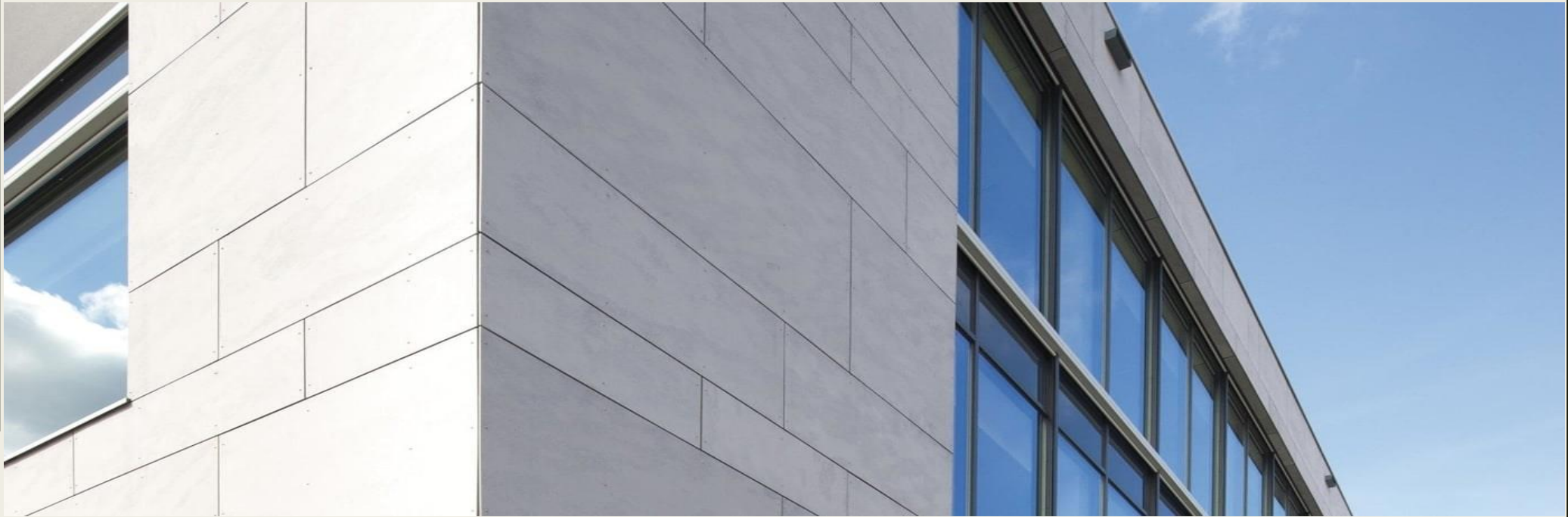


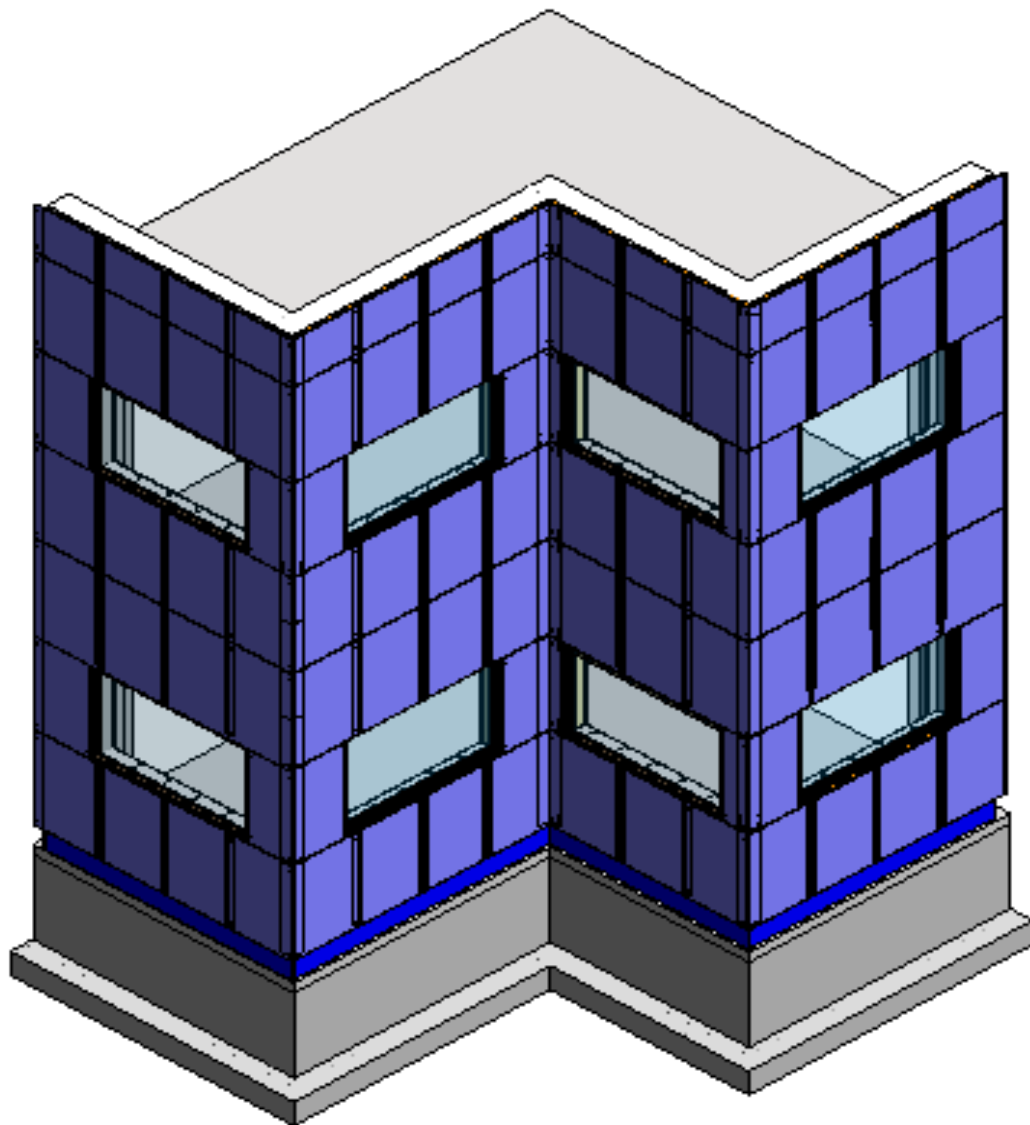
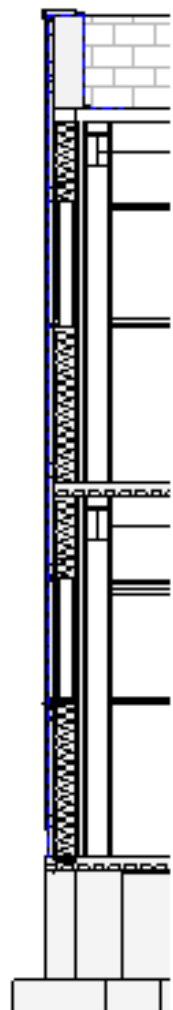
# EQUITONE [TECTIVA] FIBER CEMENT FAÇADE PANELS

