## Visual Arts Building

## Steven Holl 2016

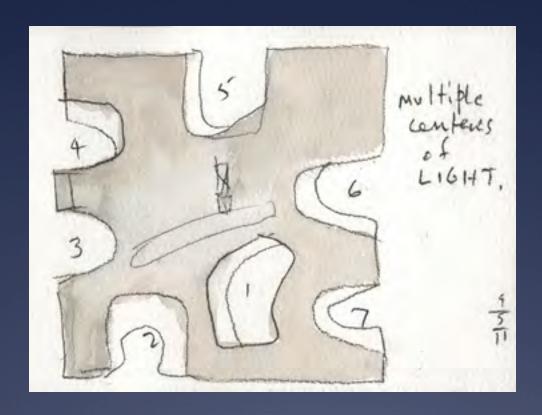
\$50m

126,000 s.f.

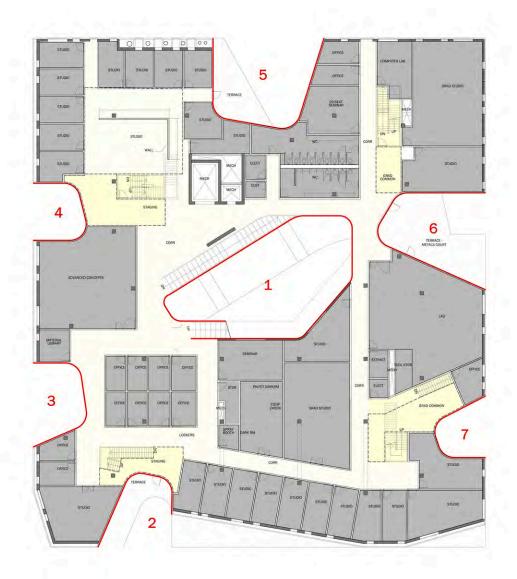
396 dollars per square foot

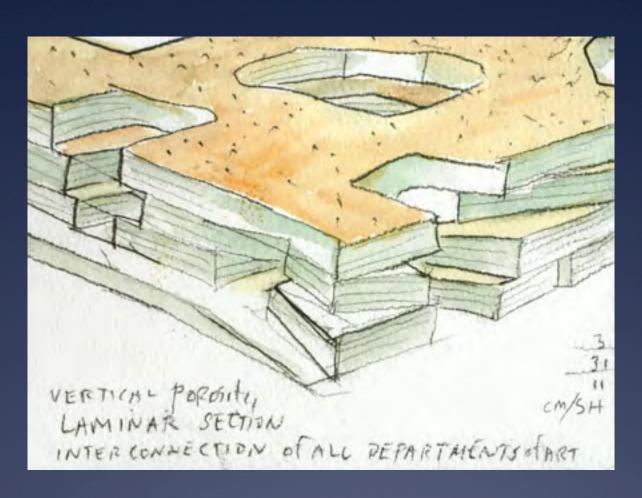


- 7 cuts of light
- Laminar shift of floor plates to allow balconies

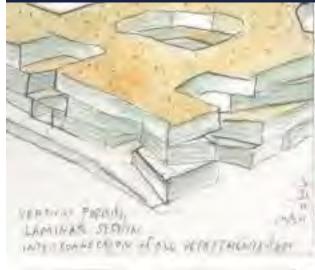


An art school for a collaborative future Skin is structure





Light cuts connect departments vertically for collaboration





To create balance between the existing Arts Building West, which is horizontally porous and of planar composition, the new Visual Arts Building was specifically designed to be vertically porous and volumetrically composed. Some key points of the design follow.

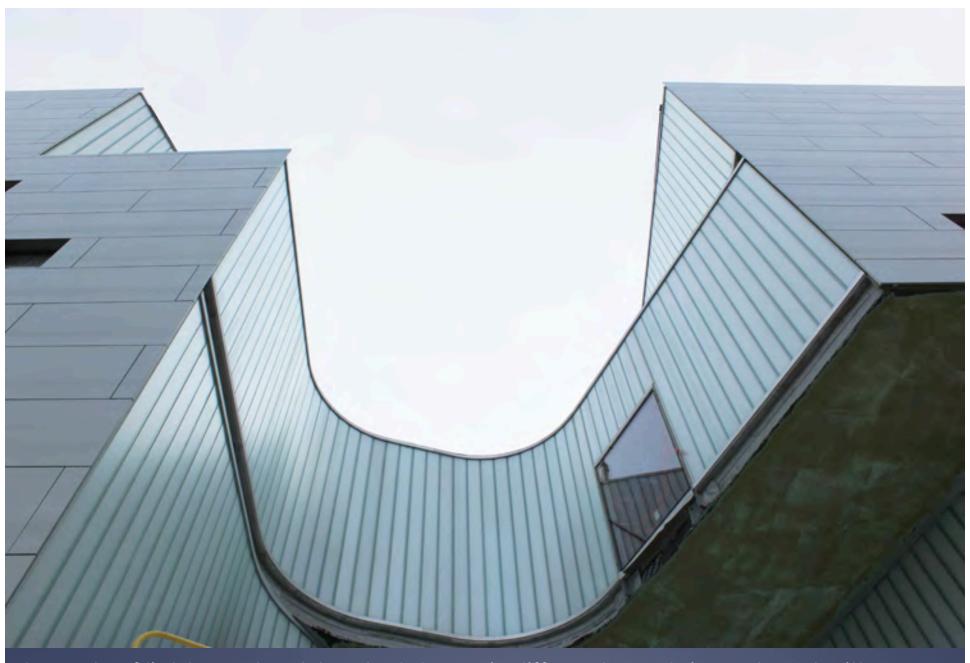
From the architect:

1. Interconnection: Horizontal Programs, Vertical Porosity

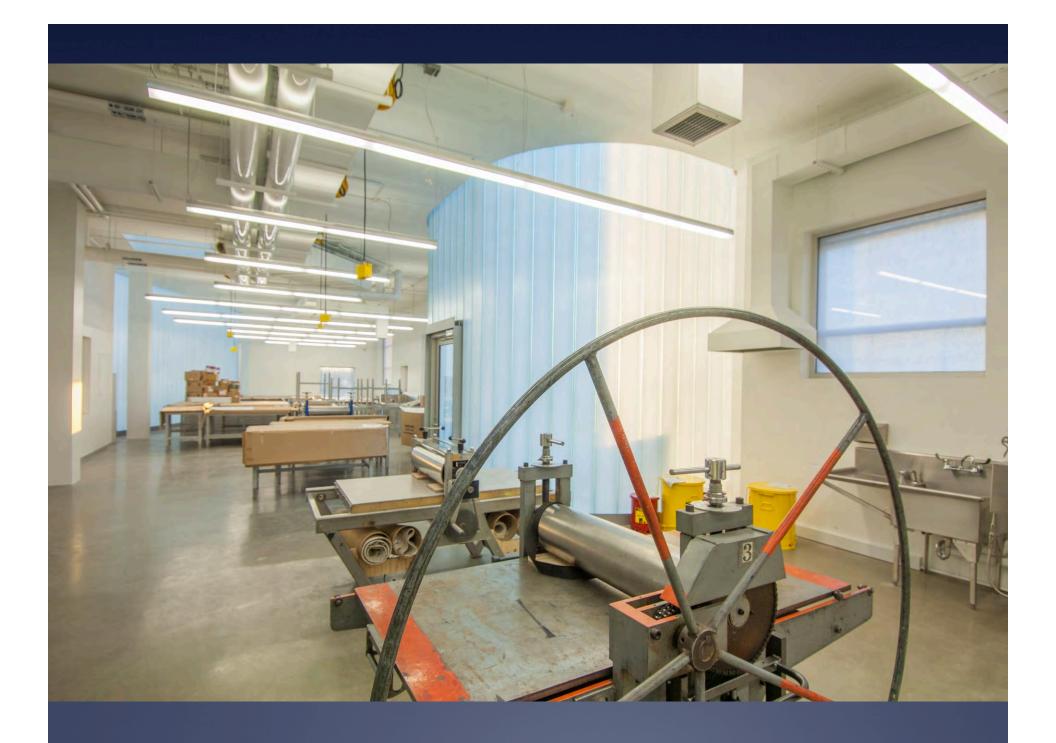
Courtesy of Steven Holl Architects
In a school of the arts today, interconnection
and crossover are of fundamental importance.
Today digital techniques open up increased
interconnection between all the arts.
Interconnection between all of
the departments is facilitated in the vertical
carving out of large open floor plates. Students
can see activities ongoing across these
openings and be encouraged to interact and
meet. Further interconnection is facilitated by
glass partitions along the studio walls adjacent
to internal circulation.

