

 swiss made

Greenhouses and Horticulture



www.co-excorp.com

CO-EX Corporation

SUBSIDIARY OF KOSCON INDUSTRIAL S.A.

Why use polycarbonate in greenhouses?

For its many properties, namely:

Light weight / Ease of transport and installation

UV stability and weathering resistance (wind / hail / wide range of service temperatures)

Transparency and translucency

Thermal insulation and multiple wall energy savings

Long life

Excellent fire performance

Specific treatment and special finishing options (condensation-resistant, light diffusion)

Impact resistance / Mechanical resistance



NEWS

Greca

*The width
in greatest
demand for
professional
greenhouses
73.6 inches!*

NEWS

Omega

*The only
manufacturer
in the world
to produce
widths up to
79.6 inches!*

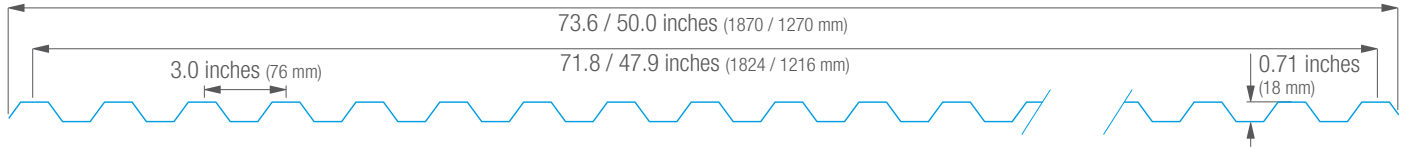


*More light
for a better life*

Macrolux[®] Rooflite[®]

Greca
width **73.6 inches (1870 mm)** 
and **50 inches (1270 mm)**

Solid corrugated polycarbonate sheet with Greca shape and UV protection on one or both sides, **from .028 inches (0.7 mm) to .043 inches (1.1 mm) thicknesses**, available with anti-condensation control (Mindew) treatment on the internal side.



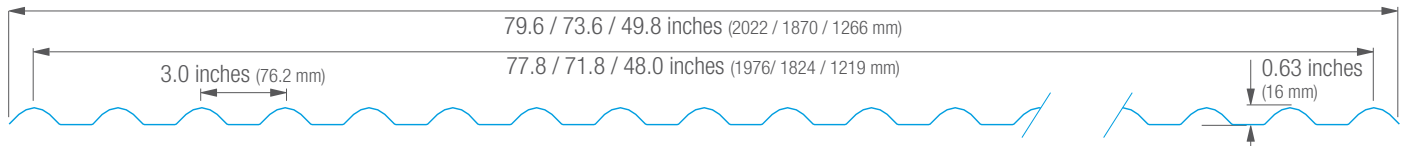
| Structure | LT% | Light diffusion % | Bending radius [▪] | Warranty |
|--------------|-------------------------|-------------------|-----------------------------|----------|
| Greca | Clear (0010): 89% | 5% | 157.5 inches (4000 mm) | 10-year |
| | Opal (0331): 85% | 100% | | |
| | Opal (0037): 80% | 98% | | |
| | Opal (9011): 2% | 100% | | |

[▪] Refers to average .031 inches (0.8 mm) thickness.

Macrolux[®] Rooflite[®]

Omega
width **79.6 inches (2022 mm)** 
73.6 inches (1870 mm) and
49.8 inches (1266 mm)

Solid corrugated polycarbonate sheet with Omega shape and UV protection on one or both sides, **.031 inches (0.8 mm) and .039 inches (1.0 mm) thicknesses**, available with anti-condensation control (Mindew) treatment on the internal side.



| Structure | LT% | Light diffusion % | Bending radius [▪] | Warranty |
|--------------|-------------------------|-------------------|-----------------------------|----------|
| Omega | Clear (0010): 89% | 5% | 157.5 inches (4000 mm) | 10-year |
| | Opal (0331): 85% | 100% | | |
| | Opal (0037): 80% | 98% | | |
| | Opal (9011): 2% | 100% | | |

[▪] Refers to average .031 inches (0.8 mm) thickness.

Fire test certifications and NEWGEN version available.

Strengths

Less overlap → greater light transmission

Greater light diffusion → uniform crop growth and reduced stress thanks to the constant inside temperature

Shorter installation times and lower installation costs

Transport costs optimized



Macrolux® Multiwall

**twin-wall
thickness
4 / 6 / 8 / 10 mm**
(.157 / .236 / .315 / .394 inches)

Twin-wall polycarbonate sheet with UV protection on one or both sides, **4 / 6 / 8 / 10 mm** (.157 / .236 / .315 / .394 inches) **thicknesses**, available with anti-condensation control (Mindew) treatment on the inside.
Closed-edge sheets available in various widths.

