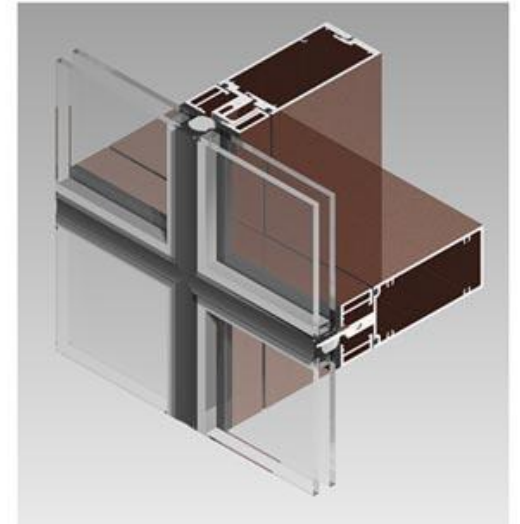


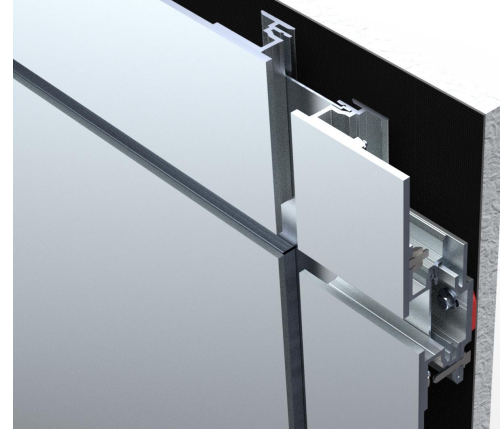
Facade Materials: Opaque Facade and Glass Curtain Wall Systems

Shun Ebihara

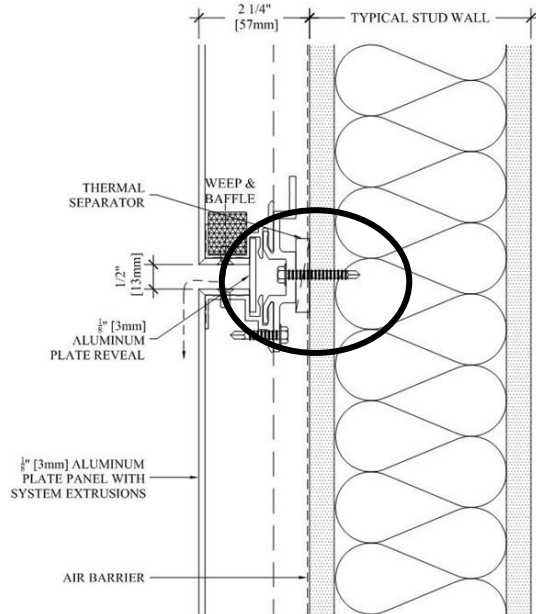


Sobotec SL-2000P Caulked Joint System

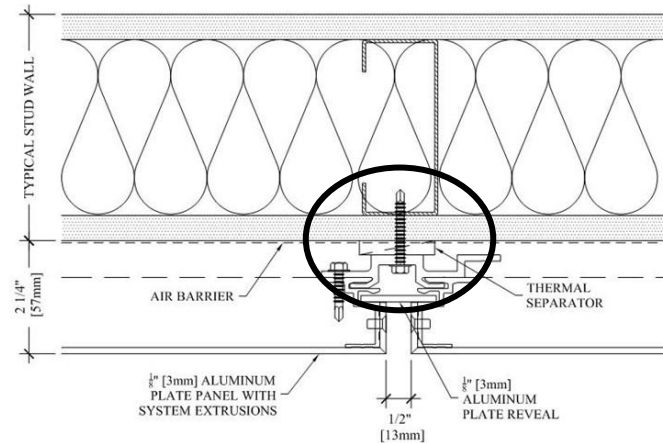
- How does it function structurally and how does it attach to the building?



-The aluminum plate is connected to the hook which is bolted to the stud wall as well as the metal studs.