Opposing the horizontality of the older arts building with vertical cuts of light

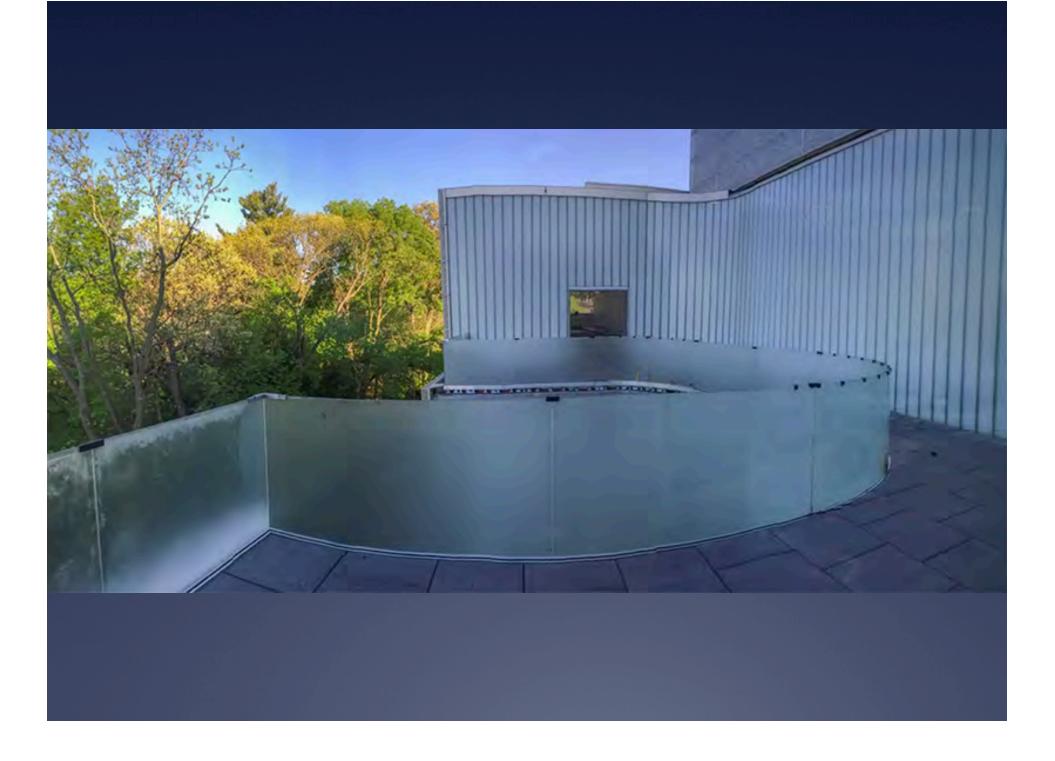
Seeing each floor as a lamination making up the mass and offsetting the laminations to make balcony spaces

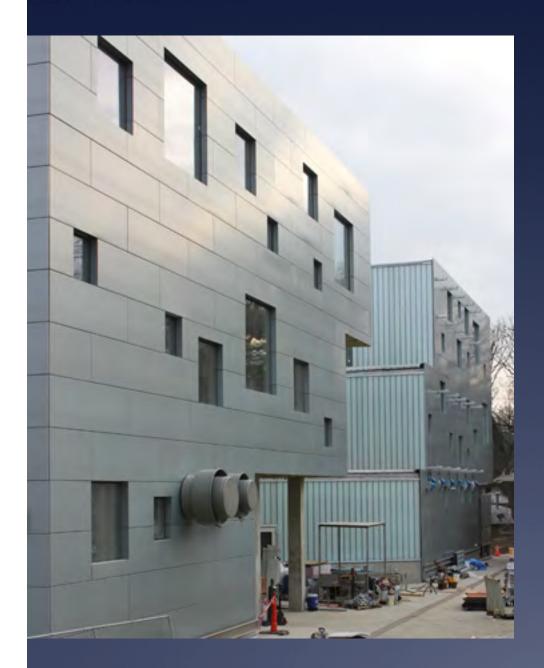


The cuts of light, each subtracted shape is different, each is enclosed with channel glass insulated with nano-gel

