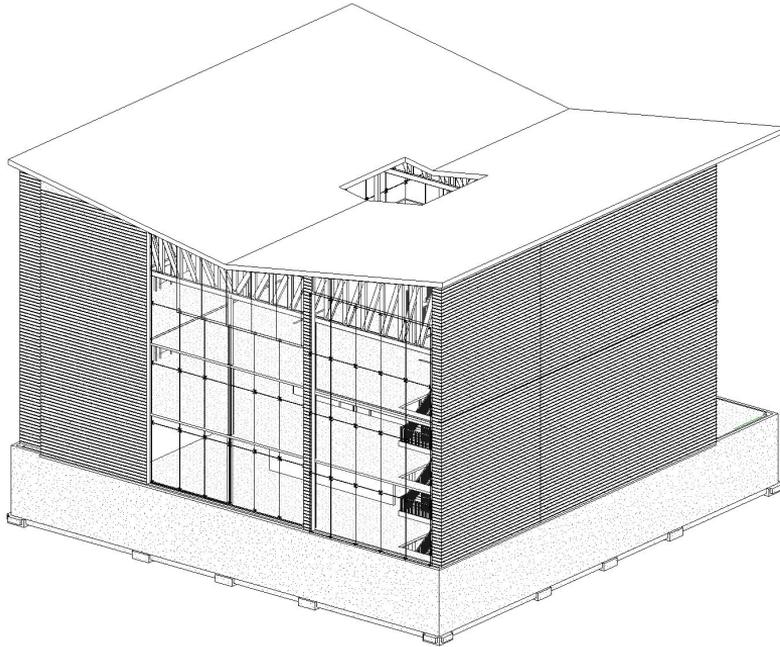


TOTAL FITNESS GYM FACADE SELECTIONS



FACADES SELECTED

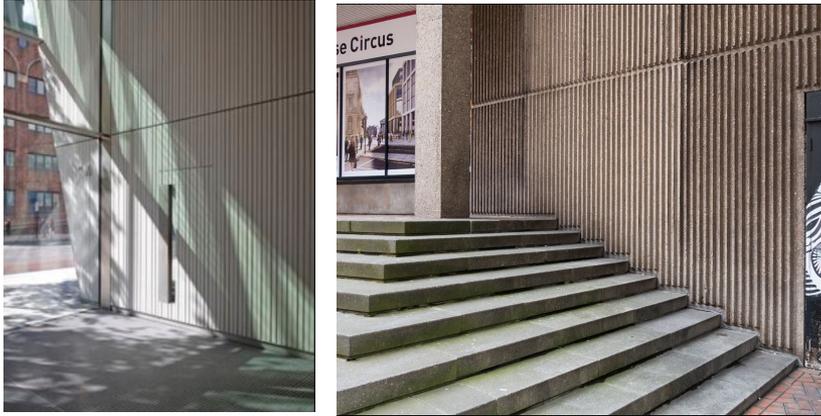
SOLID:
PRECAST CONCRETE RIBBED
PANELS

CURTAIN WALL:
STRUCTURAL GLAZING WITH
SPIDER CLAMP

STUDENT NAME: JAMAL SENNON
BTECH 03

PROFESSOR: KING

Precast Concrete Ribbed Panel



Precast concrete panels are produced by casting concrete in a reusable mold which is then cured in a controlled environment. It is then transported to the construction site and lifted into the position intended on the wall.

Benefits of Ribbed Concrete Walls

- Ribbed panels are used to reduce and reflect Sounds. This allows the interior spaces to be more quiet.
- Easily assembled because of the use of precast concrete.
- Different patterns for ribbed panels can be created using a custom made mold. Therefore it is good as an aesthetic element for a structure.
- Precast Concrete is able to withstand weather effects.
- Good fireproof attributes.

