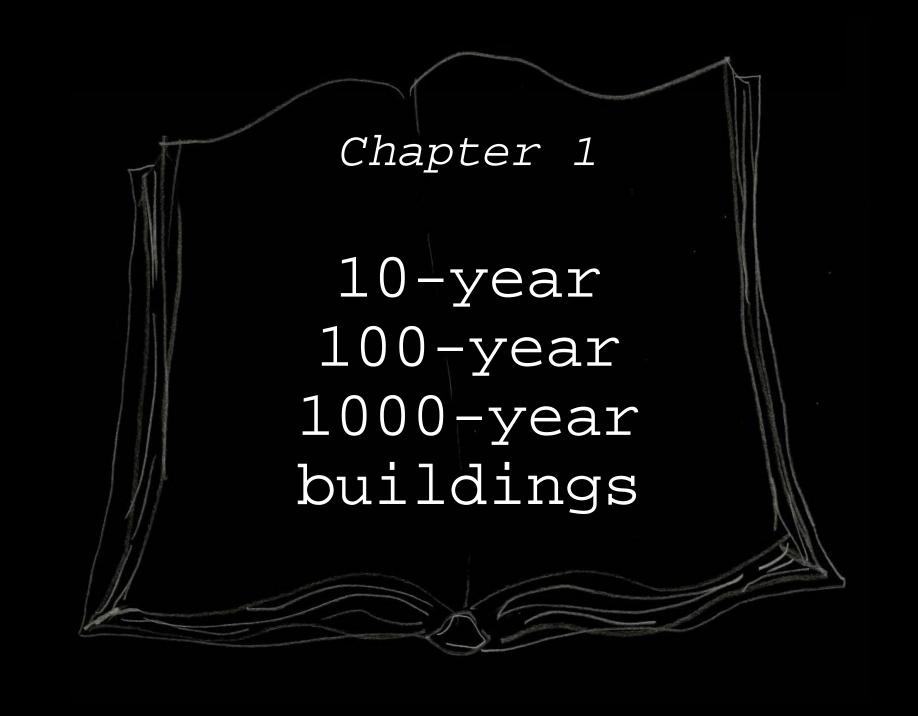


Architectural Koyaanisqatsi: 10-year, 100-year, 1000-year, buildings

Keith A. Simon, FAIA, CPHC, BECxP, CxA+BE, LEED AP, CEI Adjunct Faculty, University of Texas School of Architecture VP of Design Phase Services, Salas O'Brien

...don't forget to tell your story about the first time you spoke to Joe and Betsy...



fash·ion /'faSHən/ change for its own sake

per·for·mance
/pərˈfôrməns/
the action or process of carrying out
or accomplishing an action, task, or function

Performance > Fashion







Architecture needs to be <u>craft</u>, not <u>art</u>

If a pleasure-giving function predominates, the artifact is called **art**; if a practical function predominates, it is called **craft**.

- Henry Glassie



NO: form follows function

YES: adaptive reuse*

*flexibility is really important!



















A building is not something you finish. A building is something you start.

