



# POLYCARBONATE SHEETS



EMIRATES PANEL  
PLASTIC INDUSTRIES



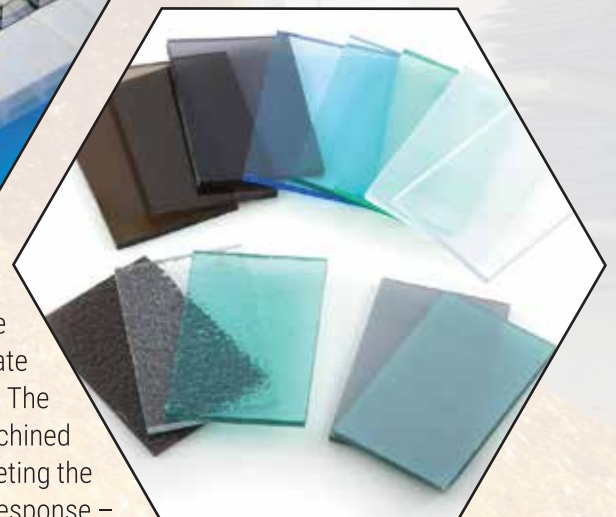
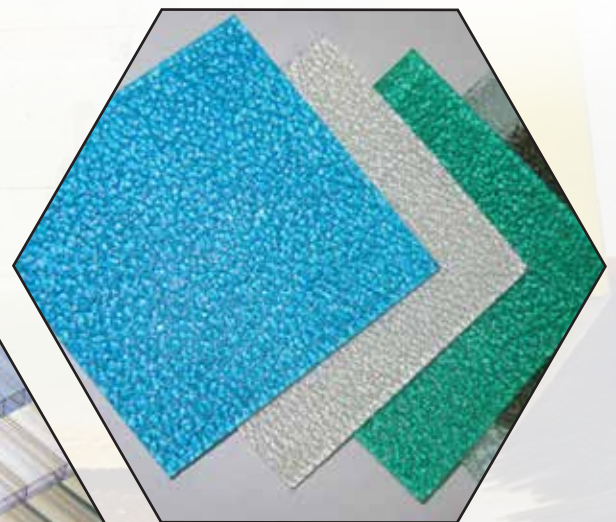
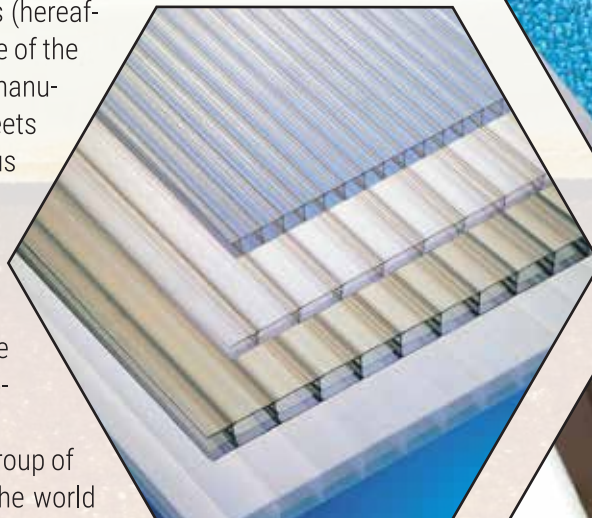
## Who we are...

Apart from having an established presence in the world of high-tech protective films, Emirates Panel Plastic Industries (hereafter referred to as EPPI) is also one of the leading international specialist manufacturers of thermoplastic sheets (Polycarbonate) for various applications. Our company is respected in many regions for its innovative and high quality products and expert technical support engineers who are committed to meeting our customer's exact needs.

Being a proud member of EPM Group of Companies, our prominence in the world of polycarbonate sheeting applications, has, without doubt, been influential in the making high quality products.

EPPI's CNC machining services offer a great range of capabilities to achieve your bespoke requirements. This combined with our in-house polycarbonate fabrication services offering our customers a comprehensive package. The various ranges of polycarbonate materials that are available today are machined accurately and quickly for rapid delivery. With this, EPPI is committed to meeting the needs of our customers and guaranteeing high quality, flexibility and swift response – these commitments are the key to all our activities.