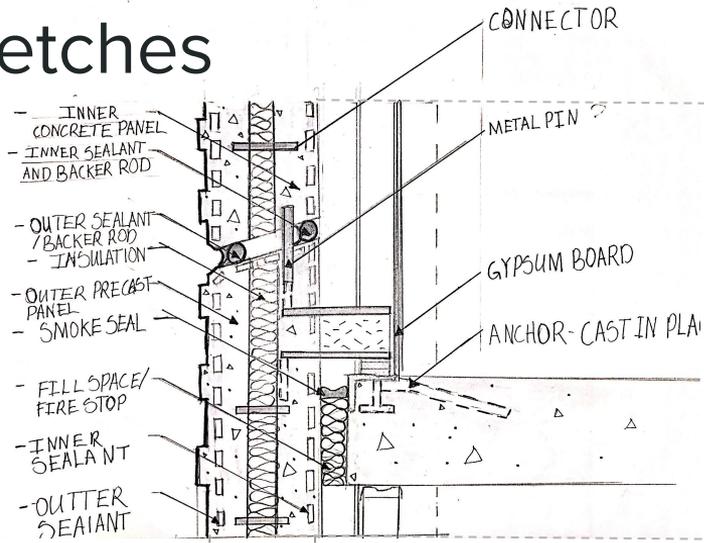


Images



The image above shows how different patterns can be created to aesthetically enhance a structure.

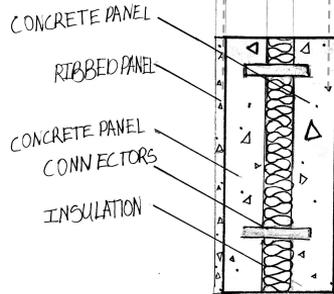
Sketches



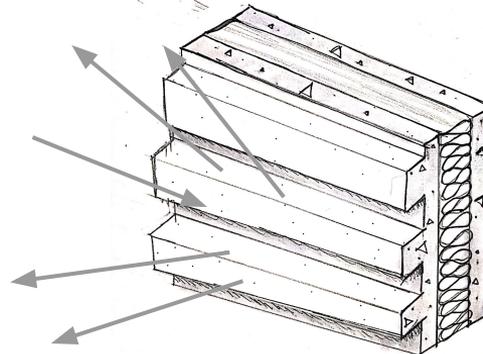
Section



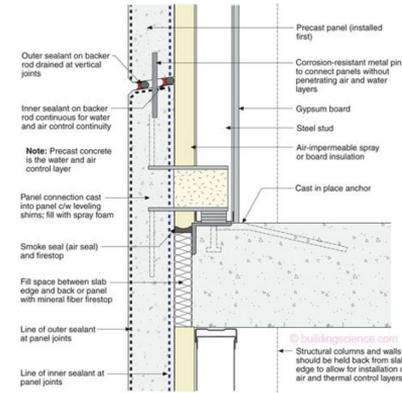
Front Elevation



Plan



Isometric



The image above was used as a reference to attempt understanding how the wall might be built.