- Stewart Brand



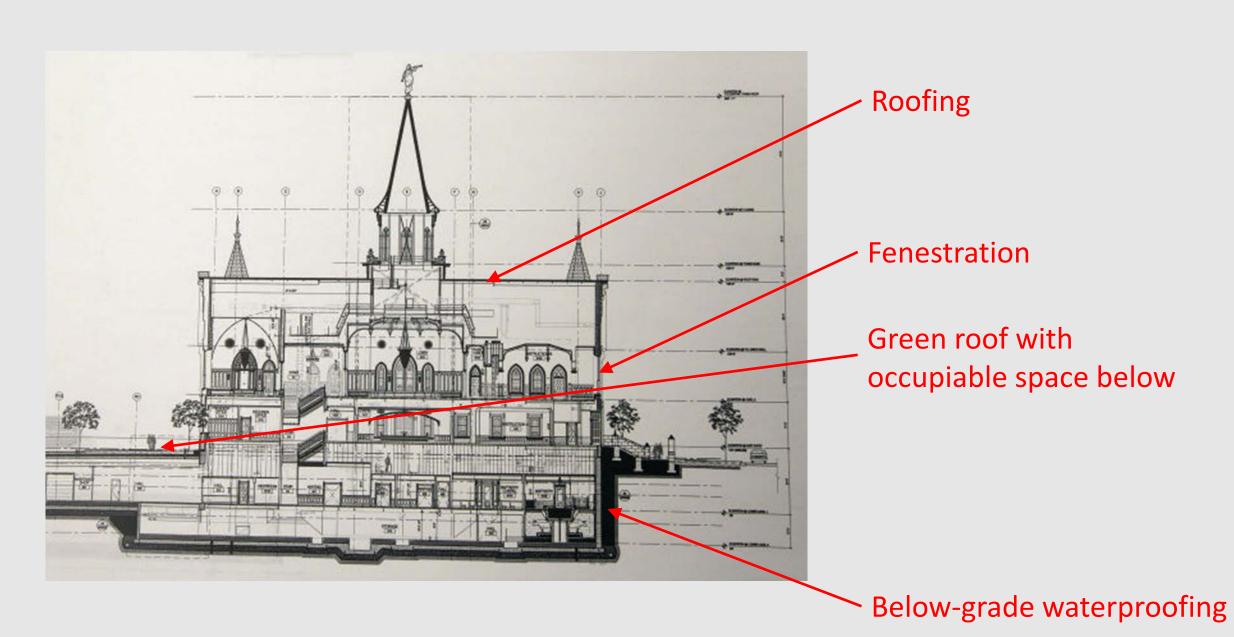


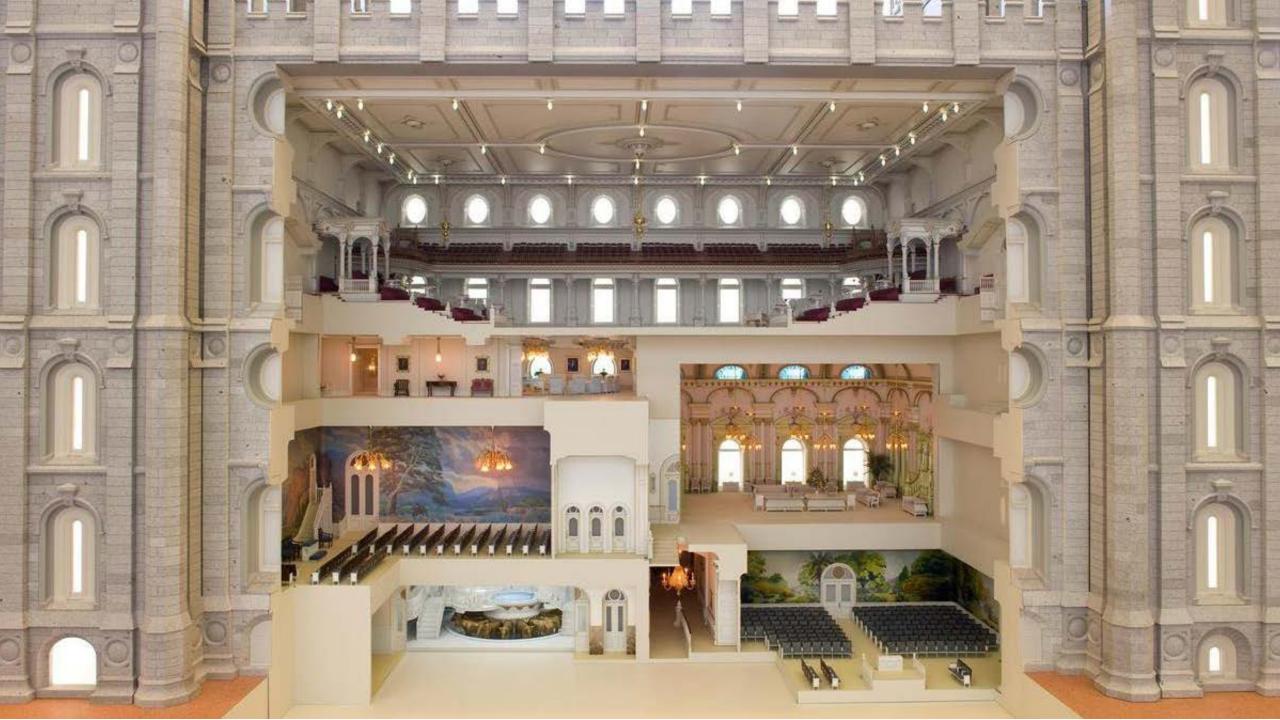




Mormon Temple, 1853 Salt Lake City

Architect Truman O. Angell



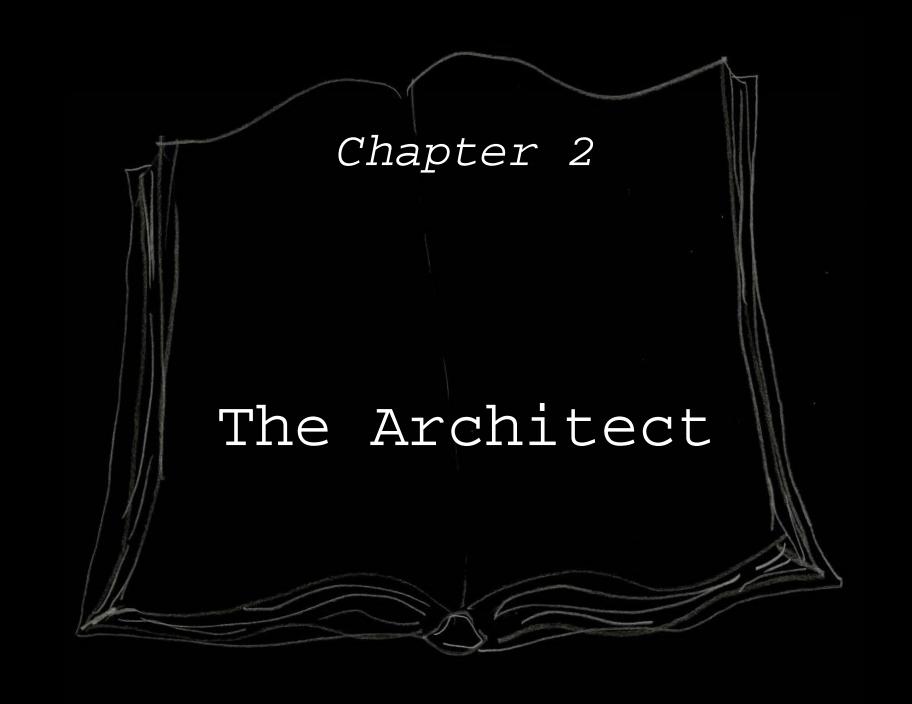


Constructed over 40-year period Used granite quarried from 23-miles away Walls are 9-feet thick at ground, tapers to 6 Maintenance and upkeep are unquestioned Style has elements of Gothic and Romanesque Has survived two bombings and an F2 tornado



What do we teach in architecture schools?