TEA KHABELASHVILI

ARCH 2431. BUILDING TECHNOLOGY III. PROF. KING. SPRING 2020



Team members: Mei Fen, Sajida Hamdan



## Technical Specifications

Thickness

8mm

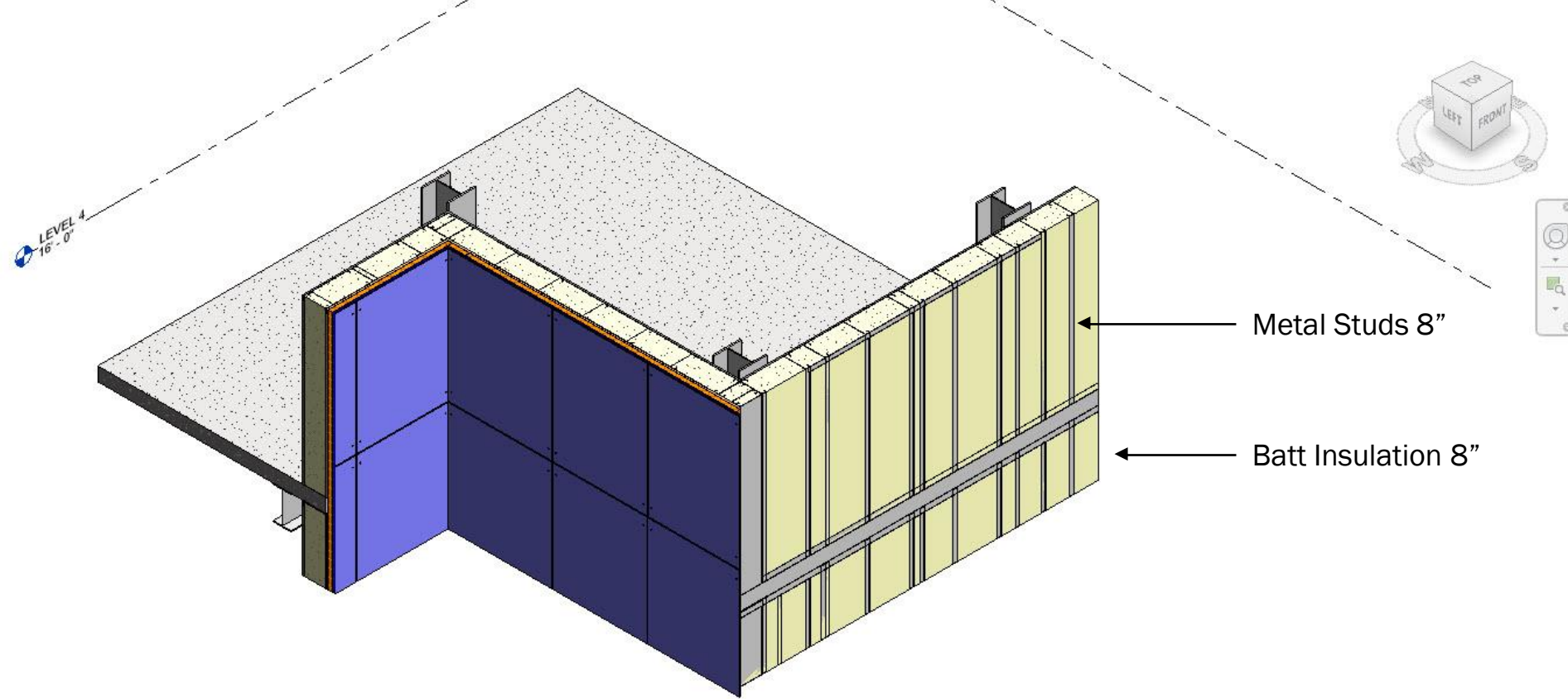
Panel Sizes

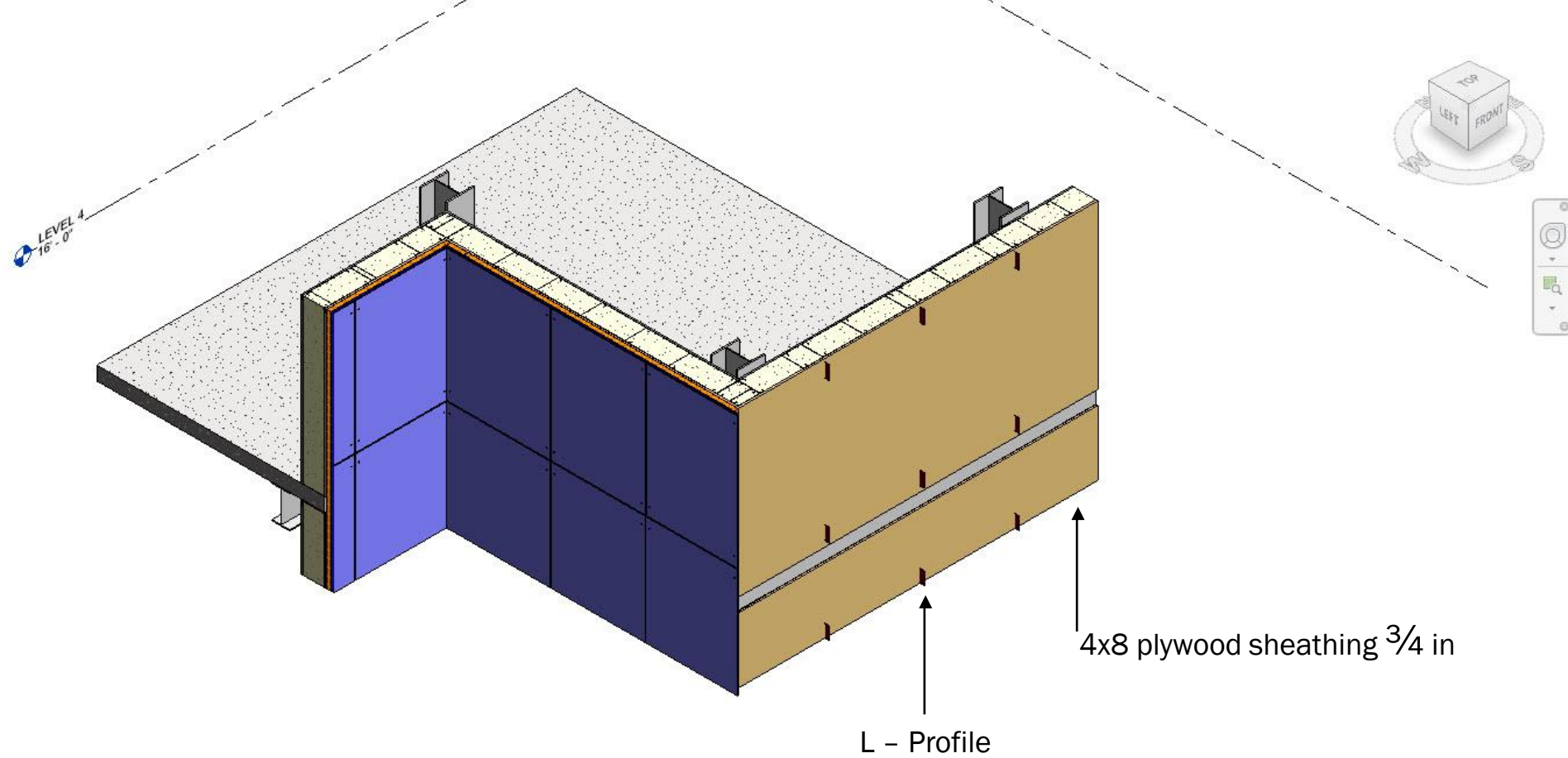
2500x1220 mm

Weight

14.9 kg/m<sup>2</sup>

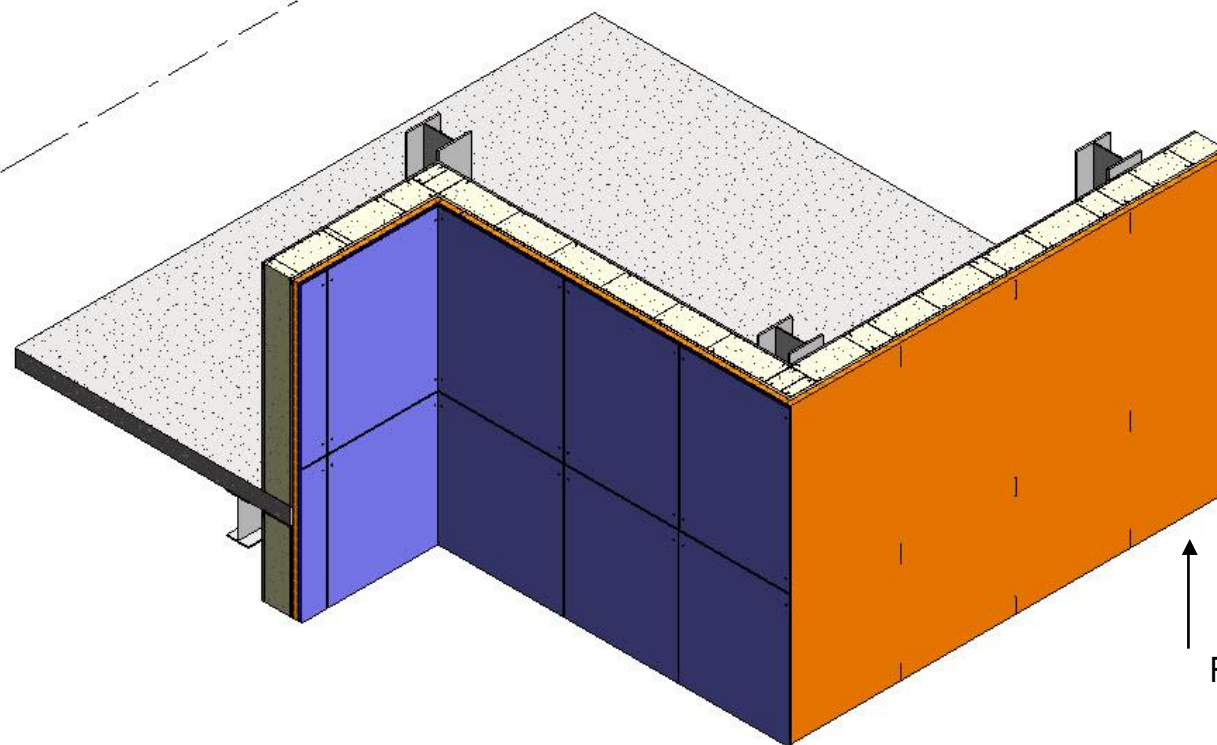
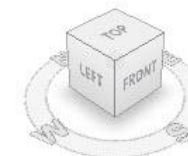






Vertical L- profile is anchored to the back metal studs with stainless steel screws.