Our vast experience in machined and fabricated Polycarbonate parts means that we can provide guidance on grade selection and aspects of design.







# Supporting our Customers...

## **Pre-sale Guidance**

EPPI's technical support team offers unparalleled worldwide technical-support services and assistance in project planning, including site visits. Technical support can also be provided in many languages. This technical information is provided free-of-charge to help designers and building professionals to determine the correct products, support systems and general building specifications that they need. For other support services and site visits, prices and payment conditions, this should be coordinated with one of EPPI's technical support department.

## **Our Mission**

To exceed our customer's expectations in quality, delivery and cost, through continuous improvement and customer interaction

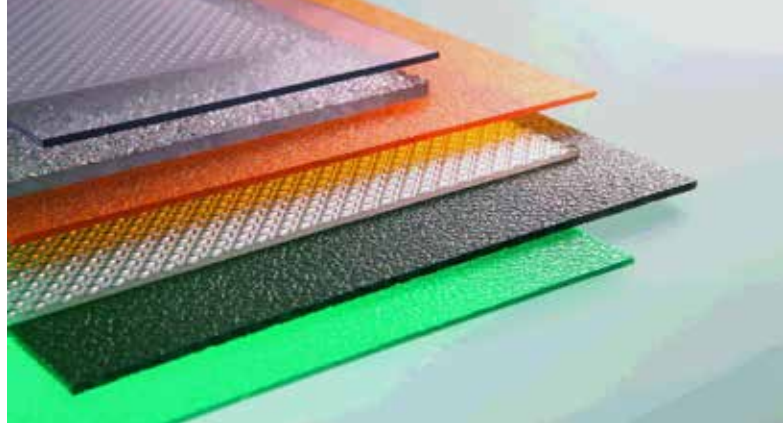
## **Our Values**

At EPPI, everything revolves around three principle values, these values being Passion for Excellence, Integrity & Commitment.

## **Our Clients**

EPPI is proud to be associated with many prestigious private and public sector companies.





# Polycarbonate Solid Sheet

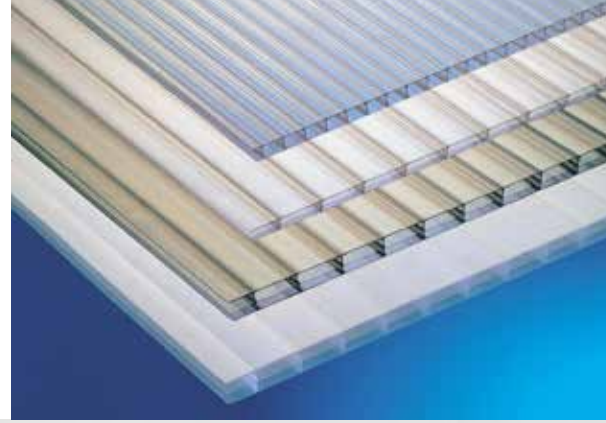
EPPI's ranges of solid polycarbonate extruded sheets are very durable with a high impact resistance and are virtually an unbreakable plastic sheet used in a wide range of applications. The sheets are lightweight and has superior thermal insulation properties. Polycarbonate Sheets are UV Resistant so they will not turn yellow over a period of time and they also block harmful UV radiation. Clear Polycarbonate Sheets are optically clear like glass and are easy to handle and install.

Polycarbonate solid sheets is environmentally friendly, but more importantly, is a low cost alternative to other applications in the market-place and the sheets are virtually unbreakable minimizing one's risk during installation.

Classification	Thickness (mm)	Width (mm)	Lenght (mm)	Colour
Universal Solid Sheet	1.5mm-7mm	2100mm	≤8000mm	Lucency Blue Gray Milky White Yellow Bronze  Colours can be customized to suit customer needs
Strengthen Solid Sheet	8mm-16mm	2100mm	≤8000mm	
Frosted Solid Sheet	2mm-16mm	2100mm	≤4000mm	
Advertising Diffusion Sheet	6mm-14mm	2100mm	≤4000mm	
Corrugated PC Sheet	0.8mm-3mm	840mm	≤8000mm	
Undulation Solid Sheet	0.8mm-2mm	600mm-1300mm	≤8000mm	
Litchi Pattern Sheet	3mm-15mm	2100mm	≤4000mm	
Diamond Pattern Sheet	1.5mm-7mm	2100mm	≤4000mm	
Prism Pattern Sheet	3mm-15mm	2100mm	≤4000mm	
Frosted Solid Sheet	1.5mm-15mm	2100mm	≤8000mm	
Advertisement Solid Sheet	2mm-12mm	2100mm	≤8000mm	
Advertisement Astigmatism Sheet	2mm-12mm	2100mm	≤8000mm	
Polycarbonate U-Lock Solid Sheet	1.5mm-8mm	2100mm	≤8000mm	