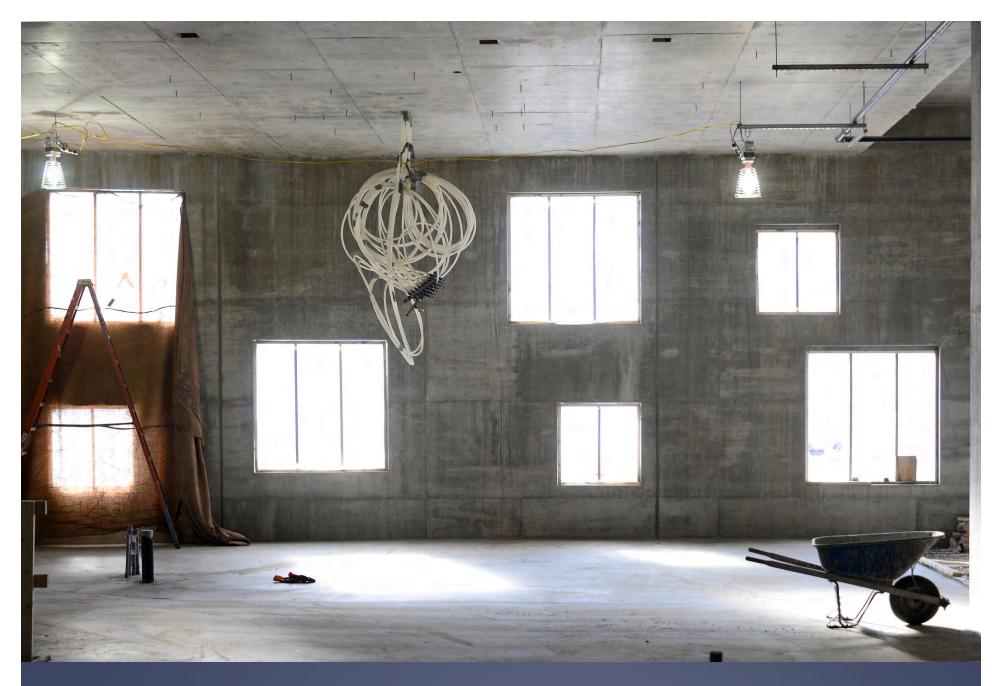








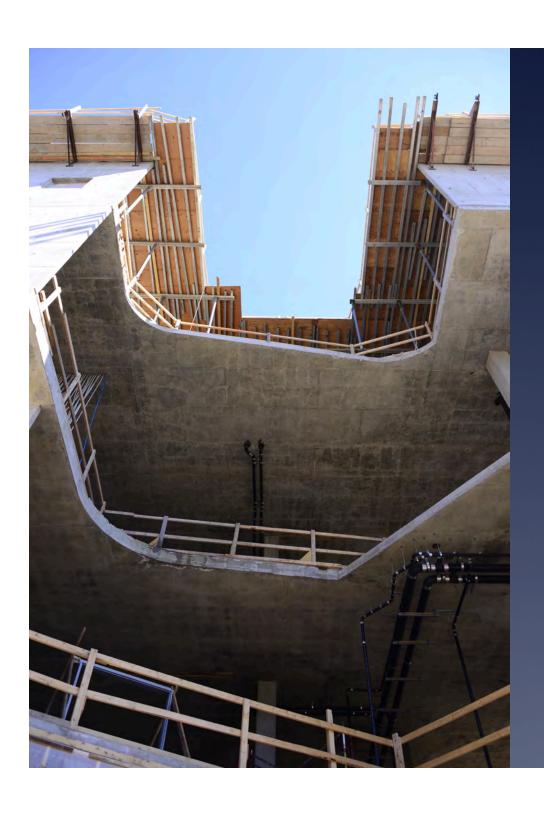
Window punctures based on Fibonacci series, 3, 5 or 8 feet square



