



FortechTM

Applications:



ROOFING



FAÇADE



INTERIOR

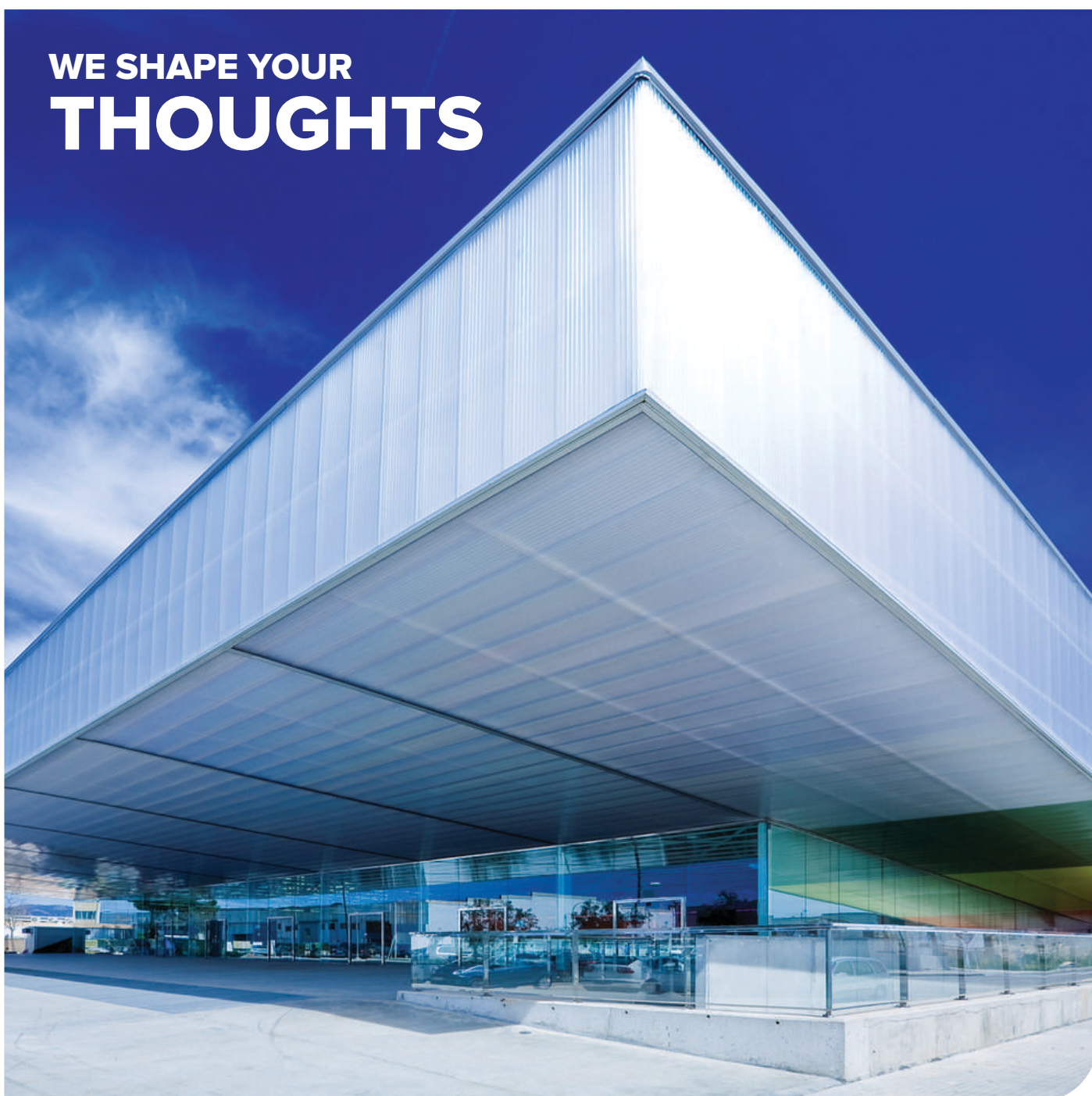


OUTDOOR



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

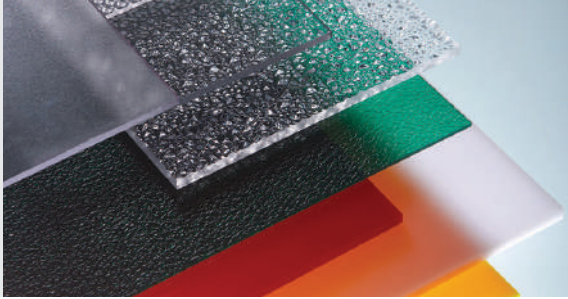
Since 2007

(Mfg. of Extruded Plastic Sheets)

