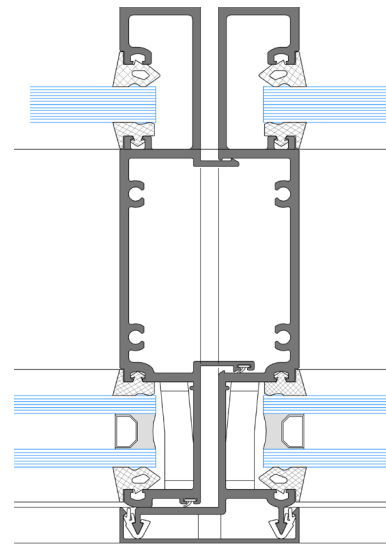


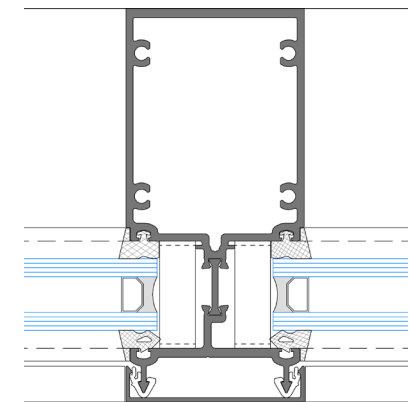
### SKYLIGHT

Includes condensation gutter and insulating laminated glazing.



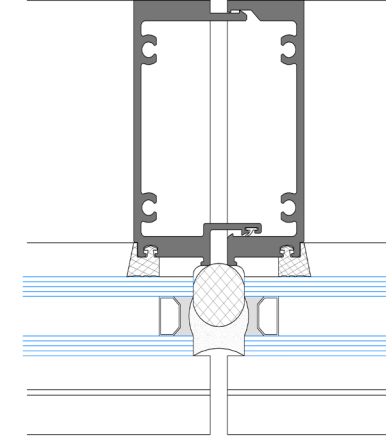
### ACOUSTIC

Provide a STC rating of 44 and OITC rating of 37 with standard 1" insulating glass outboard and 1/2" laminated glass inboard.



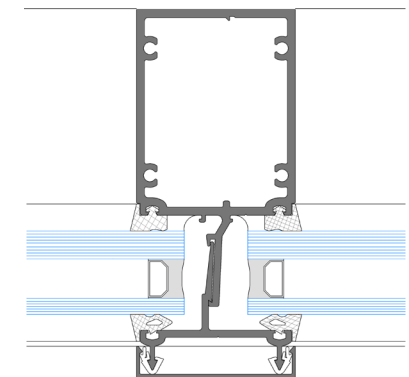
### HiR

Provides U-Factor of 0.35 BTU/ft<sup>2</sup> x hr x °F with high performance glass U-Factor of 0.25 BTU/ft<sup>2</sup> x hr x °F.



### SSG

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



### BLAST

Capable of resisting medium level blast mitigation requirements.



Project: Duval County Courthouse  
Location: Jacksonville, FL



Headquarters  
7900 Xerxes Avenue South, Suite 1800  
Bloomington, MN 55431  
Toll Free: 877.525.9566

Find a Harmon office near you  
[www.harmoninc.com](http://www.harmoninc.com)

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SMU6000



# SMU6000 SERIES

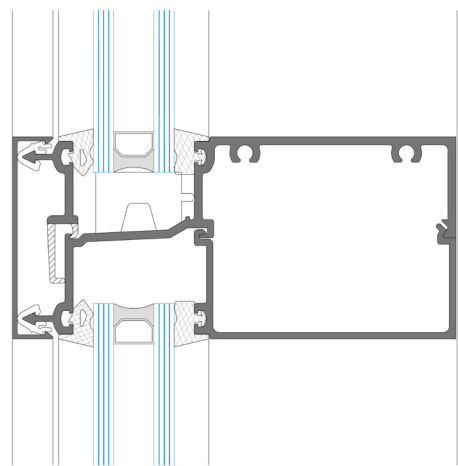
A unitized, pre-designed, pre-assembled, pre-glazed system. Configured to meet your design with the benefits of thermal separation and versatility of captured or structurally glazed. Ability to install and reglaze from the inside or outside of the building into punched openings, strip windows, curtain 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 an 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.

