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.

https://openlab.citytech.cuny.edu/skyecolon-btechiii-research/files/2017/04/Slide2.jpg
Column Cover & Spandrel
Spandrel Panel Assembly
SPANDRAL PANEL SECTION DETAILS AND COLOR CODE

http://homeidea.me/glass-curtain-wall-section-detail/
Sandwich Panel - structure made of three layers: a low density core, and a thin skin-lyer bonded to each other.
Sandwich Panel-Steel Facing

Sandwich Panel-Metal Facing

Concrete Sandwich Panel Facing

1. Sandwich panel fabricated on-site.

2. Concrete panel serves as a faced seal wall.

3. Out of bit serves as the water shedding surface in the rainscreen strategy.

4. The water air barrier serves as the drainage plane on a rainscreen strategy.
Concrete sandwich panel

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DATE: 2017-09-11
PROJECT NO.: 2017_01
DRAWING BY: CRISTIAN RINCON
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TEAM:
1. 2. 3. 4. 5.

GENERAL NOTES
0. SANDWICH PANEL FABRICATED ON SITE.
1. CONCRETE PANEL SERVES AS A FACED SEAL WALL
2. OUT OF BIT SERVES AS THE WATER SHEDDING SURFACE IN THE RAINSCREEN STRATEGY
3. THE WATER AIR BARRIER SERVES AS THE DRAINAGE PLANE ON A RAINSCREEN STRATEGY.

MATERIALS
- Fire Safing
- Metal Flashing
- Backer Rod
- Shims
- Pressure Equalization or Gap
- Sealant Backer Rod with Weep Hole 2'-0" O.C.
- Concrete Slab Embedment
- Sealant on Backer Rod

SCALING
1 1/2" = 1'-0"
SANDWITCH PANEL BASEMENT DETAILS

- Wall panel
- Sealing screw
- Drip flashing
- Angle profile
- Support angle
- Solid component

Sealing Screw
Drip Flashing
Angle Profile

http://kianpanel.com/kian_service.html
Production of Kian Sandwich Panel

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

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

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.

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.

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

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

http://kianpanel.com/kian_company.html