                   |
| Diamond         | Available                                                   | Available                                                   |
| Colors          | Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made | Clear, Grey, Opal, Milky White, Bronze, Blue, & Tailor made |
| Thickness       | 2mm-6mm                                                     | 2mm-6mm                                                     |
| Width           | Up to 1220mm                                                | Up to 1220mm                                                |
| Length          | Up to 2440mm                                                | p to 2440mm                                                 |

## Why should we use Fortech®

### Polycarbonate Base Plate as compared to Fiberglass base plate?

#### Appearance

Polycarbonate sheets are much cleaner to look at than fiberglass; and they don't deteriorate in their appearance even when exposed to sunlight and other environmental conditions; this being the most important benefit of having a polycarbonate roof. No matter what kind of environment, and no matter what kind of modifications made to the roof, polycarbonates always maintain their clean look, while fiberglass will start looking dull relatively faster.

#### Durability

You always want your roof to be durable so that it can last longer, and you have to encounter no hassles of replacement or repair for years to come after installation. Here again, polycarbonate is the clear winner as it can withstand the harshest environmental conditions, may it be extreme climate, snowfall, heavy rain, UV rays, wind, or any other impact. Polycarbonate is used in bulletproof windows, so you can imagine how strong it may be! It has a tensile strength of 900 pounds per square inch, compared to the 220 pounds of fiberglass. We can clearly see how polycarbonate has more than four times the impact resistance of fiberglass.

#### Installation

The installation of polycarbonate is very easy and hassle-free, mainly because it is so lightweight and easy to carry. Polycarbonate weighs 40% lesser than fiberglass, thus making it easier to ship, carry, and install; resulting in cost-effectiveness too.

#### Health risks

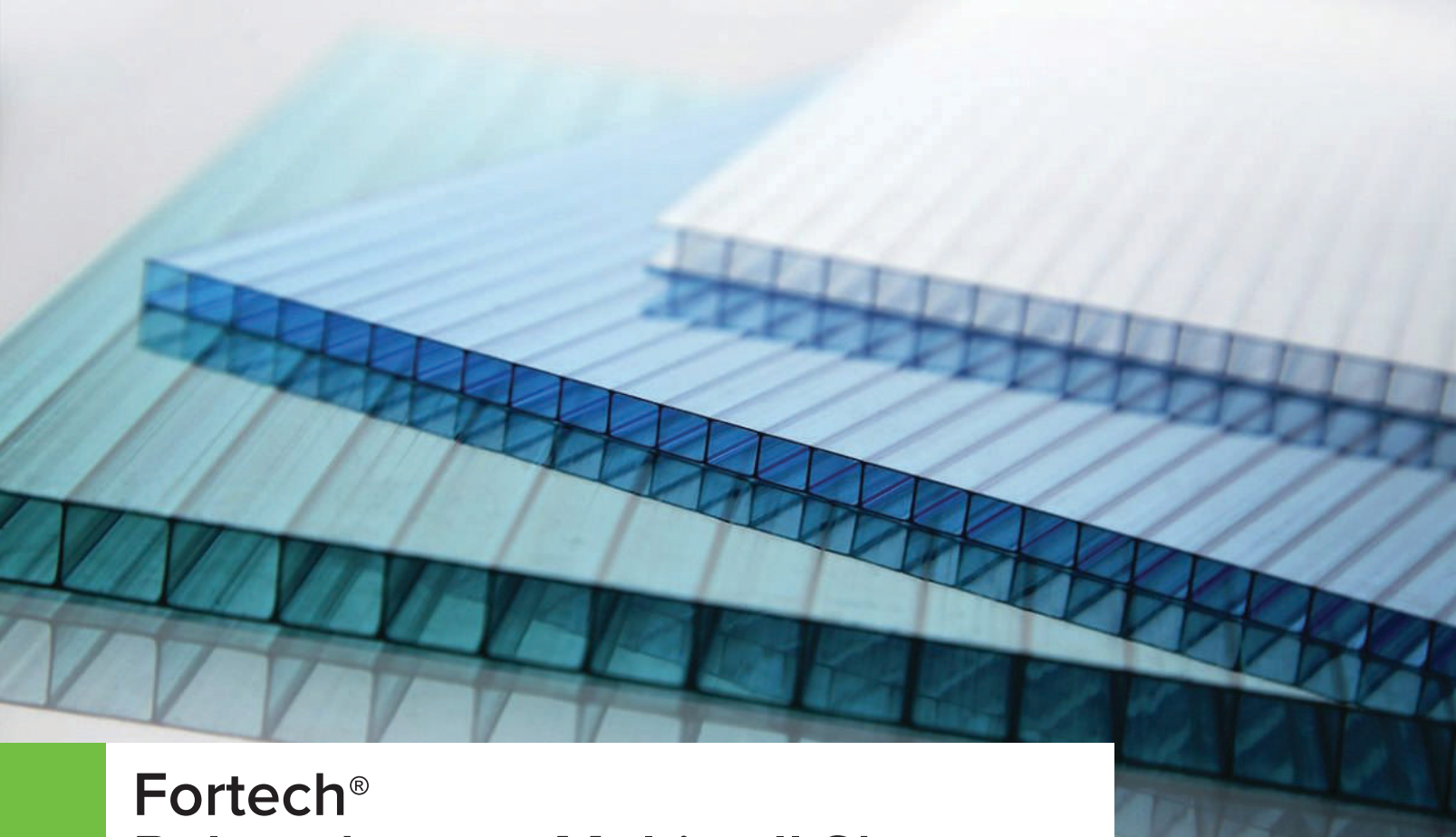
Working with polycarbonates is much easier, cleaner, and harmless as compared to modifying fiberglass. Fiberglass is made of interwoven fibers which results in splintering when modified. Whether you want to drill a hole into the sheet, or cut small the size of the sheet, working with fiberglass can be irritable and harmful as the material produces dust that can irritate the skin and eyes, and is also dangerous to inhale. Polycarbonate, on the other hand, when cut or drilled, make the process easier and cleaner as the material produces small shavings that pose no health risks, and are also easy to clean.