Glass Make-up	Glass U-Factor	System U-Factor	Condensation
1/4" Glass, 1/2" Alum. Air Spacer, 1/4" Glass with Low-E Coating on #2 Surface	0.29	0.52 - 0.50	5°
1/4" Glass, 1/2" SS Air Spacer, 1/4" Glass with Low-E Coating on #2 Surface, Argon Filled	0.25	0.47 - 0.45	0°

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.



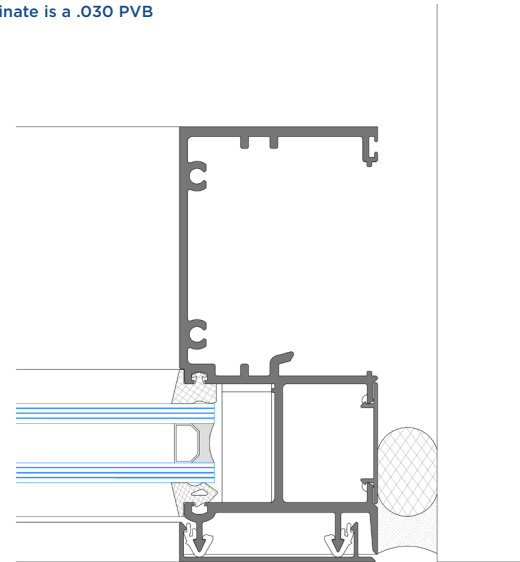
*Intermediate Horizontal At Vision*

## 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.

Glass Make-up	STC	OITC
1/4" Glass, 1/2" Air Space, 3/8" Laminated Glass*	37	30
1/4" Glass, 1/2" Air Space, 1/4" Glass	31	27
1/4" Glass, 5/8" Air Space, 7/16" Laminated Glass*	37	30
1/4" Glass, 3/8" Air Space, 7/16" Laminated Glass*	36	31

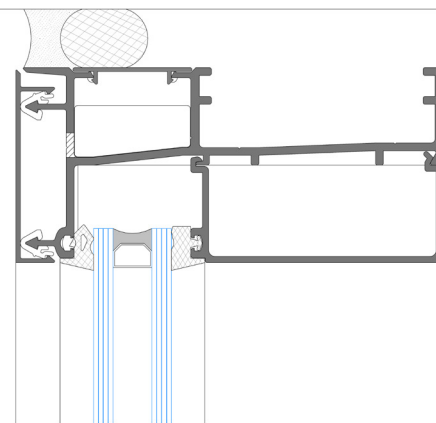
\*Laminate is a .030 PVB



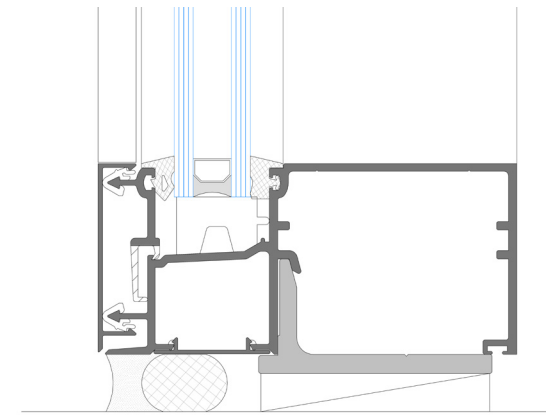
*Jamb at Vision*

## GLASS THICKNESS OPTIONS

The glass pocket will allow for monolithic and insulating glass configurations from 1/4" to 1 5/16".



*Head at Vision*



*Still At Vision*

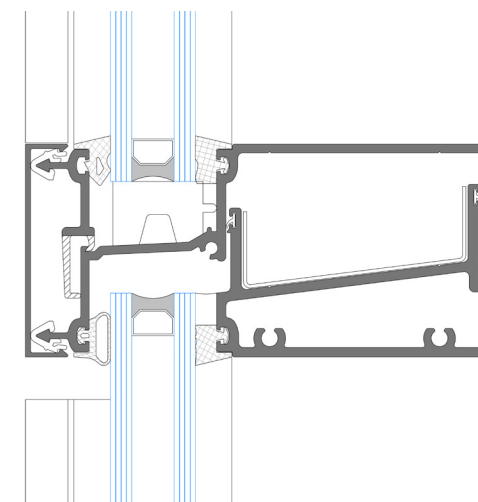
## STRUCTURAL

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.



