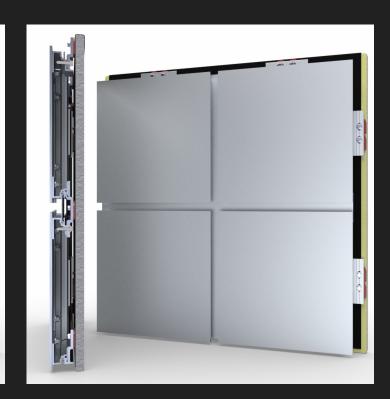
# Btech-Case Study Assignment

Leny vargas

Opaque Facade System

Sobotec (SL-5000P Sealed-Joint Aluminum Plate)



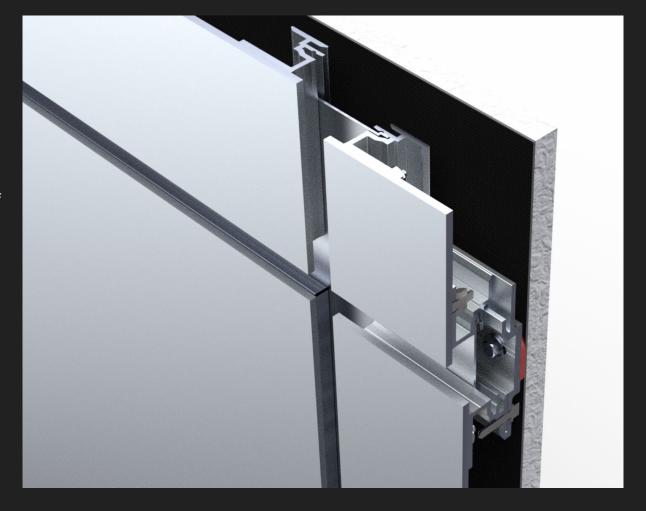


# Sobotec (SL-5000P) Sealed-Joint Aluminum Plate)

Basically it's a Metal stamping (very thick) solid plates at every system used when the exposed panels edge if they want it that way.

The system attached is customized by engineers using the welded studs so it can reduce heat transfer to face of the panels

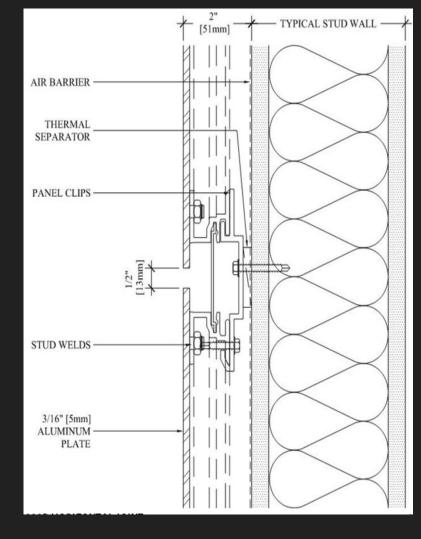
The panels joints are set into the wall(just like doors or windows) and done in dark color so it can create a dark shadow.



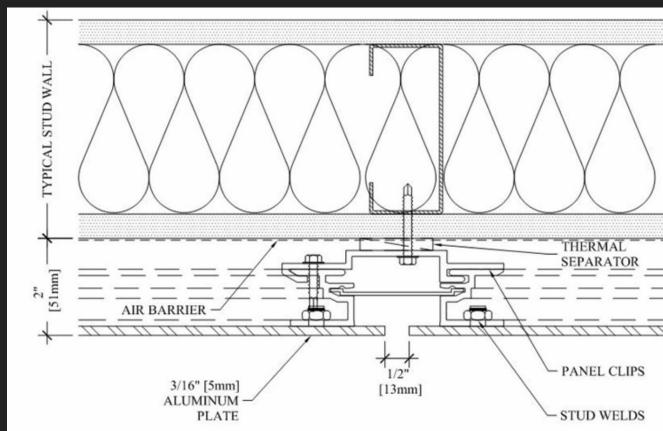
# Sobotec (SL-5000P Sealed-Joint Aluminum Plate)

Design:

## **System Characteristics & Testing** Material: 3/16" (~5mm) Aluminum Plate Joint Dry Type: Standard 1/2" Joint Size: Full Scale Wall Test at ATI, York, PA; Testing: Panel Load Tests at ITS, Toronto, ON Wall Pressure Equalized Rainscreen System



Sobotec (SL-5000P Sealed-Joint Aluminum Plate)



# Sobotec (SL-5000P Sealed-Joint Aluminum Plate)

#### https://www.youtube.com/watch?v=Y23Rx mU5e0

Pressure Equalized Rain screen system

- ~open joint rainscreen facade choosing alovi cause pressure equalized system.
- ~LPL/ speed 1-1 which transfer the structural load to the wall which goes inside the brackets
- ~Trace v-groove bit rooter with 90 degree cutting angle to make grooves on the ACP/ THen fold the panels into a tray
- ~LPL/P/111 Place at the corner of the tray and connect them and to secure them with aluminum pop rivets and steel screws

### https://www.youtube.com/watch?v=0ZbgxvpuU80

~Drainage Gap from MTI create drainage gaps from ⅓ in,

3/16 in and  $\frac{3}{4}$  in for increasing level of protection.







