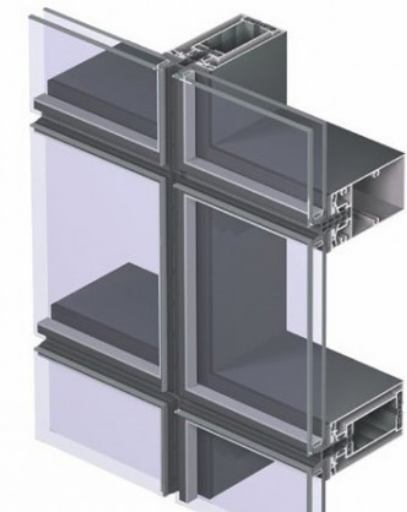


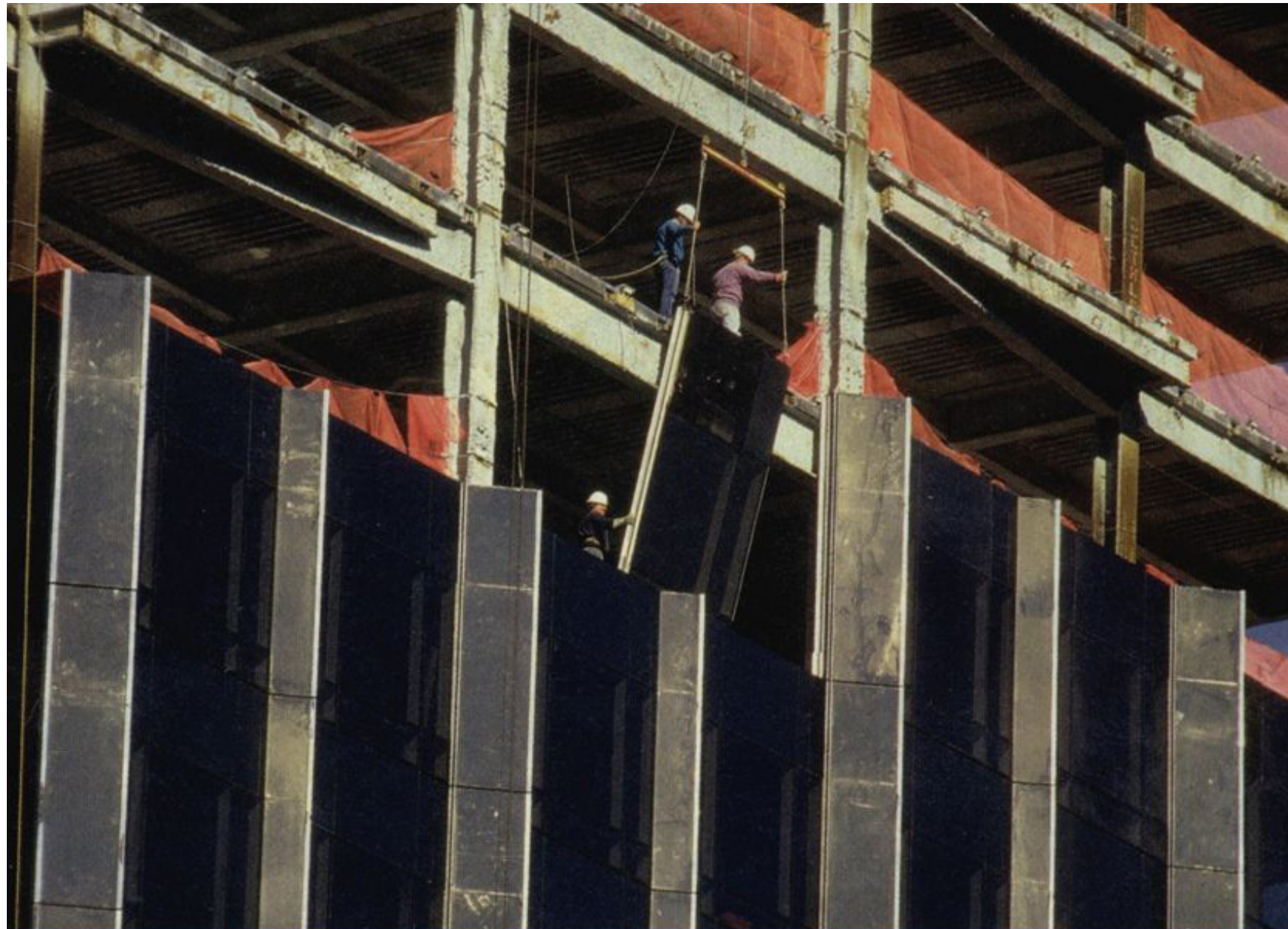
# SPANDREL PANEL RIBBON GLAZING



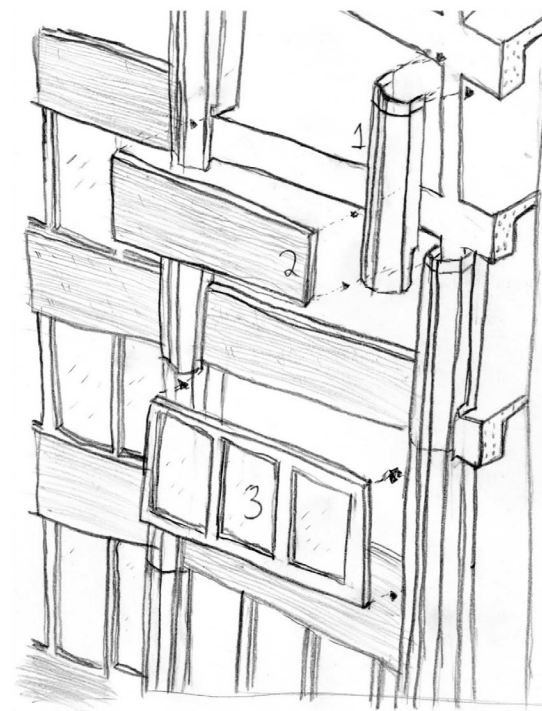
## Spandrel Panel Ribbon Glazing

- The incorporation of glazed elements into the building exterior is coupled with relieving the façade from its load-bearing function and introducing the frame elements which transfer the load to the building foundation.
- The glazing acts as a skin boundary, separating the inside and outside environments.