Fibonacci series at work, 3, 5, 8



Exterior concrete bearing walls... Ando would not be pleased

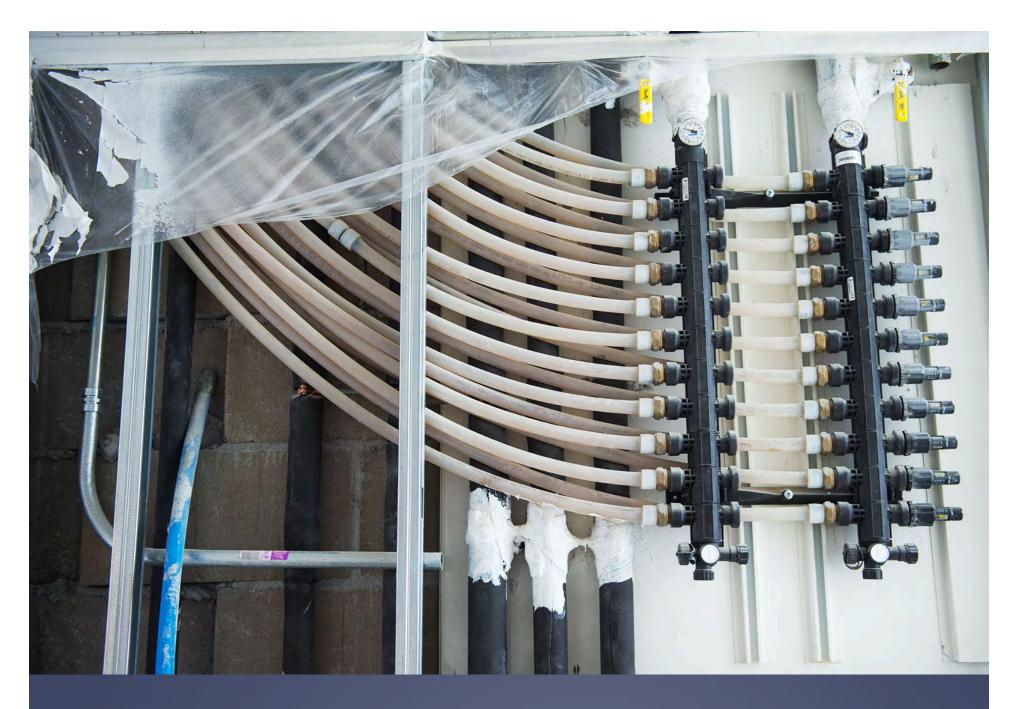


Looking up at the laminar offsets in the cuts of light

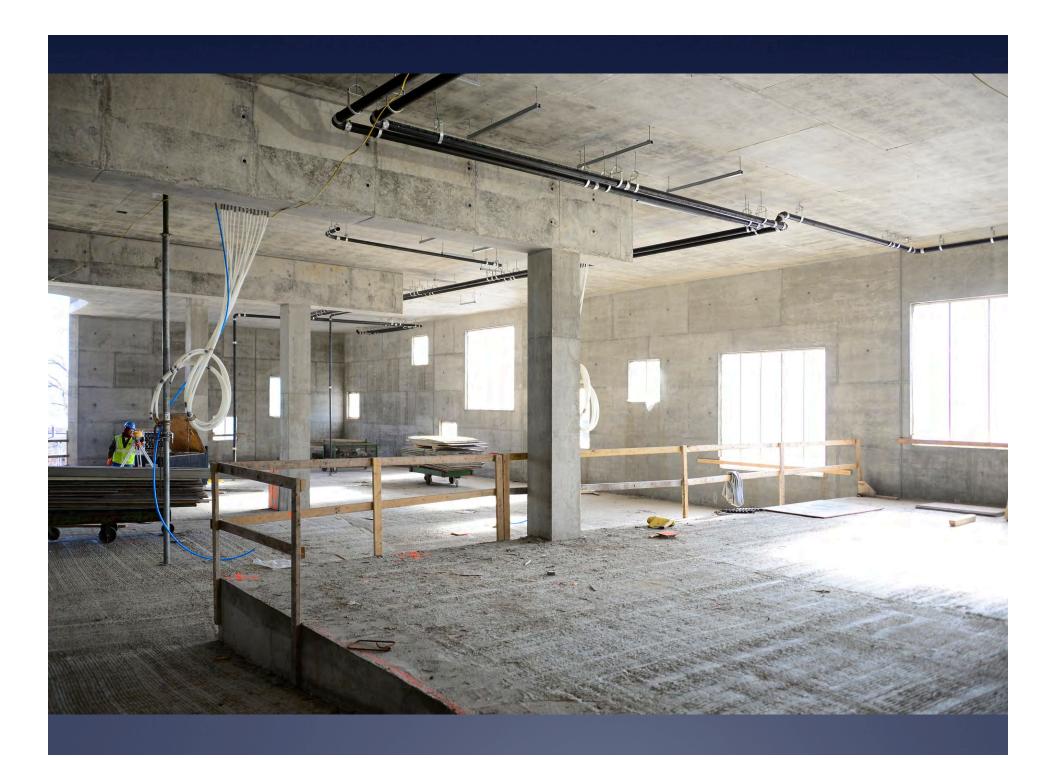


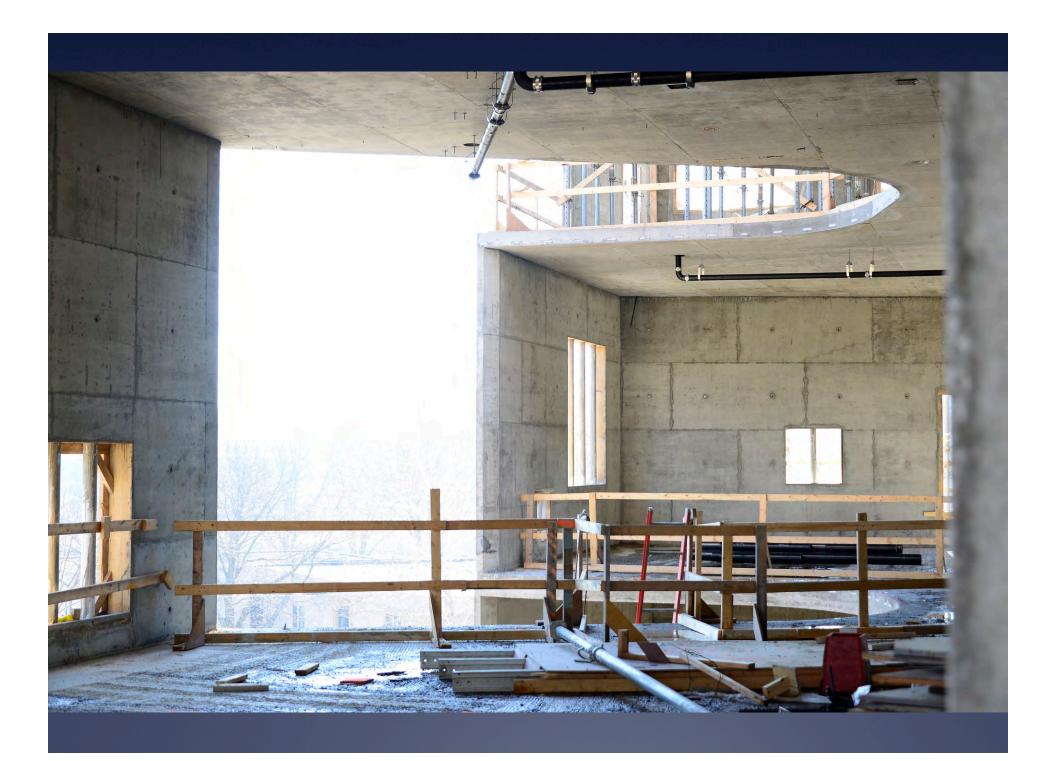
## "Bubble Deck"

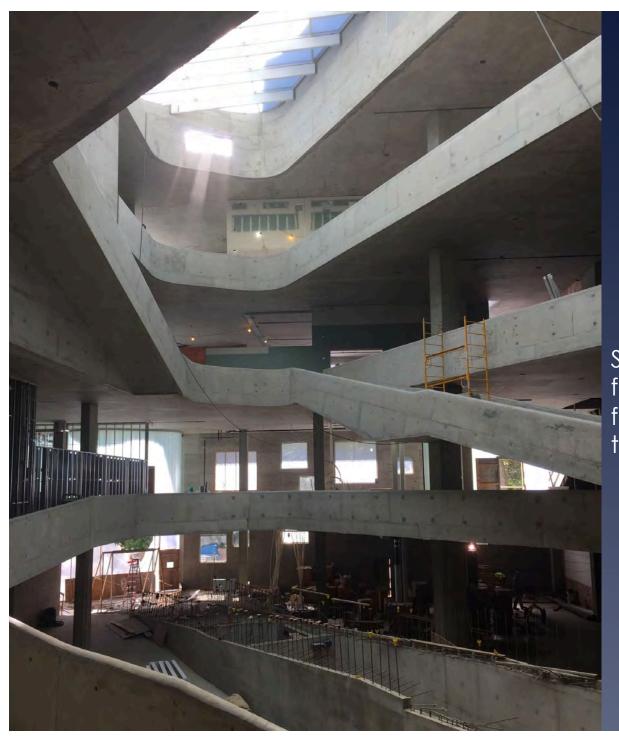
- 32 foot span
- 12 inch depth
- Integrated radiant heating and cooling



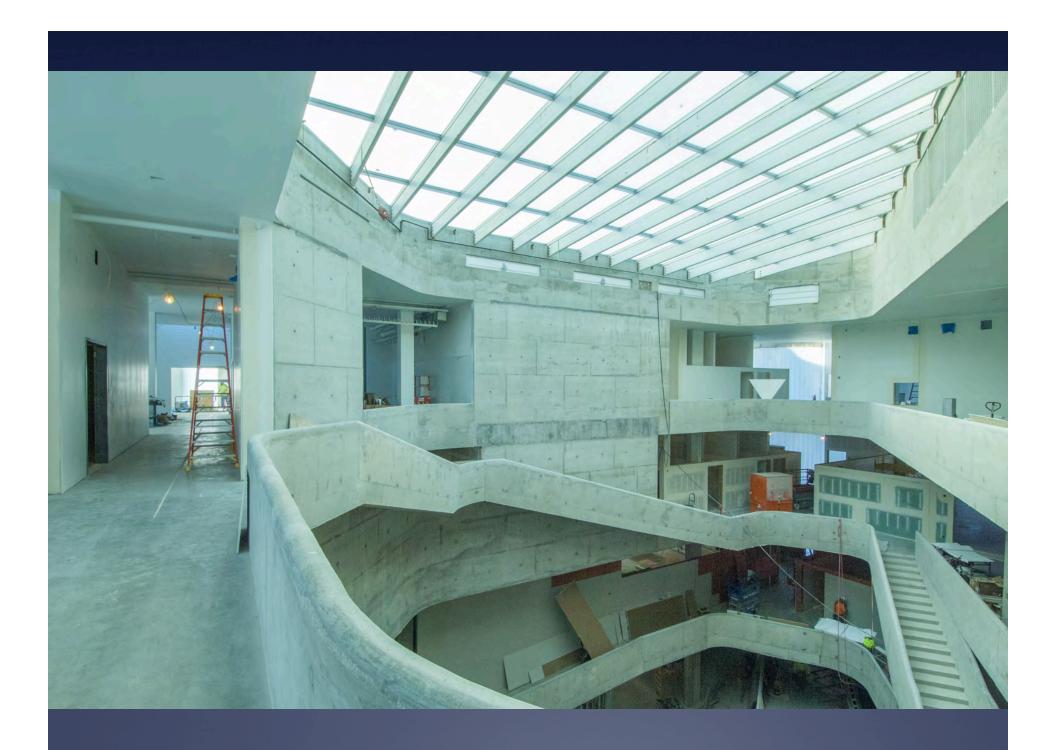
Cast in tubing for radiant heating and cooling