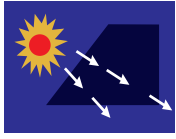
# Polycarbonate Hollow Sheet

Double and triple-layered EPPI polycarbonate sheets are manufactured in various colours and degrees of transparency and are designed for use in most conventional roofing and glazing applications. Insulation against heat and cold and having a temperature resistance between -40°C and +130°C, are the two most important characteristics of these sheets. In addition, these sheets have excellent light transmission of up to 89 % (pending opted colour choice) and UV protection as well so they will not turn yellow over a period of time and they also block harmful UV radiation.

Structure	Thickness (mm)	Width (mm)	Length (mm)	Color
 2-wall R Structure	4 6 8 10 12	$\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$	$\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$	Lucency Blue Gray Milky White Yellow Bronze  Colours can be customized to suit customer needs
 3-wall R Structure	8 10 12 14 16 18	$\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$	$\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$ $\leq 10000\text{mm}$	
 4-wall R Structure	8 10 12 14 16 18 20	$\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$	$\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$	
 4-wall H-Structure	8 10 12 14 16 18	$\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$	$\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$	
 3-wall X-Structure	14 16 18 20 22 25	$\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$	$\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$	
 7-wall D-Structure	22 25 32 35 40	$\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$ $\leq 2100\text{mm}$	$\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$ $\leq 8000\text{mm}$	



# Features And Benefits



## Exceptional Light Transmission

Superior clarity of solid sheets ensures excellent light transmission of up to 89%, equaling if not bettering that of glass. UV protection film is added for resistance against yellowing over time and also blocks harmful UV radiation.



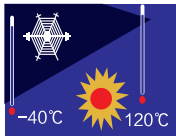
## High-impact Strength

A solid structure composition contributes to a higher material strength than any other plastic and is around 200 times stronger than a typical build-up of glass and 30 times that of acrylic.



## Light Weight

An important factor from an installation perspective is polycarbonate is around half the weight of a typical glass build-up. Huge freight and transport 'cost savings' are achieved due to the products light weight.



## Thermal Insulation

Polycarbonate sheets have excellent insulation properties with lower thermal conductivity (K-values), therefore reducing the loss of thermals.



## Flame Resistance

Polycarbonate Sheets have a Class 1 fire-rating resistance to fire, which means the product is self-extinguishing. The harmful effect of smoke residue being released is also eliminated as a result of the products fire-resistant properties.



## Saving Energy

Having a twin-wall construction, thermal insulation properties are optimized and ambient temperatures more easily controlled. This in-turn reduces the need to continually use climate control apparatus, thus reducing carbon footprint.



## UV Resistance

Polycarbonate is naturally resistant to ultraviolet light and can absorb up to 98% of UV rays. UV stabilizers are added to polycarbonate to help protect the material from the effects of exposure to the sun, thus promoting the products outdoor weathering performance.



## Sound Insulation

Twin/triple wall polycarbonate sheets are used widely globally for highway sound barriers due to having the performance of substantially abating noise pollution while preserving excellent visual observations. There are mainly two types of Noise Barriers where polycarbonate sheets can comply and perform reducing db readings, one being 'Absorptive Type' and the other 'Reflective Type'.