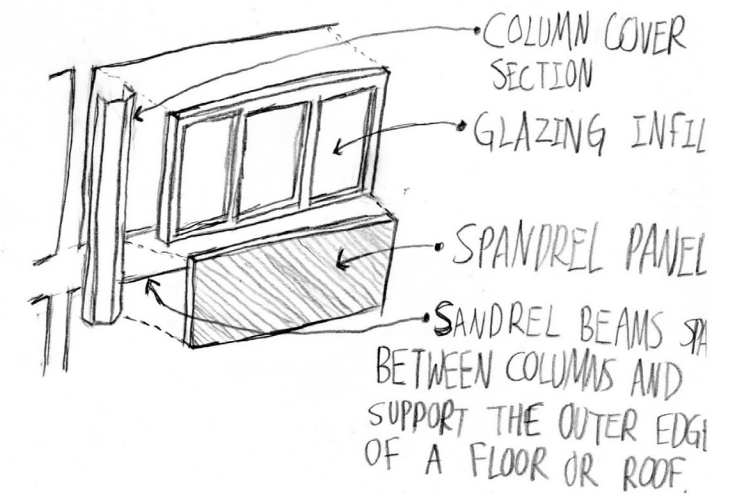




## Column Cover & Spandrel



1. COLUMN COVER
2. SPANDREL PANEL
3. GLAZING INFILL



FUNDAMENTALS OF BUILDING CONSTRUCTION  
PG 857

CHING BOOK 8.31

LAMINATED GLASS :  
VLE 24-57; 25% PATTERNED FRIT

STAINLESS STEEL NIB PROFILE

CAST STAINLESS STEEL  
BOLTED CONNECTION

TRIPLE LAMINATED GLASS  
LOW-IRON; 50% TRANSLUCENT FRIT

LED MEDIA LIGHTING IN  
AN ALUMINUM PROFILE

STAINLESS STEEL SPLICE PLATE

PRIMARY "HINGE" JOINT

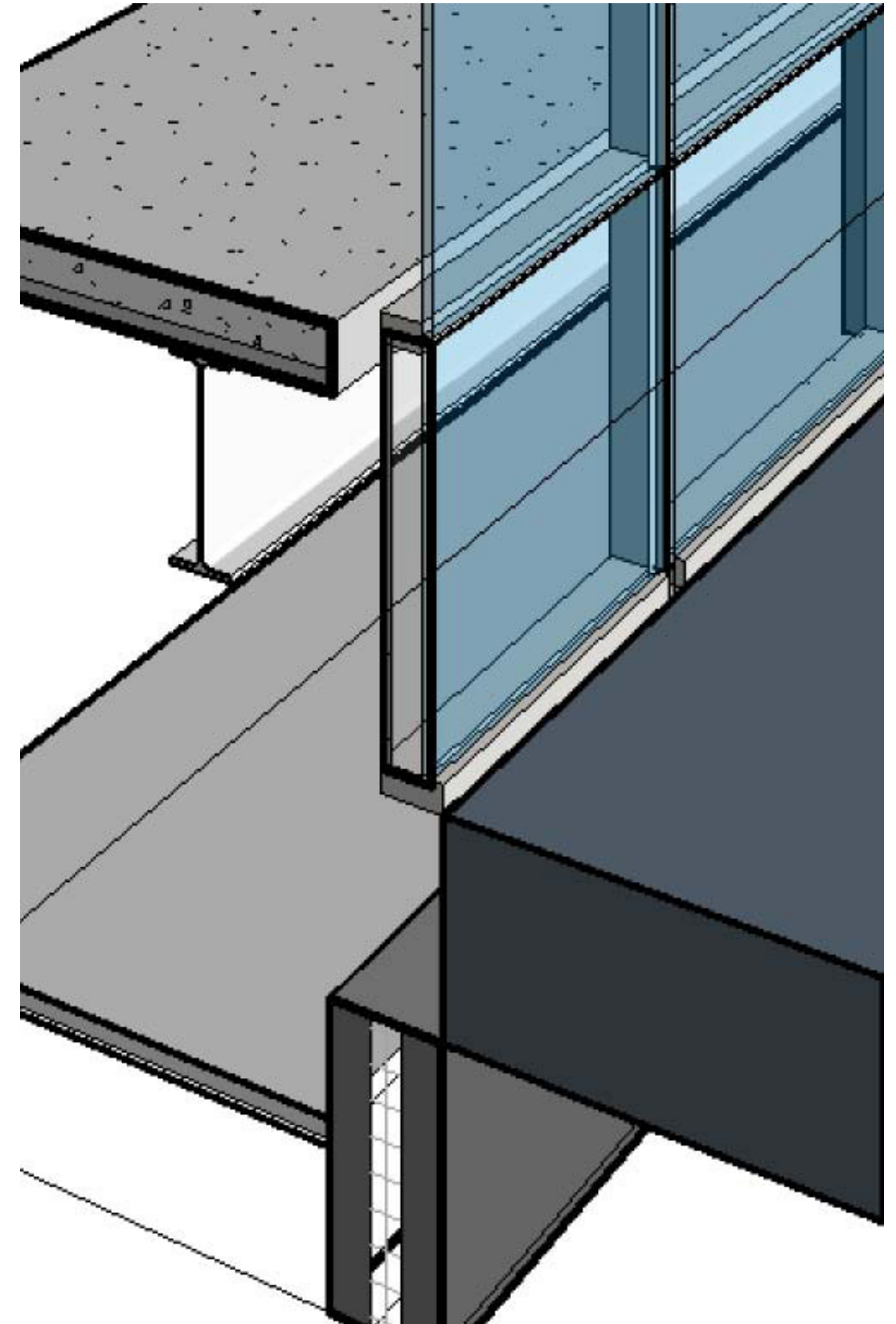
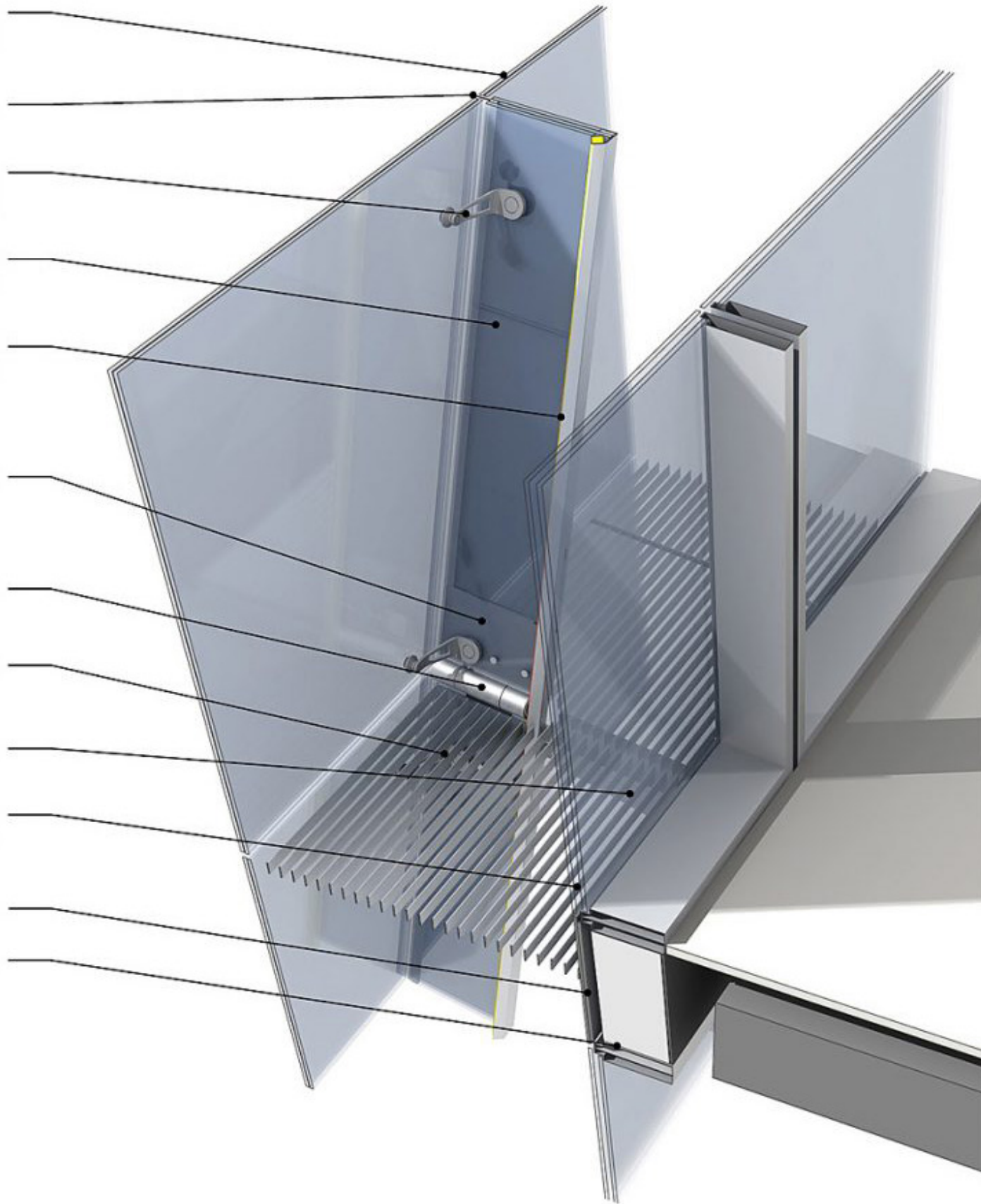
STAINLESS STEEL GRILLAGE

SS SPADE BRACKET (BEYOND)