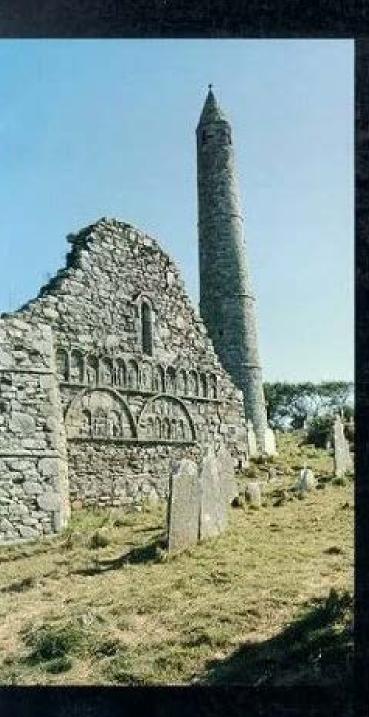




Malcolm Wells

The Architect



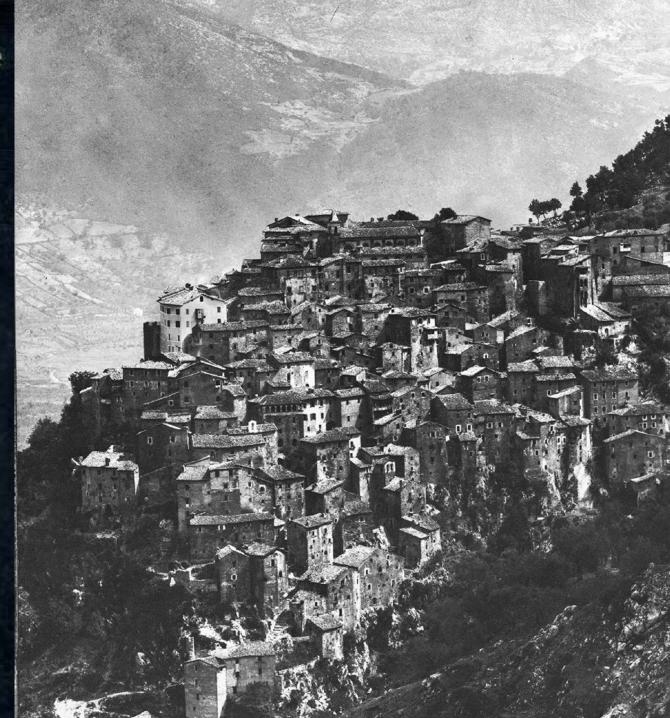


A Short Introduction to Non-Pedigreed Architecture



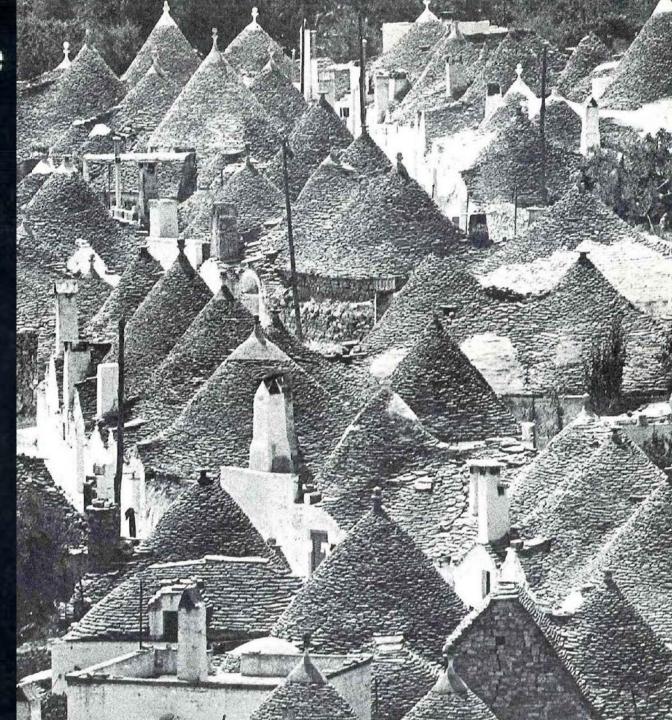


A Short Introduction to Non-Pedigreed Architecture





A Short Introduction to Non-Pedigreed Architecture



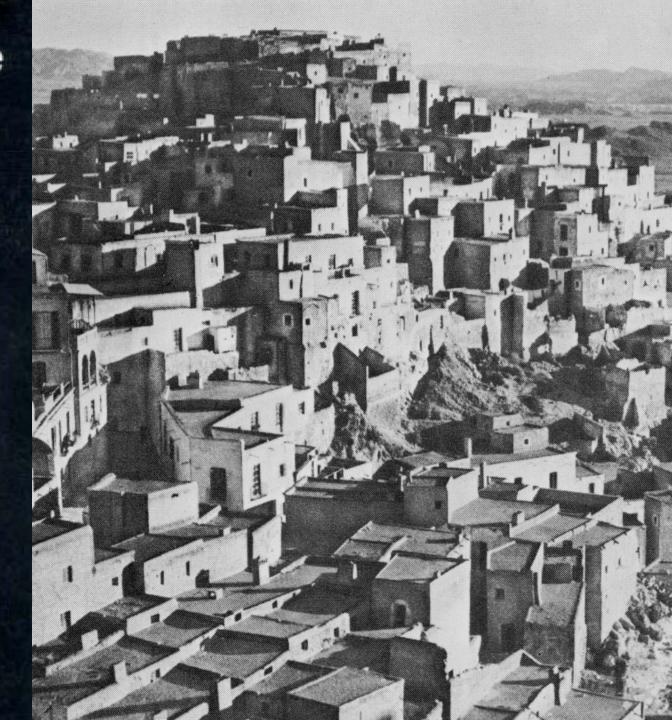


A Short Introduction to Non-Pedigreed Architecture





A Short Introduction to Non-Pedigreed Architecture



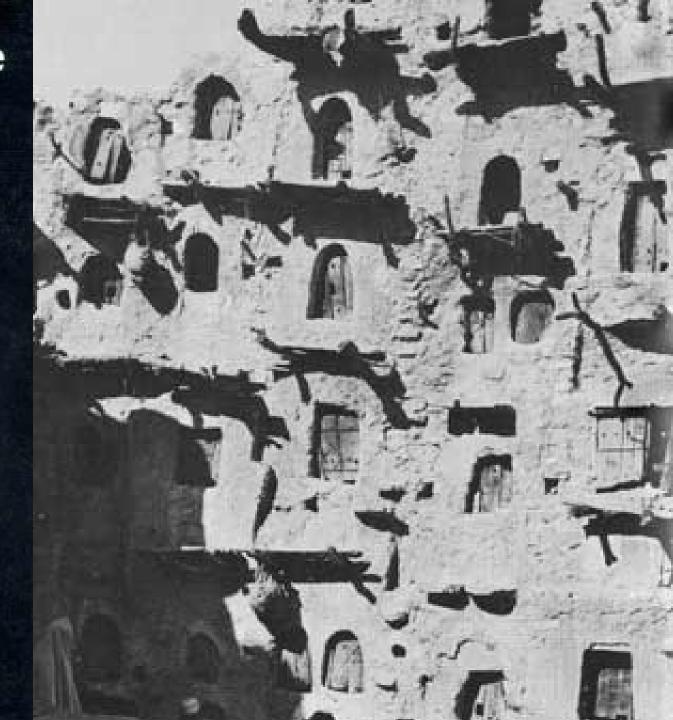


A Short Introduction to Non-Pedigreed Architecture





A Short Introduction to Non-Pedigreed Architecture

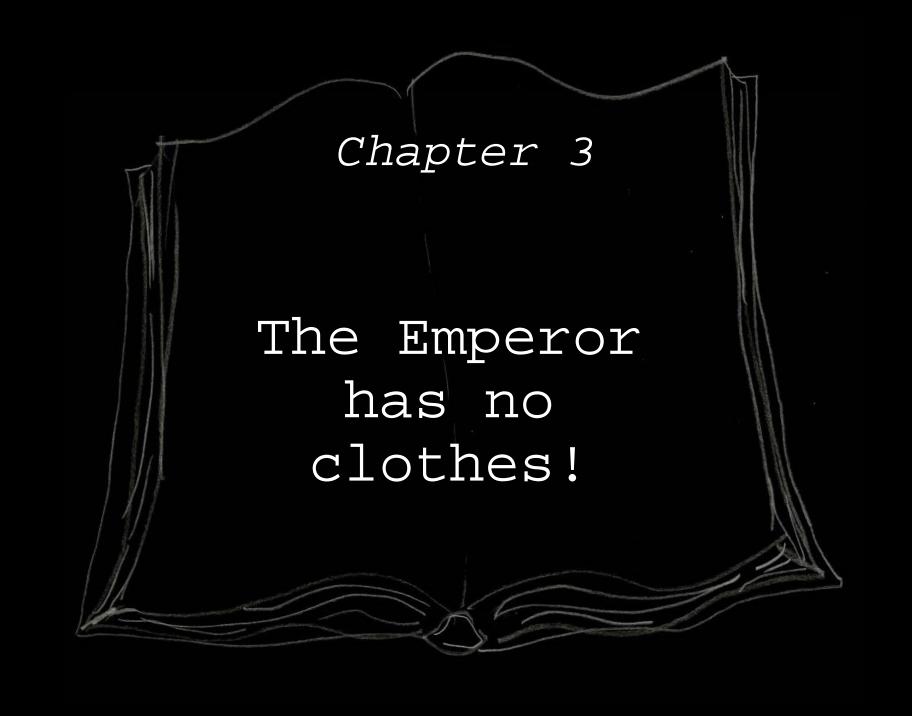




A Short Introduction to Non-Pedigreed Architecture

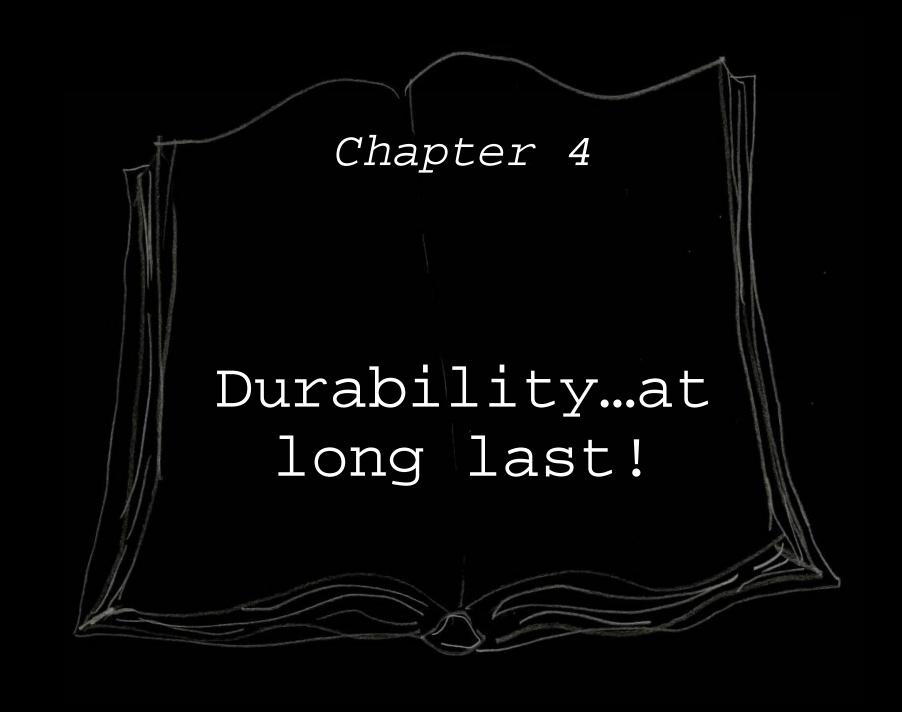












"this is a 100-year building"

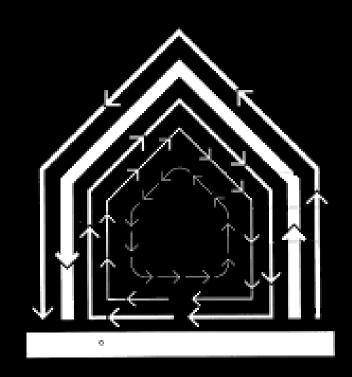
"this is a 50-year building"

"this is a 30-year building"

"this is a 5-year, max, building"