SL-2000P HORIZONTAL JOINT

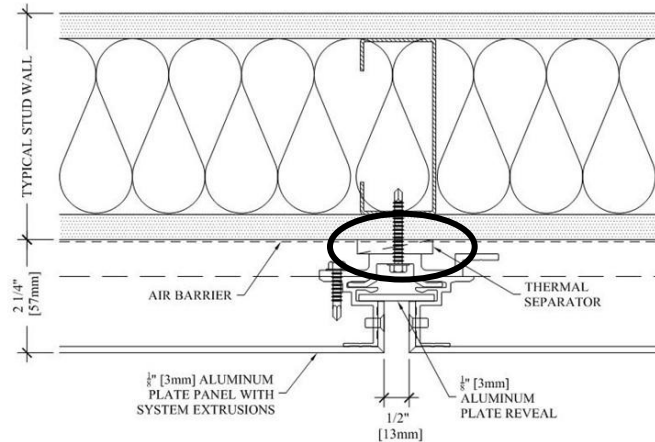
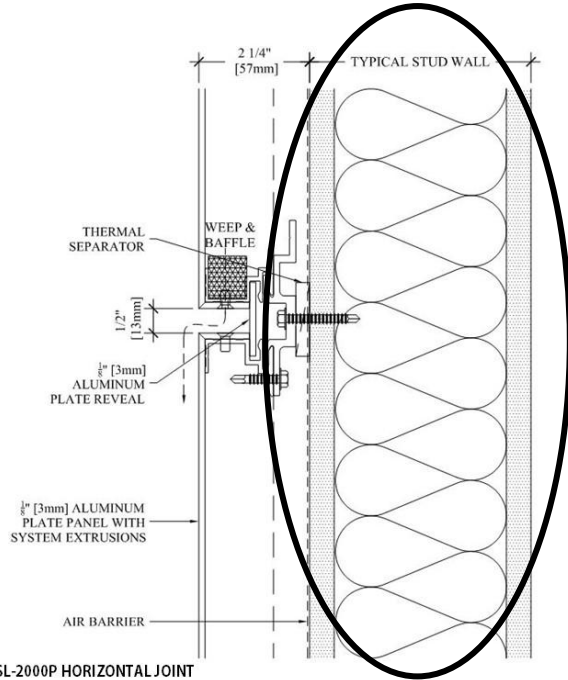
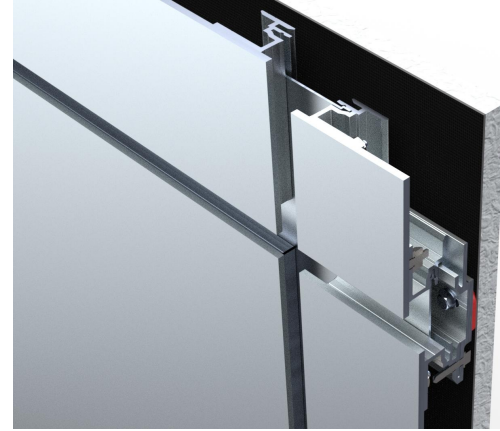


NOTTO SCALE SL-2000P VERTICAL JOINT

NOTTO SCALE

Sobotec SL-2000P Caulked Joint System

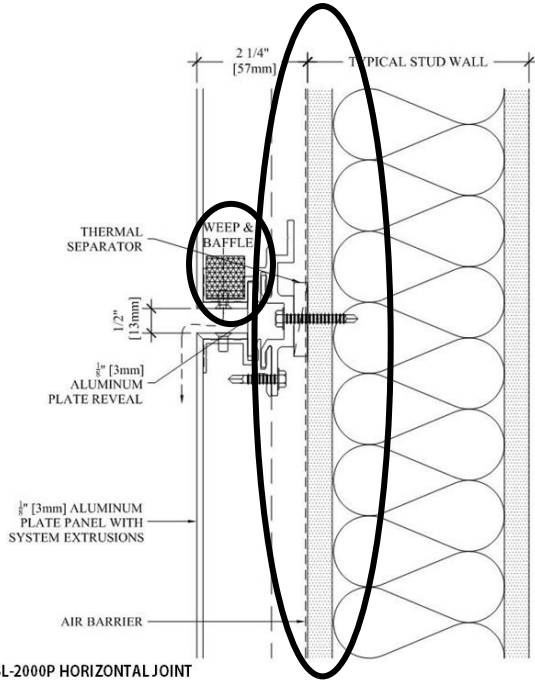
- How does it provide thermal resistance? or how is it insulated? where do we see thermal bridges or thermal breaks?