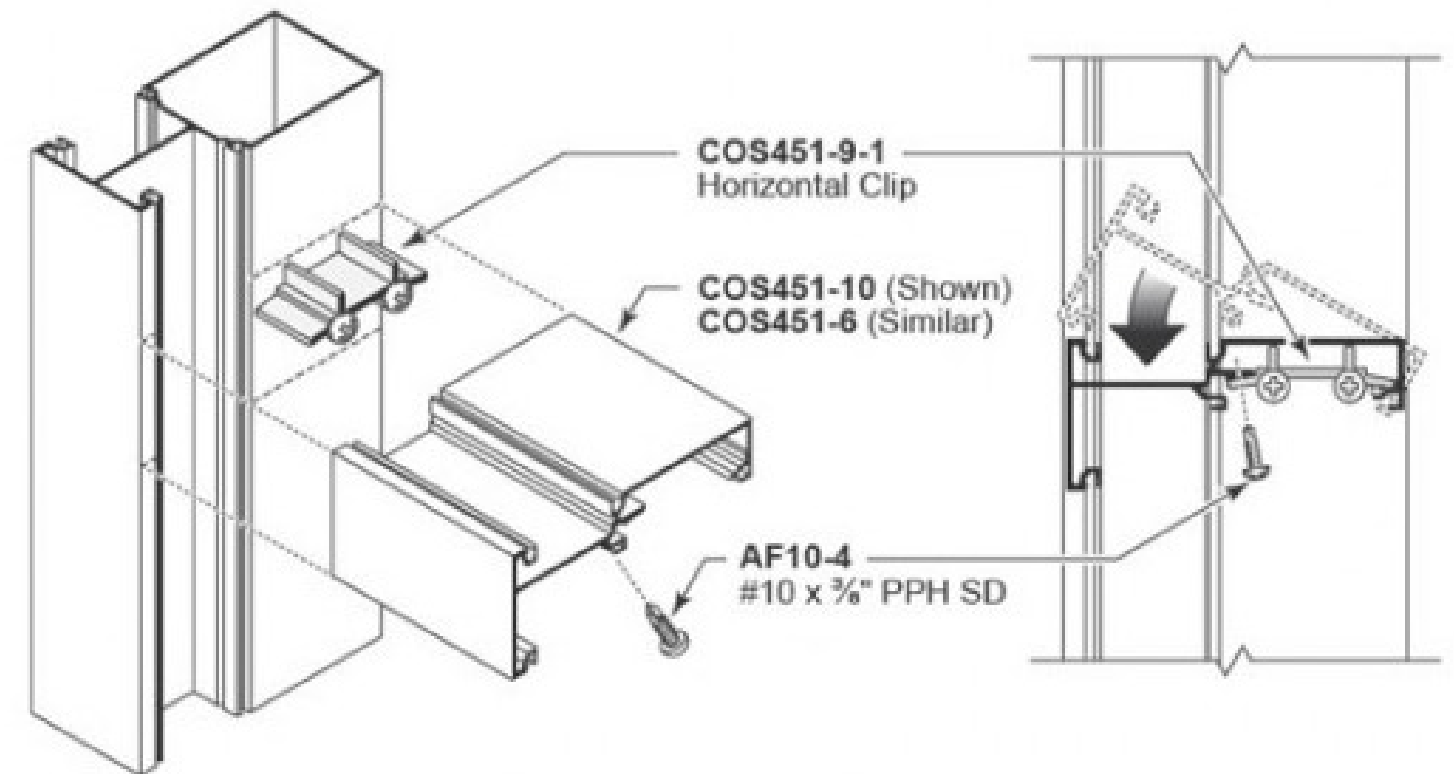
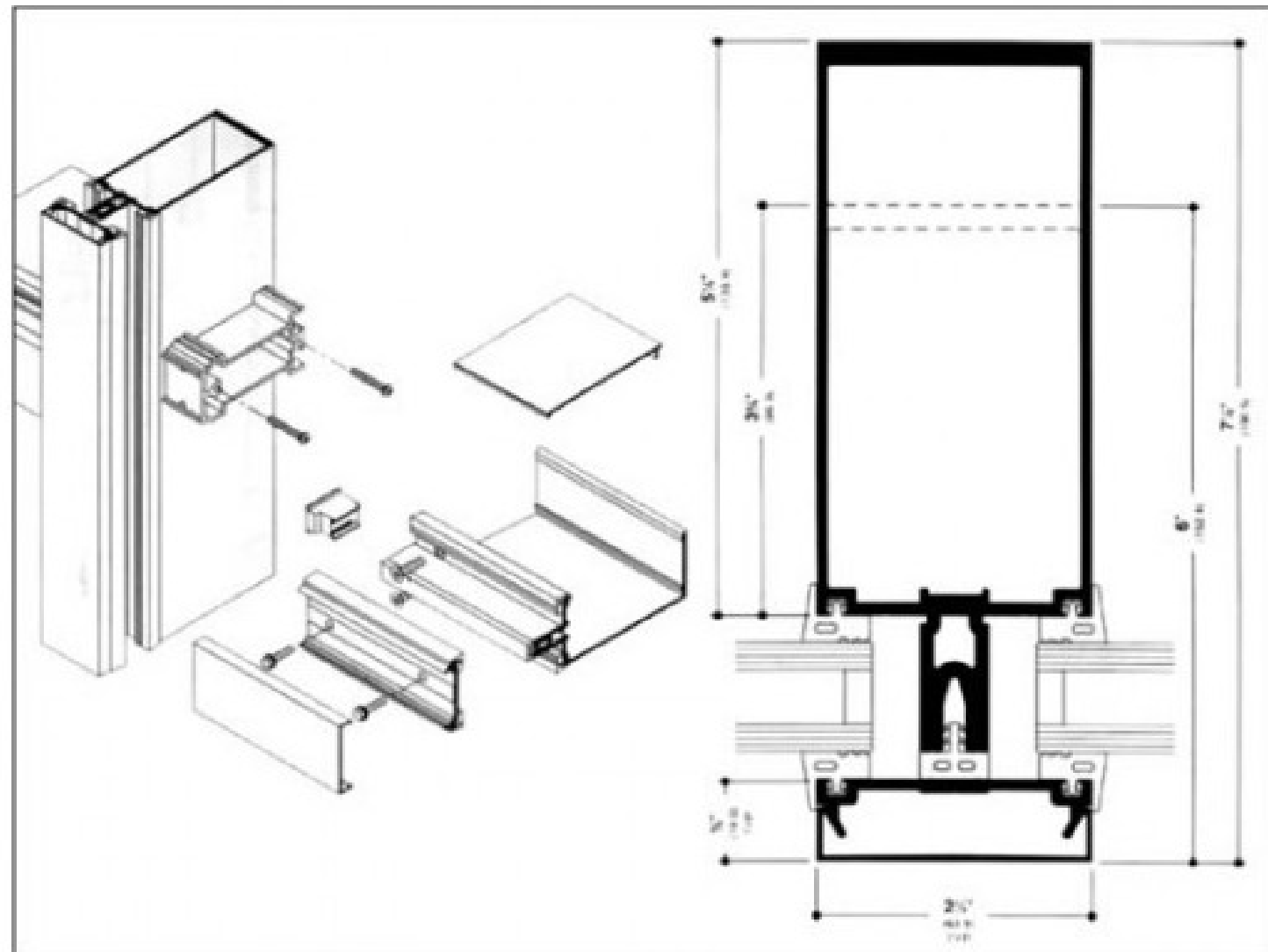
INSULATED GLAZING UNIT  
VE 24-85