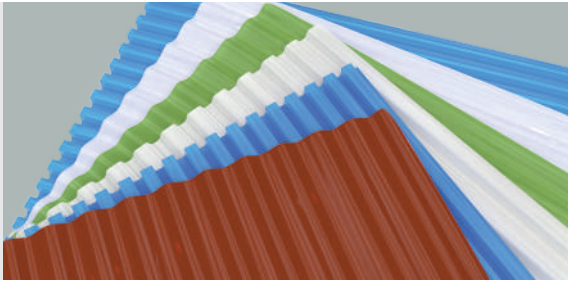
SKYDOM INDUSTRIES

Since 2017

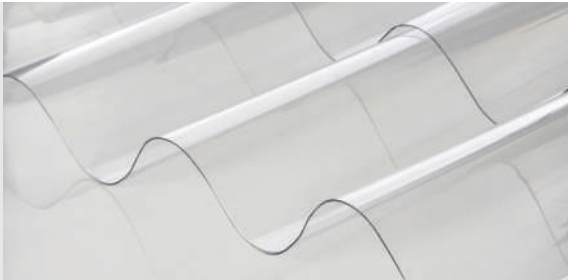
(Mfg. of Polycarbonate Sheets & Articles)



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

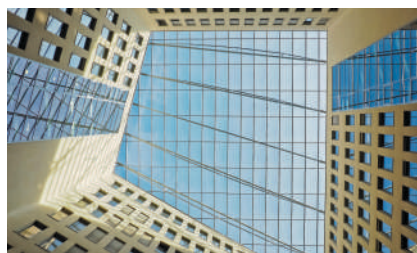


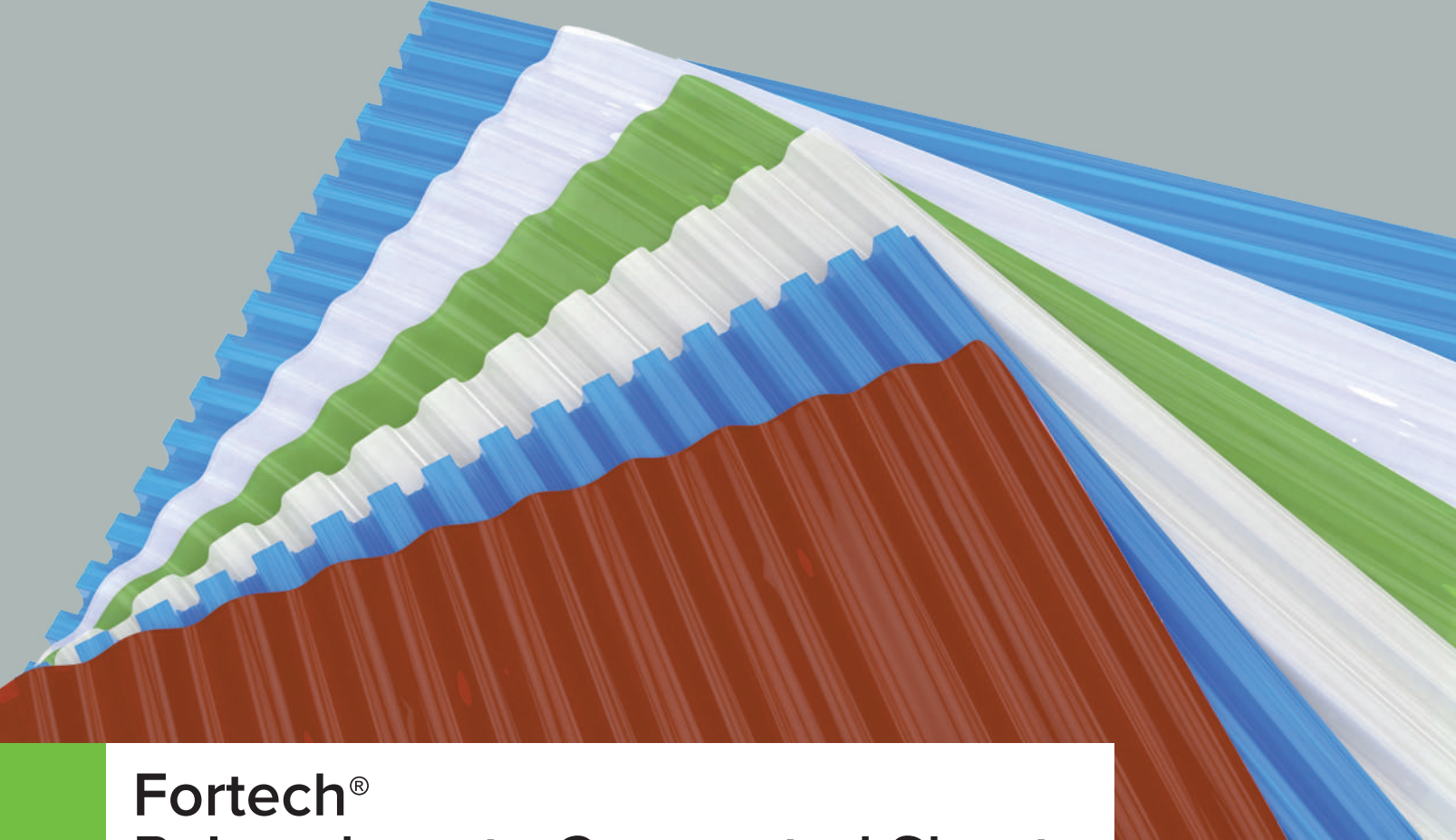
Specifications

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 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	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