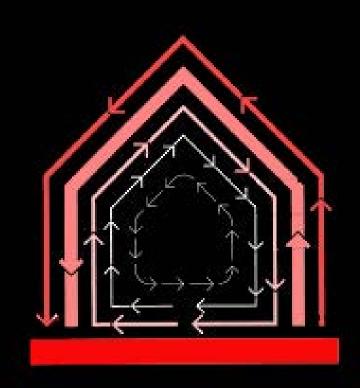
How Buildings Learn

Shearing Layers of Change



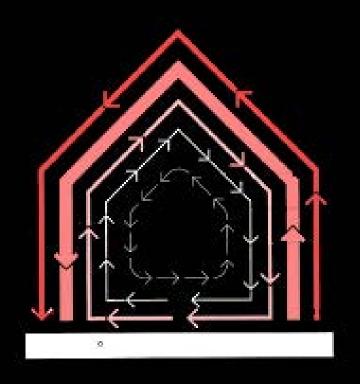
How Buildings Learn

Shearing Layers of Change



How Buildings Learn

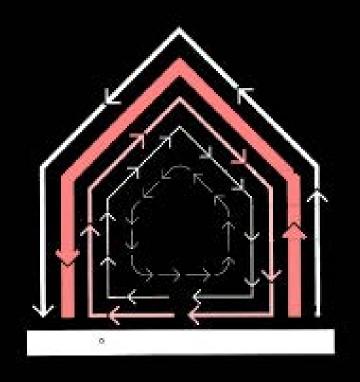
Shearing Layers of Change



Site: Eternal

How Buildings Learn

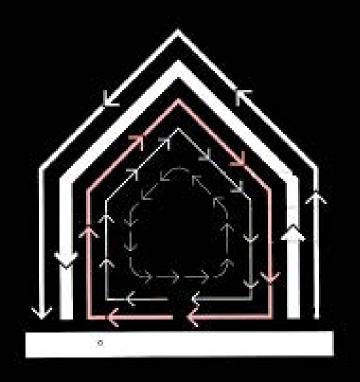
Shearing Layers of Change



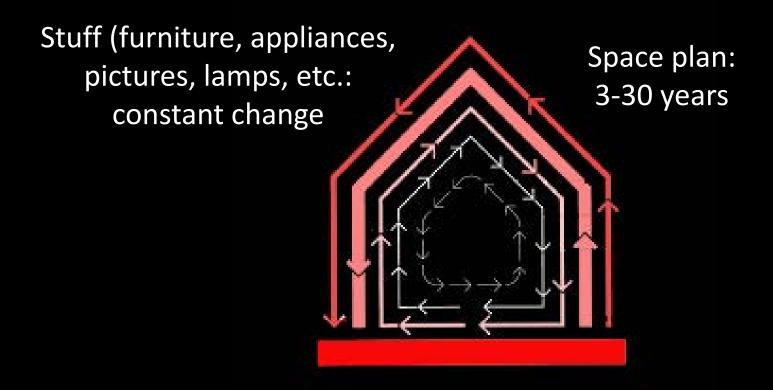
Structure: 30-3000 years

How Buildings Learn

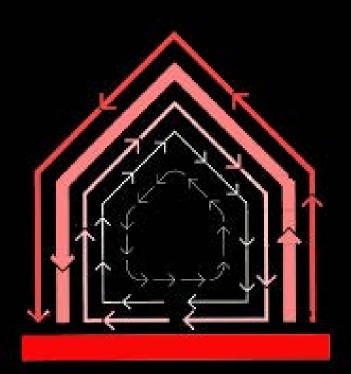
Shearing Layers of Change

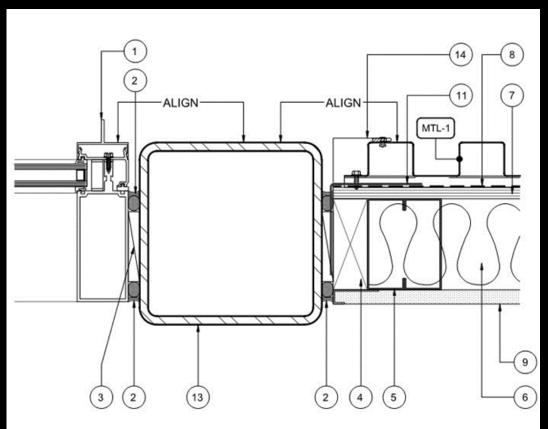


Enclosure: 20-2000 years



Services: 5-15 years







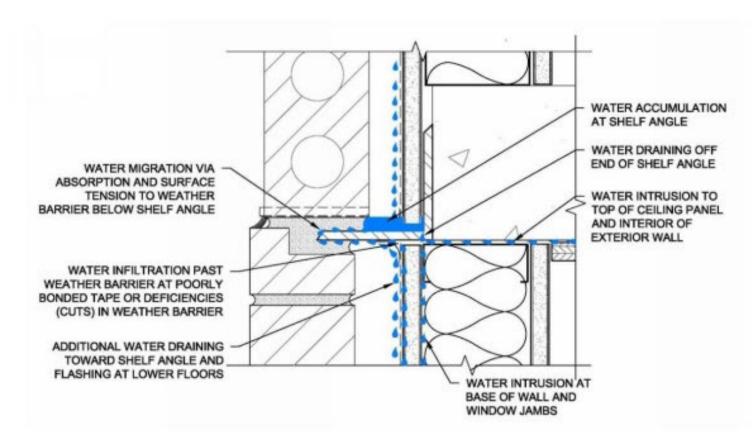








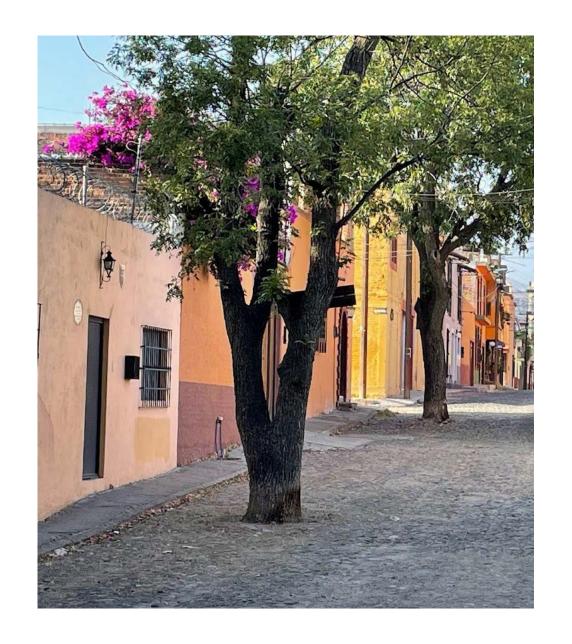








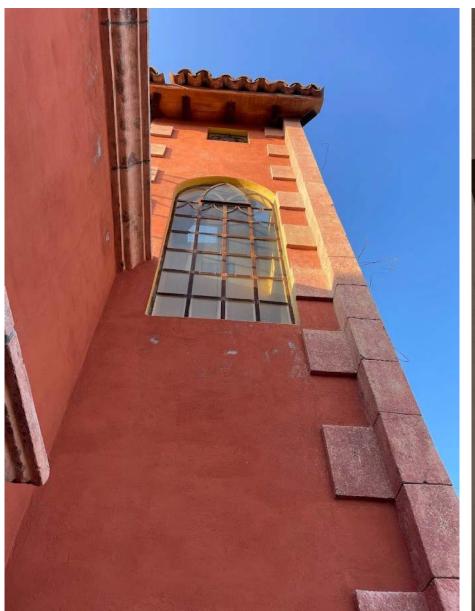


















Style cramps life, and life erodes style.

- Stewart Brand





Mount Angel Library, Oregon Alvar Aalto (1970)





When the height of fashion moves on, they're the ones left behind, stuck in a building that was designed to look good rather than work well, and now...

- Stewart Brand

...it doesn't even look good.

Angkor Wat (1400s) 600+ years old (photo from Craig D. Tillman)



Fenland Cottage (1750) 250 years old



Arts and Crafts
1890-1920
100+ years old



HISTORIC HOMES FOR SALE

2,750

0.2

75' x 130'

OLD HOUSE ARCHIVES RESOURCES OLD HOUSE AGENTS

From The Archives

Bedrooms

Full Baths Heated Sq. Ft.

Stories

Acres

Lot Size

c. 1910 Arts & Crafts (Craftsman)

Austin, Texas

che				House
to select	STATE OF THE PARTY OF	A PART OF THE PART	THE RESERVE THE PERSON NAMED IN	



Front view

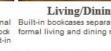
Beautifully restored 1910 Craftsman Bungalow on oversized lot in Hyde Park

The Bailey-Houston House which has been designated a City Historic Landmark is considered to be Austin's premier Craftsman bungalow.

Scroll down for more information



Spacious living room with original Built-in bookcases separate the long leaf pine paneling, river rock formal living and dining rooms fireplace, beamed ceiling, built-in bookcases



Living/Dining



Listing No. 2754





MORE OLD HOUSES

Like This Listing?



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Selling An Old House?