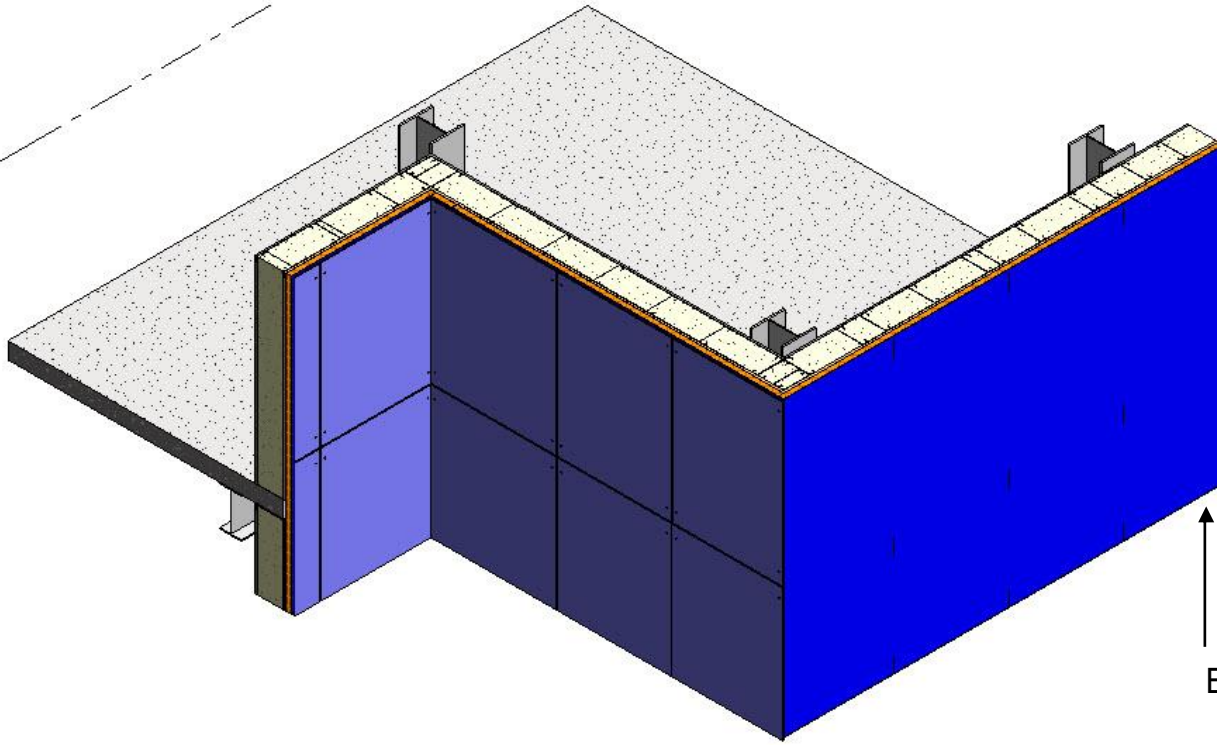
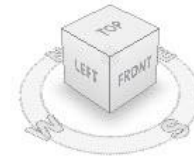
LEVEL 4  
16' - 0"



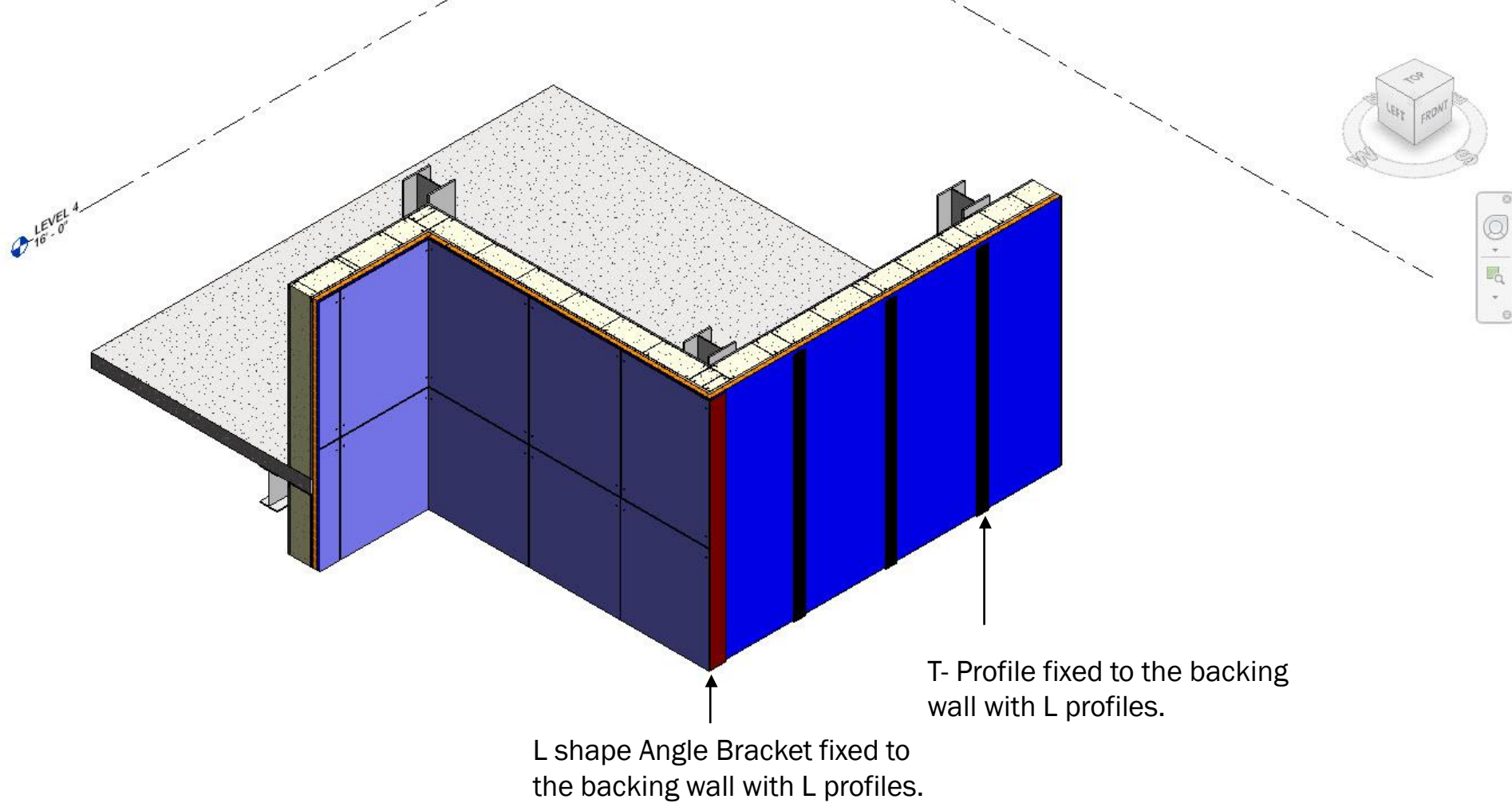
Rigid Insulation 0' 1 1/2"



LEVEL 4  
16'-0"