**Project:** Gates Vascular

Institute

**Location:** Buffalo, NY

**Architectural Firm:** 

Yazdani Studio of

CannonDesign

Sobotec System &

Material: SL-5000P & Solid

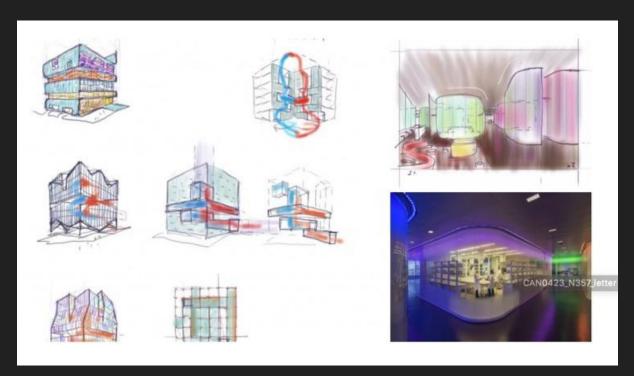
Aluminum Plate



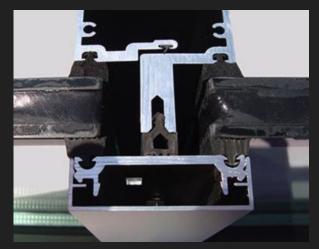
# **Project:** Gates Vascular Institute

It's a hospital where doctors are performing complicated procedure on patients who are suffering from strokes cardiac and vascular care.

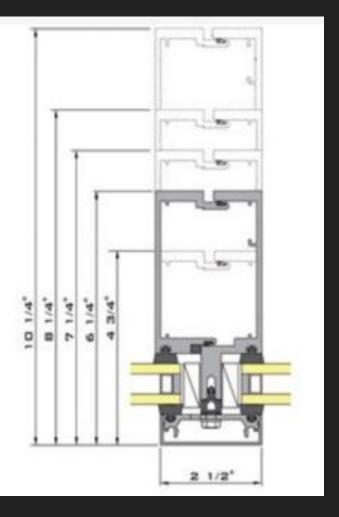
Here's are drawing how they programed the building for the hospital



-Wausau (Superwall)







#### FEATURES:

- · Wausau's flagship curtainwall product line
- 43/4", 61/4", 71/4", 81/4" or 101/4" frame depths
- · Several frame depths including cladding for steel tubes
- 2 1/2" or 3" exterior sight line Many accent covers available
- 3/8" thermal separation
- Proven pressure-plate system designed for field glazing
- · Captured or two-side structural glazed
- Splayed mullions available for segmented radii
- · Screw-spline construction
- . "F" and "T" perimeter anchors
- Zero sight line vents available
- · Available with interior access doors and between-glass blinds
- · Exterior sun shades and interior light shelves available
- · NFRC and Component Modeling Approach (CMA) listed
- Recycled aluminum framing available upon request

## -Wausau (Superwall)

http://www.wausauwindow.com/resour ces/files/Wausau\_SuperWall\_Binder\_ Details\_PDF.pdf

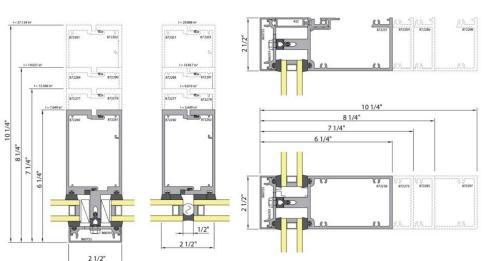
Thermal Performance Summary	NFRC U-Factor BTU/hr.ft².°F	NFRC Solar Heat Gain Coefficient	CRF	STC OITC
	Modeled Range	SHGC Range		
6250 SuperWall Aluminum PP (Captured Glazing)	0.35 to 0.57	0.34 to 0.65	68 Frame 67 Glass	31 to 35 STC 26 to 32 OITC
6250 SuperWall Composite PP (Captured Glazing)	0.34 to 0.54	0.34 to 0.65	73 Frame 69 Glass	
6250 SuperWall SSG (Four-Side Silicone)	0.37 to 0.55	0.34 to 0.65	74 Frame 67 Glass	

-Wausau (Superwall)

https://www.youtube.com/watch?v=rQHZLT82hcE
shows how they are putting a glass curtain wall

SuperWall™

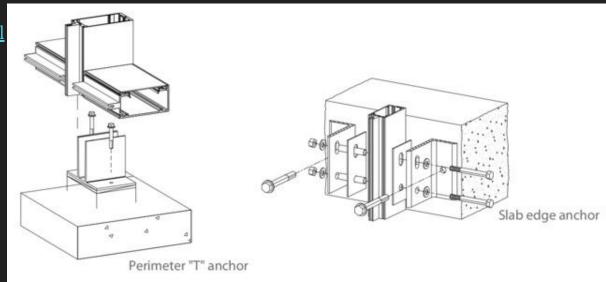
**Details** 



-Wausau (Superwall)

https://www.youtube.com/watch?v=yi2g6l rjJSw

Explains the safety measures and how their various options and materials to pick from as well fireproof and waterproof.



Project: Seattle's Third & Harrison office building features Wausau curtain wall and windows