#### UV resistance

When exposed to UV light for longer, fiberglass that is made of fibers starts to deteriorate and fade away gradually over time. On the other hand, polycarbonates are devoid of fibers, which means they can maintain their color even when they are exposed to the UV radiations of the sun. Because roofs are exposed to prolonged periods of sunlight, installing polycarbonate roofing sheets should be the best option.

#### Possibility to reprocess

When fiberglass is broken or damaged, it is disposed as it is of no use then. Conversely, polycarbonate in the same case can be recycled and processed for re-use. This makes polycarbonate highly environment-friendly as compared to fiberglass.



# Fortech® Polycarbonate Multiwall Sheets

Fortech® Polycarbonate Multiwall sheets feature a cellular structure with at least two walls and connective ribbing. This creates insulating air spaces (cells) that help reduce thermal transfer and result in a rigid, impact-resistant sheet that is significantly lighter in weight than solid polycarbonate, acrylic or glass sheets. In addition, this solution offers substantially better energy efficiency than any single-layer sheet. The Fortech® Polycarbonate Multiwall product range offers many options - from built-in condensate control for greenhouses & garden centers to advanced tints that reduce solar heat gain while providing greater light transmission and clarity. Fortech® Polycarbonate Multiwall sheets can be used for exterior roofing, wall cladding, or glazing applications; or for interior partitions, displays, and POP merchandising displays.

## Features

- High thermal insulation
- Lighter weight than solid panels with excellent rigidity
- Impact resistant
- Excellent structural durability
- Weather and UV resistant
- Blocks virtually all UV radiation
- Easy to handle and install
- High fire rating

## Applications

- Architectural roofing and glazing
- Skylights and sidelights
- Conservatory roofing
- Covered walkways
- Illuminated signage and backdrops
- Decorative partitions
- POP merchandising displays
- Greenhouse and garden center roofing