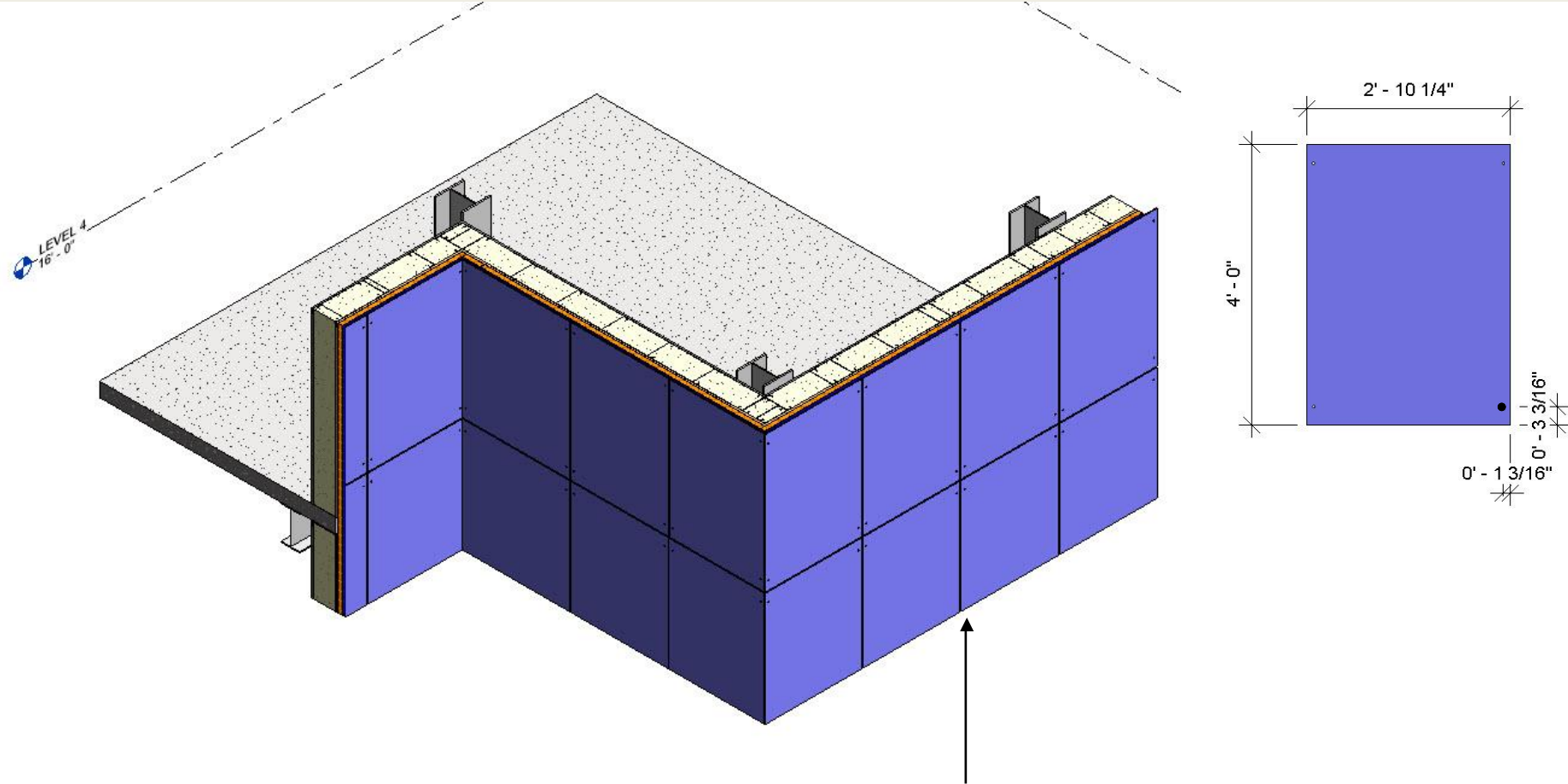


Backup wall Water Proofing -0 1/16"



Metal supporting  
frame and profiles.

Vertical T- profiles is anchored to the back wall with frame screws.

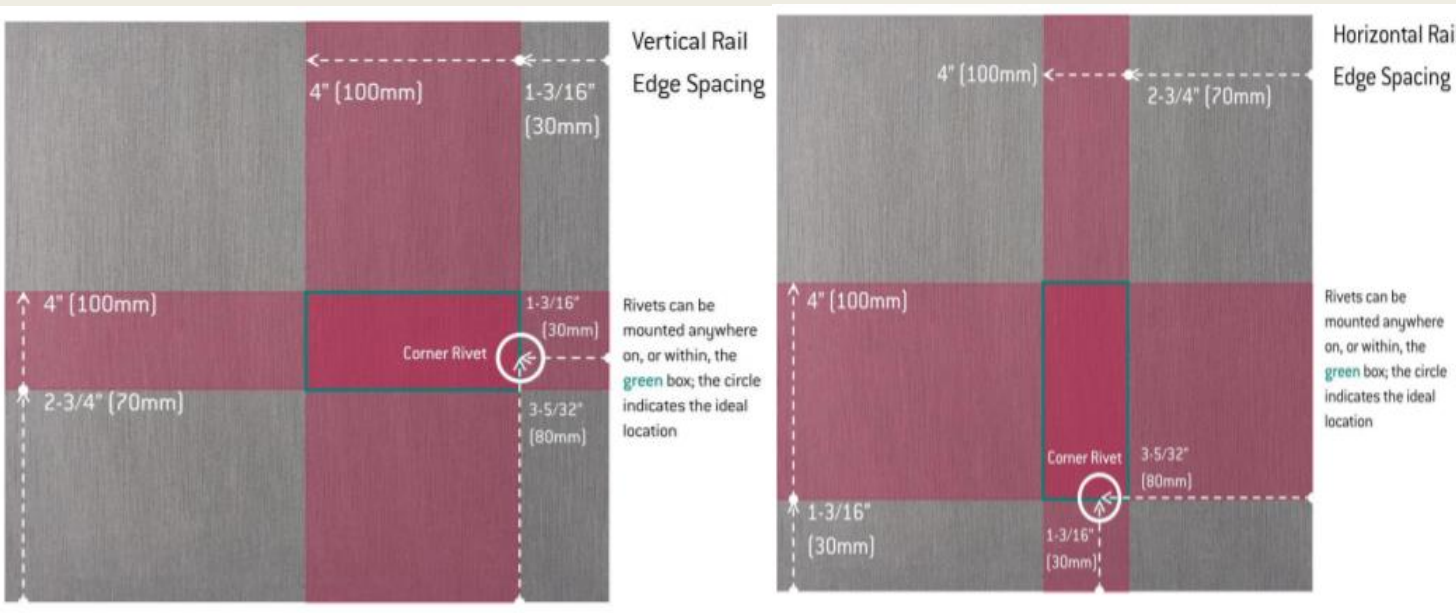
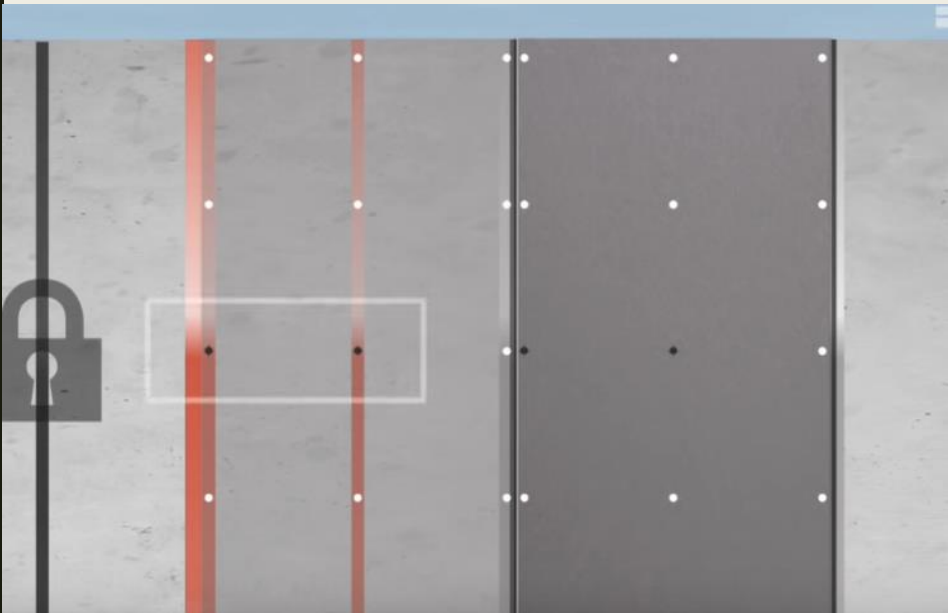


Equitone Tectiva 8mm. Fiber Cement Facade Panels.  
Open joints system – gap width between the panels -  
3/8 in. ( 10mm)

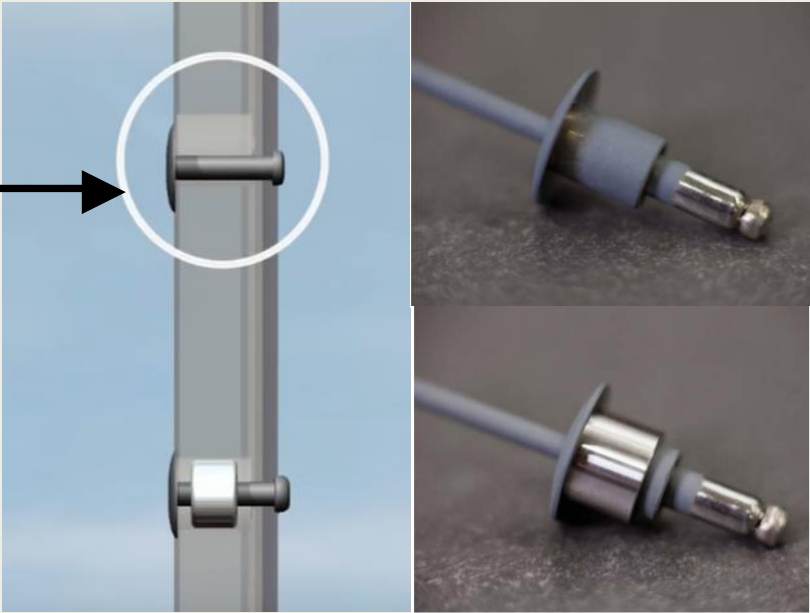
The Panels are fixed with rivets to metal supporting frames. 13/16 in (20 mm) space is added to the planned cavity and insulation thickness between the wall and cladding, to allow for dimensional variations and the air flow in the cavity space ,that helps to eliminate moisture.  
Vertical T- profile is anchored to the back wall with frame screws.

