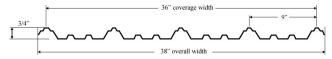
Ultra R/Ultra 9 Polycarbonate

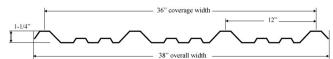
Commercial/Industrial/Residential Siding & Roofing Panels



Superior Strength, Lasting Durability, Great Looks.







Ultra Polycarbonate Panels

Ultra R and **Ultra 9** (1/16" thick) are the strongest corrugated polycarbonate panels in the market today, doubling the industry standard of 1/32", making them the ultimate siding and roofing polycarbonate panels for your application. **Ultra R** and **Ultra 9** panels are UV resistant, engineered to maintain color stability, and allow outstanding light transmission. **Ultra R** and **Ultra 9** are designed to take on harsh weather conditions and impact from day to day warehouse operations. The panels are also highly corrosion resistant. With an exact match to metal profiles, **Ultra R** and **Ultra 9** can be used for new or retrofit skylights, sidelights, siding, and roofing applications. **Ultra R** and **Ultra 9** have a non-combustible Flame Spread Rating of 6, considerably less than other non-metallic panels. In addition, the panels have a CC1 rating.

Features:

- Ultra R (12" R-Panel) and Ultra 9 (9" Classic Rib) match metal profiles
- UV resistant; will not yellow, turn brittle, or discolor
- Blocks harmful UV rays
- Non-combustible Flame Spread Rating of 6, CC1 Rating
- Virtually unbreakable
- Solid polycarbonate; no peeling, denting, or loss of structural integrity
- Operating temperatures (-40°F to 212°F)
- Easy to handle and install
- Wide range of resistance to corrosion

Dimensions:

- 1/16" thick (for thinner gauge, please visit our web site)
- 38" wide x up to 40' long

Colors:

- Ultra R: Clear, White Opal (45% LT), Soft White (85% LT)
- Ultra 9: Clear, White Opal (45% LT), Soft White (85% LT)

Applications

- Skylights/Sidelights
- Arched Roofs
- Metal Buildings
- Architectural Elements and Details
- Agricultural Buildings
- Barns
- Compressor Housings
- Elevator Enclosures
- Garages
- Industrial Buildings
- Lean-To's
- Mining Facilities
- Salt Storage Buildings
- Sheds
- Awnings
- Warehouses

H&F MANUFACTURING CORP.

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Table of Physical and Structural Properties

Mechanical Properties

Tensile Strength	9500 psi
Flexural Modulus	
Flexural Strength	12500 psi
Impact Strength (Izod) 68°F	
Impact Strength (Izod) 32°F	12 ft - lb/in
Elongation	
% Light Transmission (Clear)	
Deflection Temperature	

Thermal Properties

Thermal Conductivity	4.2 x 10^{-4} cal/sec/cm ² /(°C/cm)
Coefficient of Expansion	3.9 x 10 ⁻⁵ in/in/°F
K-Factor	

Electrical Properties

Volume Resistivity	10^{16} ohm-cm (50% RH + 23°C)
Dielectric Strength	500-600 volts/mil
Dielectric Constant	

Specifications for *Ultra* R or *Ultra* 9 Polycarbonate Panels

- Panels shall be Ultra R or Ultra 9 Polycarbonate manufactured by H&F Manufacturing Corporation
- Nominal Thickness shall be 1/16"
- Nominal weight shall be 7ozs. per square foot
- The configuration shall be *Ultra* **R** (12" Rib) or *Ultra* **9** (9" Classic Rib)
- Panels shall have a non-combustible Flame Spread Rating of 6 (ASTM E-84 Standard)

H & F Manufacturing Corporation

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