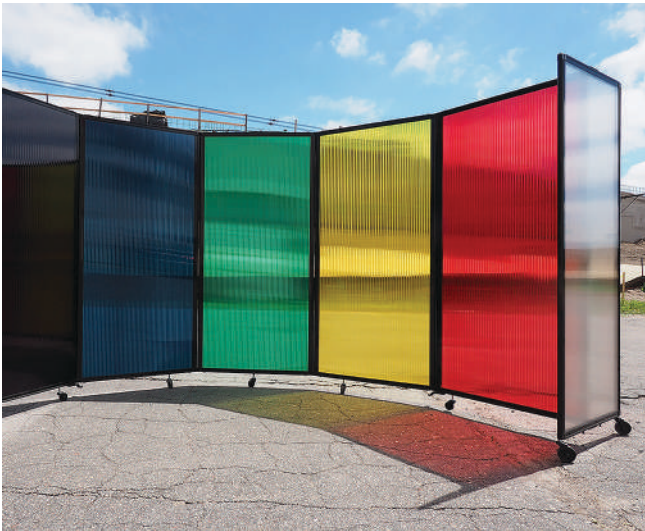


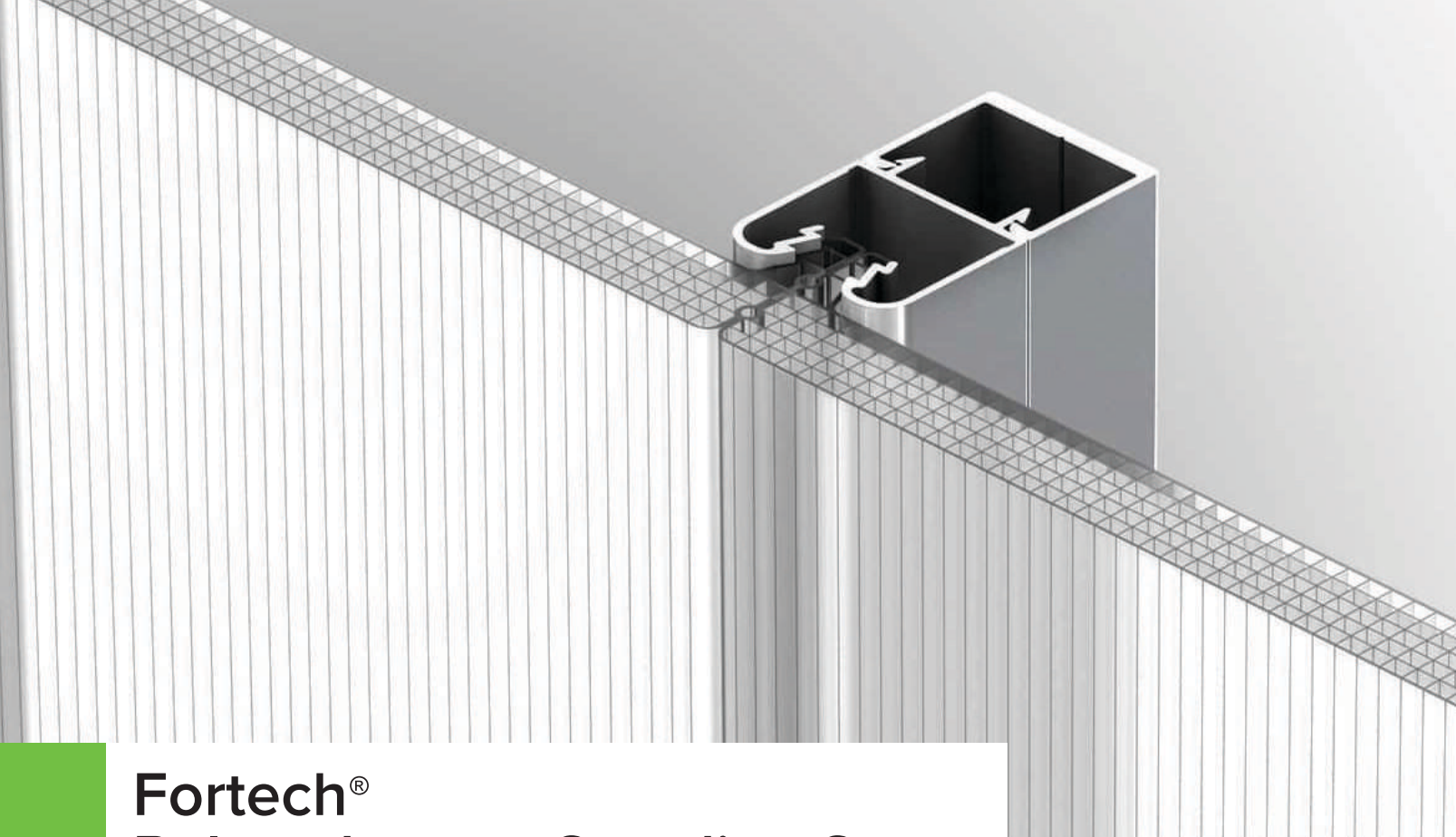
Product Range



Specifications

| Structure | Thickness (mm) | U-Value (W/m²u2022K) | Width 1220 (mm) | Width 2100 (mm) |
|-----------|----------------|----------------------|-----------------|-----------------|
| Twin Wall | 4              | 3.80                 | Available       | Available       |
| Twin Wall | 6              | 3.50                 | Available       | Available       |
| Twin Wall | 8              | 3.30                 | Available       | Available       |
| Twin Wall | 10             | 2.90                 | Available       | Available       |





# Fortech® Polycarbonate Standing Seam

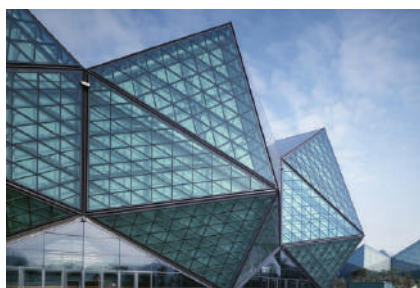
Fortech® Polycarbonate Standing Seam is an advanced multiwall polycarbonate panel system that combines proven design, light transmission, thermal insulation and strength. It offers a lightweight, leak-proof design that withstands very high loads and accommodates expansion and contraction. The system's distinct advantages make it ideal for long-term application on many types of projects. As with any true architectural glazing system, Fortech® Polycarbonate Standing Seam is appropriate for a variety of roofing and cladding designs, flat or curved. You can conveniently implement these Fortech® Polycarbonate Standing Seam roofing sheets for designing the perfect translucent roof for any contemporary building. Since these panels are extracted from polycarbonates of the Prime grades, they are outstanding at thermal insulation and light transmission.

## Features

- Withstands very high loads
- Accommodates expansion and contraction
- Simple and fast installation
- Leak proof
- High thermal insulation
- Ideal for curved designs
- Double sided UV protection