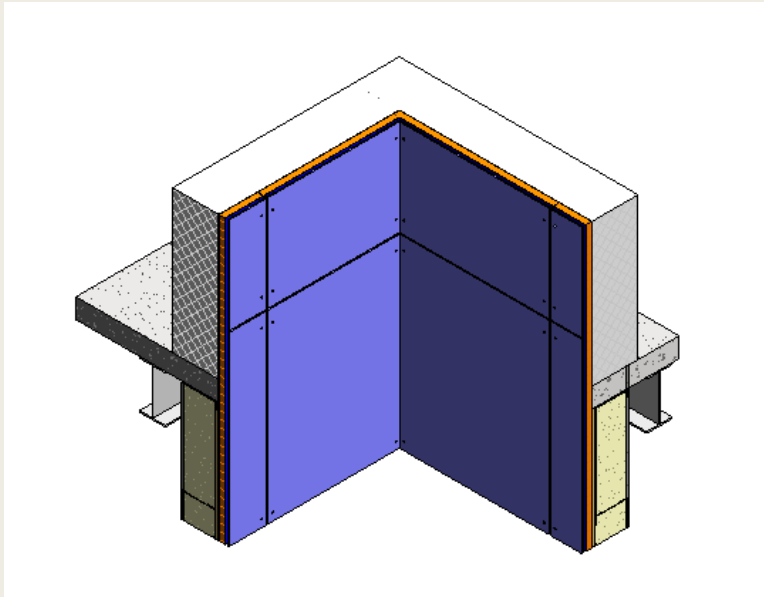


The EQUITONE panels fixed to vertical supporting T- Profile with rivets.



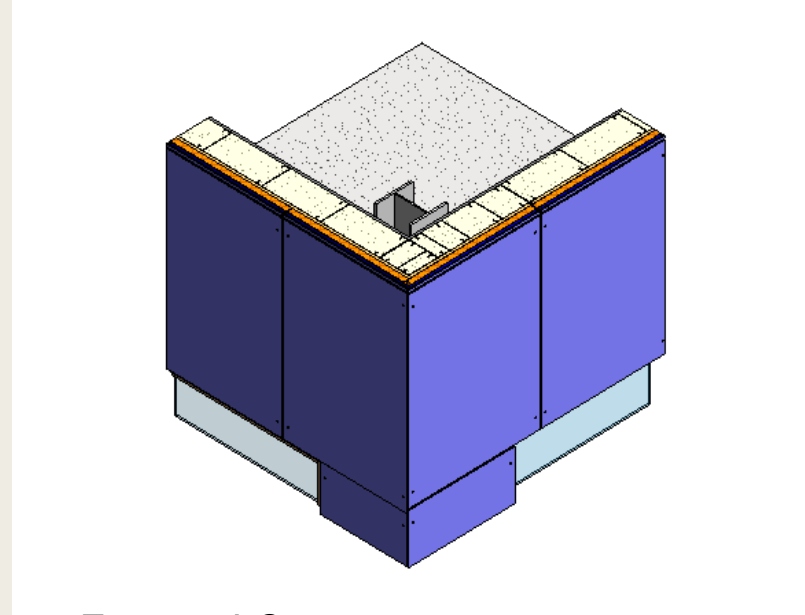
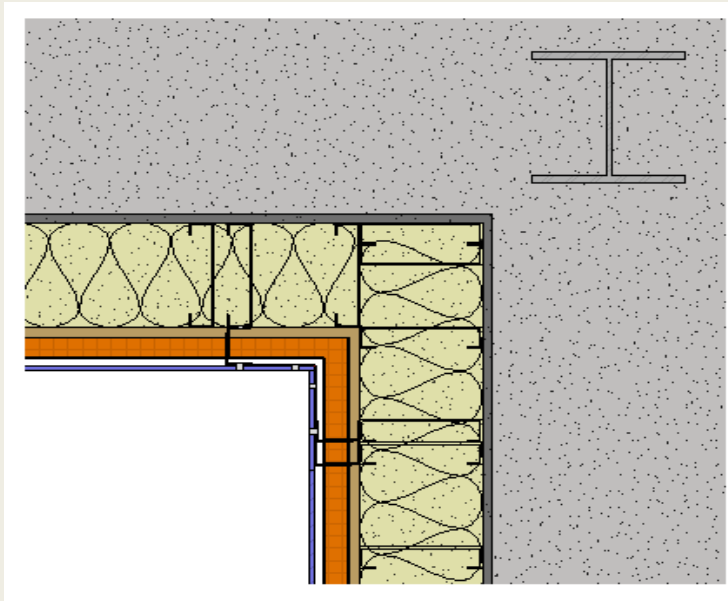
2 fixed points- rivet with sleeve and the rest are gliding points rivet without sleeve





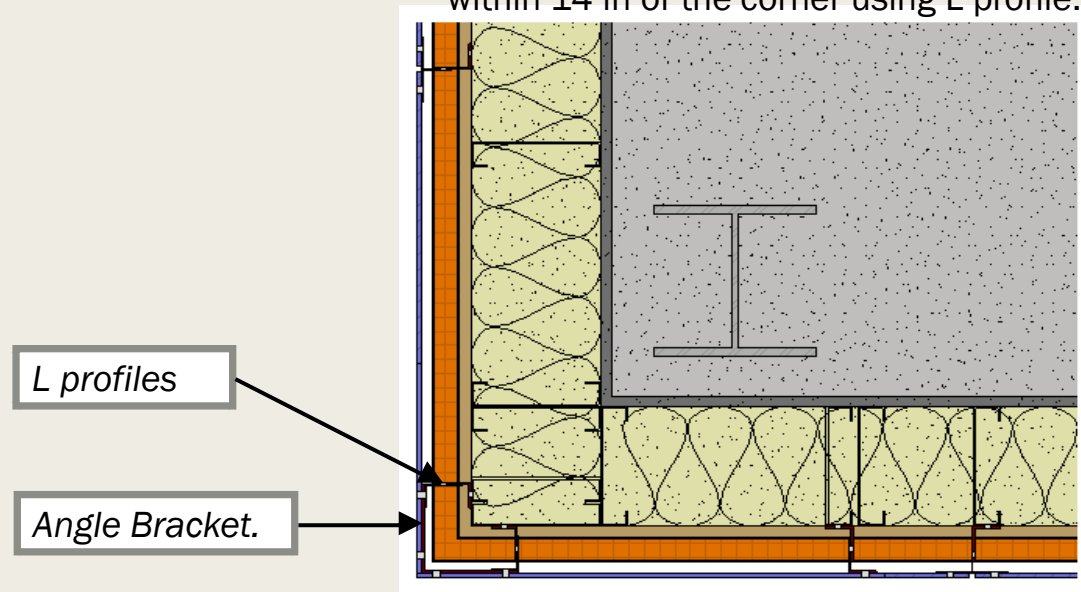
### Internal Corner

Engle profile is used to support the panel edges.  
Engle profile is fastened to the back wall with L profile.



