





Section _____ Face of Slab Anchor ____ Plan



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UCW8000 SYSTEM

The UCW8000 system is a custom curtain wall system with base line chassis elements. The chassis elements include the following methodologies:

- Primary air and water barrier
- Secondary water diversion
- Lifting lug and load transfer
- Exterior cover
- Trim attachment
- Fastener types, locations, and materials
- Gasket types, locations, and materials
- Standard fabrication and assembly



Horizontal Vision over Vision

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	0.38	-15°
1/4" Glass, 1/2" SS Air Spacer, 1/4" Glass with Low-E Coating on #2 Surface, Argon Filled	0.25	0.34	-20°

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 the glass lite size, eliminating trim, utilizing synthetic fins, or eliminating glass protecting fins. The UCW8000 system has numerous features that can be modified based on the architectural requirements of the project. These features include:

- Mullion width and depth
- Cover configuration
- Trim dimension and design
- Sunshade and other brackets
- Glass thickness
- Anchorage methodology
- Stack joint size requirements (standard accommodates ±7/8" of total movement)



Vertical Mullion with Sunshade Bracket

APPEARANCE & FEATURES

The UCW8000 system can be customized to accommodate variable glass thicknesses, horizontal and vertical trim, sunshades, module sizes, and a variety of infills.



Sill Starter



ACOUSTICS

Acoustic performance relies primarily on the glass configuration. The framing provides a minimal reduction in acoustic performance of 1 to 2 units. Values listed are for glass only.

STC	ΟΙΤϹ
37	30
39	30
40	33
43	36
42	34
	STC 37 39 40 43 42

*Laminate is a .030 PVB



GLASS THICKNESS OPTIONS

The system can accommodate glass thicknesses from 1/4" to 2". There is also an option for an internal acoustic lite.

MOVEMENT

Lateral and vertical building movement is determined and verified by the structural engineer of record for the building.

The UCW8000 system has the capability to accommodate lateral floor-to-floor movement up to H_{400} for wind, design seismic movement ±0.010, and ultimate seismic movement of ±0.020. The system has vertical inter-story movement capability of up to ±7/8". This movement capability includes: instantaneous live and load deflection, a portion of long term creep, column shortening, fabrication and installation tolerances, and thermal movement. If a larger vertical inter-story movement is desired, the system can be modified.



Vertical Mullion - Outside Corner

STRUCTURAL

A custom system such as the UCW8000 can be designed to accommodate a wide variety of structural requirements. Each project is specifically analyzed to efficiently determine the required width and depth.

AIR INFILTRATION

Typical testing criteria for air infiltration is 0.06 cfm/ft^2 of fixed wall at 6.24 psf static air pressure. The UCW8000 system commonly tests better than 0.02 cfm/ft^2 .

WATER INFILTRATION

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