## Applications

- Architectural roofing and glazing
- Commercial and retail roofing
- Sport facilities - translucent roofing
- Covered walkways, awnings and entrances
- Open markets - light roofing
- Service stations - translucent roofing
- Parking structure covering
- Swimming pool covers



## Product Range



**Fortech™**

UV 3000 Series



**Fortech™**

UV 5000 Series

**11 YEARS**  
LIMITED WARRANTY

**12 YEARS**  
LIMITED WARRANTY

## Specifications

| Thickness | Width | Structure | Wall | Cell | U Value (w/m <sup>2</sup> °C) | Min Cold Bending Radius (mm) | Sound Proofing (Dba) |
|-----------|-------|-----------|------|------|-------------------------------|------------------------------|----------------------|
| 6mm       | 900mm |           | 4    | 3    | 2.8                           | 1450                         | 18                   |
| 8mm       | 900mm |           | 4    | 3    | 2.6                           | 1900                         | 17                   |
| 10mm      | 900mm |           | 4    | 3    | 2.4                           | 2300                         | 21                   |
| 12mm      | 900mm |           | 4    | 3    | 2.1                           | 2600                         | 21                   |
| 16mm      | 900mm |           | 5    | 4    | 1.62                          | 2900                         | 22                   |
| 20mm      | 900mm |           | 5    | 4    | 1.5                           | 3000                         | 22                   |
| 22mm      | 900mm |           | 5    | 4    | 1.5                           | 4000                         | 22                   |
| 25mm      | 900mm |           | 5    | 4    | 1.4                           | 4500                         | 22                   |



