Translucent Polycarbonate
MULTI-WALL PANEL SYSTEMS

Skylights, Canopies, Walkways, Wall Systems & Interiors
CO-EX’s BDL® is a system of standing seam modular panels used to create vertical and sloped glazing. It is suited for a range of applications from curved skylights to interiors. Thanks to its wide variety of accessories, the system is complete, versatile, lightweight, and easy to install.

CO-EX BDL panel system is highly versatile and suitable for a wide range of daylighting applications such as:

- SKYLIGHTS
- WALKWAYS
- CANOPIES
- WALL SYSTEMS
- INTERIOR SYSTEMS

The CO-EX BDL polycarbonate panel offers many advantages when compared with other glazing alternatives.

**HIGH IMPACT RESISTANCE** – 200 times greater than glass

**LIGHTWEIGHT** – less than 1 lb. per sq. ft.

**TRANSLUCENT** – controlled natural daylight

**DOUBLE SIDED U.V. PROTECTION** – either side may be exposed to the weather

**FLAME SPREAD/SMOKE DEVELOPMENT** – excellent behavioral properties

**EASY TO INSTALL** – complete system and accessories

**SAVES ENERGY** – excellent thermal properties

**HIGHLY FLEXIBLE** – cold forms to a 11’ radius, heat formed even tighter

- Wide Range of Colors
- No Adhesives Required
- Clean Aesthetics Created by Snap Covers
- Thermal Movement is Captured Internally within the System
- Unique panel construction
- Superior Light Diffusing Properties
- High U.V. Resistance on Both Side


Cover top, Clean Town Car Wash, Pittsburgh, PA. Cover 3rd from top, Lessin Tennis Court Building, Englewood Cliffs, NJ.
**TECHNICAL DATA**
- BDL 16 Thickness: 0.62" (16 mm)
- Width: nominal 23 3/8" (600 mm)
- Length: up to 39'
- Colors: Clear, Bronze, Opal, Opalescent, Green, Ice Mist and Blue
- Panel Wt: 16mm – .71 lbs./sq. ft.
- U.V. Protection: by co-extrusion, both sides
- CC-1 Classified Material: Per ASTM D635
- Flammability/Smoke Development: Per ASTM E-84 Class 1/Class A is available.
- Color Change: No more than 3 Delta Units per ASTM D2244-05 after 5 years, and 6 after 10 years – non pro-rated

**BDL System Acceptance:**
MEA - New York City
MEA - #180-02-M

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**BDL 16 SYSTEM**

<table>
<thead>
<tr>
<th>16 mm PANELS</th>
<th>CLEAR</th>
<th>OPAL</th>
<th>ICE MIST</th>
<th>BRONZE</th>
<th>GREEN</th>
<th>BLUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Transmission (%)</td>
<td>63%</td>
<td>21%</td>
<td>48%</td>
<td>31%</td>
<td>59%</td>
<td>58%</td>
</tr>
<tr>
<td>Shading Coefficient</td>
<td>.77</td>
<td>.55</td>
<td>.68</td>
<td>.65</td>
<td>.74</td>
<td>.73</td>
</tr>
<tr>
<td>Solar Transmission (%)</td>
<td>67%</td>
<td>28%</td>
<td>59%</td>
<td>57%</td>
<td>65%</td>
<td>64%</td>
</tr>
<tr>
<td>U-Value, Btu/ft²h°F</td>
<td>0.41</td>
<td>0.41</td>
<td>0.41</td>
<td>0.41</td>
<td>0.41</td>
<td>0.41</td>
</tr>
<tr>
<td>R-Value (1/u) ft²h°F/Btu</td>
<td>2.44</td>
<td>2.44</td>
<td>2.44</td>
<td>2.44</td>
<td>2.44</td>
<td>2.44</td>
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</tbody>
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**PANEL CLIPS**
- Feature the CO-EX "GRIPLOCK" Connection System
- Exceeds All OSHA Fall Through and Point Load Requirements

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**GRIP LOCK CONNECTORS**

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**CO-EX BDL 16**
- Meets or Exceeds the Following Tests:
  - ASTM D2843 Smoke Density
  - ASTM D1929 Self Ignition
  - ASTM D635 Burning Extent
  - ASTM E84
USE OF PANEL CLIPS

If necessary, due to the glazing height or to the high load required, several intermediary supports must be installed and the fixing must be made with the aluminum clips.