*Stack Horizontal At Vision*

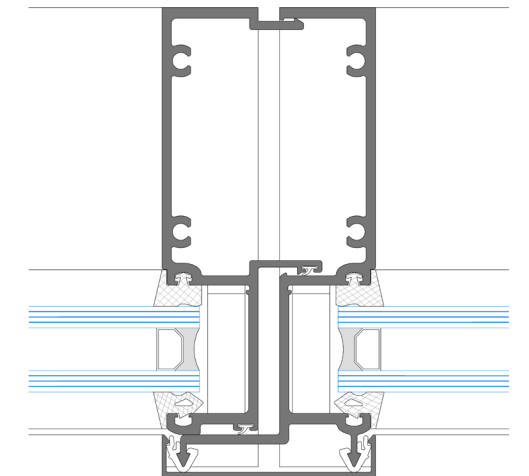
## MOVEMENT

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.



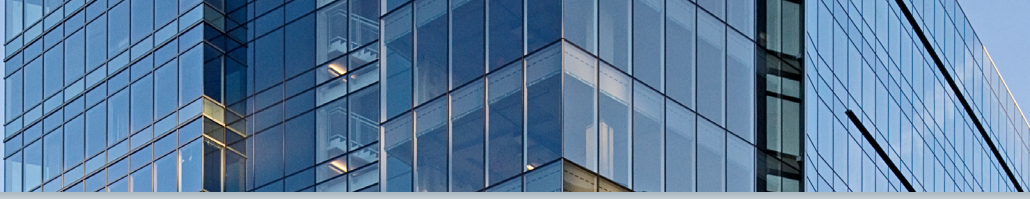
*Split Mullion At Vision*

## 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 INFILTRAION

The system has tested successfully with no water leakage up to 15 psf dynamic and static pressures.



# SMU6000 SERIES



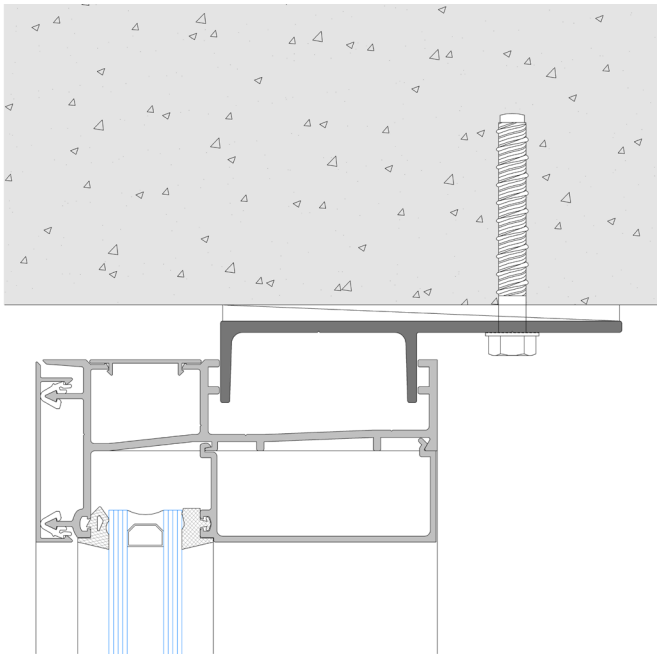
## STRIP AND PUNCHED WINDOW ANCHORAGE OPTIONS

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.

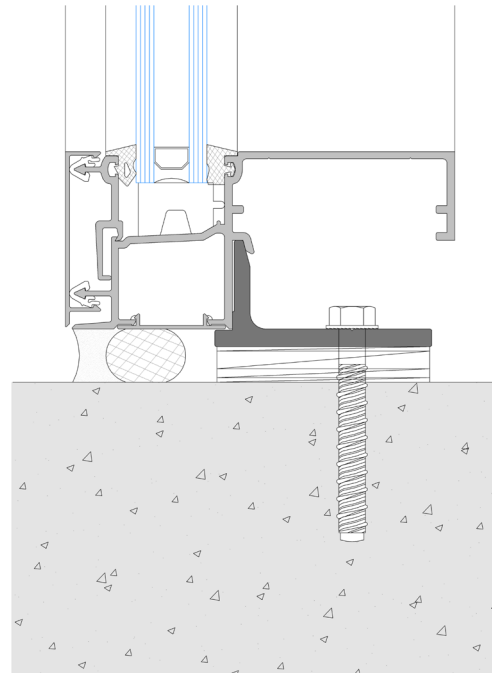
Multiple anchorage methods give versatility to the SMU6000 system in a variety of installation conditions.