ADD A LISTING

- ❖ Why List Your House?
- Pricing and Services
- ♣ Agent Services

Your Feedback

"The website is a pleasure to manage listing information from a

Victorian
1837-1901
100+ years old

1900s-ish The Main Line, Philadelphia



The Painted Ladies, 1890 Matthew Kavanaugh



International Style Art Moderne Art Deco 1920-1945 80-100 years old

Kiefhoek housing, Rotterdam, by Jacobus Oud







Brutalism1950-1975
50-75 years old

Boston City Hall, 1968 Kallmann McKinnell & Knowles



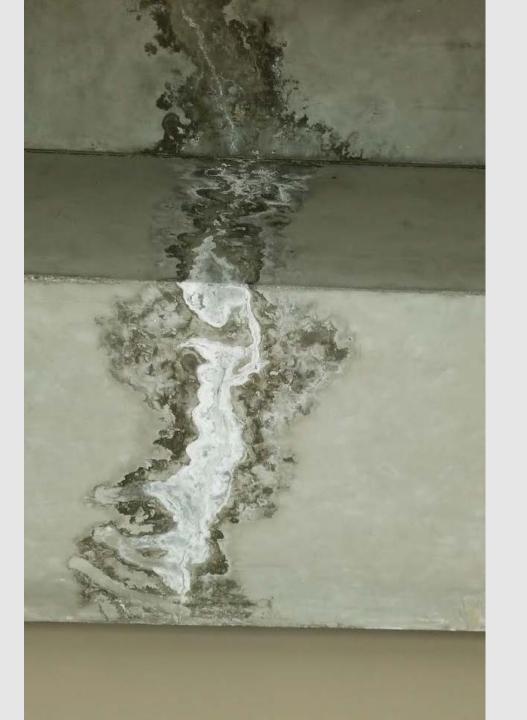


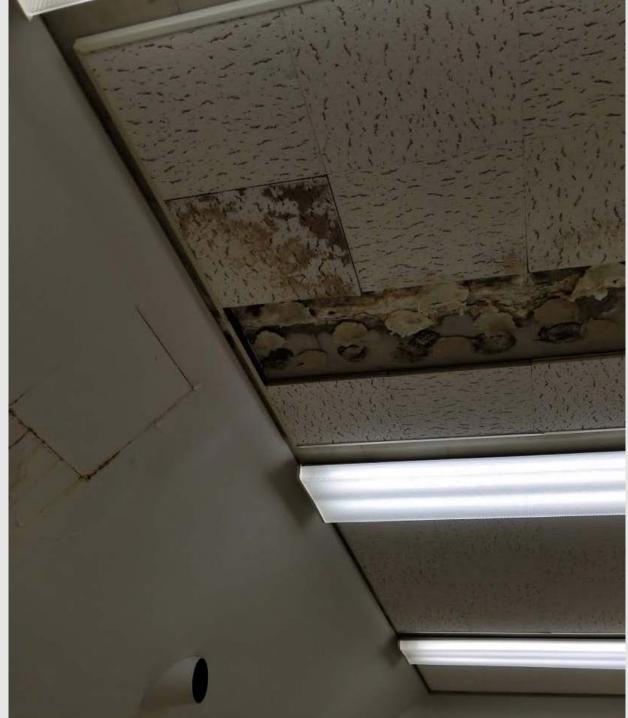


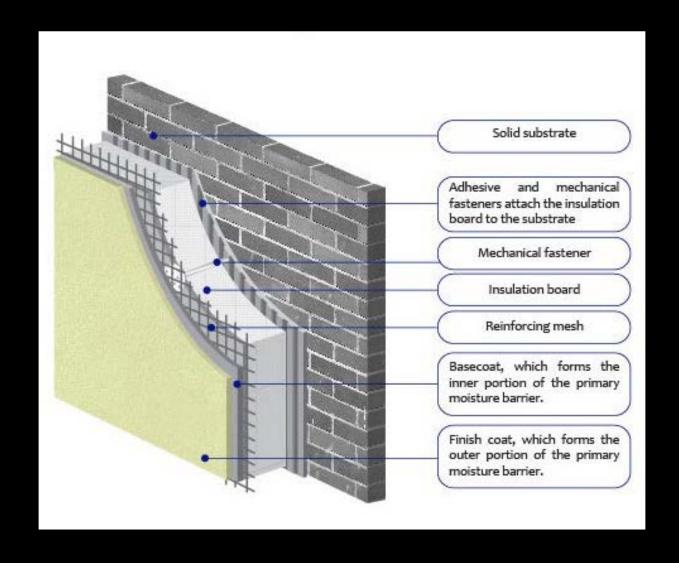












https://www.google.com/search?client=firefox-b-1-d&biw=1920&bih=966&tbm=isch&sa=1&ei=2vhzXPCRDcWIsQXZnIcw&q=wrapping+concrete+building+with+EIFS&oq=wrapping+concrete+building+with+EIFS&gs_l=img.3...77946.82264..82567...0.0..0.134.3205.31j5.....1....1...gws-wiz-img......35i39j0j0i67j0i5i30j0i8i30j0i24.c1iSrMcxo7c#imgrc=_gy779pByxFVsM:

























Brutalist Calendar 2024



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the_brutalist_ Bank House, Leeds, U.K

Designed by Building Design Partnership. Built 1969-71, listed Grade II. Building Design Partnership was conceived as the world's first interdisciplinary practice. Bank House, completed just 10 years later, is an exemplar of the firm's ambition to combine complex engineering solutions with its own designs. The building is square on plan and, at five storeys in height, adopts the form of an inverted ziggurat with a central light well penetrating the top two floors. It is of in-situ cast, reinforced concrete construction, clad in grey granite and bronze

Built: 1971

Photos: Simon Phipps

* No copyright infringement intended, to modify / remove please

#leeds #leedsleedsleeds #uk #england #bank #blackandwhite #blackandwhitephotography #monochrome #yorkshire #concrete #brutalist #brutalism #architecture #instadaily #instagood #photography #travelgram #travelphotography #europe #travel #explore #explorepage #streetphotography



solnechny_alexander 🏀 🏀 🐞



0

2w 1 like Reply







719 likes

July 7



Add a comment...

Postmodernism 1960-1990 ***30-60 years old***

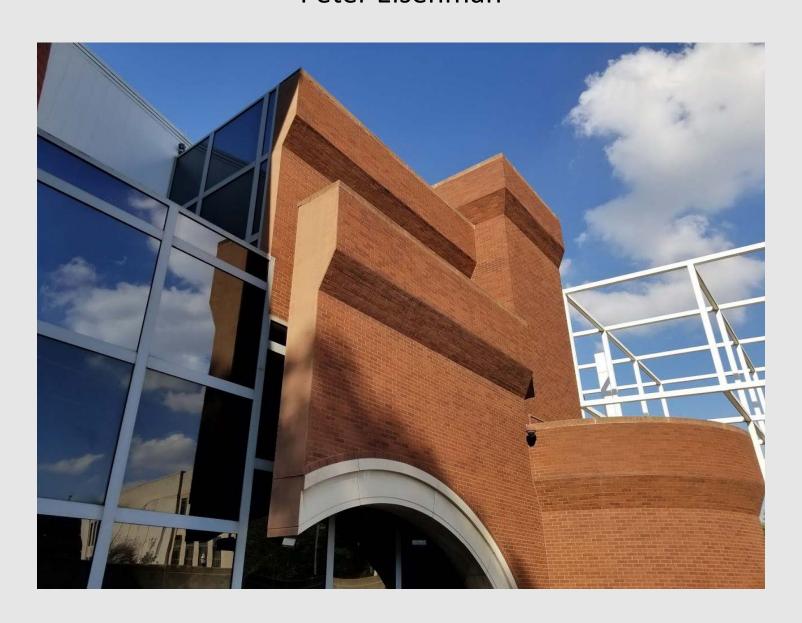




Water pumping station, Isle of Dogs, London, 1988 (John Outram) Reid and Peck / RIBA



Wexner Center for the Arts, 1989 Peter Eisenman





Every building is potentially immortal, but very few last half the life of a human.