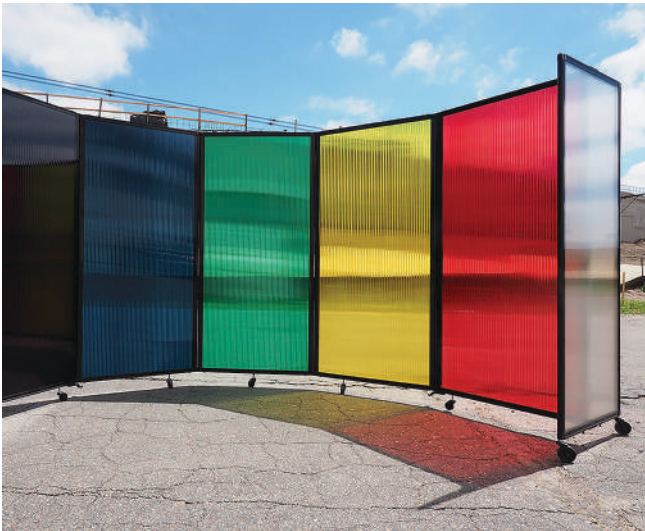


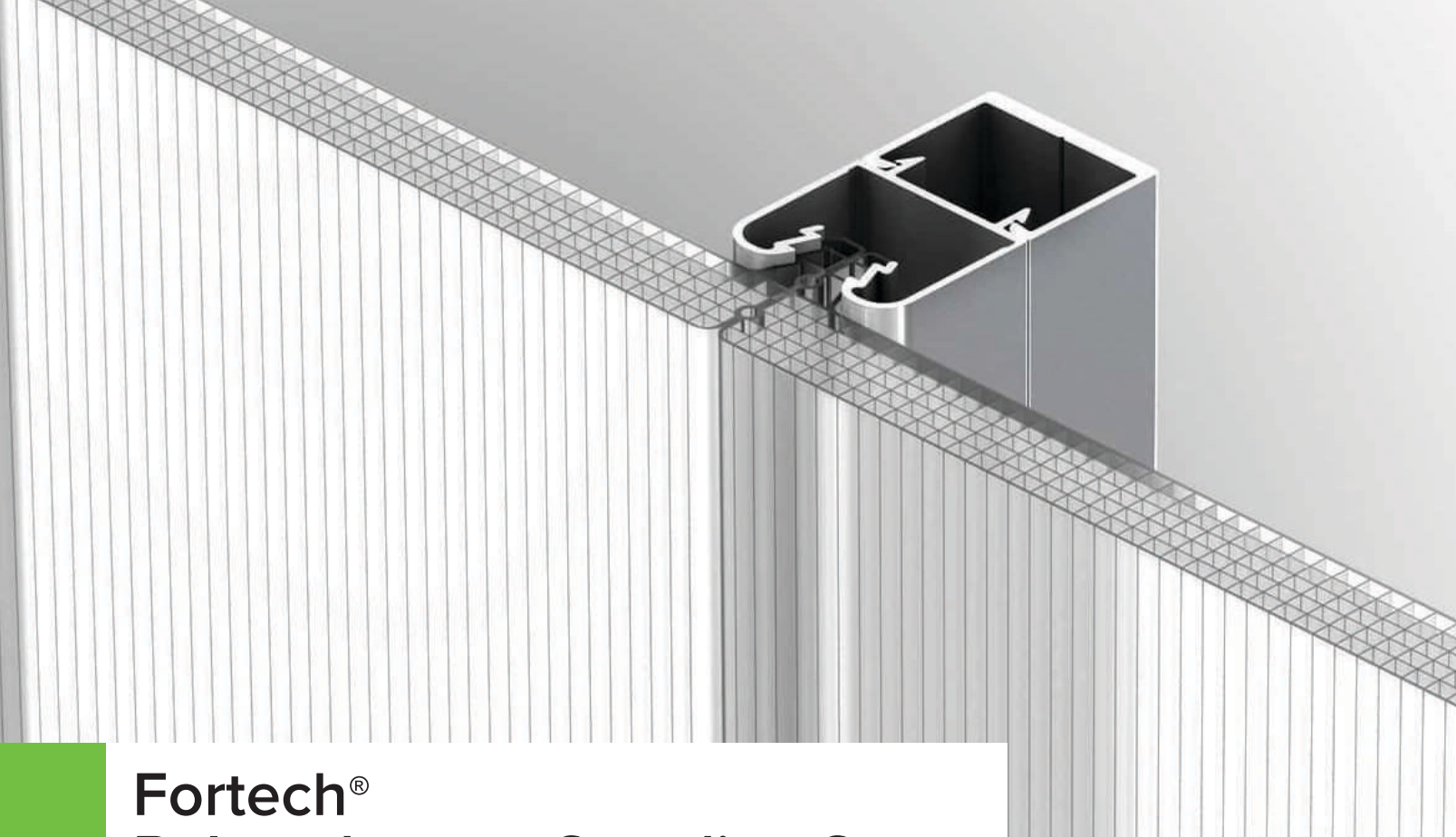
Product Range



Specifications

Structure	Thickness (mm)	U-Value (W/m ² u2022K)	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










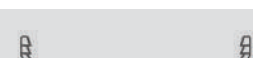
Fortech™

UV 5000 Series

11 YEARS
LIMITED WARRANTY

12 YEARS
LIMITED WARRANTY

Specifications

Thickness	Width	Structure	Wall	Cell	U Value (w/m ² °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