**Anchors will accommodate:**

- differing installation techniques
- building construction tolerances
- variable wind load conditions
- variable dead load conditions



*Head Anchor*



*Sill Anchor*



Project: Duval County Courthouse  
Location: Jacksonville, Florida



Project: Bowie Corporate Center  
Location: Bowie, Maryland

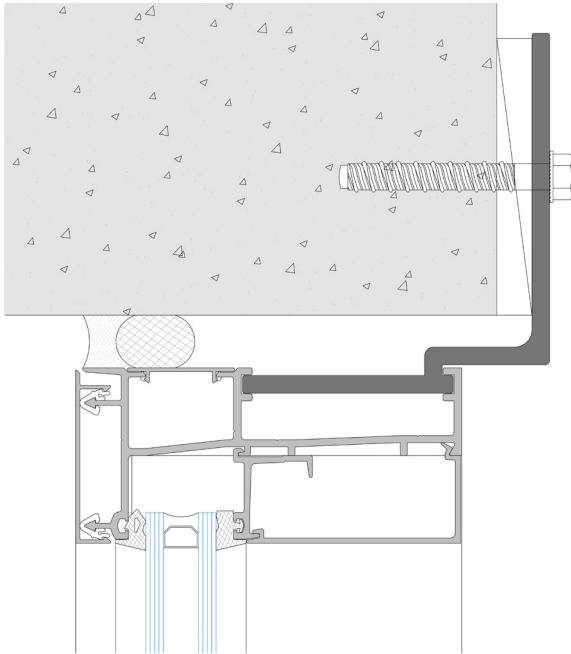


Project: Hilton Convention Center  
Location: Orlando, Florida

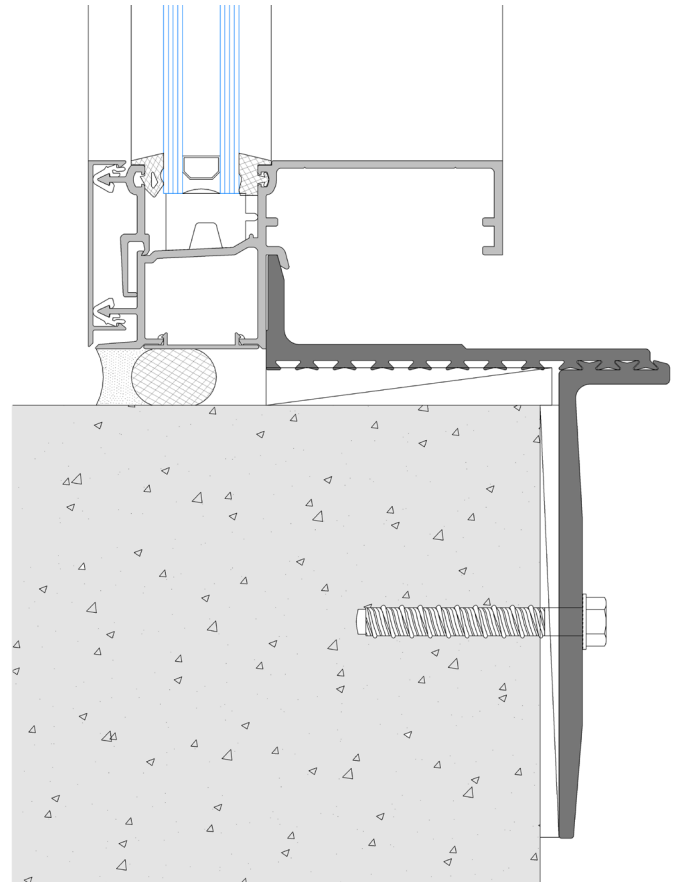


In strip and punched window conditions, anchorage can either occur on the top, bottom, or back of envelope materials.

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



*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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