- Stewart Brand

Arrhenius Equation

For every 10-degree K rise Activation Energy Doubles

$$k = Ae^{-E_a/(RT)}$$

Damage Functions:

- Water
- Heat
- UV Radiation

Joseph Lstiburek, Ph.D., P.Eng, ASHRAE Fellow

Building Science

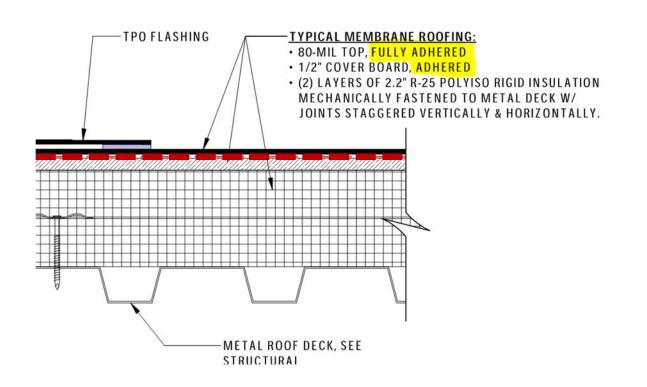
Adventures In Building Science

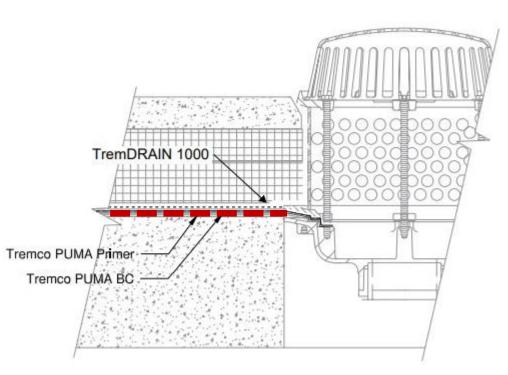
www.buildingscience.com

Single Ply v. Built Up

	Specified TPO Roofing	Other Single Ply	Modified Bitumen
Redundancy	Poor to Moderate	Poor to Moderate	Very Good
Construction	Good ¹	Good ²	Good
History	Poor	Moderate to Good	Good
Durability	Poor	Poor to Good ³	Very Good ⁴
Initial Cost	\$8 to \$10 per SF	\$9 to \$11 per SF	\$18-\$22 per SF
Warranty	15-25 years	15-25 years	20-35 years ⁵

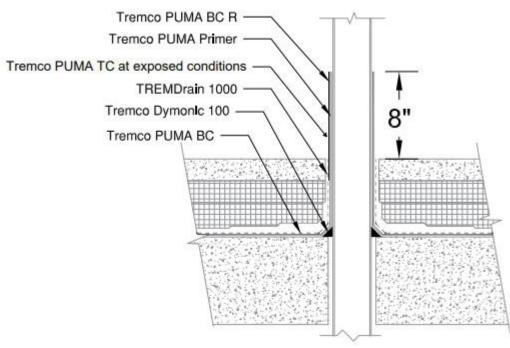
Typical Roofing v. IRMA





Texas Facilities Commission (TFC) Central Utility Plant (CUP) – Phase I Capitol Expansion

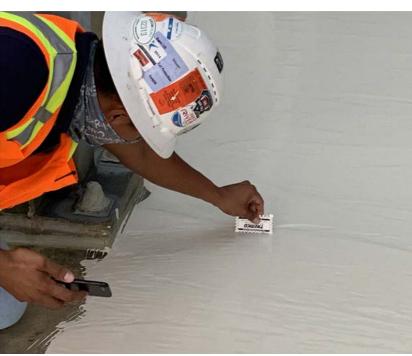


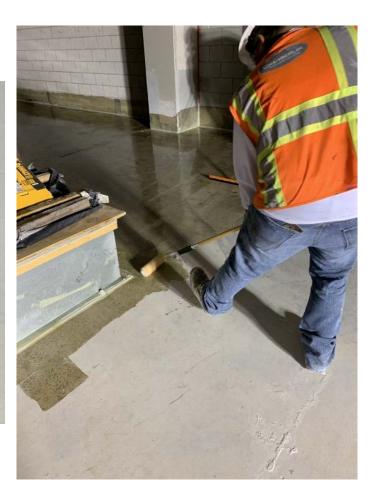


Texas Facilities Commission (TFC) Central Utility Plant (CUP) – Phase I Capitol Expansion:

PMMA/Cold Fluid-Applied Waterproofing





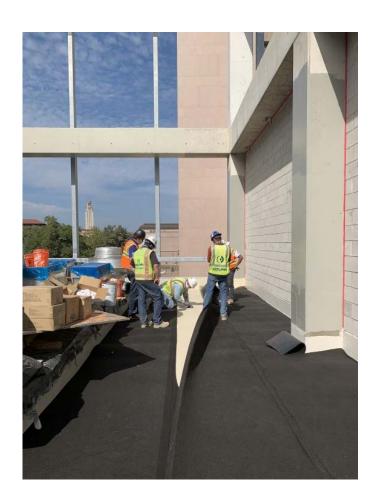


Texas Facilities Commission (TFC) Central Utility Plant (CUP) – Phase I Capitol Expansion:

Drainage Mat







Texas Facilities Commission (TFC) Central Utility Plant (CUP) – Phase I Capitol Expansion: **Rigid Insulation**



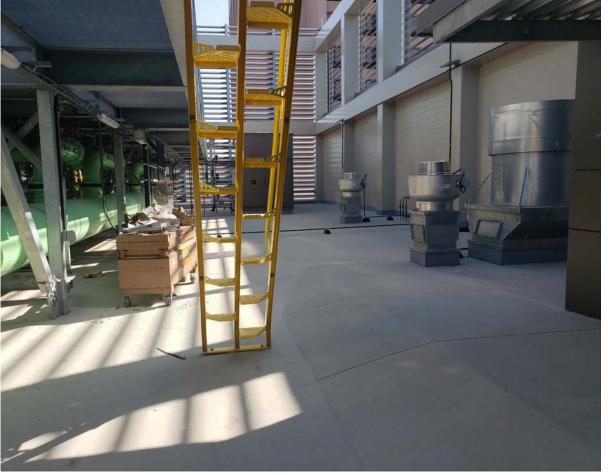


Texas Facilities Commission (TFC) Central Utility Plant (CUP) – Phase I Capitol Expansion:

Overburden





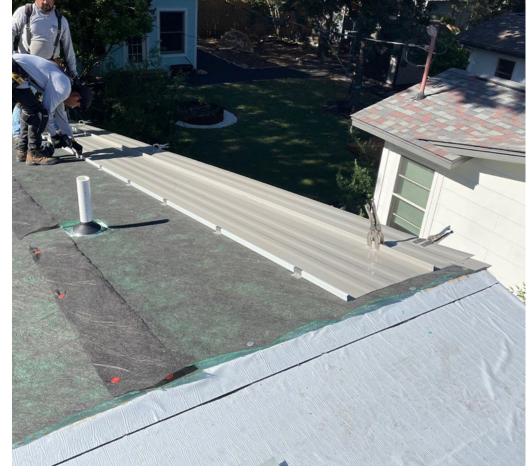








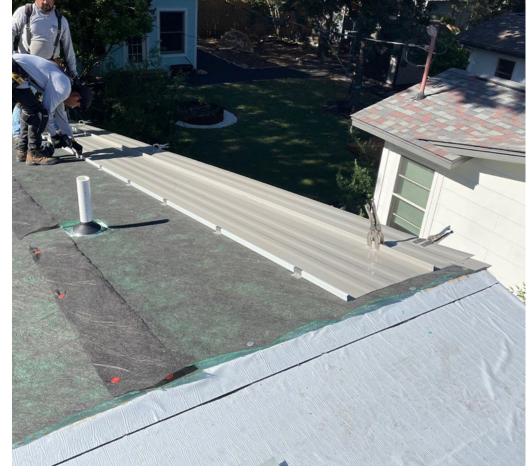












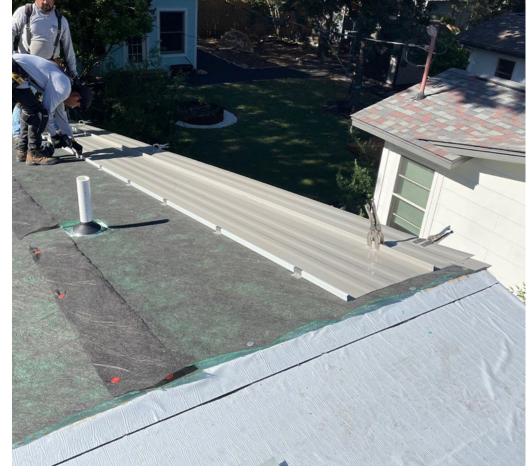








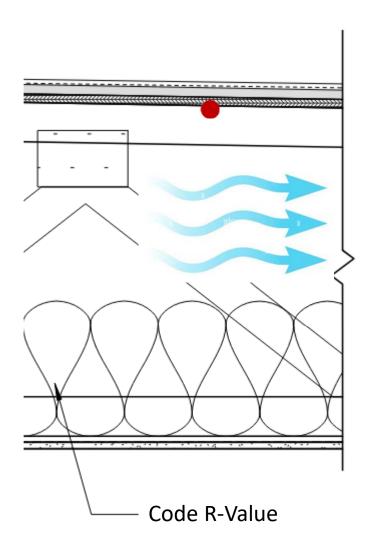








CZ 2A_Austin **Residential Roof** code min insulation levels: Relative Humidity (RH) at Plywood Deck – Interior Side