ALUMINUM SPANDREL PANEL

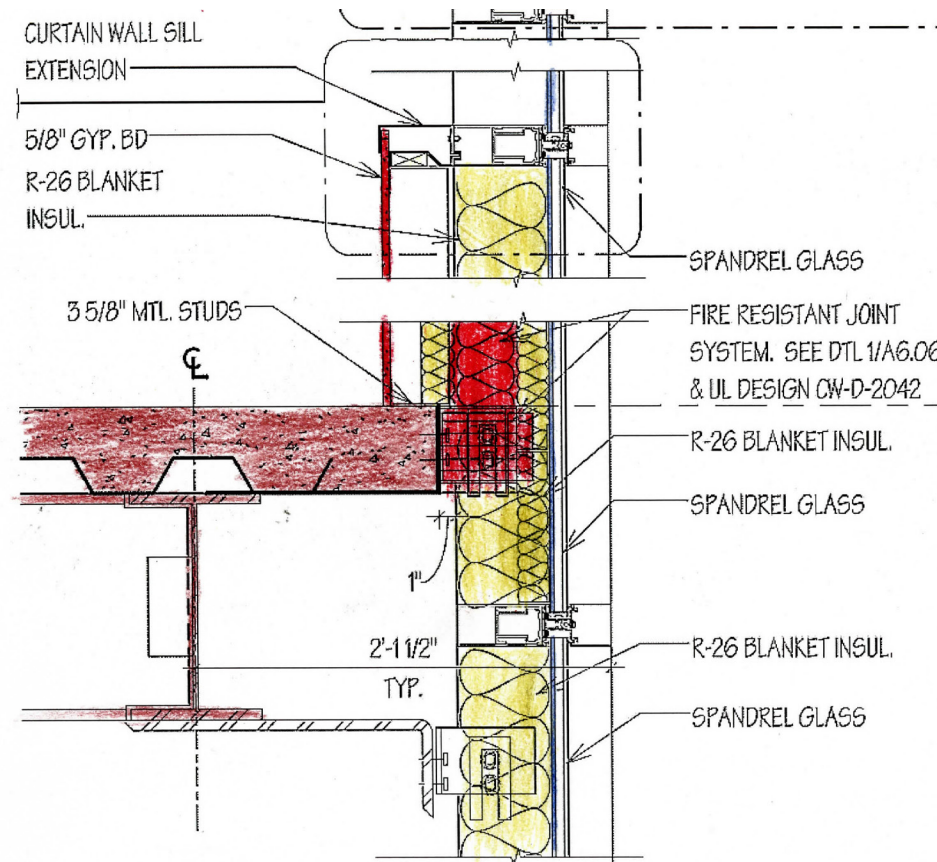
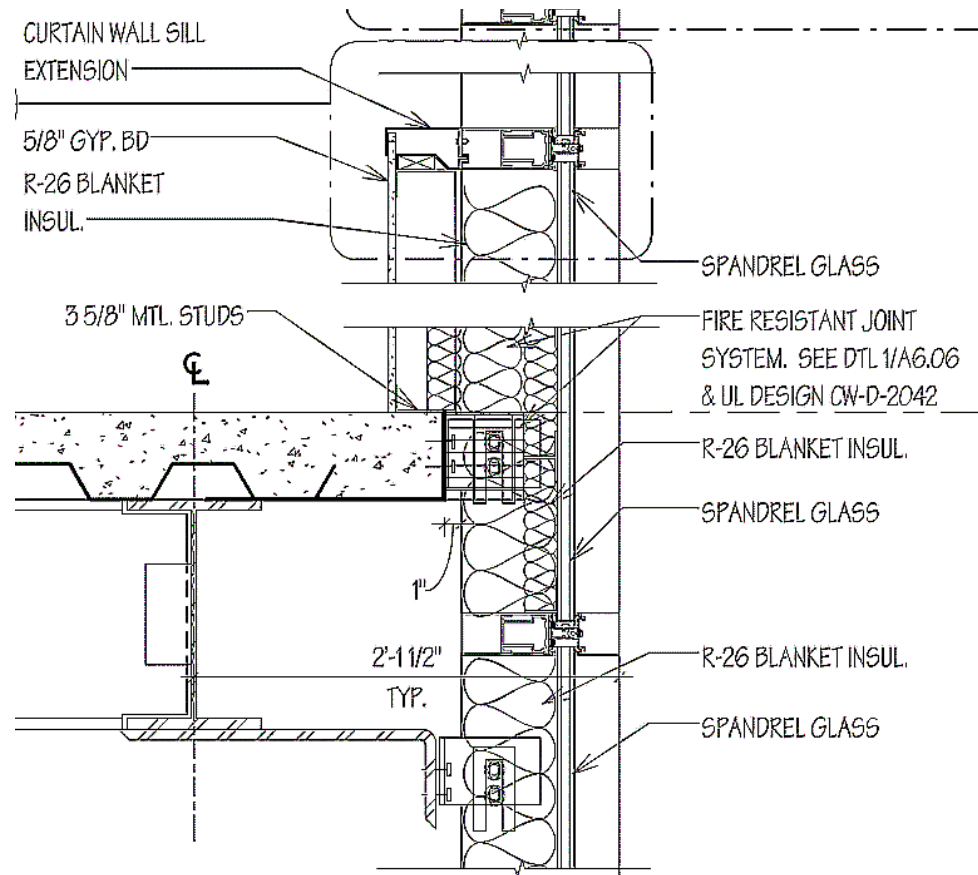
ALUMINUM CURTAIN WALL