-We see a thermal break located by the bolt against the stud wall.
-Since this glass curtain wall is connected through a typical stud wall, thermal resistance is shown by the air barrier and the gypsum board insulation from the wall.

Sobotec SL-2000P Caulked Joint System

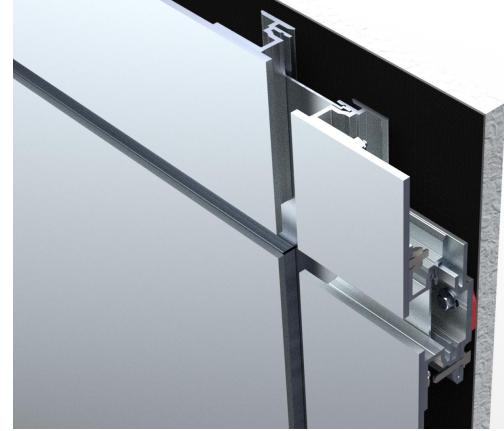
- How does it waterproof the building?



NOT TO SCALE

-Stud walls have moisture and air barriers, which can prevent the exposure of water coming in. In addition, sheathing can help as well.

-The weep and baffle slows flow of water or air into the framing system.



Case Study Sobotec SL-1000P Caulked Joint System

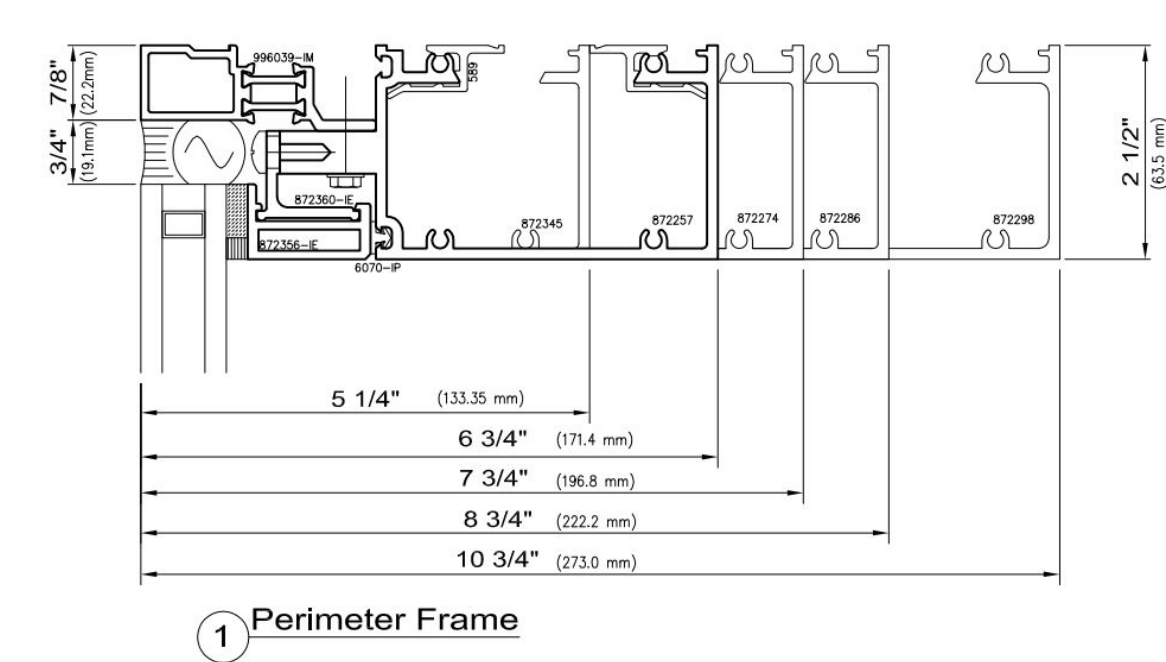
RUSH University Medical Center

-Location: Chicago, IL
-Architect: Perkins + Will

-It maximizes the amount of exterior wall surface and the number of windows.
-The panels are attached by the ceiling heights from floor to floor.
-The panels are installed by their panel joints, side by side between the mullens, vertically.
-The building is waterproof by the exterior cladding as well as the heavy glass.

