

# FRP Metal Building Daylighting Systems

PANELS

Form 6796  
12/05

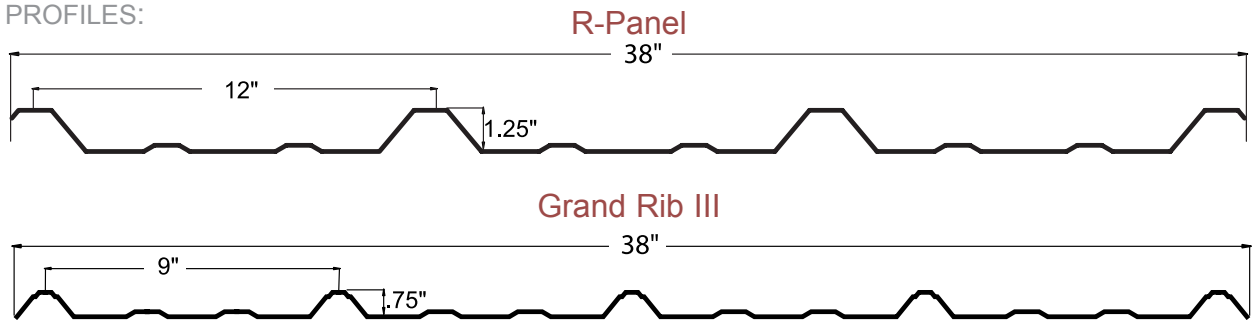
## POLYSTRONG™ PC

## PRELIMINARY Technical Data Sheet

### DESCRIPTION:

PolyStrong™ Polycarbonate panels feature the latest in product technology and are an effective alternative to traditional glazings in a wide variety of applications. Extensive research and development ensure all PolyStrong sheets have a high resistance to the harmful effects of weather. PolyStrong panels offer UV protection as standard and good impact resistance against hail damage. Available in R-Panel and Grand Rib III profiles.

### PROFILES:



### DESIGN TABLE:

Product Code	Name	Color	Length	Width	Thickness
PCR	R-Panel	711 Clear 920 White	12'	38"	.03"
PCG	GrandRib III	711 Clear	8', 10', 12'	38"	.03"

### TOLERANCES:

Length: length +3/8 inch/ -1/4 inch  
 Width: width +1/4 inch/-1/4 inch  
 Square: +1/4 inch/-1/4 inch measured diagonally

### ENGINEERING PROPERTIES:

Testing currently underway.

### LOAD SPAN TABLES:

Will be available in near future.

# Polycarbonate Panels

## TRANSPORTATION, HANDLING & STORAGE:

1. Transport and store PolyStrong panels horizontally, on flat, sturdy pallets, equal or longer than the longest panels. Short panels should be stacked on top of longer ones. The panels should be secured and fastened to the pallet during transportation.
2. Store PolyStrong panels in a cool and shaded place, out of direct sunlight. Avoid covering the stack of panels with dark or heat-absorbing materials or objects to prevent solar heat build up.
3. When necessary to store panels outdoors, cover the stack with a white opaque polyethylene sheet, corrugated cardboard or other materials that do not absorb or conduct heat. Verify that the entire stack is covered.

## CHEMICAL RESISTANCE & FIRE HAZARD COMMENTS:

1. PolyStrong panels are resistant to a variety of chemicals and exhibit limited resistance to a second group of chemicals. A third group of chemicals may attack and damage the panel. Degree and severity of damage depends upon chemical type and duration of exposure.
2. PolyStrong panels will melt down at approximately 400°F, generating vent openings for smoke release in the event of fire.

## SPECIAL INSTRUCTIONS:

- Do not step on PolyStrong panels.
- Avoid dragging the panels on the ground, scraping them against the structural elements or any other sharp or rough objects, to prevent them from getting scratched.
- PolyStrong panels may be cut with a circular saw using a fine blade or a jig saw. A utility knife and straight edge or pair of snips may also be used.
- Drill panels with regular high speed steel bits for metal.
- Pre-drill all fastener holes prior to fastening the panels; holes at structural fastener locations must be 1/8" to 3/16" larger than the diameter of the fastener to allow for expansion and contraction of PolyStrong panels.
- Use only EPDM or neoprene backed washers to fasten panels. Do not use fasteners with washers having PVC or other materials that are incompatible with the panels.
- Do not over-tighten fasteners.
- Do not use nails to fasten panels.
- Use foam polyethylene closure strips to seal the voids in the profile at eave and ridge locations.
- Use high quality contractors' series silicone sealant or silicone rubber adhesive when sealing panel laps; do not use solvent based sealants. Test the silicone on a scrap piece of PolyStrong panel or in an inconspicuous area of a panel to ensure that the silicone is compatible with the polycarbonate panel. Do not use the silicone sealant if it chemically attacks the panel.
- Butyl-rubber sealing tape may also be used to seal panel laps; please note that dark sealant lines will be visible through the PolyStrong panel.
- PolyStrong panels may be cleaned using water and a mild detergent. Do not use glass cleaners or solvent based cleaners such as ammonia, etc.
- Avoid contact with chemicals, paints, adhesives, cleansing agents or other incompatible materials.

## WARRANTY:

PolyStrong polycarbonate panels carry a full 10 year non-prorated warranty against yellowing and a 5 year warranty against breakage caused by hail. For more information on warranty, see form #6797.

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We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents.

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