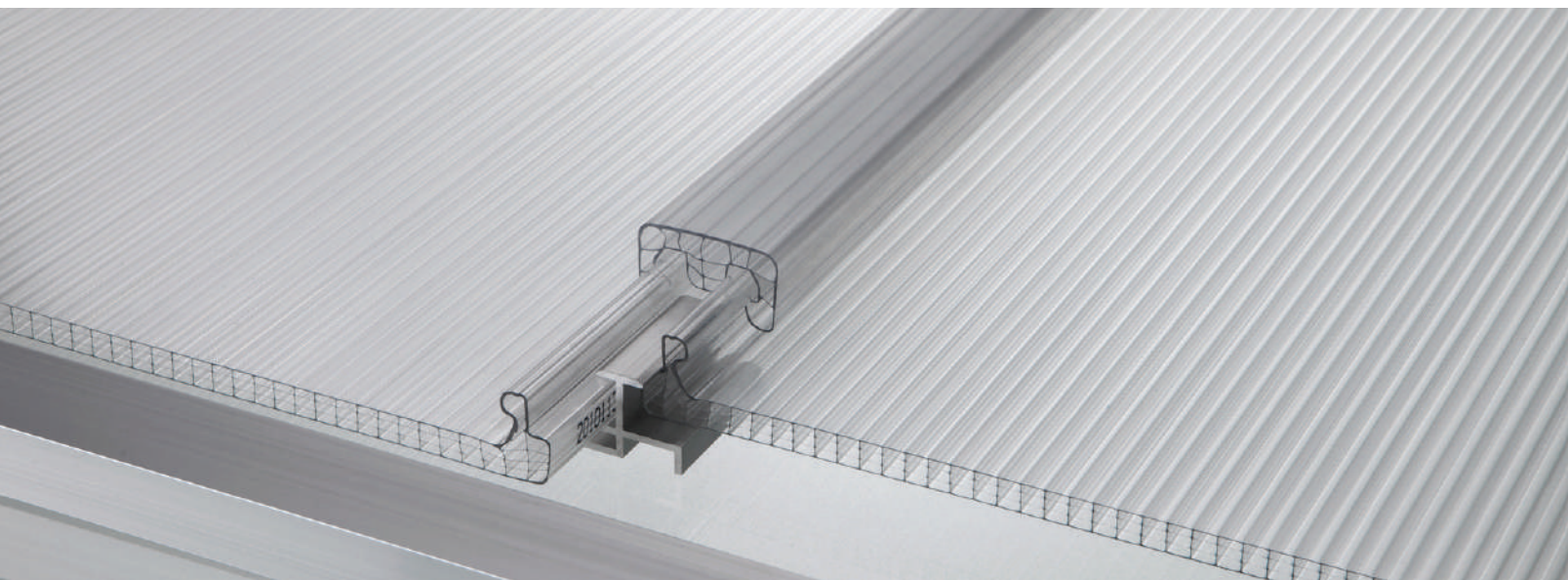
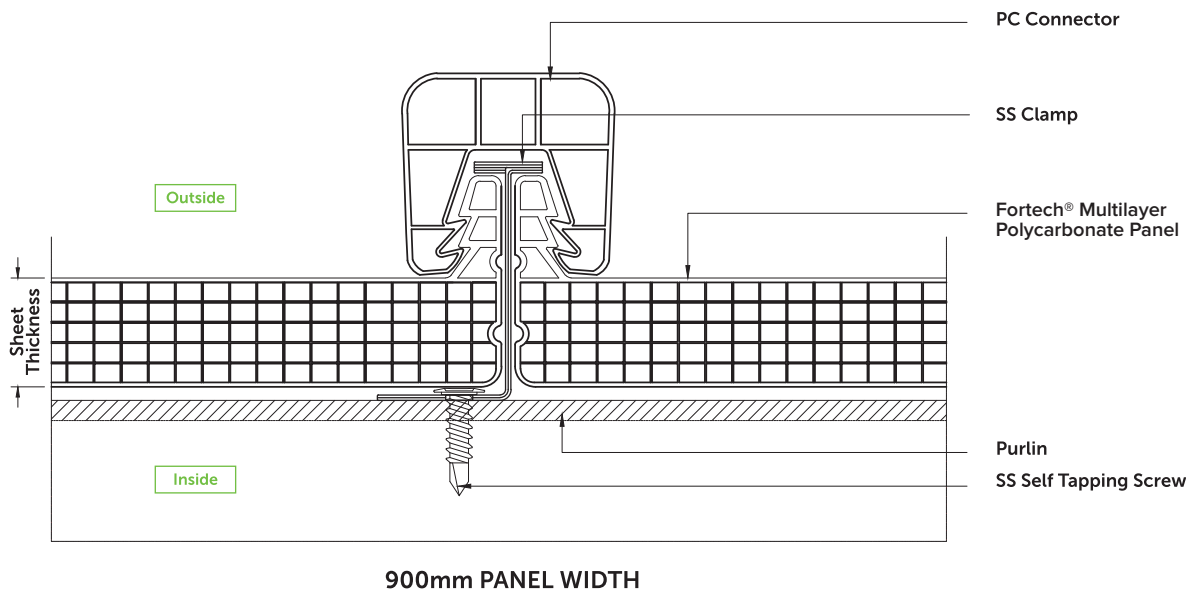
# Fortech® Polycarbonate Standing Seam