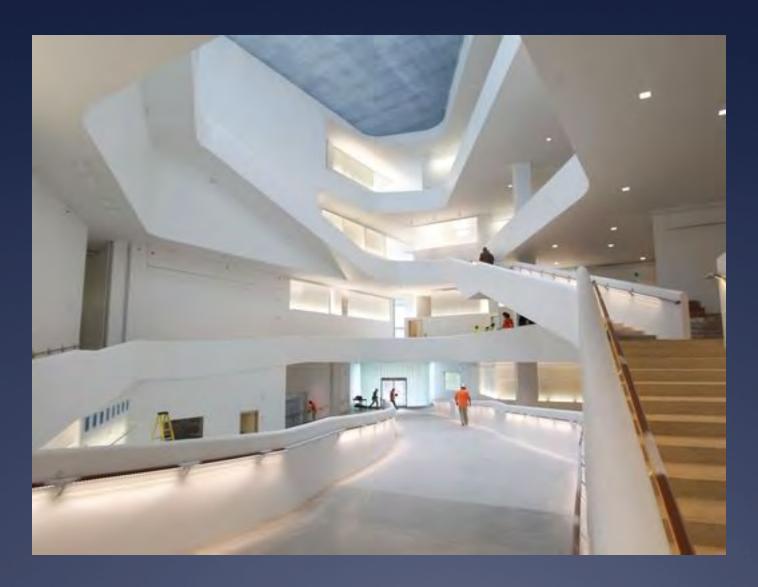




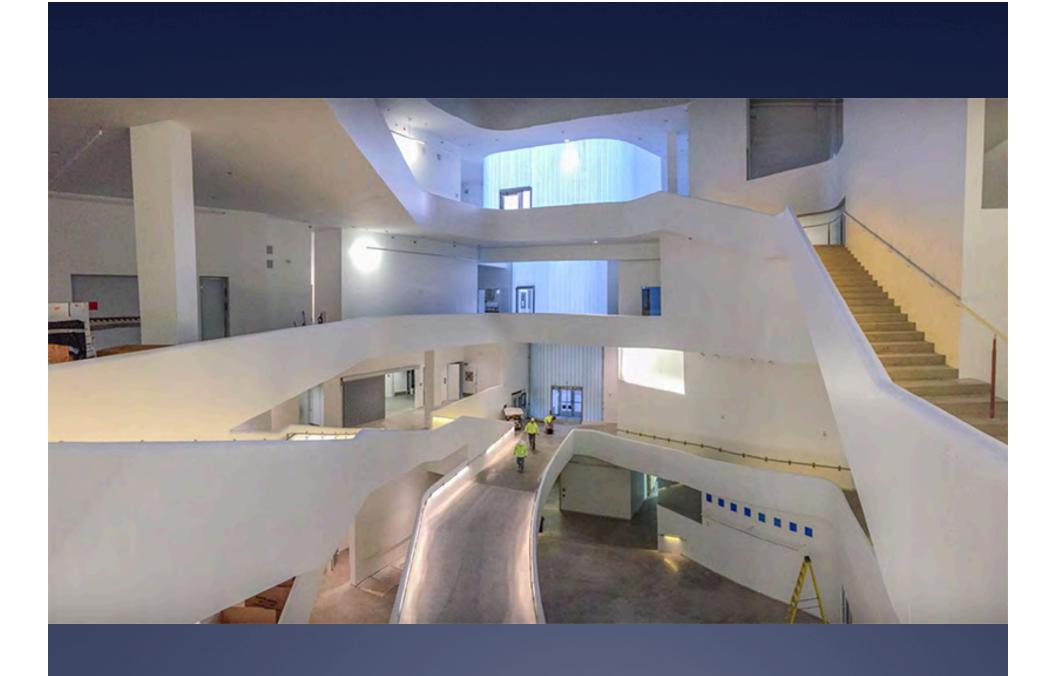


Space as a social condenser for non-users passing through from one side of the site to the other