### External Corner

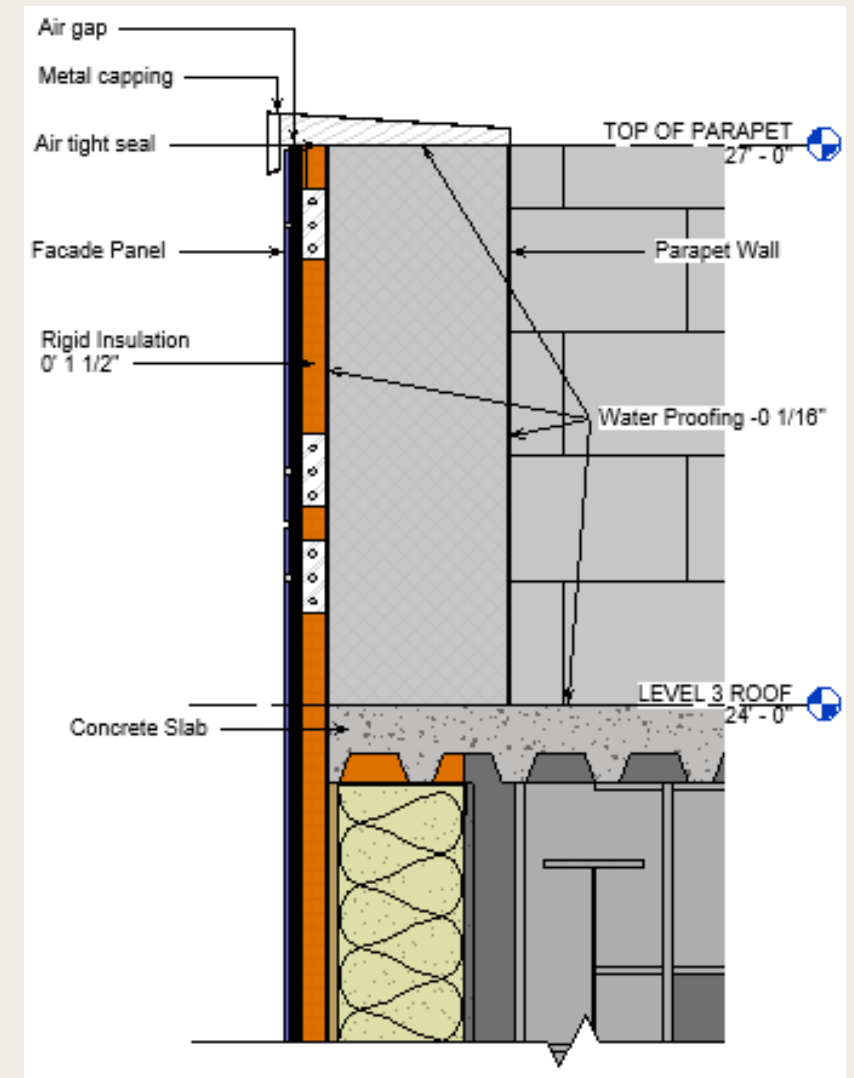
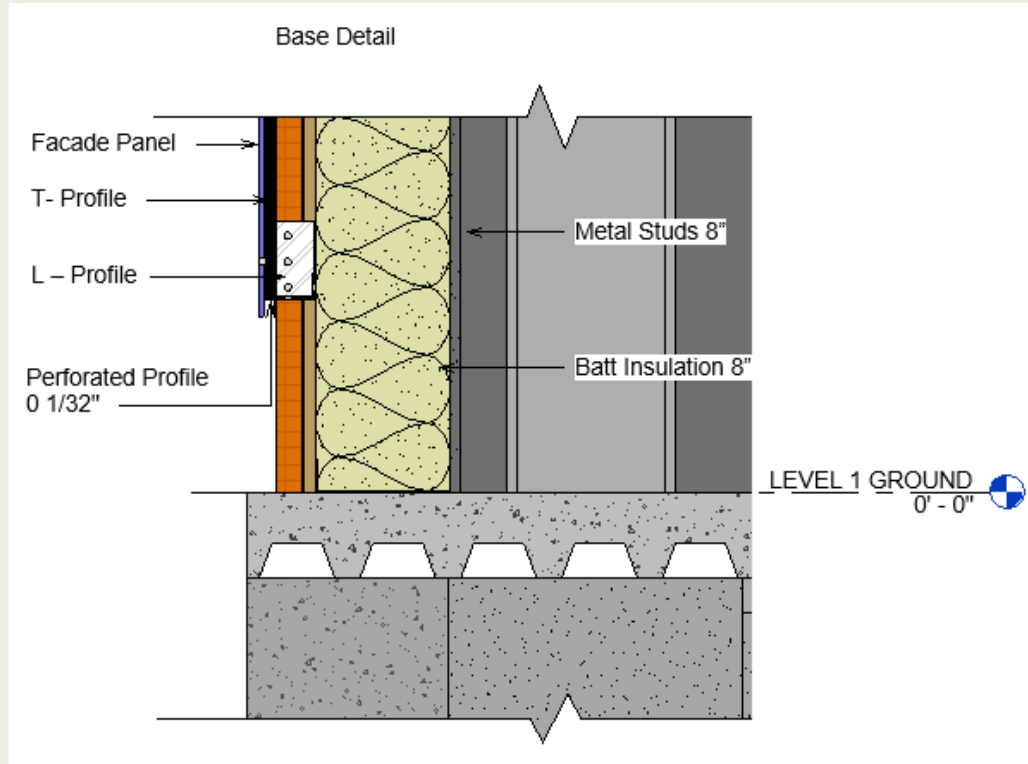
Engle profile is used to support the panel edges.  
Engle profile is fastened to the back wall within 14 in of the corner using L profile.



## Base Detail

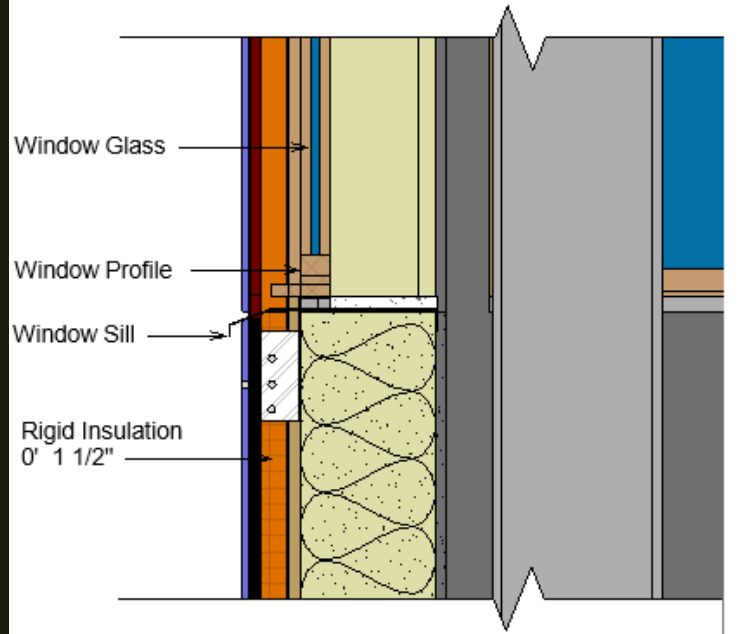
Ends of the panel- above the ground level 10 13/32", that prevents rain splash- back from the ground, and allows the air to enter the cavity.

Perforated profile is fitted between panels and back wall to allow the air to enter the cavity and allow the rainwater to fall away from the building.



## Parapet Detail

1 5/32" gap between the panel and the rear edge of the capping. The front edge of the capping overhangs the panel (2 in)

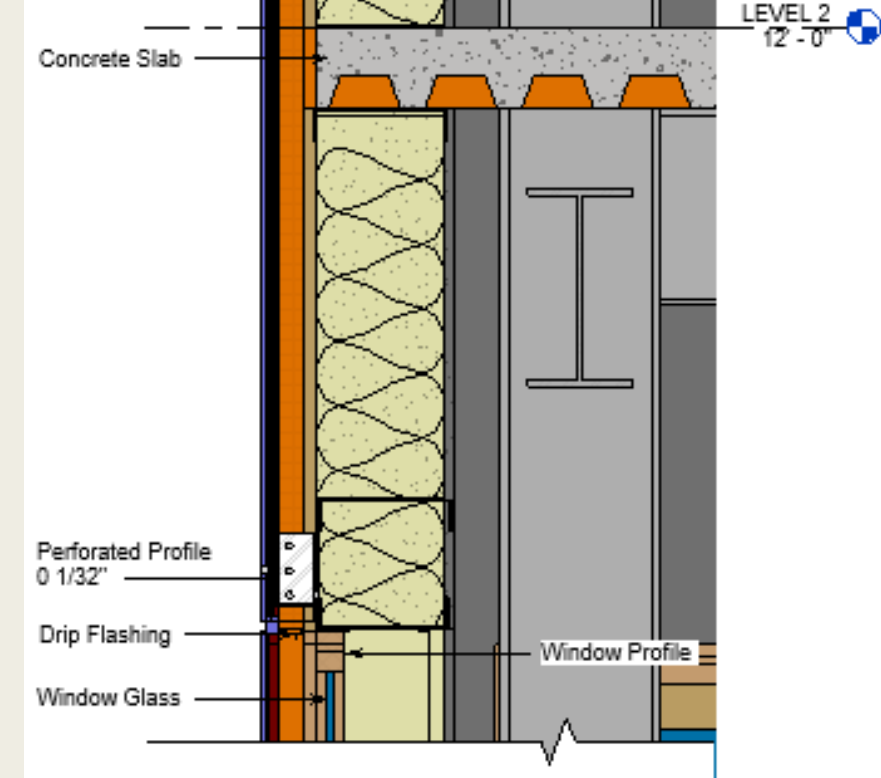


## Window Sill Detail

3/8" gap between the panel and the base of the sill.

3/4" - distance between front edge and panel.