Curtain wall facade selection -Structural Glazing with Spider Clamp



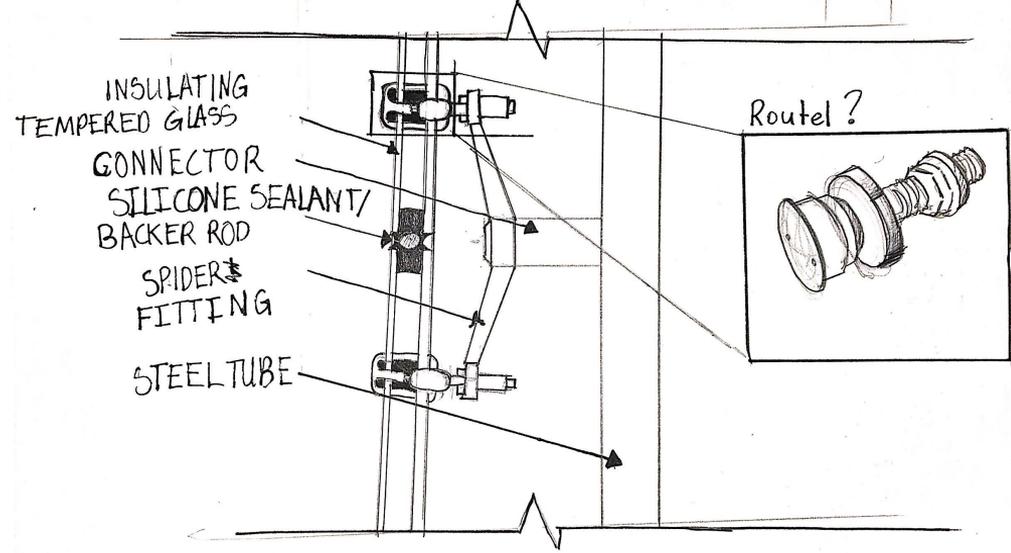
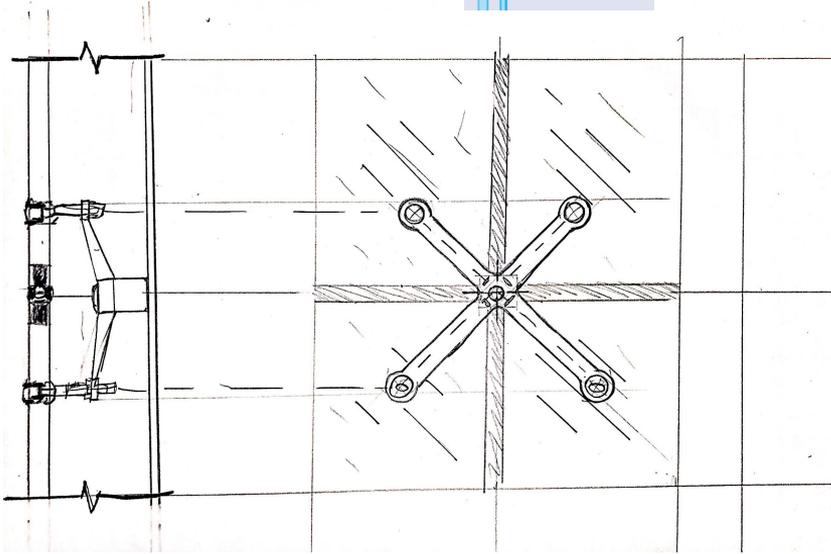
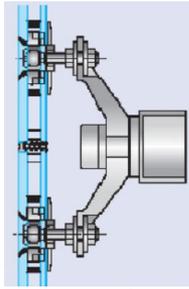
Structural Glazing is a curtain wall systems that consists of glass which is connected or anchored to a structure or the exterior of a building. This is done without the use of continuous gasketed aluminum pressure plates or caps. This is a point fixed glass system used to add a high level of transparency. This creates views for clients and people in general.

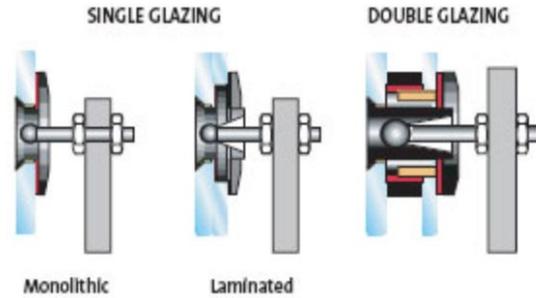
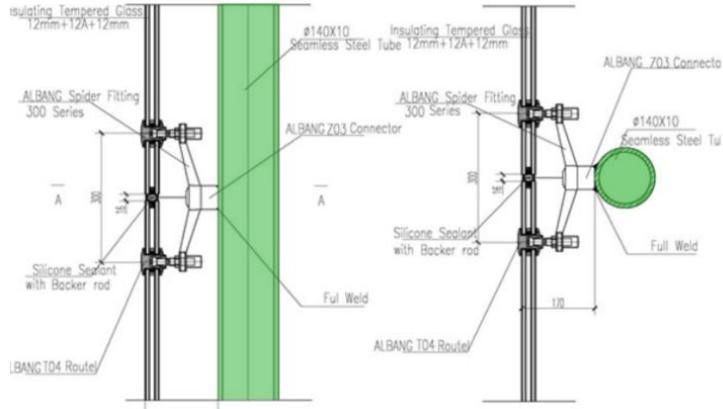
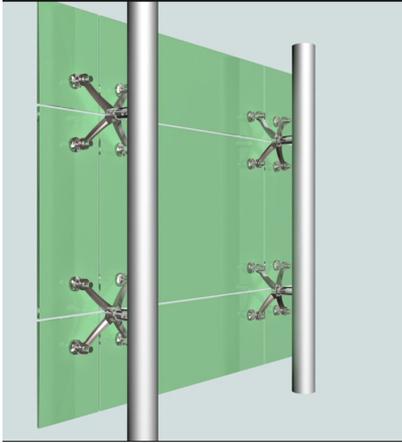
Benefits of Structural Glazing Curtain Wall

- Allows the possibility to have more open areas.
- You can have huge walls of glass without having certain elements block some spots
- Overall with the usage of spider clamps to hold the glass, there can be a higher level of transparency throughout certain parts of a structure.