These clips allow a solid anchoring but do not prevent the thermal expansion of the polycarbonate panel.

CO-EX MODULIT 500 LP meets or exceeds the following tests.

ASTM D2843  
ASTM D1929  
ASTM D635  
ASTM E84

CO-EX MODULIT 500 LP system is suitable for any vertical translucent glazing application such as:

- CLERESTORY GLAZING
- EXTERNAL TRANSLUCENT WALLS
- INTERNAL TRANSLUCENT PARTITIONS
MODULIT 500 LP

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>1.57&quot; (40 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>20.86&quot; (530 mm)</td>
</tr>
<tr>
<td>Module Width</td>
<td>19.68&quot; (500 mm)</td>
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<tr>
<td>Rib Distance</td>
<td>1.57&quot; (40 mm)</td>
</tr>
<tr>
<td>Maximum Length</td>
<td>39&quot; or upon request</td>
</tr>
<tr>
<td>Thermal Insulation, Btu/ft²°F</td>
<td>U = .25</td>
</tr>
</tbody>
</table>

**Colors**

- Clear (8005) 68%
- Opal (8121) 47%
- Opalescent (8124) 51%

**UV Protection**

- Co-extruded on external side (both sides on request)

**Warranty**

- 10 years against yellowing, hail & light transmission

**Temperature of use**

- -22°F to 248°F

**Sound Insulation**

- 23 dB

**Thermal Insulation, Btu/ft²°F**

- .036 ft²/ft²°F
CO-EX polycarbonate wall systems are ideal for use in vertical glazing for both interior and exterior use. When combined with colorful lighting effects, interior walls can become translucent panels that can change the mood of the room with a flick of a switch.

These effects can be translated into signage and tradeshow exhibit booths, which are economical, lightweight, and easy to transport. They are becoming a popular material for use in museums and retail establishments where unique lighting effects and economy are desired.

An ideal clerestory material, our modular wall system is perfect for areas requiring natural daylight without harsh shadows. And, with all of our fine products, our polycarbonate is co-extruded with U.V. protection to insure your interior colors resist fading.

CO-EX is a leading producer of polycarbonate modular panel systems. Our staff is at your disposal to answer any questions you may have concerning vertical, curved or pitched glazing. Our extensive range of quality sheet types and systems will suit most applications.

If you require custom solutions to a particular problem, our technical staff is here to support you, from planning to installation and all steps in between.

**SUGGESTED ARCHITECTURAL SYSTEM TESTING**

<table>
<thead>
<tr>
<th>TEST PERFORMANCE</th>
<th>PERFORMANCE</th>
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</thead>
<tbody>
<tr>
<td>Self ignition temp</td>
<td>ASTM 1929-3</td>
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<tr>
<td>Smoke density</td>
<td>ASTM D- 2843</td>
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<tr>
<td>Burn extent</td>
<td>ASTM D-635</td>
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<tr>
<td>Interior flame spread</td>
<td>ASTM E-84</td>
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<tr>
<td>Color difference</td>
<td>ASTM D-2244-85</td>
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<tr>
<td>Accelerated outdoor weathering</td>
<td>ASTM D 4364</td>
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<tr>
<td>Yellowing index</td>
<td>ASTM 1925</td>
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<tr>
<td>Haze and luminous testing</td>
<td>ASTM D 1003</td>
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<tr>
<td>Air infiltration</td>
<td>ASTM E-283</td>
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<tr>
<td>Water penetration</td>
<td>ASTM E- 331</td>
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<tr>
<td>Load bearing capability</td>
<td>ASTM E-330-90</td>
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<tr>
<td>Thermal performance test</td>
<td>ASTM C1363</td>
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<tr>
<td>Solar properties</td>
<td>NFRC 201</td>
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<tr>
<td>OSHA fall and walk through protection</td>
<td>STD 29 CFR 1910.23(e) (8)</td>
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<tr>
<td>OSHA life safety STD 29 CFR 500 lbs</td>
<td>ASTM E-695-03</td>
</tr>
</tbody>
</table>

Tests and certifications available and subject to limitation on weight, section, colors, etc.

Call today for more information! (800) 888-5364

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