Case 1: "Base Case – Code Min"

 Metal Roof, Air Gap, Self-Adhered Underlayment, Plywood Deck, Vented Attic, R-38 Fiberglass, gypsum ceiling

Case 2:

R-25 polyiso above deck (best practice)

Case 3:

10" ocSPF below deck

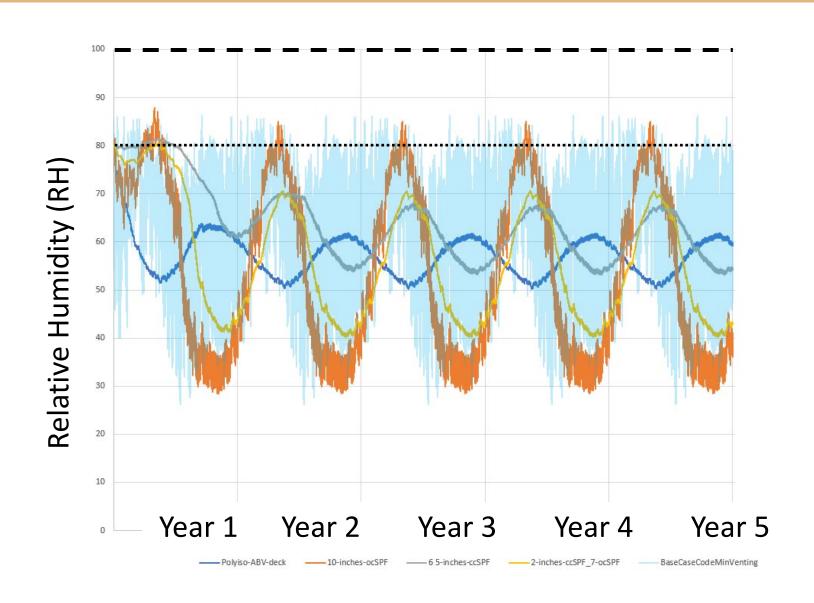
Case 4:

6.5-inches ccSPF below deck

Case 5:

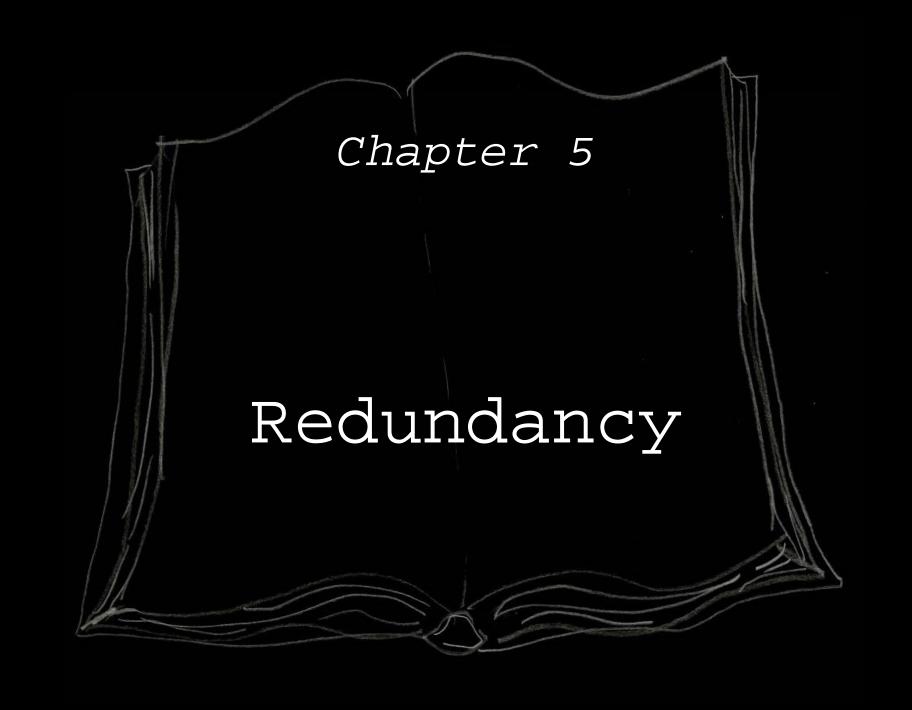
2-inches ccSPF and 7-inches ocSPF (what I did!)

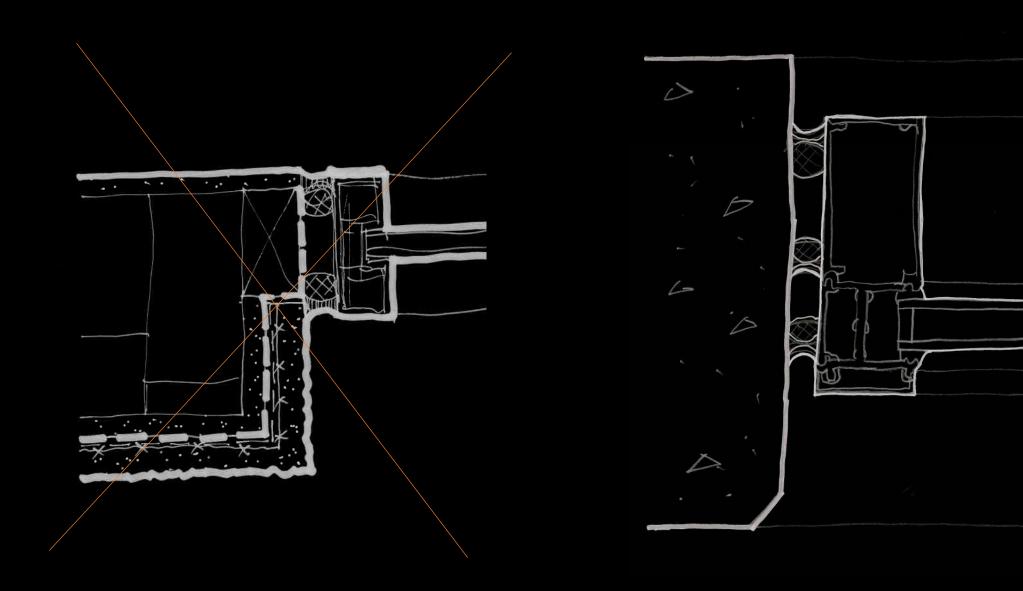
CZ 2A_Austin **Residential Roof**: Relative Humidity (RH) at Plywood Deck – Interior Side