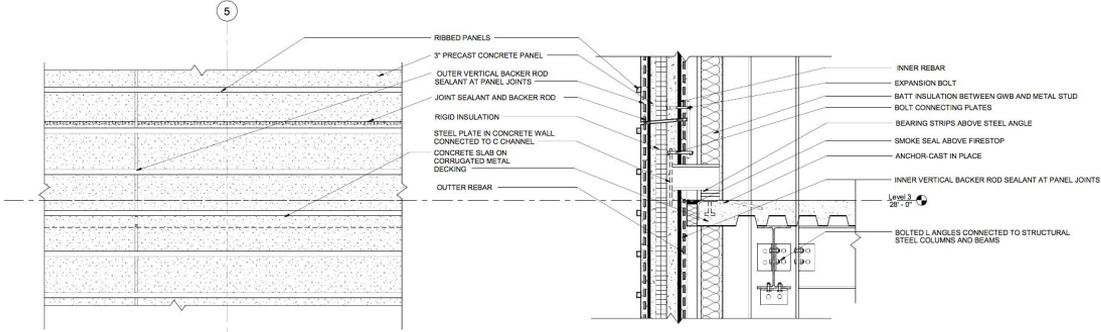


Sketches



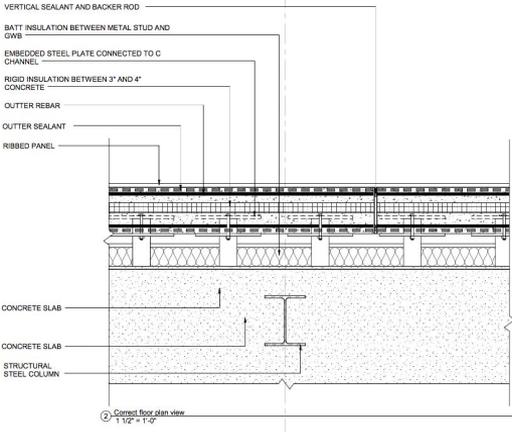


Precast Concrete Ribbed Panels

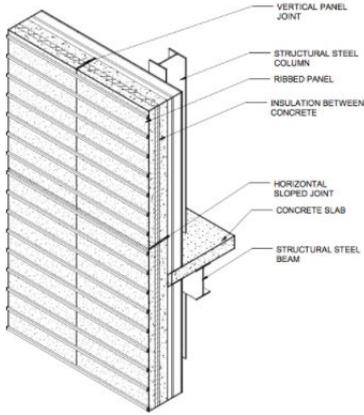


1 Solid Precast concrete wall section - Callout
1/12" = 1'-0"

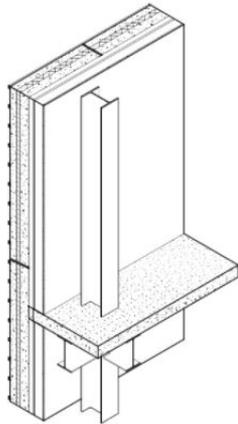
3 SOLID PRECAST RIBBED PANEL
ELEVATION
1/12" = 1'-0"