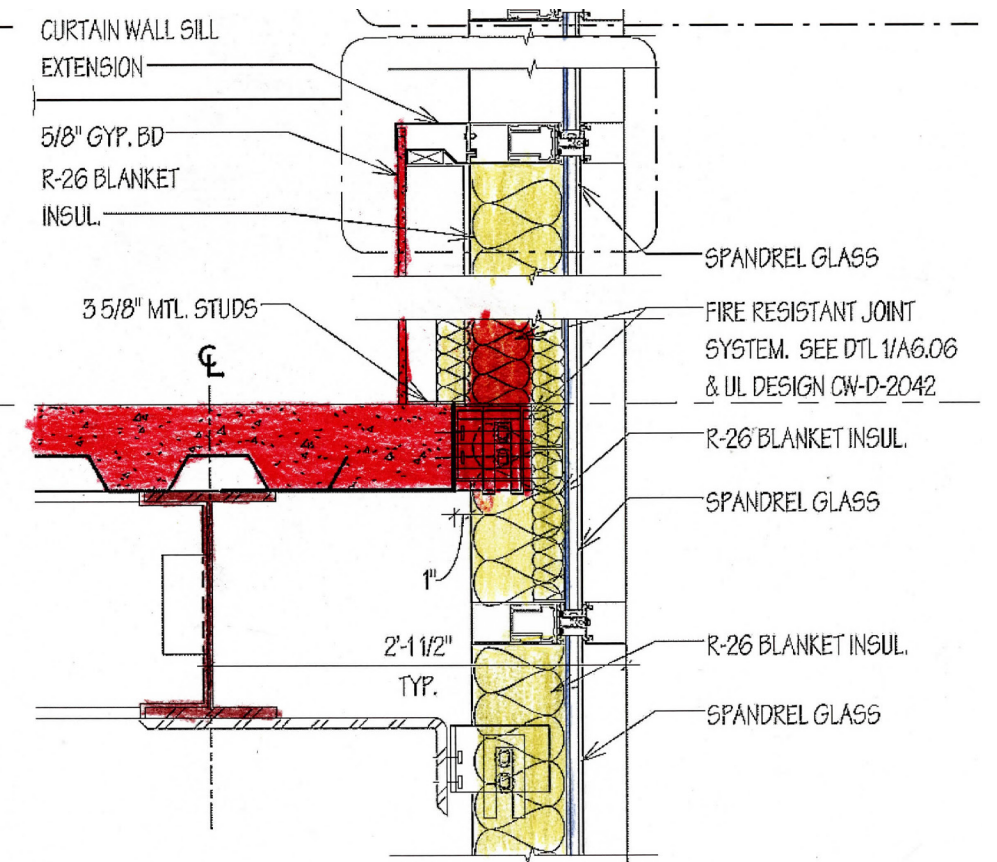
# Spandrel Panel Assembly



## SPANDREL PANEL SECTION DETAILS AND COLOR CODE



- FIREPROOFING
- THERMAL
- STRUCTURE
- WATERPROOFING

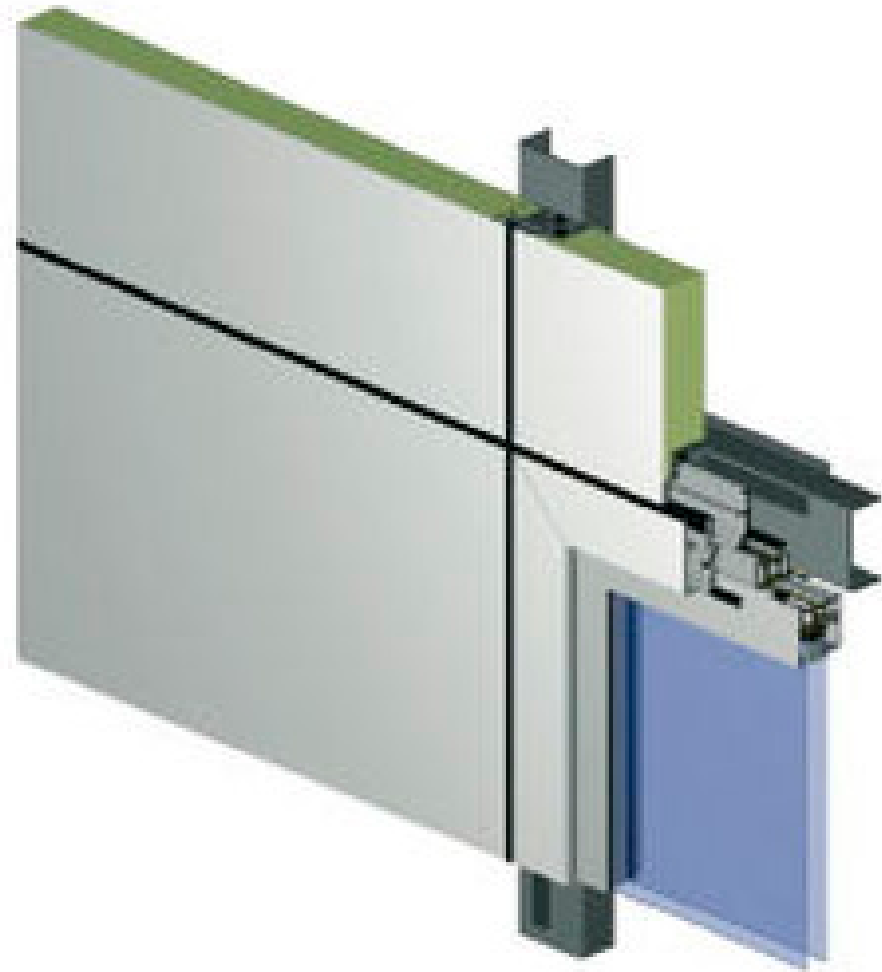


- FIREPROOFING
- THERMAL
- STRUCTURE
- WATERPROOFING

# SANDWICH PANEL



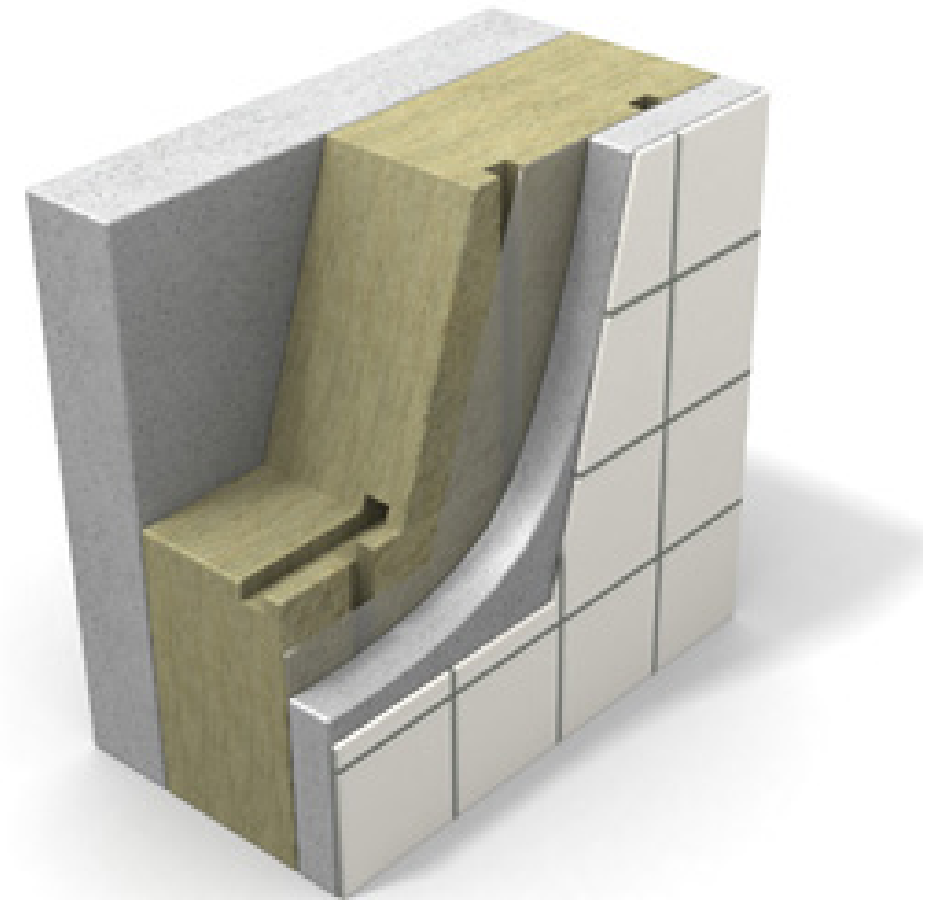
**Sandwich Panel- structure made of three layers: a low density core, and a thin skin-layer bonded to each other**



**Sandwich Panel-Steel Facing**



**Sandwich Panel-Metal Facing**



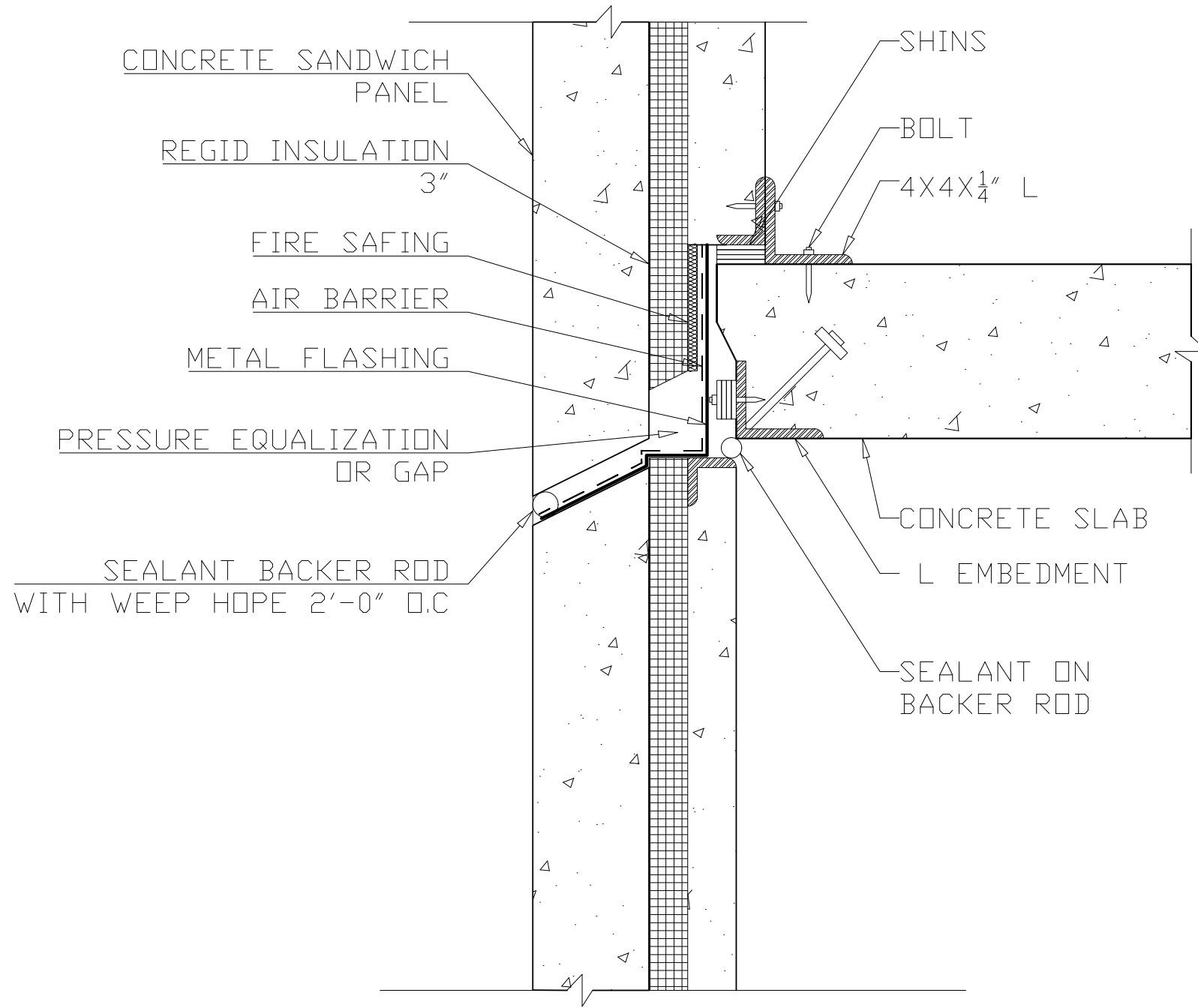
**Concrete Sandwich Panel Facing**

<http://www.archiexpo.com/prod/centria-architectural-systems/product-61722-596990.html>