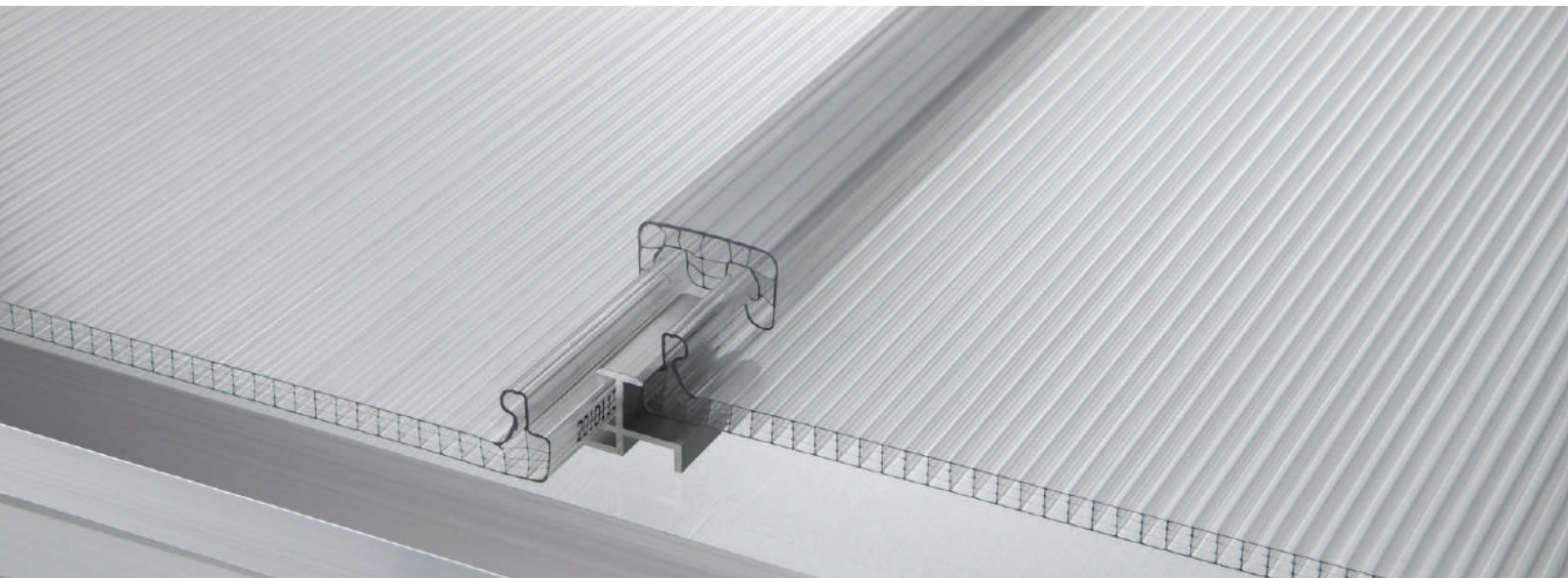
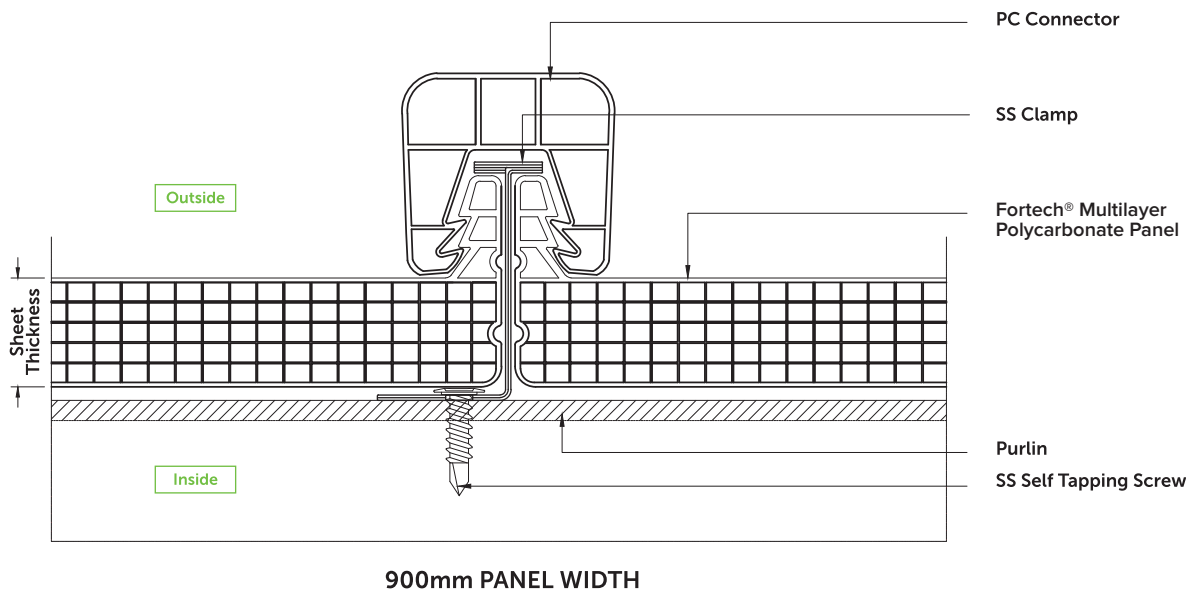
Fortech® Polycarbonate Standing Seam

Optical Properties & Color Variations

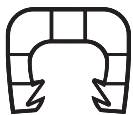
LT (LIGHT TRANSMISSION) % - Percentage of visible light that passes through the panel
SF (SOLAR FACTOR) % - Percentage of heat that passes through the panel
SHGC (SOLAR HEAT GAIN CO EFFICIENT) - Total solar energy transmitted through the panel

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

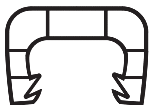
INSTALLATION



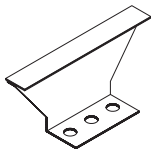
ACCESSORIES



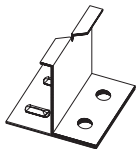
PC. Connector



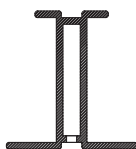
PC. Spacer Connector



Steel Clamp Large



Steel Clamp Small



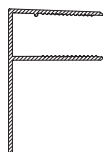
AL. Spacer



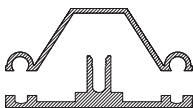
AL. Connector



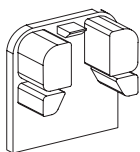
AL. End Profile



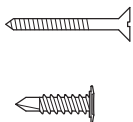
AL. F-Profile



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"





View PDF

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