2 Correct floor plan view
1/12" = 1'-0"

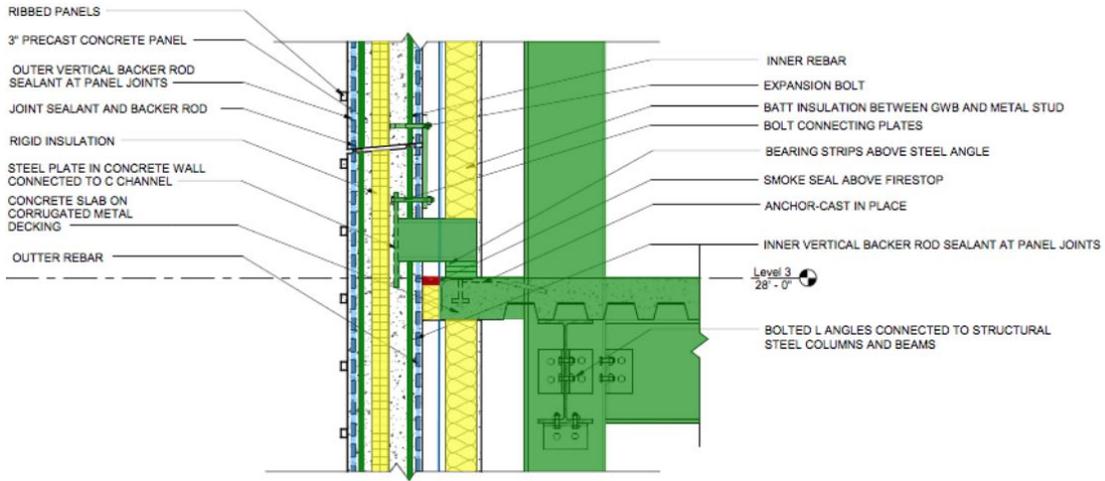
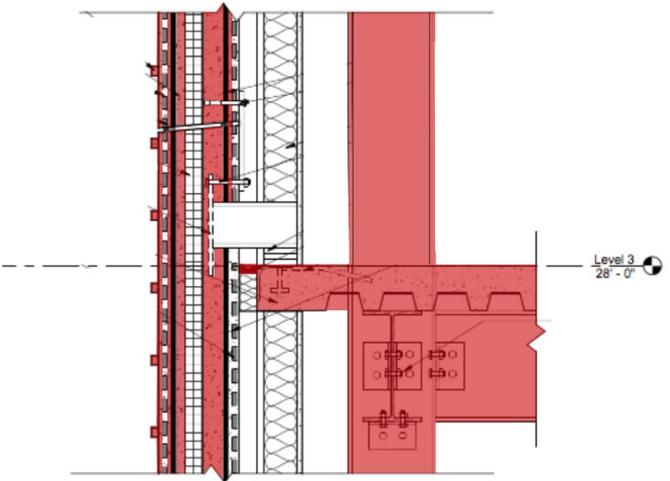


5 SOLID RIBBED PANEL ISO NW



6 SOLID PRECAST RIBBED PANEL ISO SW

Precast Ribbed Panel Facade Color Coding

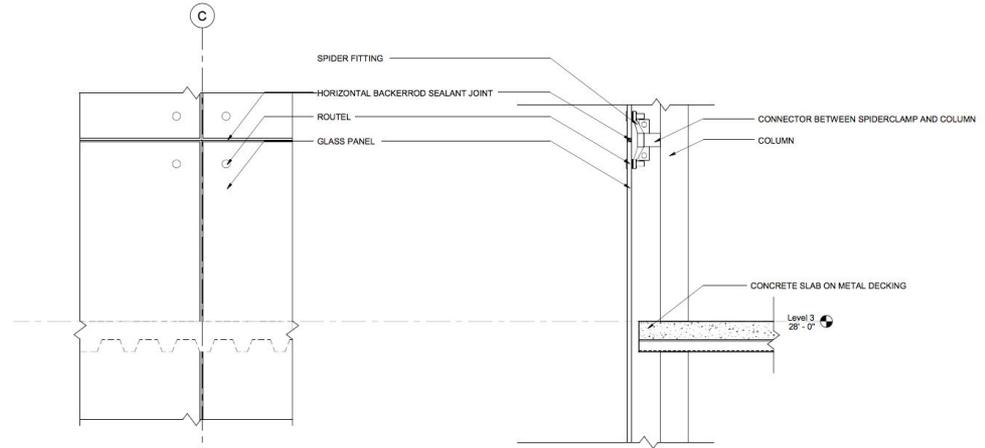


Solid Precast concrete wall section - Callout

1 1/2" = 1'-0"

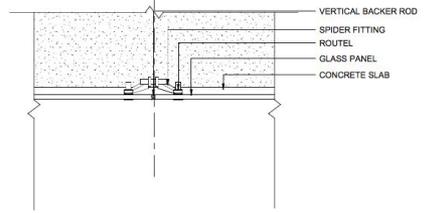
COLOR CODING	
COLOR	PURPOSE
RED ■	FIRESTOP
GREEN ■	STRUCTURAL
BLUE ■	WATERPROOF
YELLOW ■	THERMAL

STRUCTURAL GLAZING: SPIDER CLAMP CONNECTION

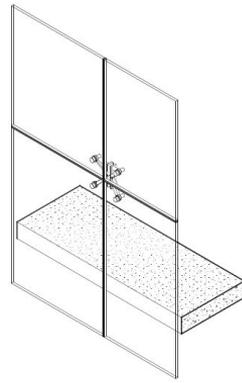


③ CURTAIN WALL ELEVATION
1 1/2" = 1'-0"

