CarbonCast® High Performance Insulated Wall Panels with C-GRID® shear trusses deliver all the benefits of factory precasting with unprecedented thermal efficiency in a structurally composite panel.

Setting a New Standard in Precast Insulated Wall Panels
CarbonCast® high performance insulated wall panels are typically composed of two prestressed concrete wythes separated by EPS continuous insulation (ci), and connected by high strength C-GRID® carbon fiber grid shear trusses.

The C-GRID® shear trusses render a panel with full composite action for superior structural behavior, reduced weight and exceptional durability. Non-composite panels are also available.

CarbonCast panels comply with ICC-ES standards (ESR#2953) to meet international building code requirements.

<table>
<thead>
<tr>
<th>Feature</th>
<th>High Performance Insulated Wall Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Up to 60' (18.3m)</td>
</tr>
<tr>
<td>Width</td>
<td>Up to 14' (4.3m)</td>
</tr>
<tr>
<td>Thickness</td>
<td>8'-12' (203-305mm)</td>
</tr>
<tr>
<td>Weight PSF (KPa)</td>
<td>&gt; 65 (3.1)</td>
</tr>
<tr>
<td>R-value</td>
<td>11-37</td>
</tr>
<tr>
<td>Continuous Insulation</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>2 hrs</td>
</tr>
<tr>
<td>Load-bearing</td>
<td>Optional</td>
</tr>
<tr>
<td>Paintable Interior Face</td>
<td>Yes</td>
</tr>
<tr>
<td>Window / Door Recess</td>
<td>1-2' (25-51mm)</td>
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</tbody>
</table>
CarbonCast® High Performance Insulated Wall Panels

Less concrete means less weight, less embodied energy and a reduced carbon footprint.

- Energy efficient and lightweight — exceeds ASHRAE 90.1 requirements
- Superior load bearing performance — can eliminate need for perimeter columns and increase usable floor space
- Variety of foam insulation materials and thicknesses available to meet specific applications
- Aesthetically versatile and ultra-durable
- Dry, mold-free and fire-rated. Meets ASTM and NFTA requirements (up to 3 hours)
- Sound deadening — very little exterior noise transmitted to interior spaces
- Continuous insulation eliminates cold spots, provides comfortable interior environment
- Code compliant and resistant to blast and extreme weather
- Prefinished or paintable interior wall
- C-GRID® is non-corrosive and will not rust or contribute to concrete spalling

COMMERCIAL AND INSTITUTIONAL USES

- Office Buildings
- Educational Facilities
- Healthcare Facilities
- Correctional Facilities
- Big Box Retail
- Multi-unit Residential
- Arenas, Theaters, Museums and Convention Centers

INDUSTRIAL USES

- Warehouses
- Refrigerated Storage
- Manufacturing Plants and Control Room Facilities
- Distribution Centers
- Data Centers