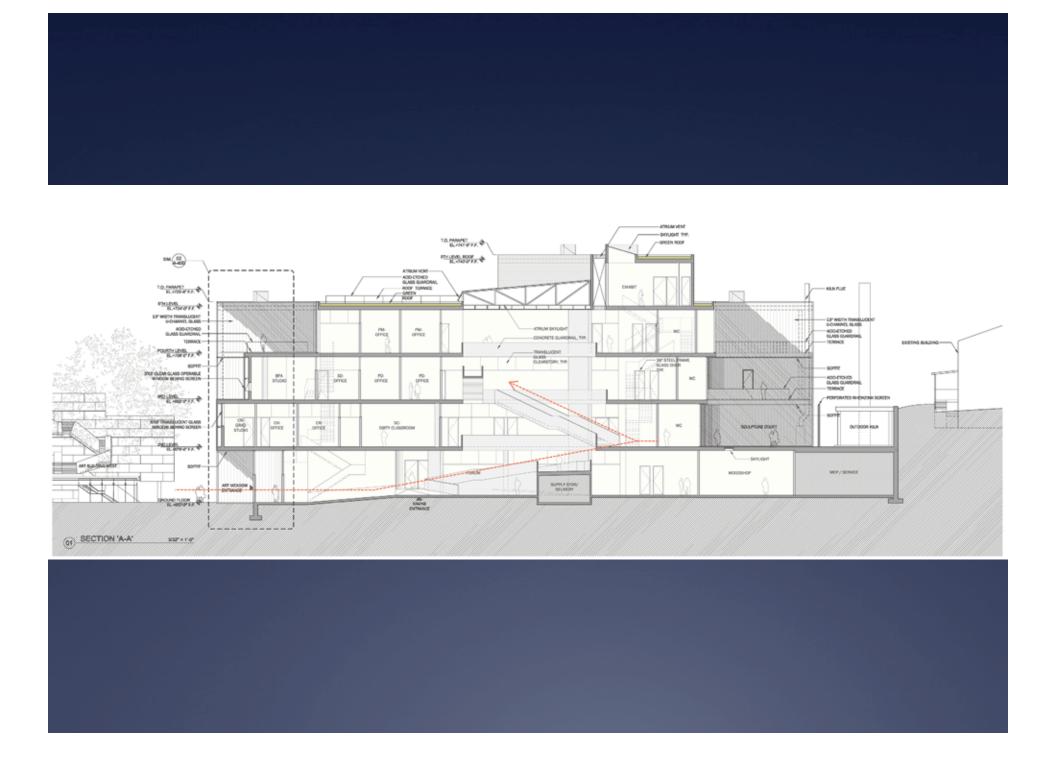


The interdisciplinary community forum space

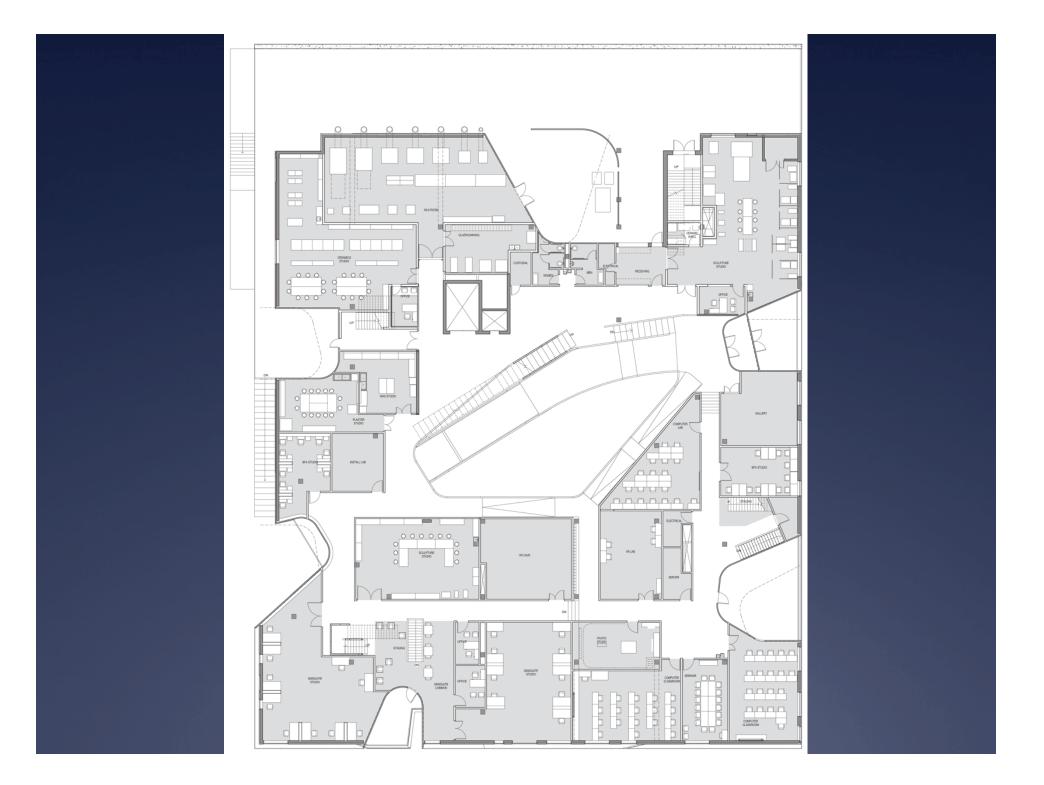




A space for people to exchange ideas...the social condenser

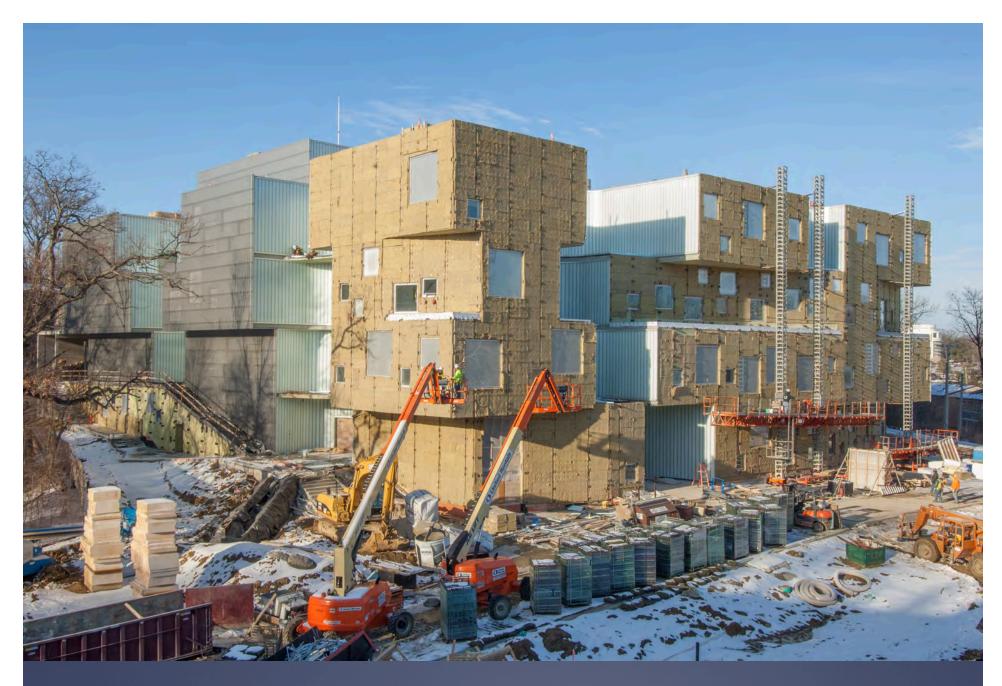








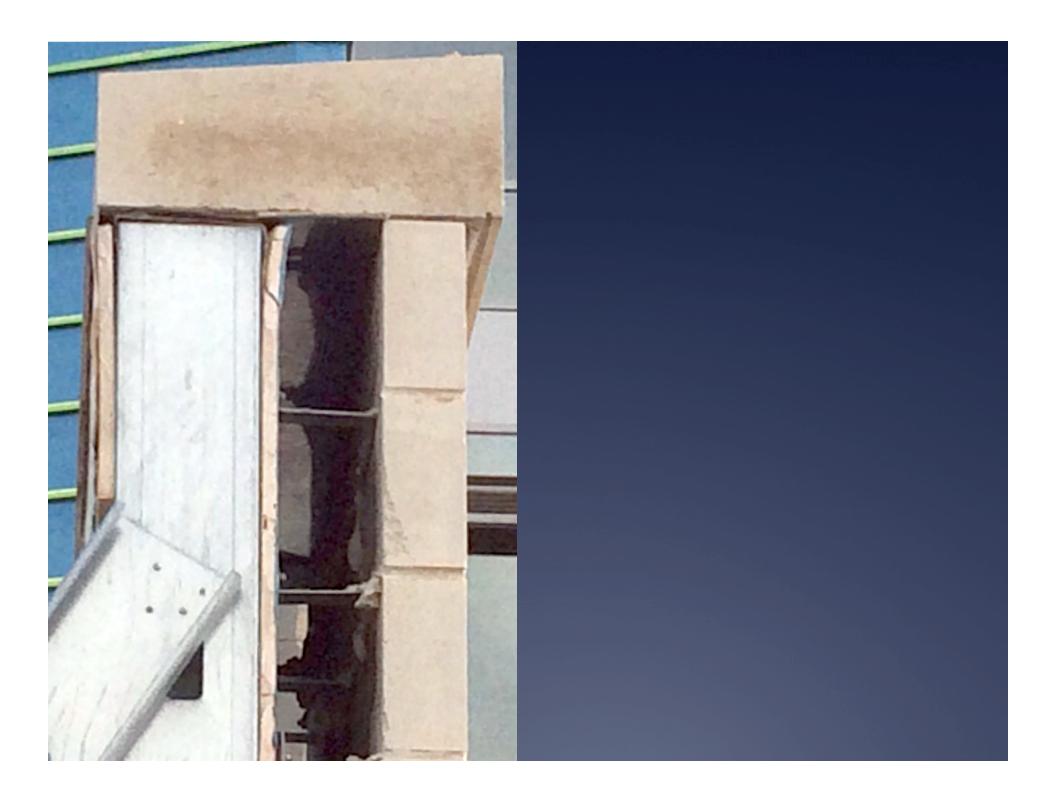


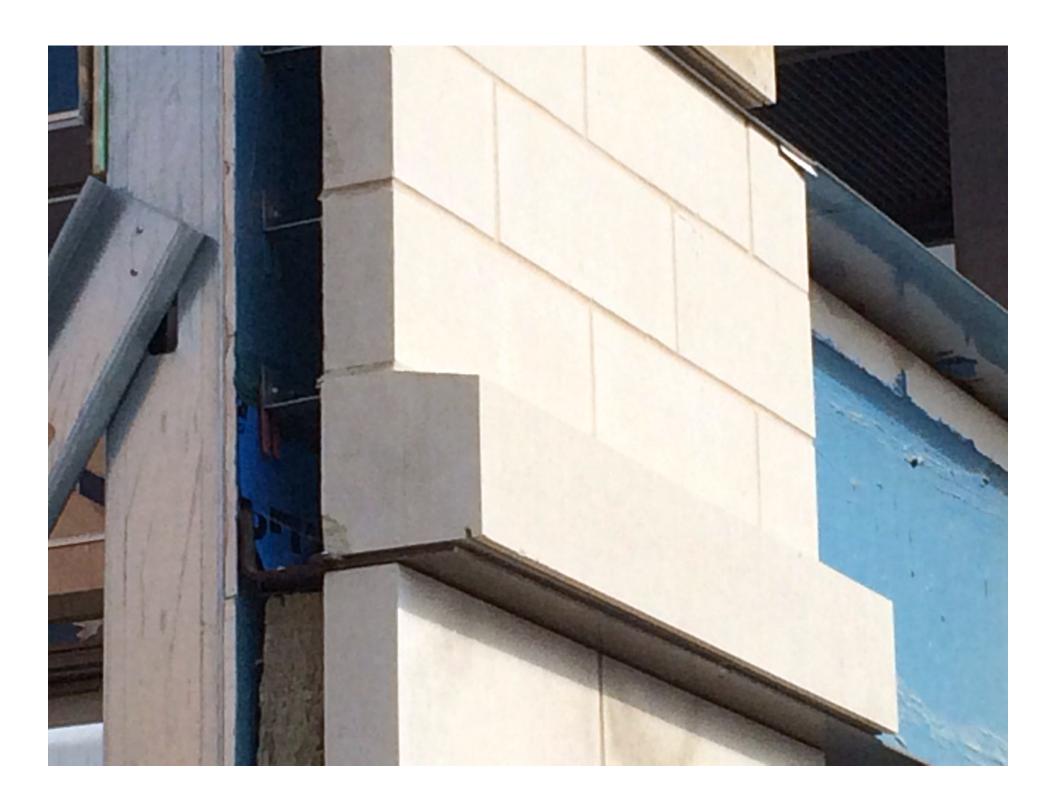