## Optical Properties & Color Variations

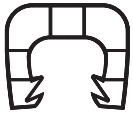
LT (LIGHT TRANSMISSION) % - Percentage of visible light that passes through the panel  
SF (SOLAR FACTOR) % - Percentage of heat that passes through the panel  
SHGC (SOLAR HEAT GAIN CO EFFICIENT) - Total solar energy transmitted through the panel

| Color  | 6mm / 8mm / 10mm / 12mm |     |      | 16mm / 20mm / 22mm / 25mm |     |      |
|--------|-------------------------|-----|------|---------------------------|-----|------|
|        | LT %                    | SF% | SHGC | LT %                      | SF% | SHGC |
| Clear  | 70                      | 75  | 0.60 | 65                        | 67  | 0.53 |
| Ice    | 60                      | 63  | 0.56 | 50                        | 53  | 0.52 |
| Blue   | 50                      | 56  | 0.60 | 48                        | 51  | 0.53 |
| Green  | 60                      | 63  | 0.55 | 42                        | 52  | 0.46 |
| Bronze | 45                      | 38  | 0.42 | 30                        | 38  | 0.40 |
| Opal   | 35                      | 38  | 0.42 | 32                        | 35  | 0.38 |
| Grey   | 30                      | 36  | 0.36 | 20                        | 21  | 0.28 |

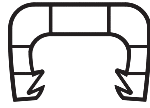
## INSTALLATION



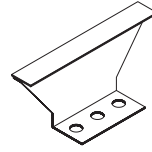
## ACCESSORIES



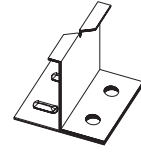
PC. Connector



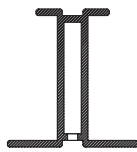
PC. Spacer Connector



Steel Clamp Large



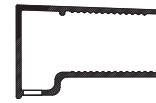
Steel Clamp Small



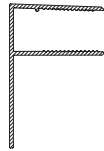
AL. Spacer



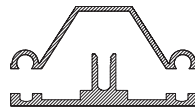
AL. Connector



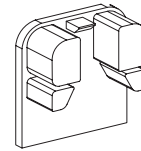
AL. End Profile



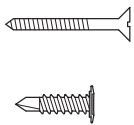
AL. F-Profile



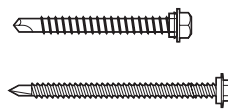
Glazing Bar



Connector End Cap



Self Drilling Screw  
Ceramic Coating 1/4" - 1 1/2"



Self Drilling Screw for Spacer  
Ceramic Coating 2 1/2" - 3"



## SkyDom Industries

Survey No. : 229, Inside of Manekba  
Farm Opp. Ganesh Kanta, Nr. Shree  
Hari Industrial Park Nr. Majra Patiya,  
Village - Tajpur Tal, Dist, Prantij,  
Gujarat 383205

**Mobile :** +91 99743 12266 / +91 85111 12266

**Email :** sales@fortechpc.com



**Fortech**™



[www.fortechpc.com](http://www.fortechpc.com)