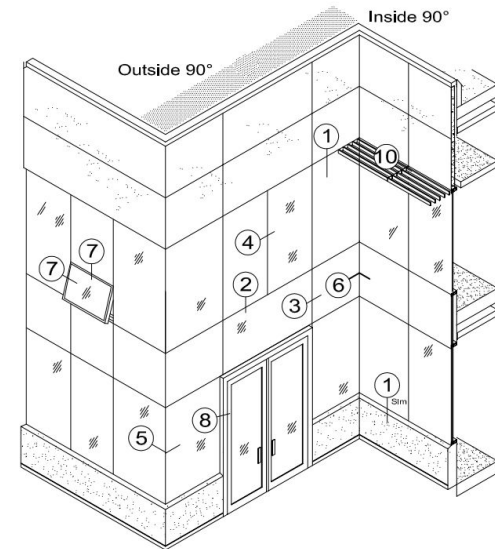


Wausau SuperWall SSG Four-Sided



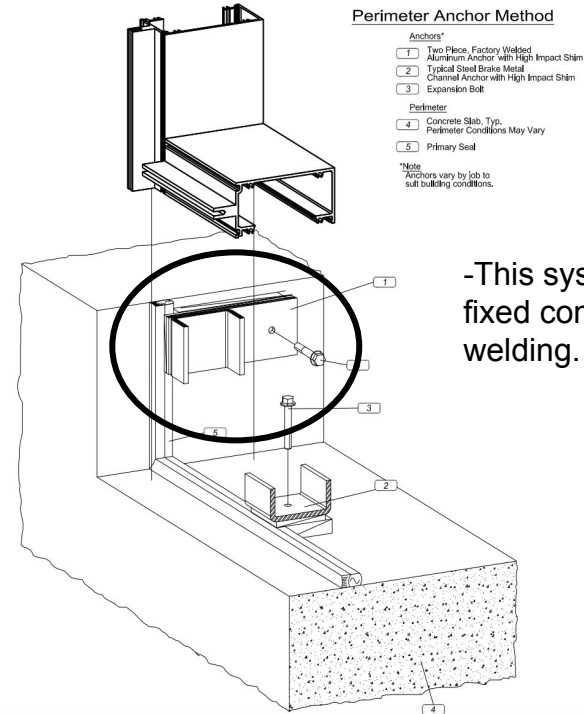
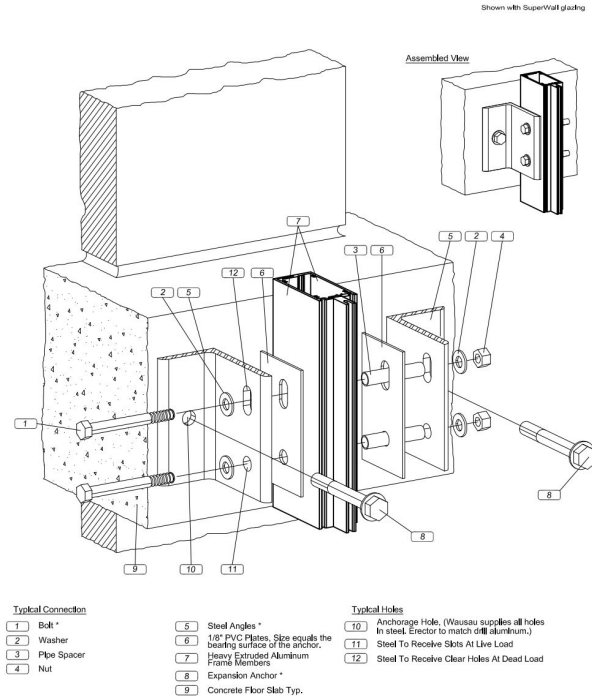
Detailed plan view

Section Contents	Page(s)
Details	C11-2
Mullions	C11-3 and C11-4
Corners	C11-5 and C11-6
Project-Out Vent Details	C11-7
Door Frame Insert	C11-8
Trim Covers	C11-9 and C11-10
Sun Shade Bracket	C11-11
Mullion Splices	C11-12
Glazing Options	C11-13
Anchorage Isometrics	C11-14a through C11-15



Wausau SuperWall SSG Four-Sided

- How does it function structurally and how does it attach to the building?

