

Corrugated Polycarbonate Product Details

LIGHTWEIGHT

At just 1/8 the weight of glass, corrugated sheet does not require the extensive structural support that a heavier glass wall or skylight needs. Lightweight sheet is easy to handle and install.

VIRTUALLY UNBREAKABLE

Able to withstand extreme abuse, the strong corrugated sheet has an impact resistance 20 times stronger than fiberglass and over 120 times stronger than glass. Resisting hail, wind-borne objects and vandalism, it can withstand over 235 pounds per inch of impact within a temperature range of -40°F to 240°F as measured by ASTM D 3029.

EASY TO INSTALL

Corrugated sheet has been specifically designed for simple and rapid installation. It easily adapts to any wall or roof with a bending radius over 13'.

LIGHT TRANSMISSION

Corrugated sheet meets the requirements of approved light transmitting plastic under the Uniform Building Code as recognized by ICBO, BOCA and SBCC.

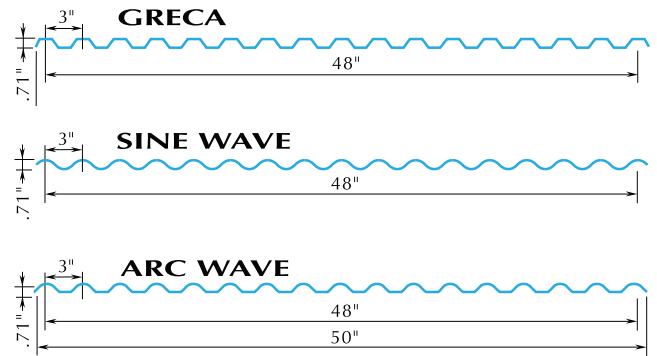
Clear Corrugated sheet transmits visible light – up to 90% (as measured by ASTM standards and demonstrated in the chart at left) to your crops, house plants or enclosure.

REDUCED U.V. TRANSMISSION

Corrugated is essentially opaque to ultraviolet light at wavelengths below 385 nanometers. This U.V. protection will help to prevent fading and discoloration of interior decor as well as protect tender seedlings and greenhouse crops. Corrugated sheet is manufactured using state of the art co-extrusion technology combining color, U.V. resistance and durability. Remaining clear for many years, it is backed by a ten year warranty against yellowing.

CHEMICAL STABILITY

Unharmful by most substances, it is necessary to avoid contact with adhesives, paints or solvents incompatible with polycarbonate. Avoid benzene, gasoline, acetone and carbon tetrachloride among others and use recommended closure materials, avoid P.V.C. shade curtains and gasketing. For specific product information, call A&C Plastics for compatibility recommendations.



Overall Width	50"	
Overall Length	up to 39'	
Net Coverage	48"	
Pitch	3"	
Depth	.71"	
Thickness	.031"	
Light Transmission ASTM-D1003 (%)	Clear	90%
	Bronze	37%
	Opal	52%
	Clear Textured (light diffusing)	88%
Coefficient of Thermal Expansion (in/in/°F)	3.75 x 10 ⁻⁵	
U.V. Transmission	0	
Minimum Bending Radius (Ft./1 Inch)	13'	
U Factor (BTU/hr. – ft. ² F)	1.20	



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CONDENSATION CONTROL

Factory applied condensation control is provided with the panels. Reducing surface tension, the condensation control allows water to spread into a thin sheet rather than form into droplets.

TEMPERATURE PERFORMANCE

Corrugated is designed for normal use in temperatures from -40°F to 240°F making it appropriate for use in all climates.

SOLAR ENERGY

During early morning and late afternoon hours, standard flat glazing reflects solar light and energy. The profiles of corrugated sheet are engineered to capture angled light for increased solar gain during colder winter months to save energy costs in greenhouses and other structures.

WARRANTY

Optical transparency (light transmission) deterioration shall not exceed 6% in 10 years per ASTM 1925-77. Yellowness index shall change no greater than 10 delta from originally measured quality in 10 years per ASTM D 1003-77. Corrugated sheet shall not break as a result of hail in accordance with EUPA 36876 for up to 3 years from date of purchase (hail at a diameter of 20mm striking the sheet at 21m. per sec.).