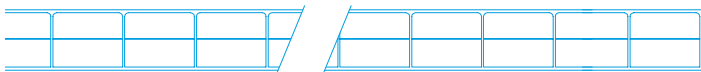


| Structure | LT% | U-value Btu / ft ² h °F | Bending radius | Warranty |
|--|-------------------|--|--------------------------|----------|
| 2W - 4 mm (.157 inches) | Clear (0010): 82% | 0.687 $R = \frac{1}{U} = 1.456$ | 23.6 inches (600 mm) | - |
| | Opal (0037): 64% | | | |
| 2W - 6 mm (.236 inches) | Clear (0010): 80% | 0.616 $R = \frac{1}{U} = 1.623$ | 35.9 inches (900 mm) | - |
| | Opal (0037): 60% | | | |
| 2W - 8 mm (.315 inches) | Clear (0010): 80% | 0.564 $R = \frac{1}{U} = 1.773$ | 47.2 inches (1200 mm) | 10-year |
| | Opal (0037): 60% | | | |
| 2W - 10 mm (.394 inches) | Clear (0010): 80% | 0.528 $R = \frac{1}{U} = 1.894$ | 59.1 inches (1500 mm) | 10-year |
| | Opal (0037): 55% | | | |
| <i>Also available in matt white version (LT ≤ 2%).</i> | | Other structures and thicknesses available on demand. | | |

Macrolux® Multiwall

**triple-wall
thickness 8 mm**
(.315 inches)

Triple-wall polycarbonate sheet with UV protection on one or both sides, **8 mm** (.315 inches) **thickness**, available with anti-condensation control (Mindew) treatment on inside.
Closed-edge sheets available in various widths.



| Structure | LT% | U-value Btu / ft ² h °F | Bending radius | Warranty |
|--|-------------------|--|--------------------------|----------|
| 3Q - 8 mm (.315 inches) | Clear (0010): 75% | 0.528 $R = \frac{1}{U} = 1.894$ | 47.2 inches (1200 mm) | 10-year |
| | Opal (0037): 60% | | | |
| <i>Also available in matt white version (LT ≤ 2%).</i> | | Other structures and thicknesses available on demand. | | |

Fire test certifications and NEWGEN version available.

Strengths

Multiwall structure → improved thermal insulation

Multiwall structure → greater load resistance

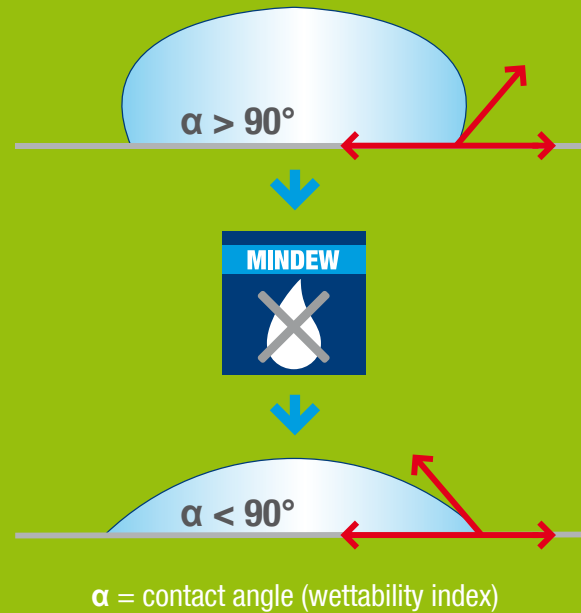
Available in multiple widths & lengths → improved handling and ease of installation



Available treatments and options

Mindew

Anti-condensation control treatment available on one or both sides designed so that moisture settles evenly over the sheet's inside surface, without affecting light transmission (LT%), thus stopping drops forming and consequently dripping onto crops and causing damage. The film of water created is channelled into special drain profiles at the base of the roof.



XL (2 side UV)

Option of protection from the effects of UV rays on both sides of the sheet.

NEWGEN version (15 years Warranty)

On request the product can be provided with an increased UV protection that allows a 15 years warranty.

Colors

Option of various diffusing opal colors with various degrees of light transmission (LT%) up to the matt white version with $LT \leq 2\%$.

Find out more about our full range of products and relevant certifications by contacting our Customer Service Department.

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Built-in gasket

Option of UV-resistant, transparent flexible built-in gasket.

- *greater airtight and waterproof properties*
- *excellent transparency*
- *the built-in gasket helps to prevent any imperfections of overlapping during installation*



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