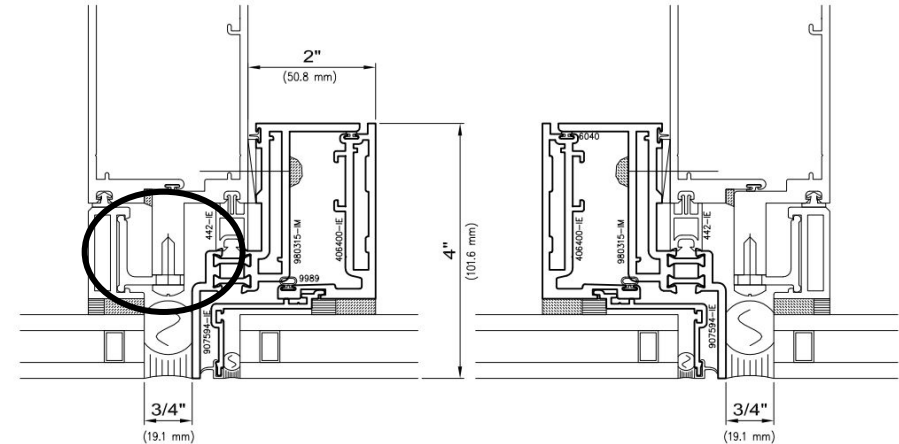
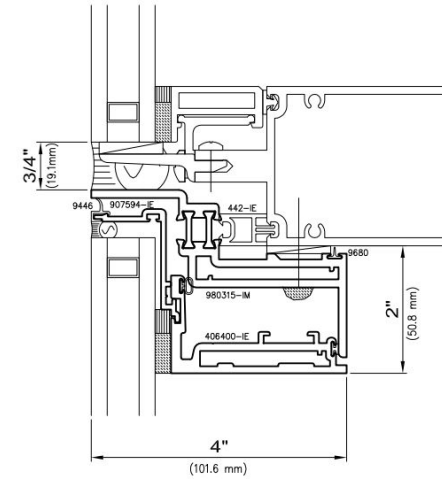
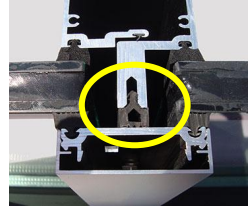


-This system uses the idea of a fixed connection by bolting and welding.

Wausau SuperWall SSG Four-Sided

- How does it provide thermal resistance? or how is it insulated? where do we see thermal bridges or thermal breaks?

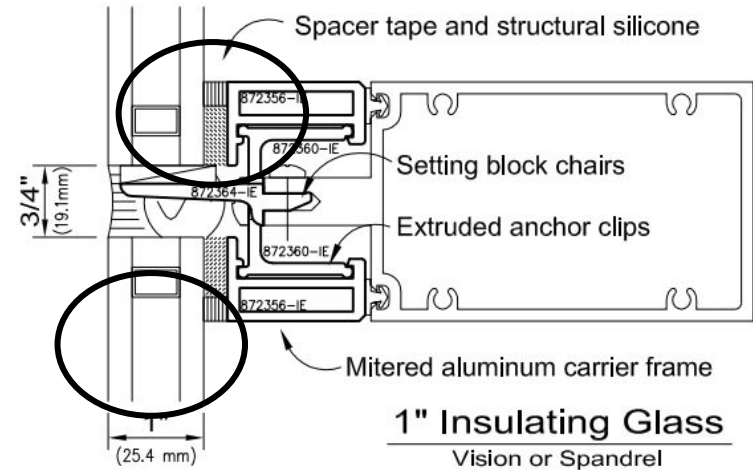
-This system can accommodate zero sightline insert vents for natural ventilation, exterior sun shades as well as interior light shelves for daylight optimization.
-We see a thermal break located in between the glass slabs, but tucked in.



SuperWall SSG Four-Sided

- How does it waterproof the building?

-It uses double insulating glass.
-Spacer tape and structural silicone helps any leakage from the building.



Case Study - Wausau SuperWall SSG Four-Sided

Slate (Block 75)

-Location: Portland, OR

-Architect: Works Progress Architecture, LLP

-It functions as a four sided window and it is attached vertically to the building.

-It provides thermal resistance by the strength of the heavy architectural glass and the low air infiltration.

-The form of the building allows the windows to be setback, rain will be protected from the top, but from the sides the heavy glass and material makes it waterproof.

-The metal panels helps it waterproof the whole building.

