

 **Macrolux**<sup>®</sup>

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**CORRUGATED POLYCARBONATE  
SKYLIGHT & SIDELIGHT PANELS  
FOR THE METAL  
BUILDING INDUSTRY**



## LIGHTWEIGHT, DURABLE AND VIRTUALLY UNBREAKABLE

Available in clear, opal, bronze and high diffused (HD) soft white. In stock for fast shipping, custom cut to size, no minimums.

### Features



#### Lightweight

At just 1/8 the weight of glass, Macrolux® Rooflite® 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 Macrolux® Rooflite® corrugated sheet has an impact resistance 20 times stronger than fiberglass and over 120 times stronger than glass.



#### Easy to install

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



#### Low flammability

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



#### Light transmission

Clear Macrolux® Rooflite® corrugated sheet transmits visible light - up to 90% (as measured by ASTM standards). Macrolux corrugated sheet is manufactured using state of the art coextrusion technology combining color, U.V. resistance and durability.



#### Temperature Performance

Macrolux® Rooflite® is designed for normal use in temperatures from -40°F to 248°F making it appropriate for use in all climates.

### Warranty

Macrolux® Rooflite® is backed by a ten year, non-prorated warranty against yellowing and breakage by hail.

Optical transparency (light transmission) deterioration shall not exceed 11% in 10 years per ASTM 1925-77.

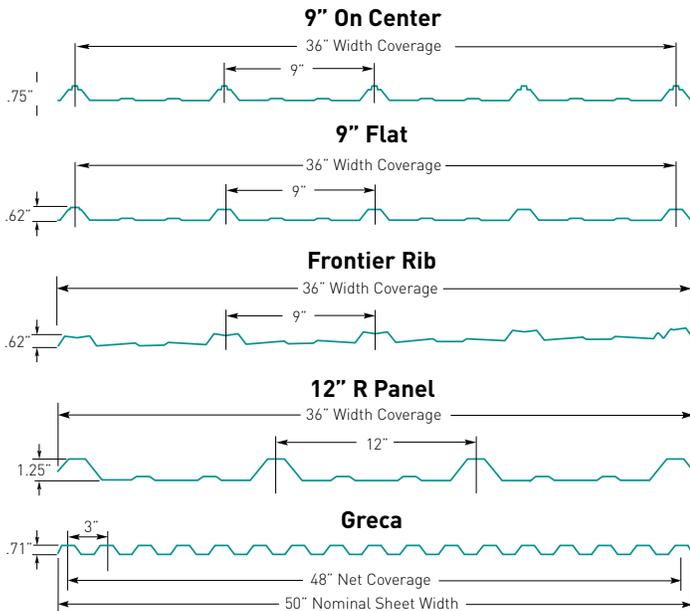
Yellowness index shall change no greater than 15 deltas for the white or opal and 10 deltas for any other color from originally measured quality in 10 years per ASTM D 1003-77.

Macrolux® Rooflite® shall not break as a result of hail in accord with EUPA 36876.

Macrolux® Rooflite® shall not break as a result of hail up to 23 mm in diameter size with an impact of 21 meters per second or less.

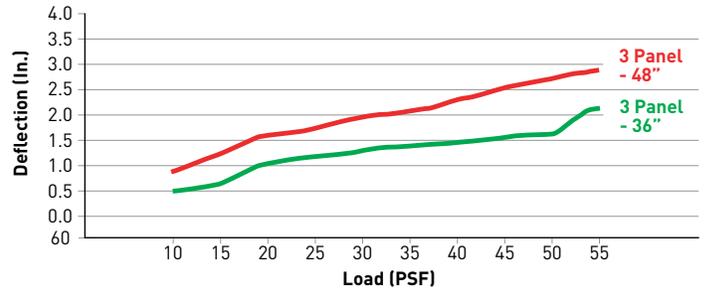


## Sheet profiles



## Loading guidelines

**Loading vs Deflection Three Panel - 36" & 48"**



**Note**

The charts shown in this page are provided as a guideline only. Information was from tests using Macrolux® polycarbonate panels as roofing and siding. For specific recommendations, consult Macrolux® USA.

## Physical and technical characteristics

| CHARACTERISTICS                             | 9" FLAT CORRUGATED                      | 9" ON CENTER                | FRONTIER RIB                | 12" R PANEL                 | GRECA  |
|---|---|-----------------------------|-----------------------------|-----------------------------|--|
| SHEET THICKNESS                             | .8mm / .031", .9mm / .035", 1mm / .039" |                             |                             |                             | .8mm / .031", .9mm / .035", 1mm / .039", 1.2mm / .047" |
| SHEET LENGTH                                | Up to 40'                               |                             |                             |                             |  |
| NOMINAL WIDTH                               | 38"                                     | 38"                         | 38"                         | 38"                         | 26" and 50"  |
| NET COVERAGE                                | 36"                                     | 36"                         | 36"                         | 36"                         | 24" and 48"  |
| PITCH AND DEPTH                             | Pitch 9" / Depth .62"                   | Pitch 9" / Depth .75"       | Pitch 9" / Depth .62"       | Pitch 12" / Depth 1.25"     | Pitch 3" / Depth .71"                                  |
| COEFFICIENT OF THERMAL EXPANSION (in/ft/°F) | 3.6 x 10 <sup>-5</sup> / °F             | 3.6 x 10 <sup>-5</sup> / °F | 3.6 x 10 <sup>-5</sup> / °F | 3.6 x 10 <sup>-5</sup> / °F | 3.6 x 10 <sup>-5</sup> / °F                            |
| U FACTOR (Btu/ft <sup>2</sup> h°F)          | 1.14                                    |                             |                             |                             |  |
| U.V. TRANSMISSION                           | 0                                       | 0                           | 0                           | 0                           | 0  |
| MIN. BENDING RADIUS (FT. / 1")              | 14 ¾'                                   | 14 ¾'                       | 14 ¾'                       | 24 5/8'                     | 13 1/8'  |
| <b>LIGHT TRANSMISSION ASTM-D1003 [%]</b>    |   |                             |                             |                             |  |
| Clear                                       | 90                                      | 90                          | 90                          | 90                          | 90   |
| Bronze                                      | 48                                      | 48                          | 48                          | 48                          | 48   |
| Opal  | 60                                      | 60                          | 60                          | 60                          | 60   |
| HD Soft White                               | 90                                      | 90                          | 90                          | 90                          | 90   |



This information and our product application recommendations are illustrative and must be verified for each project. The pictures presented are merely illustrative.

901.414.8458 | [info@macroluxusa.com](mailto:info@macroluxusa.com) | [www.macroluxusa.com](http://www.macroluxusa.com)  
2725 State Hwy 360, Suite 200, Grand Prairie, TX 75052