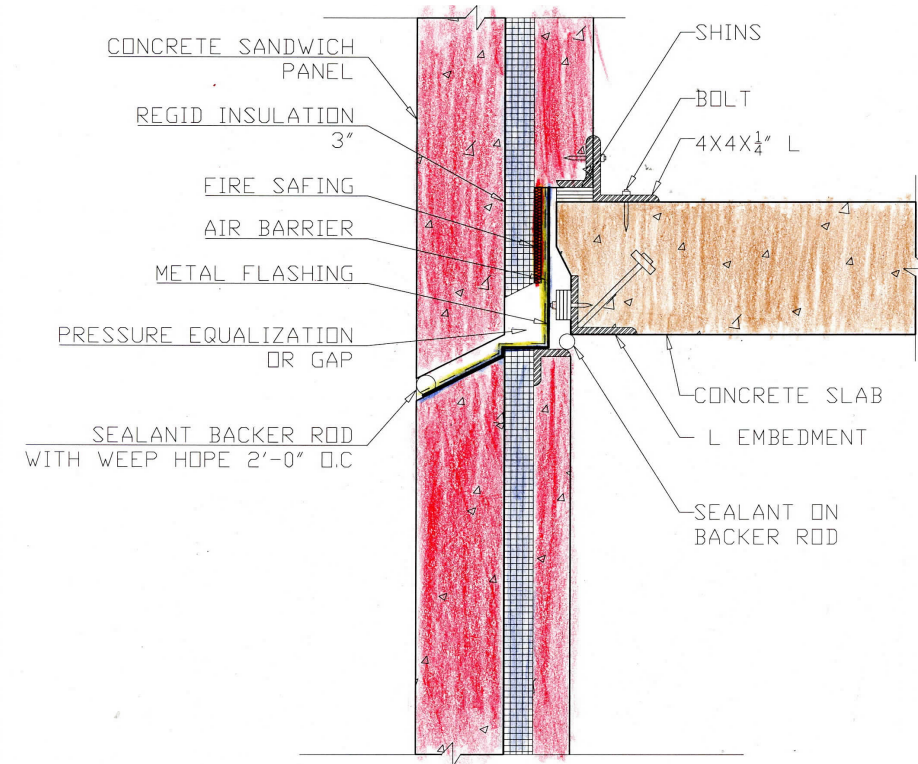
<http://www.archiexpo.com/prod/arcelormittal-construction/product-1704-128274.html>

<http://www.paroc.com/applications/building-insulation/walls/concrete-sandwich-panels>

**CONCRETE SANDWICH PANEL SECTION DRAWING AND COLOR CODE**

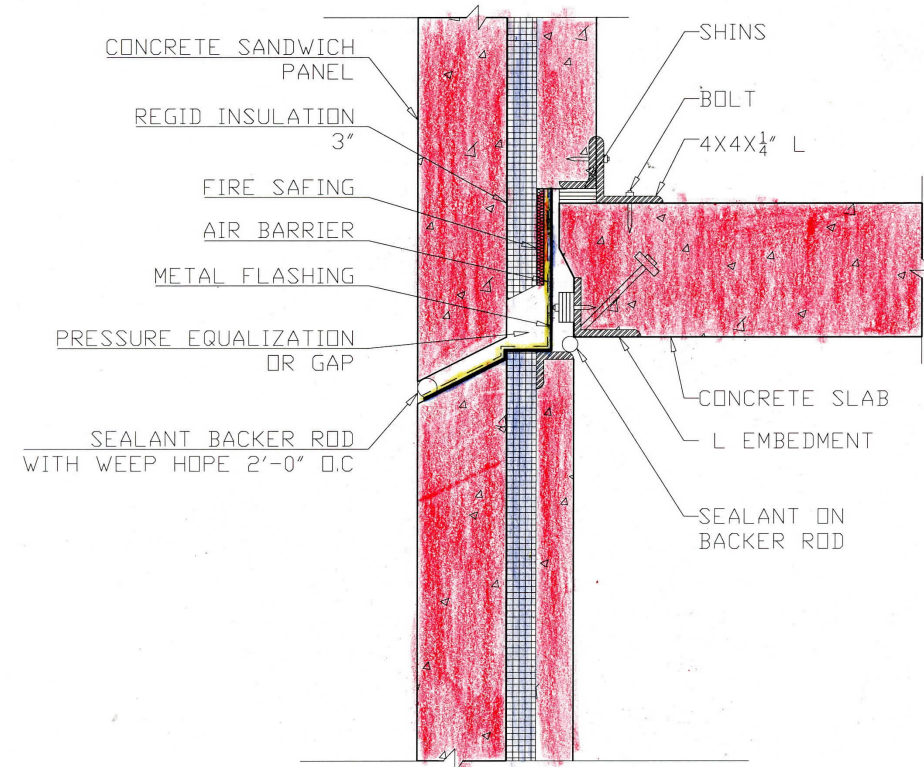


11 CONCRETE SANDWICH PANEL  
1  $\frac{1}{2}$ " = 1'-0"



- FIREPROOFING
- THERMAL
- STRUCTURE
- WATERPROOFING

11 CONCRETE SANDWICH PANEL  
1  $\frac{1}{2}$ " = 1'-0"



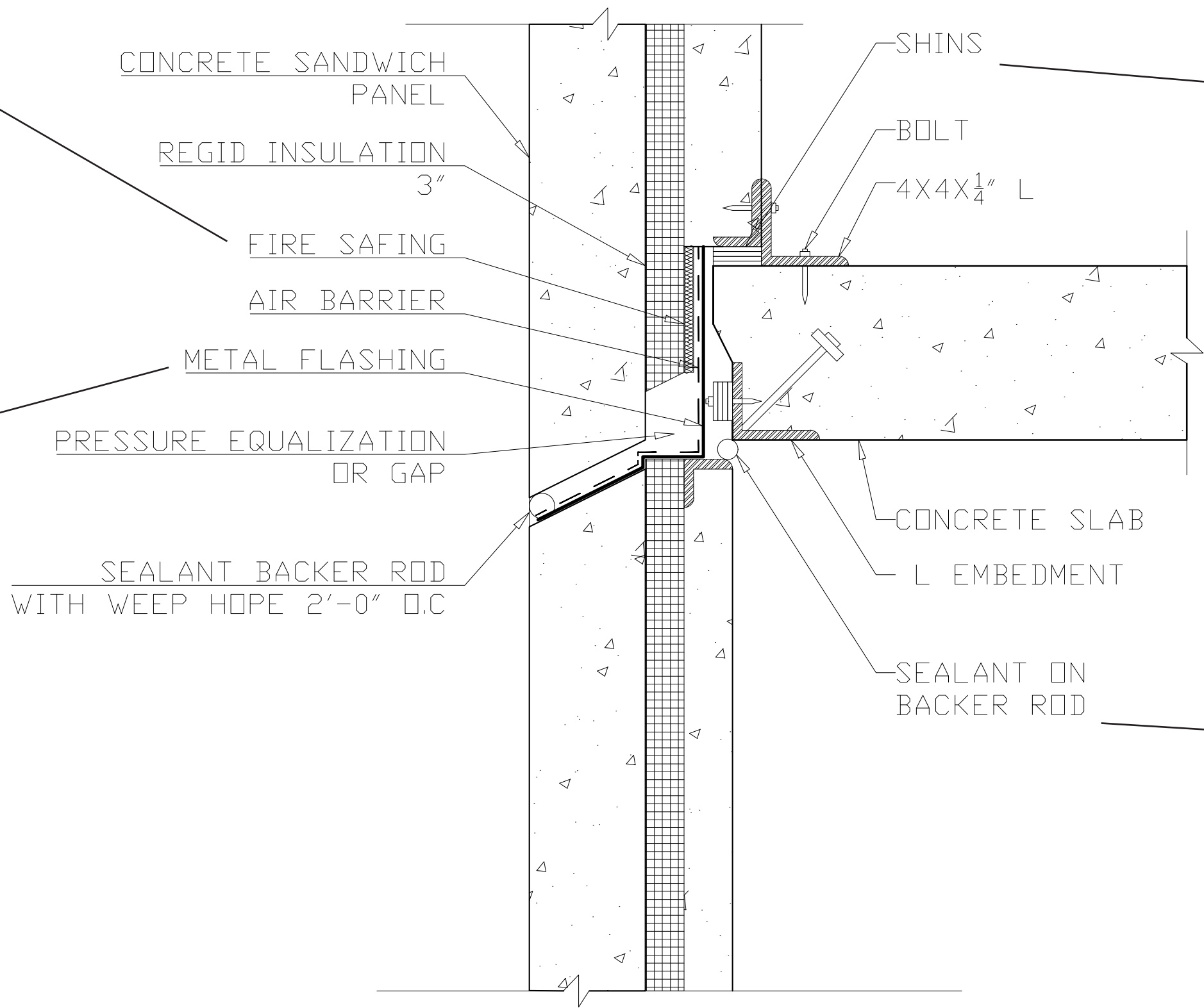
- FIREPROOFING
- THERMAL
- STRUCTURE
- WATERPROOFING