Concrete walls overlaid with thermal insulation and rheinzink cladding mesh



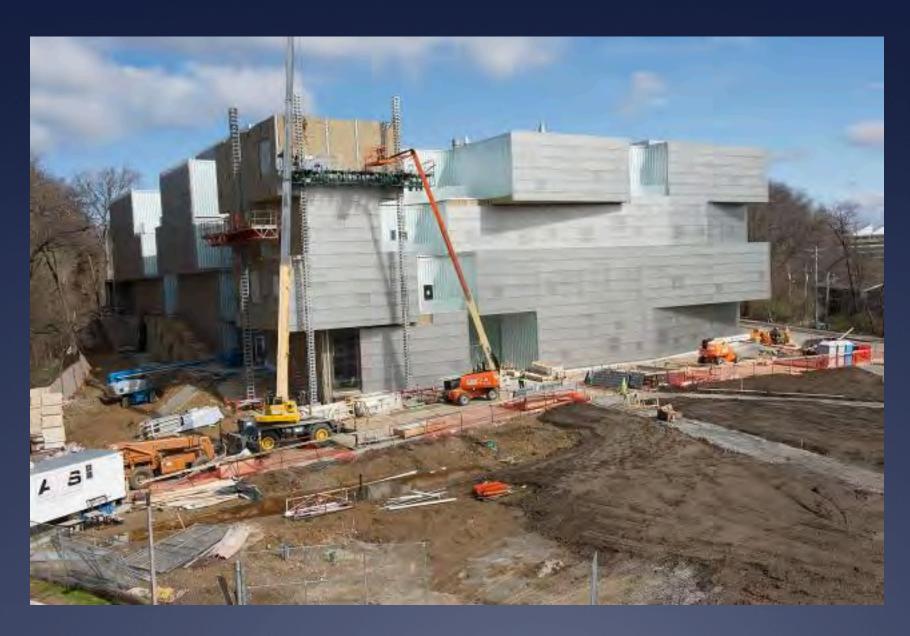
"Thermafiber" a mineral fiber batt, mechanically attached to the backup Made from expanded mineral slag, no rot, no mold food, no UV problem A good solution where CI is needed for a cavity.