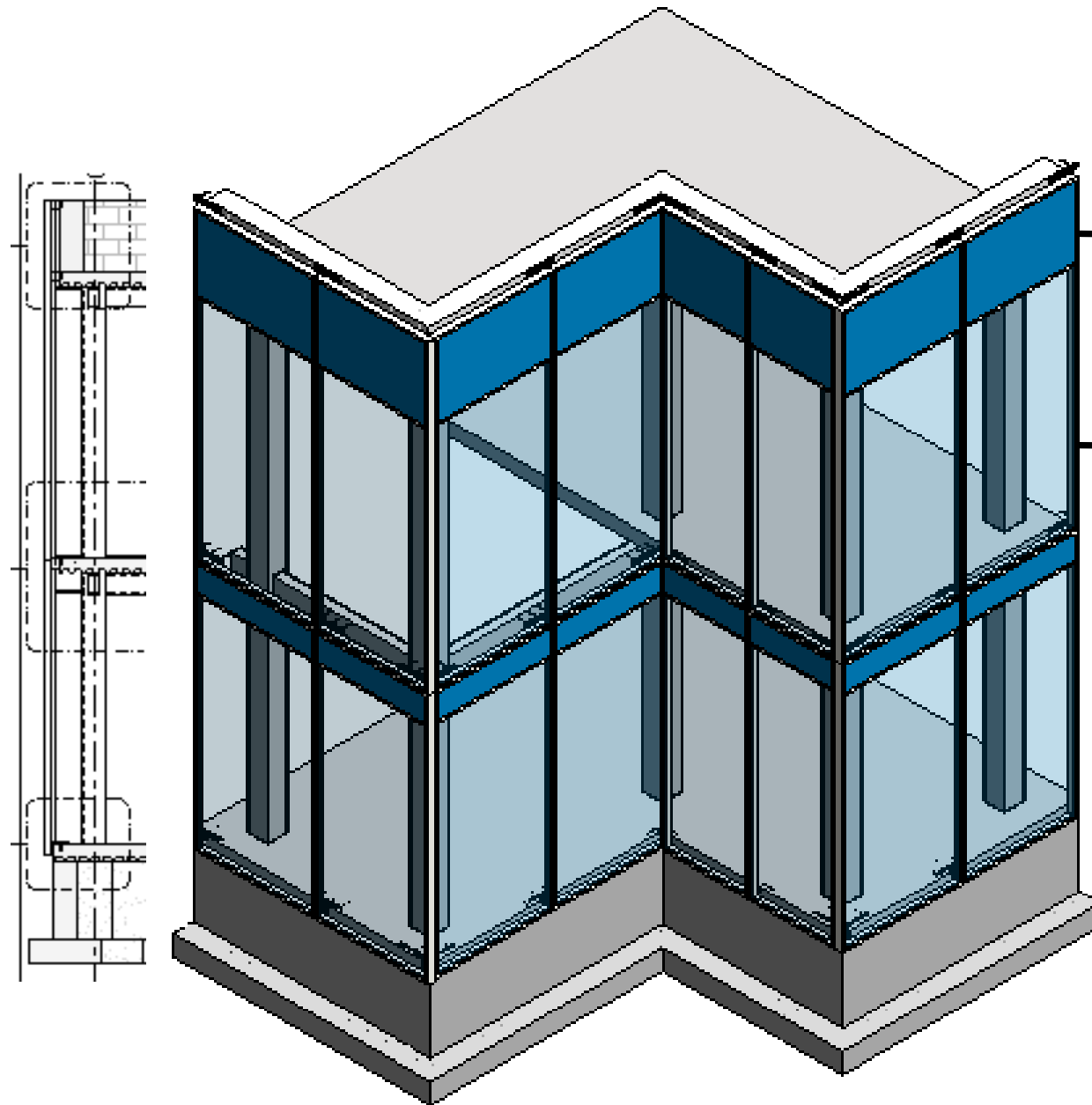
The sill extends down over the panel by 2".



## Window Head Detail

The opening between the head of the window is protected with perforated profile, that overhangs the rail by 1 in to form a drip.

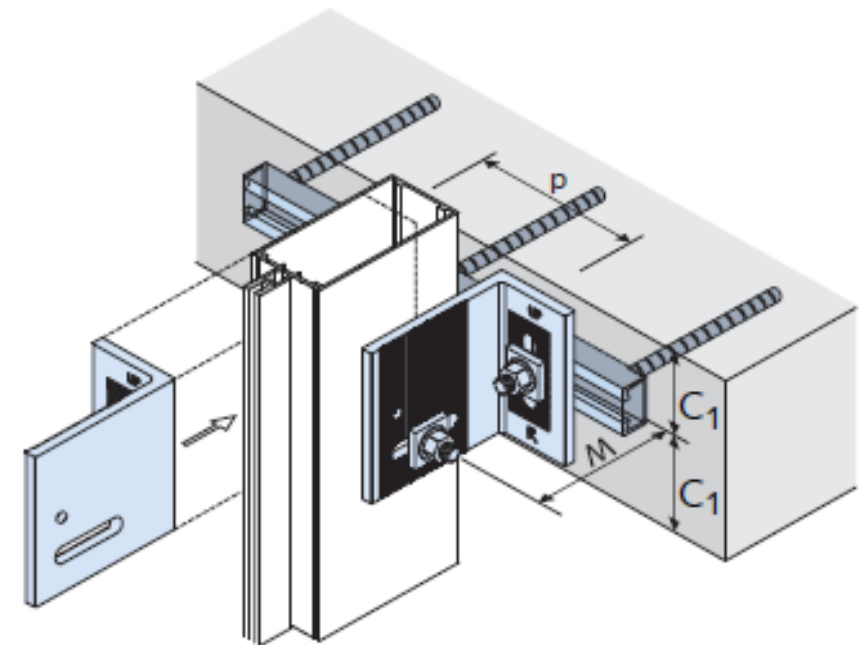
Unitized curtain wall system and  
HALFEN HCW Curtain Wall Support  
System



