SEMI TRANSPARENT PHOTOVOLTAIC GLASS
FOR GREEN BUILDINGS & SOLAR ARCHITECTURE

The most flexible PV glass solution for architects

- PV pattern flexibility
- Color neutral
- Compatible with various glass sizes, thicknesses & coatings
- Reach higher certification levels (BREEAM, LEEDS, HQE, and more) with minimum impact on architecture

User benefits

- HVAC energy savings
- Reduce CO2 footprint and electricity bills
- Protect asset value (Rental rates & Resale value)
- Enjoy the comfort of natural light

Design Glass is available as a laminated glass unit or insulated glass unit. Available with a variety of junction box options and technical guidance for integration into reference window frame systems (façade, window, curtain-wall, guard-rail, canopy, spandrel).

STANDARDS FORMATS

Single module: Up to 0.66 x 1.58m
XL modules: Up to 1.28 x 3.12m

XL SERIES

Custom dimensions on request
XL modules are made from triple laminated glass

IGU

LAMINATED GLASS

Outer glass
- cover glass
- interlayer (evo)
- 2.1 mm wysips glass

Wysips glass

Exterior glass
Interior glass
Possible coatings
Airspace (air or argon)
MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Option</th>
<th>LAMINATED GLASS</th>
<th>DOUBLE GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cells type</td>
<td>CiGS</td>
<td>CiGS</td>
</tr>
<tr>
<td>External dimensions</td>
<td>600 x 1200 mm</td>
<td>600 x 1200 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>7 mm (42.2)</td>
<td>27 mm (42.2/16/4)</td>
</tr>
<tr>
<td>Weight</td>
<td>12 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td>Cover glass</td>
<td>Extra clear tempered glass</td>
<td>Extra clear tempered glass</td>
</tr>
<tr>
<td>Interlayer</td>
<td>EVA</td>
<td>EVA</td>
</tr>
<tr>
<td>Frame</td>
<td>Frameless laminated glass</td>
<td>Frameless laminated glass</td>
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<tr>
<td>Junction box</td>
<td>IP 67 SolarLock wing edge</td>
<td>Phoenix contact GMBH PV-JB 2.5/1</td>
</tr>
<tr>
<td>Connector type</td>
<td>Slim line connectors (Solarlock wing edge)</td>
<td>Slim line connectors (Solarlock wing edge)</td>
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<tr>
<td>Cable</td>
<td>4 mm² x 600 mm</td>
<td>4 mm² x 600 mm</td>
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<tr>
<td>Options</td>
<td>Cover glass (type, thickness, coatings), colored interlayer</td>
<td>Cover glass, inner glass (type, thickness, coatings), colored interlayer</td>
</tr>
</tbody>
</table>

DESIGN GLASS

DGS - Series

> THERMAL & SOLAR PERFORMANCE

**Laminated Glass 42.2 Extra Clear**
- Visible transmittance
- Solar Factor SG (EN410)
- Thermal transmittance (EN673)

**IGU 42.2/16/4 Extra Clear**
- Visible transmittance
- Solar Factor SG (EN410)
- Thermal transmittance (EN673)

**ELECTRICAL SPECIFICATIONS**

- Nominal power
- Open circuit voltage
- Short circuit current
- Max. power voltage
- Max. power current

**TEMPERATURE COEFFICIENT**
- Nominal operating condition temperature
- Coefficient for Pmax
- Coefficient for Voc
- Coefficient for Isc

**STANDARDS & NORMS**
- Design certification & type approval: IEC 61646 in progress (Q2 2017)
- Safety certification: IEC 61730 in progress (Q2 2017)

Product available from September 2017

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