## Anti-drip

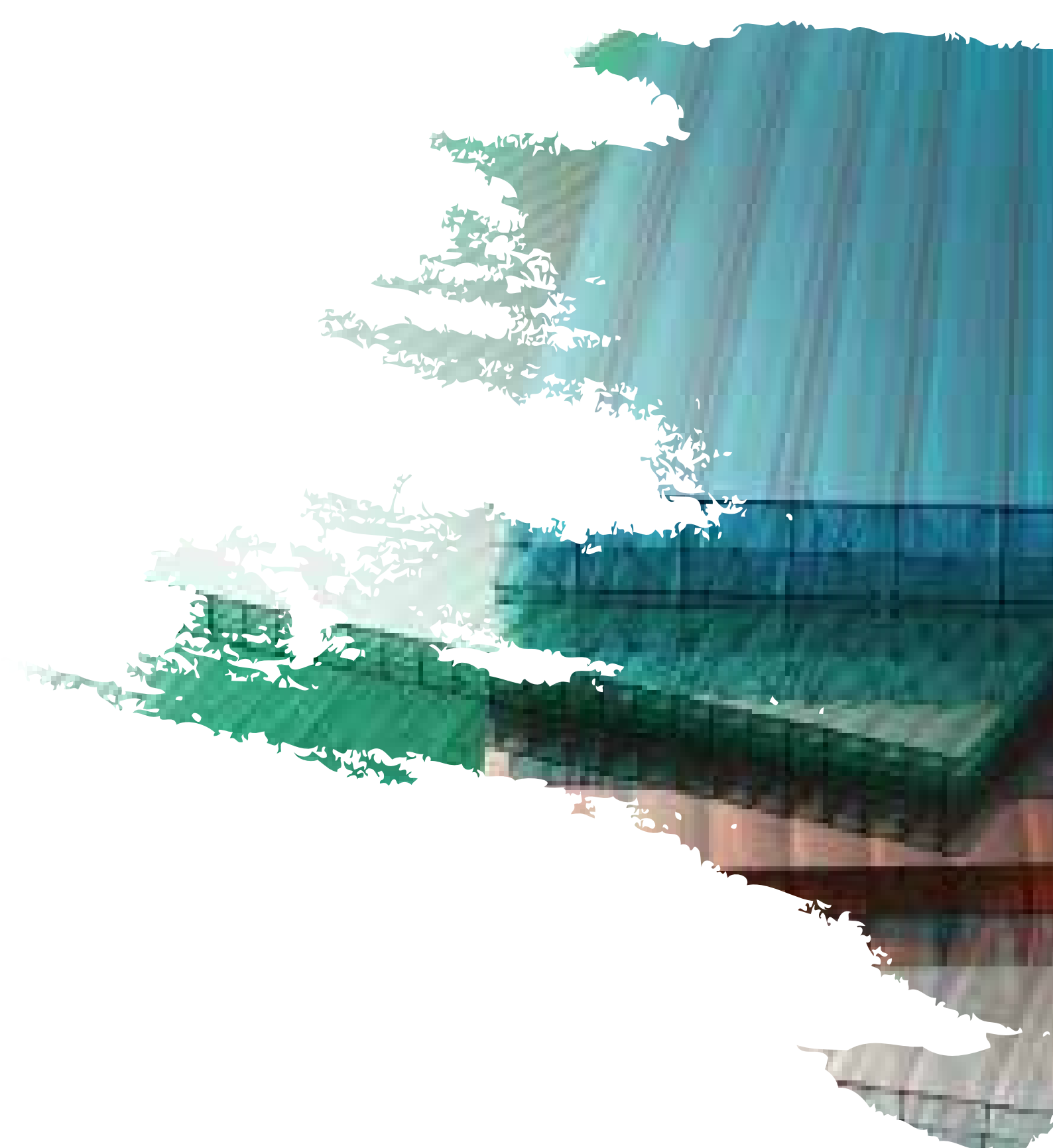
The special hydrophilic coating on the inner surface spoils the formation of condensation droplets; meanwhile, the loss of light transmission is also under a satisfied condition. For instance, when the outdoor temperature is 0 °C and 23 °C indoor at the same time, the fantastic surface of multi-wall sheets hold the droplets for any increasing unless the room humidity is below 80%.



# Typical Applications

- Attractive domes, skylights, glazing in public buildings
- Safety and security glazing
- Pergolas and covered walkways
- Balustrades
- Protective shields for machines and human protection (i.e. police & riot shields)
- Sign boards, signages and light fixtures
- Swimming pool enclosures and covers
- Green houses (both commercial and domestic)
- Highway sound barriers
- Thermoforming and fabrication items





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