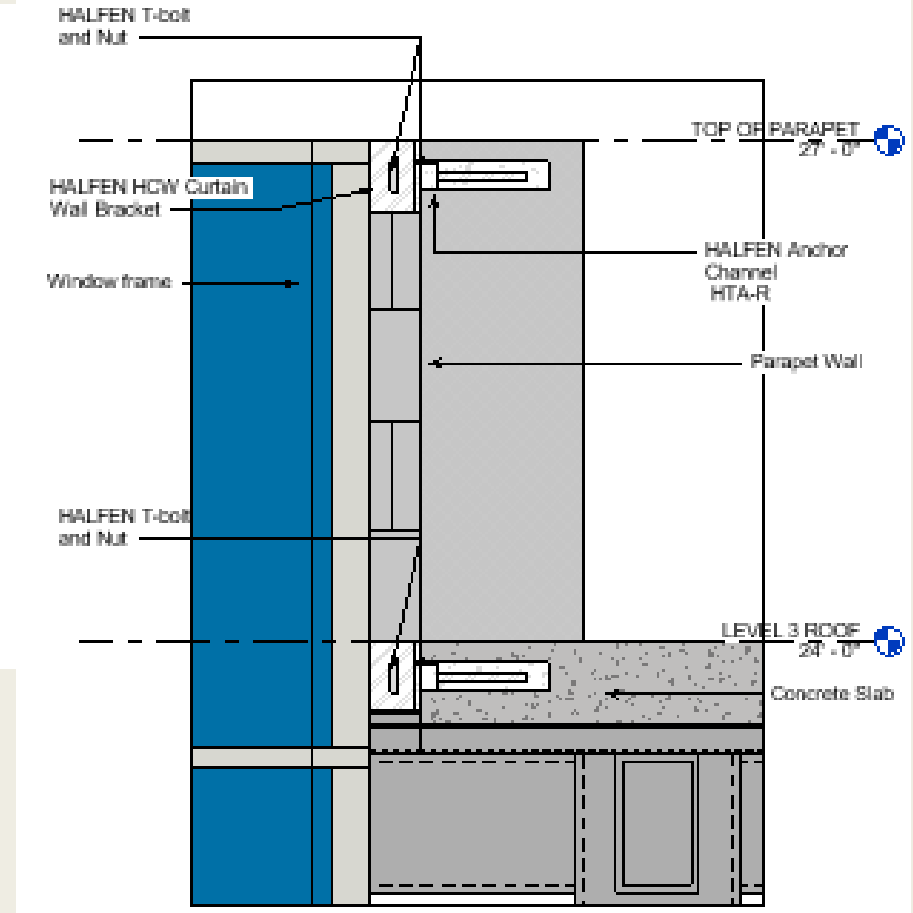
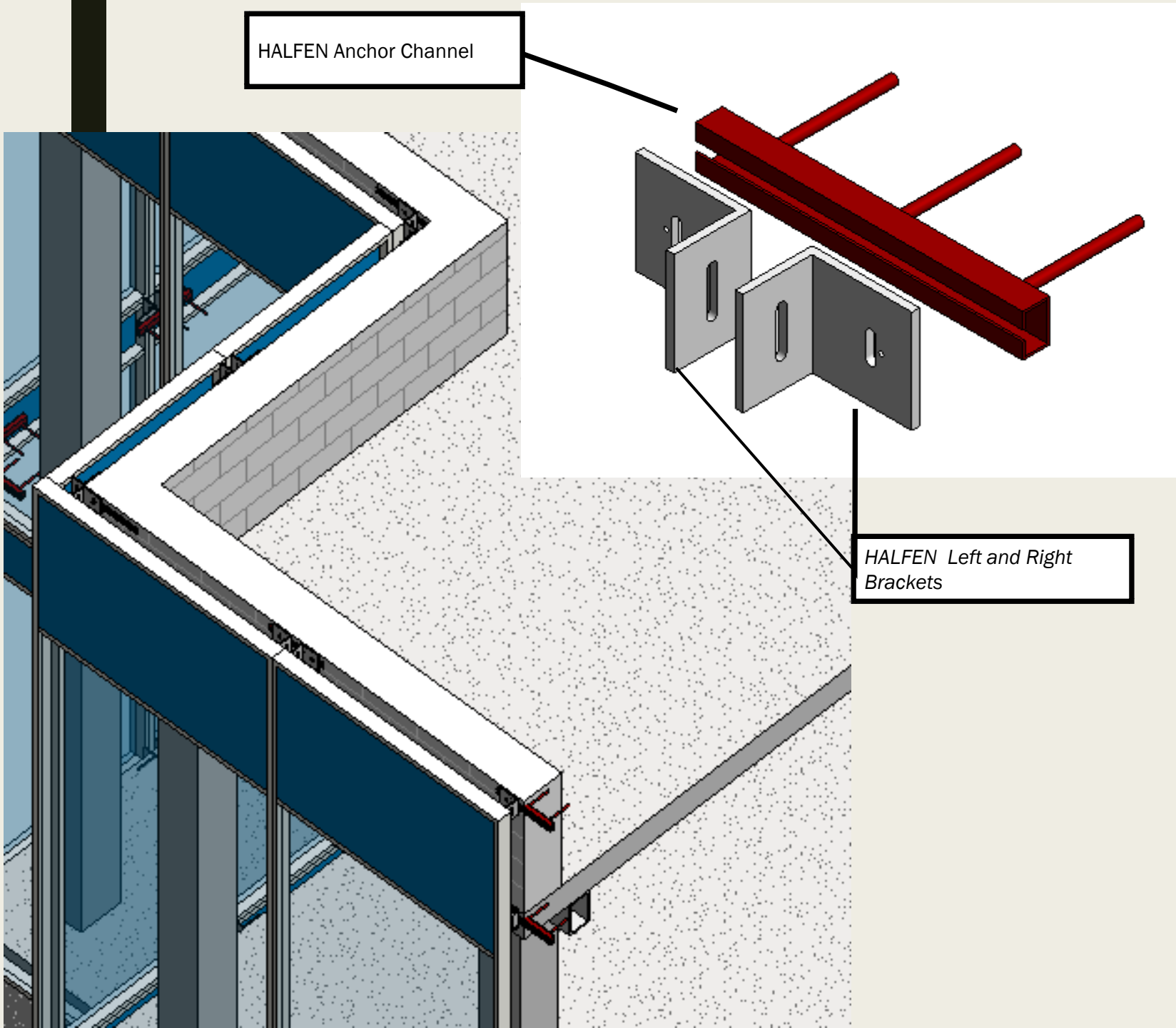
Spandrel Glass

Curtain wall unit Mullion

HALFEN HCW Curtain Wall Support System

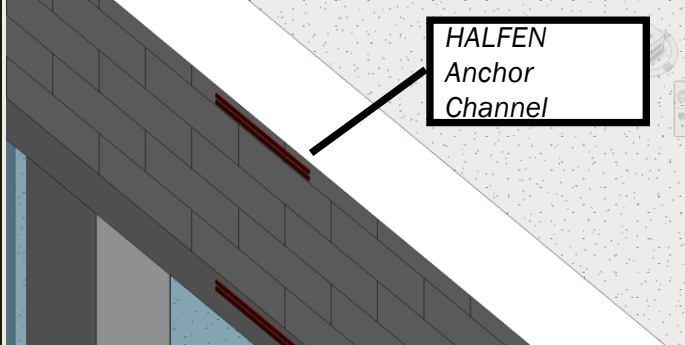




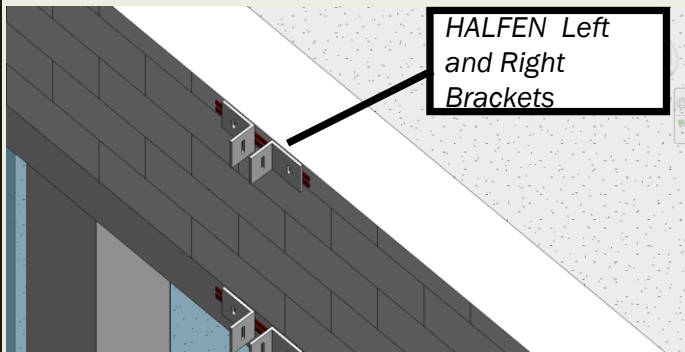


## Parapet Detail

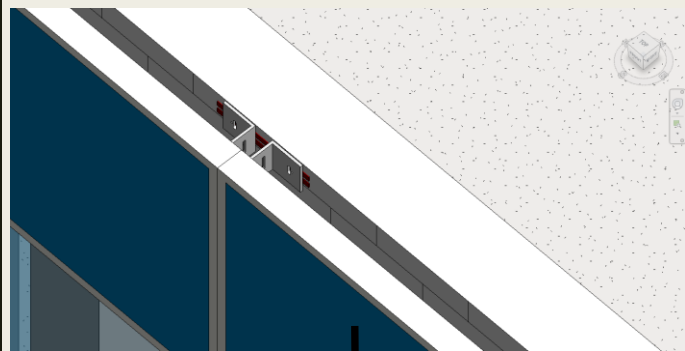
The HALFEN Anchor Channel is casted into the concrete slab. HALFEN T-bolts and special HALFEN Brackets are used to connect curtain wall facade elements to the channels.



HALFEN  
Anchor  
Channel

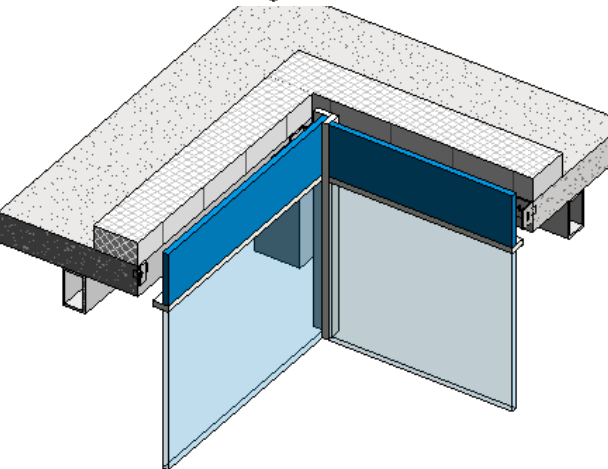
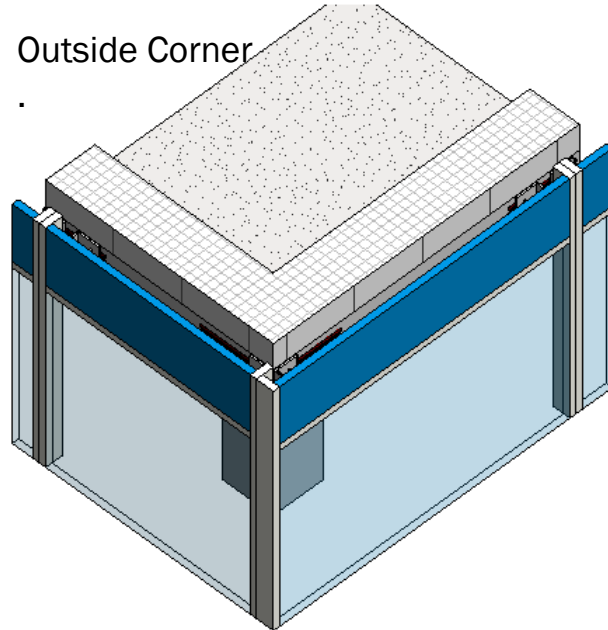


HALFEN Left  
and Right  
Brackets



Curtain wall unit

Outside Corner



Inside Corner

