SKYLIGHT
Includes condensation gutter and insulating laminated glazing.

HiR
Provides U-Factor of 0.35 BTU/ft² x hr x °F with high performance glass U-Factor of 0.25 BTU/ft² x hr x °F.

BLAST
Capable of resisting medium level blast mitigation requirements.

ACOUSTIC
Provide a STC rating of 44 and OITC rating of 37 with standard 1" insulating glass outboard and ½" laminated glass inboard.

SSG
Can be combined with system that is captured horizontally or vertically.

Project: Duval County Courthouse
Location: Jacksonville, FL

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SMU 6000 SERIES

A unitized, pre-designed, pre-assembled, pre-glazed system. Configured to meet your design with the benefits of thermal separation and versatility of captured or structurally glazed. Ability to install and reglaze from the inside or outside of the building into punched openings, strip windows, curtain walls or skylights. Diverse applications in office, healthcare, education, institutional, and government buildings, with options for blast mitigation and acoustic attenuation.

THERMAL
Thermal capabilities rely primarily on glass make-up, glass size and frame member size. The following information is based on a 80” x 80” frame size consisting of two lites of glass as per AAMA 1503-98. Systems that have larger lite sizes will have improved U-factor and condensation resistance.

Temperature shown for condensation is the minimum exterior 99.6% dry bulb temperature at which condensation on interior surfaces will not be present. This assumes 25% interior relative humidity. If an improved thermal capability is desired consider increasing glass lite size, utilizing structural silicone glazing and/or moving to a dual thermal design with SMU6HiR system.

GLASS MAKE-UP

<table>
<thead>
<tr>
<th>Glass Make-up</th>
<th>Glass U-Factor</th>
<th>System U-Factor</th>
<th>Condensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” Glass, 1/2” Air Space, 3/8” Laminated Glasc</td>
<td>0.29</td>
<td>0.32 - 0.50</td>
<td>5°</td>
</tr>
<tr>
<td>1/4” Glass, 1/2” Air Space, 1/4” Glass with Low-E Coating on #2 Surface</td>
<td>0.25</td>
<td>0.47 - 0.45</td>
<td>0°</td>
</tr>
</tbody>
</table>

Glass Make-up: 1/4” Glass, 1/2” Air Space, 3/8” Laminated Glass, 1/4” Glass, 1/2” Air Space, 1/4” Glass, 3/8” Air Space, 7/16” Laminated Glass

*Laminate is a .030 PVB

ACOUSTICS
Acoustic performance relies primarily on the glass configuration. SMU6000 framing provides a minimal reduction in acoustic performance of 1 to 2 points. The values below include the frame.

<table>
<thead>
<tr>
<th>Glass Make-up</th>
<th>STC</th>
<th>OITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” Glass, 1/2” Air Space, 3/8” Laminated Glass</td>
<td>17</td>
<td>30</td>
</tr>
<tr>
<td>1/4” Glass, 1/2” Air Space, 1/4” Glass</td>
<td>31</td>
<td>27</td>
</tr>
<tr>
<td>1/4” Glass, 3/8” Air Space, 7/16” Laminated Glass*</td>
<td>27</td>
<td>30</td>
</tr>
<tr>
<td>1/4” Glass, 3/8” Air Space, 7/16” Laminated Glass*</td>
<td>26</td>
<td>31</td>
</tr>
</tbody>
</table>

*Laminate is a .030 PVB

GLASS THICKNESS OPTIONS
The glass pocket will allow for monolithic and insulating glass configurations from 1/4” to 1 5/16”.

MOVEMENT
Lateral and vertical building movement is determined and verified by the structural engineer of record for the building. The SMU6000 system has the capability to accommodate lateral floor to floor movement up to 1 1/2” and vertical inter-story movement of up to ±7/8”

APPEARANCE
Exterior appearance can be modified to include: deep covers, bull noses of various shapes, or sun- shades. Versatile design allows the system to meet the architect’s vision while maintaining weathering performance.

STRUCTURAL
Varying system depths and reinforcing allow the versatility to meet a variety of spans and wind loads. Standard depths are 5 1/2”, 7 1/2” from face of cover to back of mullion. Standard width is 2 1/2”, system can be provided at 3”.

WEATHERING
The critical factors in an effective design are positive continuous air seal line, sheltered weeps and vents, and free flow of air. Each lite is zoned off to isolate the individual cavity and drain water without visible weep holes. Airflow is optimized by air gaps both horizontally and vertically in the glazing cavity to maximize pressure equalization. Perimeter sealant is flush not recessed. The internal seals and end dams carry the line of the seal to the front of the system and can be applied after the wall is erected and glazed.

AIR INfiltrATION
Typical testing criteria for air infiltration is 0.06 cfm/ft² of fixed wall at 6.24 psf static air pressure. The SMU6000 system commonly tests better than 0.02 cfm/ft².

WATER INFILTRATION
The system has tested successfully with no water leakage up to 15 psf dynamic and static pressures.
Adjacent building envelope materials can vary to include: pre-cast, steel studs or miscellaneous steel. Building construction materials can include reinforced concrete or structural steel. Our anchor versatility allows for the most appropriate system solution based on your building design, while maintaining your budget.

Multiple anchorage methods give versatility to the SMU6000 system in a variety of installation conditions.

**Anchors will accommodate:**

- differing installation techniques
- building construction tolerances
- variable wind load conditions
- variable dead load conditions
In strip and punched window conditions, anchorage can either occur on the top, bottom, or back of envelope materials.

Anchorage solutions meet or exceed building envelope material tolerances which typically would be precast or metal stud and accommodate up to ±1/2”.

*Head Anchor*

*Sill Anchor*

Project: Silver Cross Hospital
Location: New Lenox, Illinois

Project: 1101 K Street NW
Location: Washington, DC

Project: Monument III at Worldgate
Location: Herndon, Virginia

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