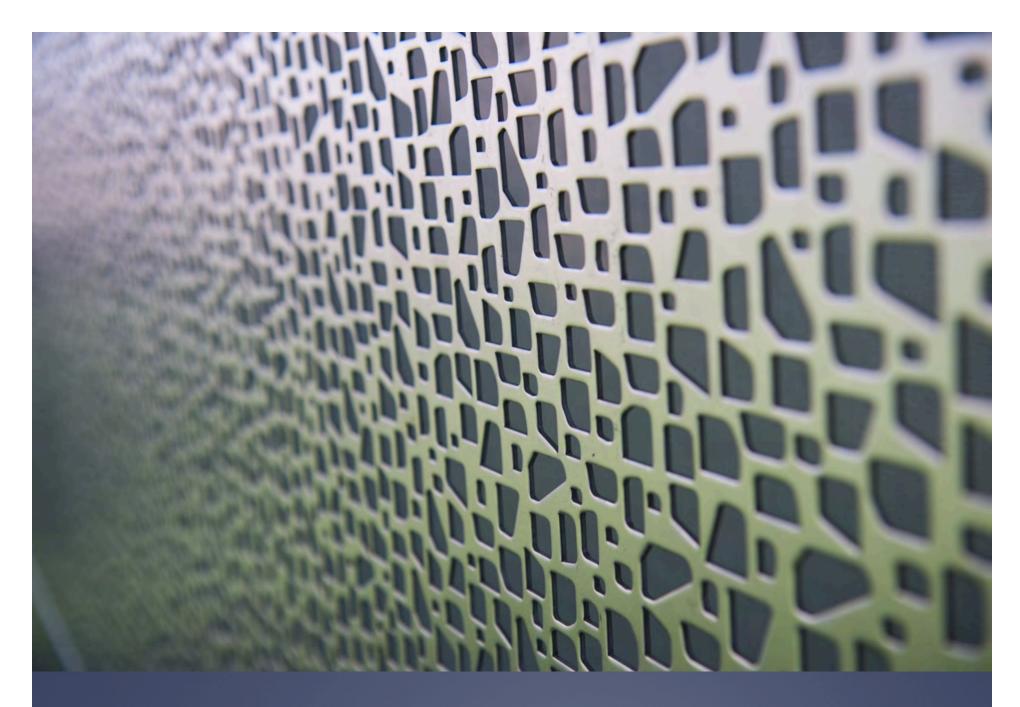






Perforated zinc screen being installed





courtyard geometry makes skin perforations

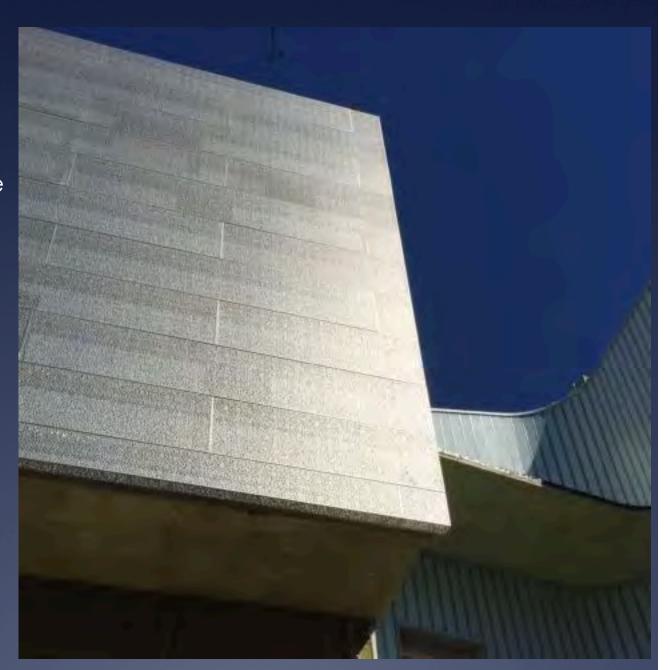


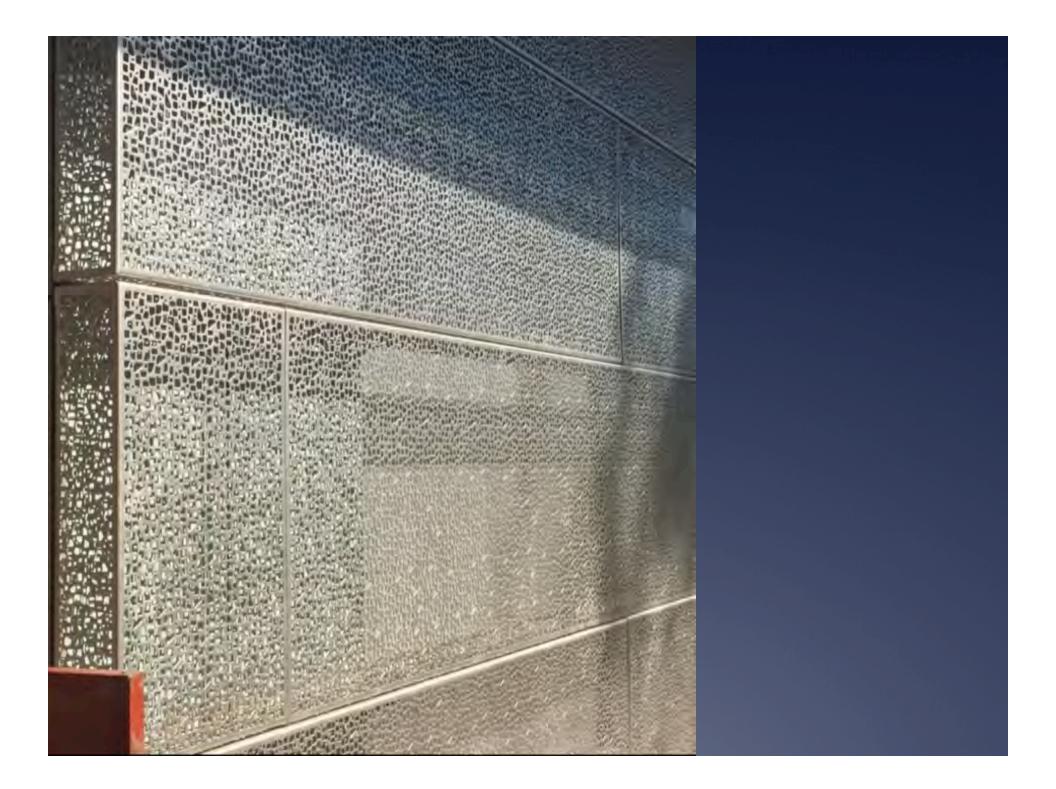


Perforated screen meets flat zinc panel at the corner

Perforations offer a radiant surface

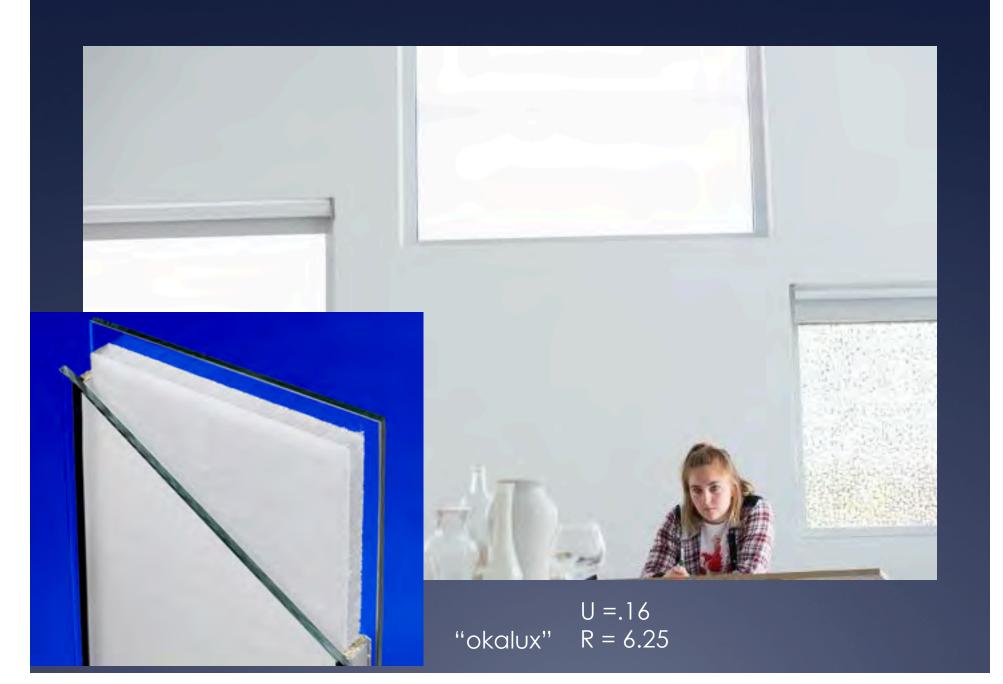
Changes from opaque to translucent through the day







Perforated screen gives depth to surfaces and shades the south side









Produkte		800	Mide &	Per Max	Abmessungen max. Immy; Gesamtstärke Immy; Total thistories Immy		-Mer	West (W	
Products	Ansicht View	Aufbau Fassade	Author Dach	Abmessum Dimension	Gesamstärke Imm)	33	Kypton: y	1 (1) Re 30, 1 (1) 8 (1)	
OKA <i>LUX</i> ®	7			2000 x 4500	ab 16	45/46 32/35 24/28			
OKA <i>LUX</i> ®+	V			1230 x 4000	ab 26	37/31 33/21 24/16	0,9 [0.16] 0,9 [0.16] 0,9 [0.16]	1,3 [0.23] 1,3 [0.23] 1,3 [0.23]	
OKA <i>LUX</i> ® K K-Wert (Ug-Wert) optimiert K-value (Btu) optimized				2000 x 6000	ab 30	42/33 37/23 24/18	0,9 [0.16] 0,8 [0.14] 0,8 [0.14]	1,1 [0.19] 1,1 [0.19] 1,1 [0.19]	
OKA <i>LUX</i> ® EVO				2000 x 6000	ab 28	36/22 31/20 41/33	0,8 [0.14] 0,8 [0.14] 0,8 [0.14]	1,0 [0.18] 1,0 [0.18] 1,0 [0.18]	
KAPI <i>LUX</i> ® T Transluzent Translucent				2400 x 6000	ab 42	60/42 52/29 46/26	0,8 [0.14] 0,8 [0.14] 0,8 [0.14]	1,0 [0.18] 1,0 [0.18] 1,0 [0.18]	
KAPI <i>LUX</i> ® W Weiß White				2400 x 6000	ab 42	34/27 30/18 26/16	0,8 [0.14] 0,8 [0.14] 0,8 [0.14]	1,0 [0.18] 1,0 [0.18] 1,0 [0.18]	
KAPI <i>LUX</i> ® WS Weiß / Schräg White / inclined			THE STATE OF THE S	2400 x 4400	ab 42	34/27 30/18 26/16	0,8 [0.14] 0,8 [0.14] 0,8 [0.14]	1,0 [0.18] 1,0 [0.18] 1,0 [0.18]	
OKA <i>PANE</i> ®	-5			auf Anfrage on request	auf Anfrage on request	OP 16 OP 24 OP 40			









OKALUX + KAPILUX

OKAGEL

OKASOLAR + OKAFLEX

OKALUX HPI









**OKATECH** 

OKAWOOD

**OKACOLOR** 

**OKALUX Interior** 

## Whats next





Okalux "evo"

U value .18 up to .07 R value 5.5 up to 14.2!!!! TSET .15

## "okagel" Aerogel fill

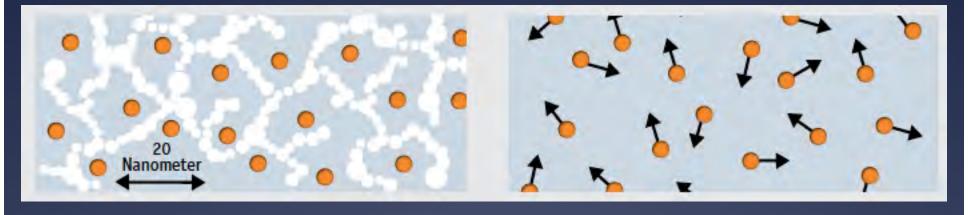




Aerogel = Translucent for daylight

Insulating glass = transparent for vision lite

## Insulating glass allows gas molecules to move, convection



Aerogel traps gas to prevent convection

$$U = .11$$
  
R = 9.09

## Pvc@tamu

Liberal arts building roof