11 CONCRETE SANDWICH PANEL  
1  $\frac{1}{2}$ " = 1'-0"





FIRE SAFING



Shims



Metal Flashing



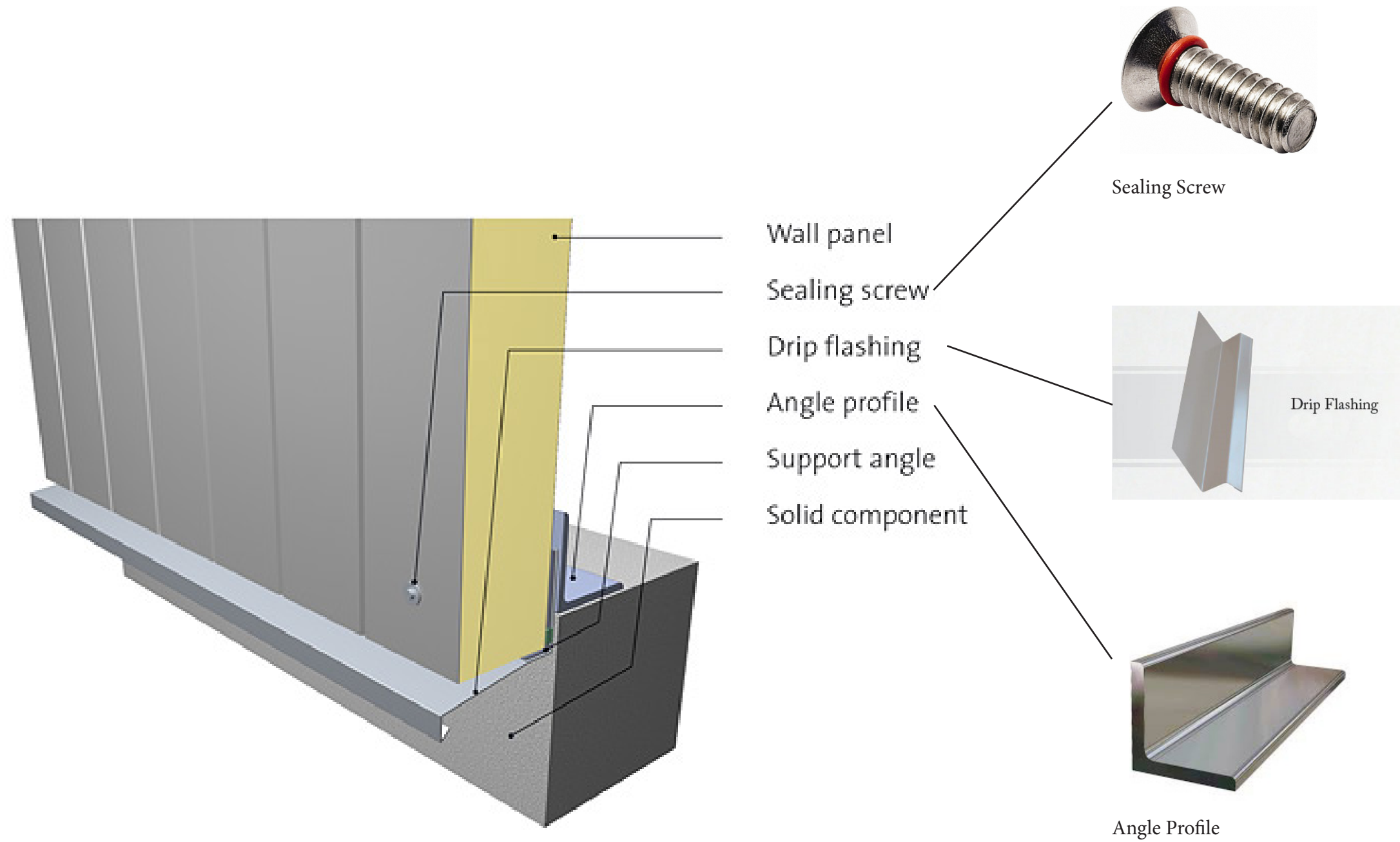
Backer Rod

11

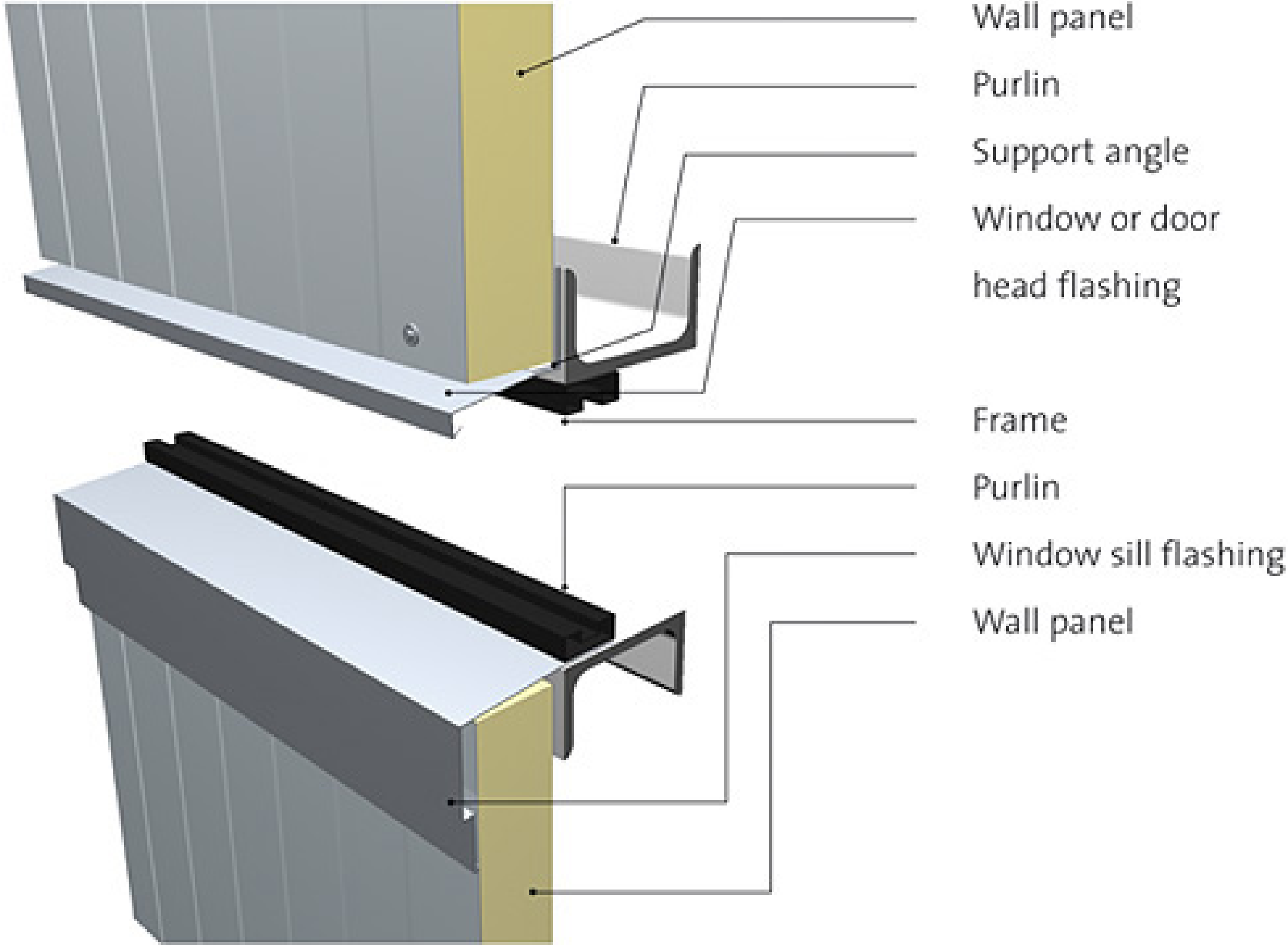
CONCRETE SANDWICH PANEL

$1 \frac{1}{2}'' = 1'-0''$

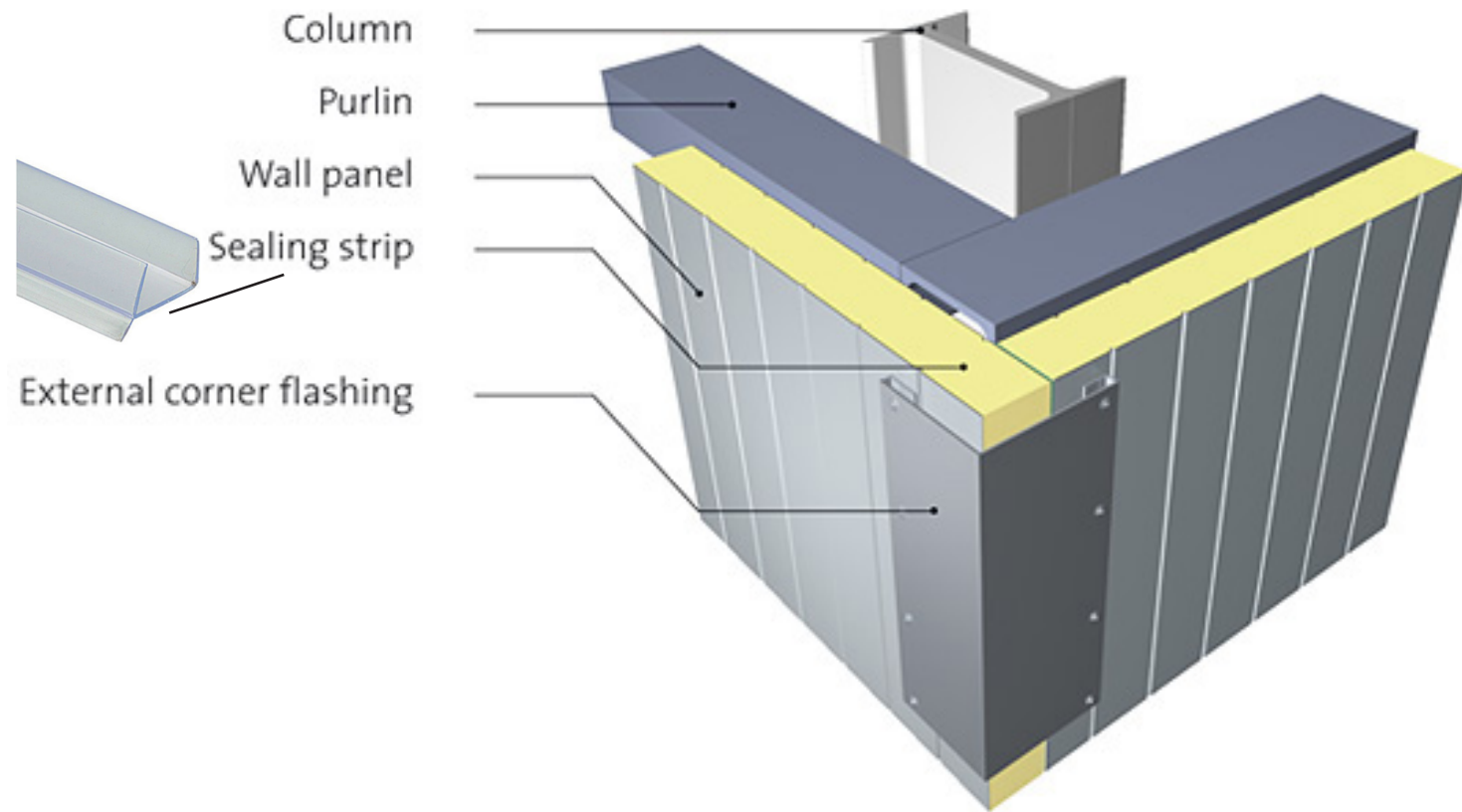
# SANDWITCH PANEL BASEMENT DETAILS



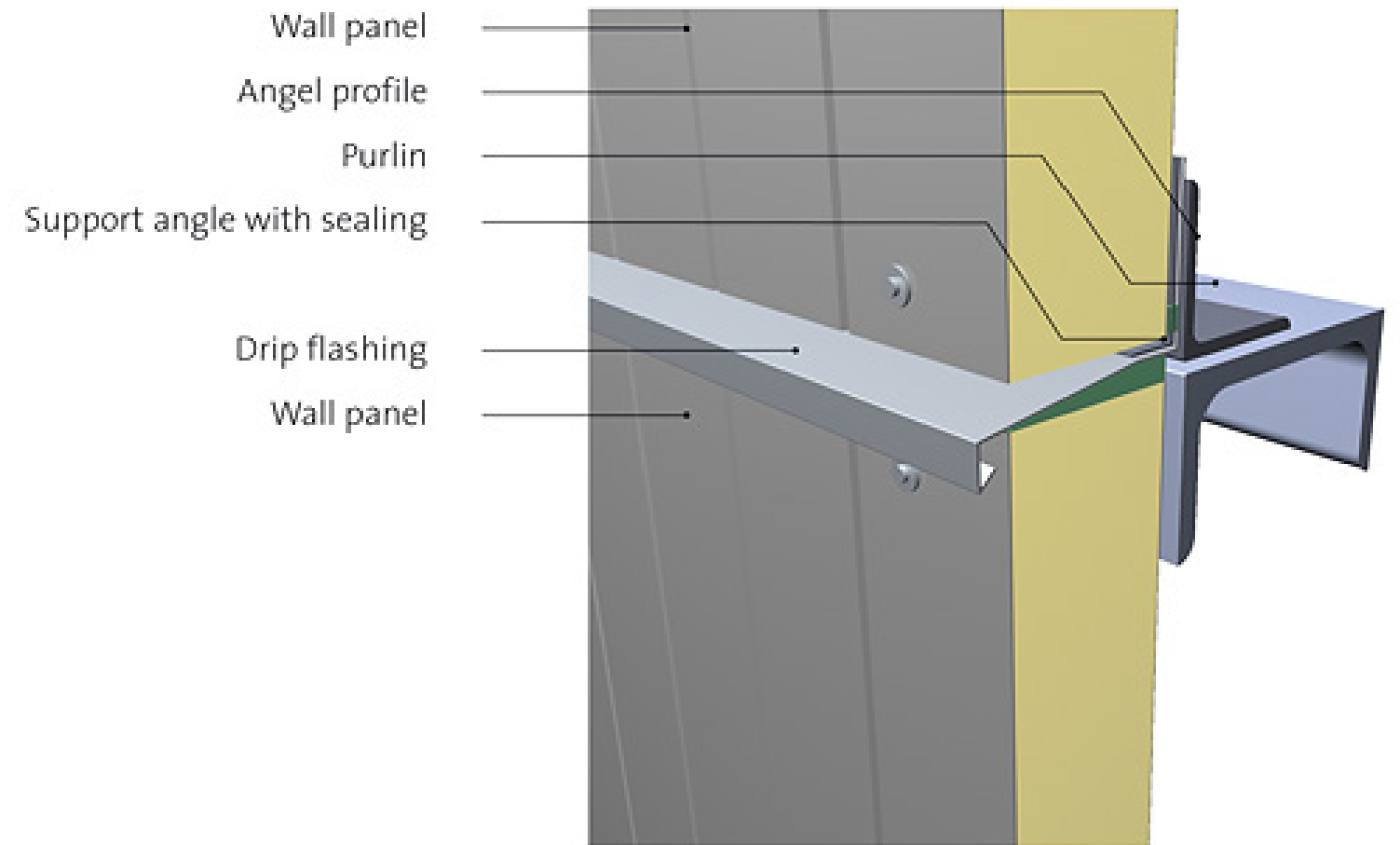
**WINDOW SILL AND HEAD DETAILS**



## EXTERNAL CORNERS OF VERTICALLY INSTALLED WALL PANELS



## LATERAL JOINT OF VERTICALLY INSTALLED WALL PANELS



# PRODUCTION OF KIAN SANDWICH PANEL

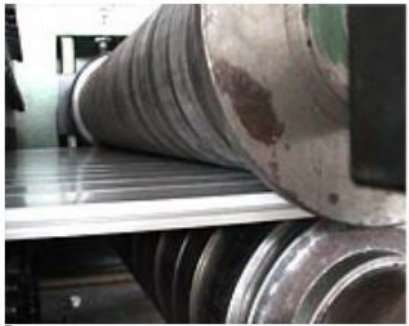
## Production

Kian sandwich panels with profiled metallic facings and a polyurethane core are produced on a continuous production line:



In the de-coiler, upper and lower steel facings are unwound and then fed into the profiling unit where they are profiled according to the planned geometric design.

1



Then according to the desired thickness of the sandwich panels, the two facings are brought together at the desired distance and are heated to the temperature necessary for foaming.

2



In the foaming station, the liquid reactive mixture is released continuously into the gap between the upper and lower facings. The reactive mixture foams up and fills the space between the two facings.

3



The calibration unit then takes over the pressure of the rising foam and maintains the programmed panel thickness until the foam hardens.

4



After the foam has hardened, the sandwich panels are cut to the desired length.

5