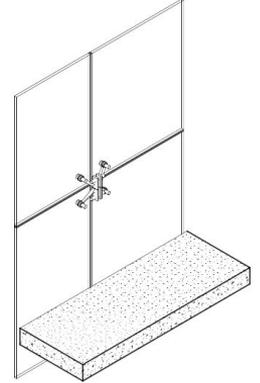
① Curtain Wall Section
1 1/2" = 1'-0"



② Curtain Wall plan
1 1/2" = 1'-0"



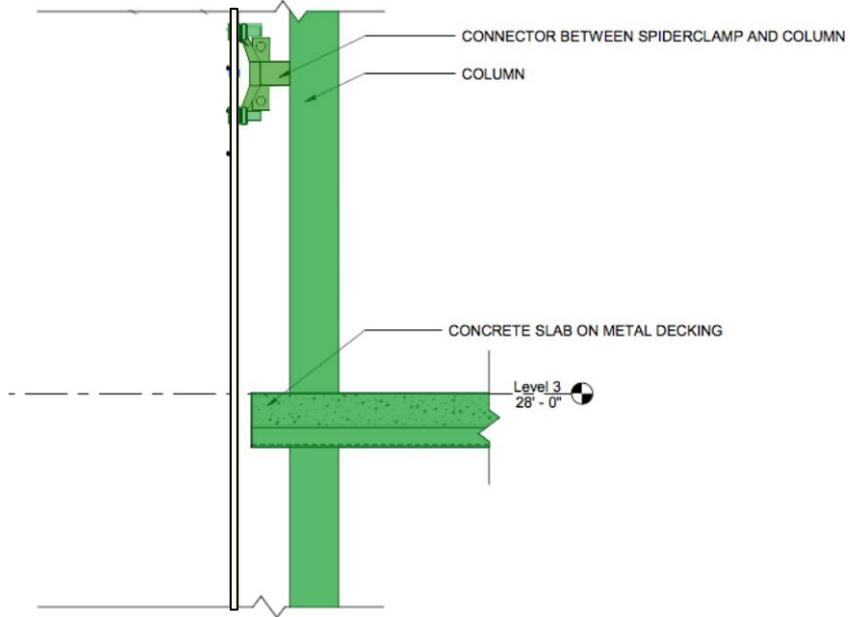
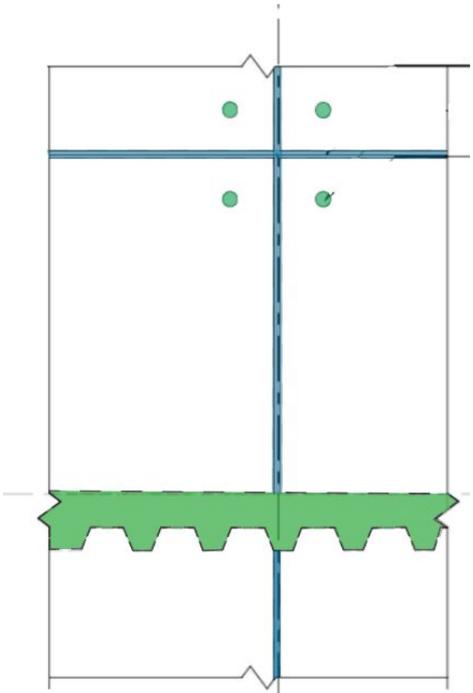
⑤ Curtain wall iso rIGHT



④ Curtain wall iso LEFT Copy 1

CURTAIN WALL COLOR CODING

COLOR CODING	
COLOR	PURPOSE
RED 	FIRESTOP
GREEN 	STRUCTURAL
BLUE 	WATERPROOF
YELLOW 	THERMAL



Citations

1. <http://www.postwarconcretepostscript.com/tag/ribbed-precast-concrete-panels/>
2. <https://archpaper.com/2011/12/contemplating-still/>
3. <http://www.metromont.com/7-advantages-of-precast-concrete>
4. <https://i.pinimg.com/236x/2b/8d/54/2b8d54d6624292fb8d816fa7c4f1b137.jpg>
5. <http://www.yekaloncurtainwall.com/products/Fix%20Point%20Glass%20Curtain%20Wall.html>