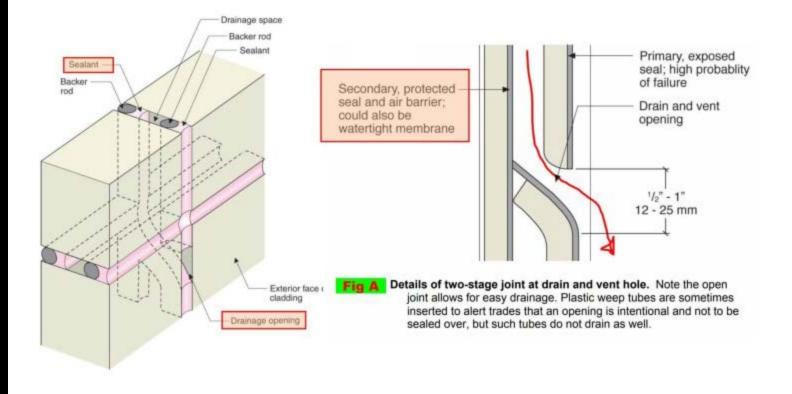


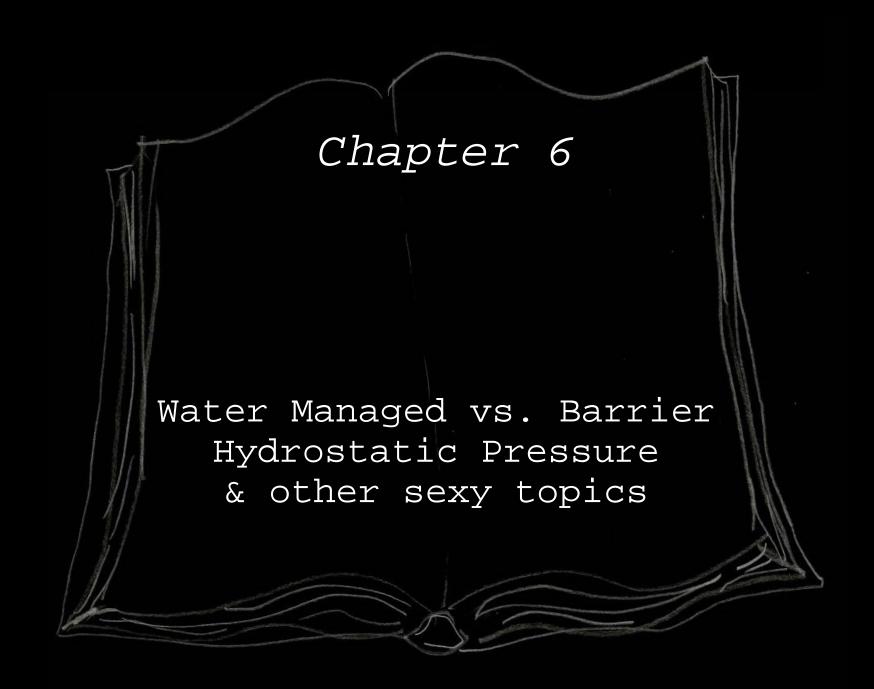
Vented roofs blow off more than unvented roofs. Vented roofs burn more than unvented roofs. Vented roofs are energy inefficient compared to unvented roofs. Vented roofs cause moisture problems south of the Mason-Dixon Line and east of Interstate 35 in Texas. Venting a roof in a hot-humid and mixed humid climate is a very, very bad idea.

- Joe Lstiburek, March 15, 2023 from *Shakespeare Does Roofs*

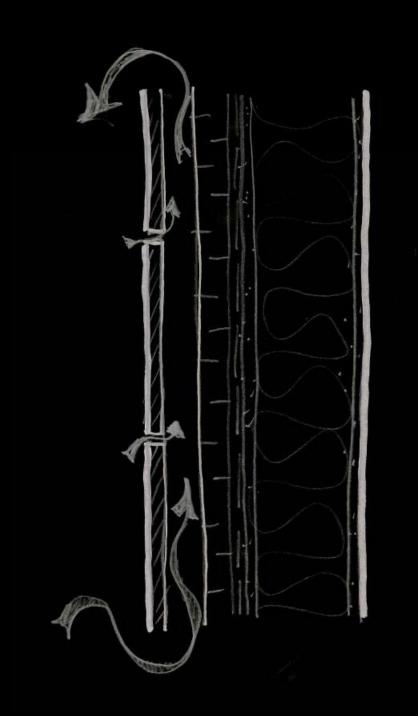








Clad Your Buildings in Garbage



Bohlin Cywinski Jackson





Auburn Rural Studio

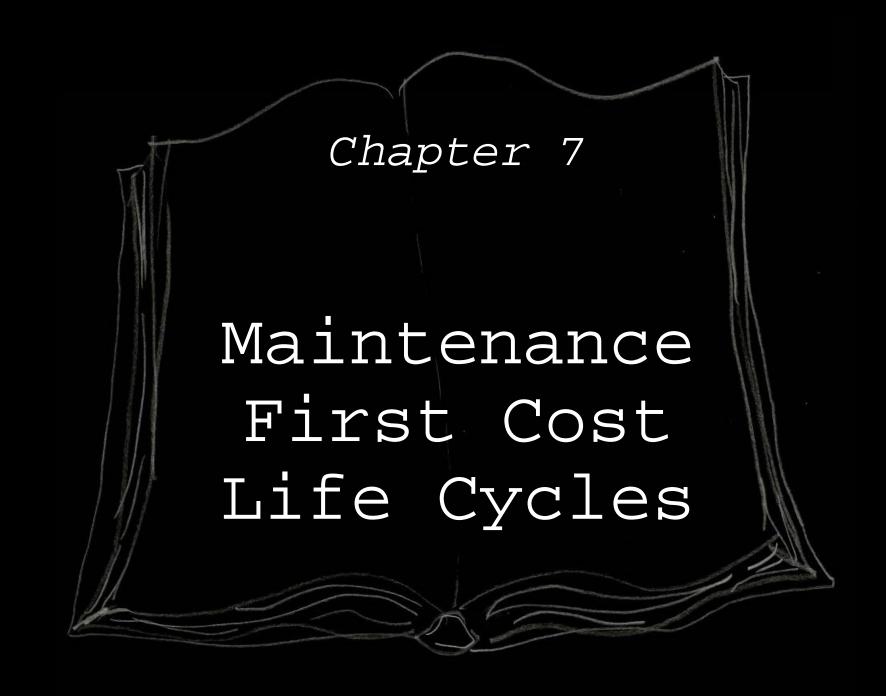






Trinity White Architecture

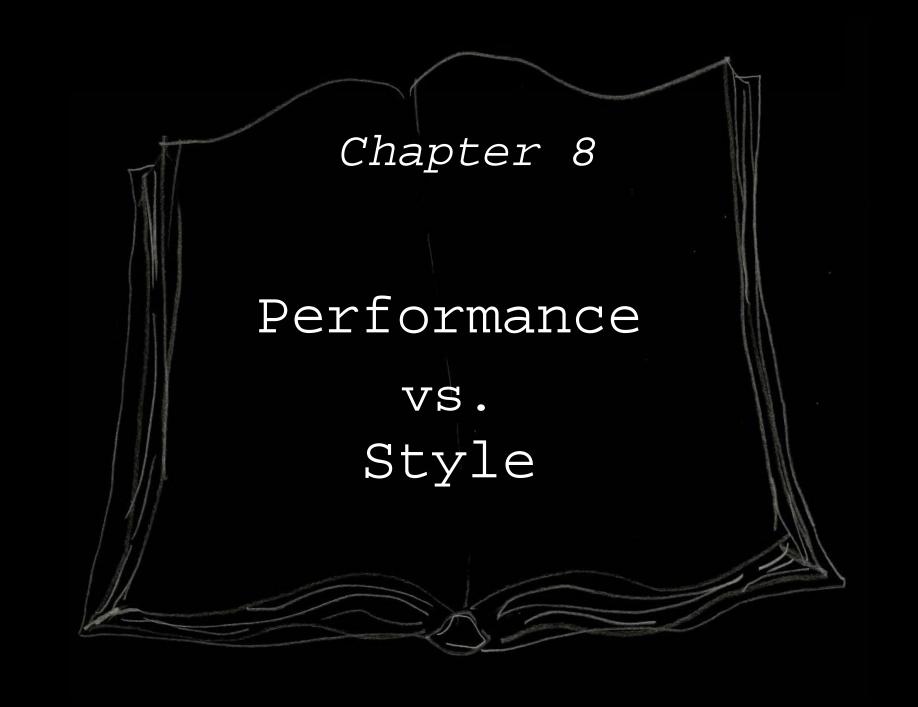




The Multifamily Irony







The Polyester of Brick

- John Waters

























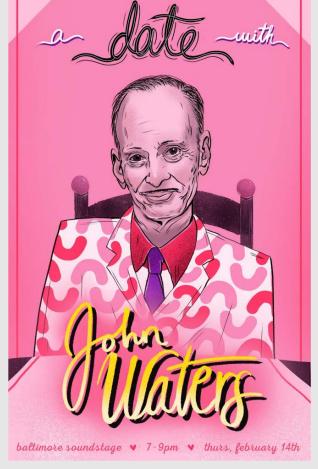


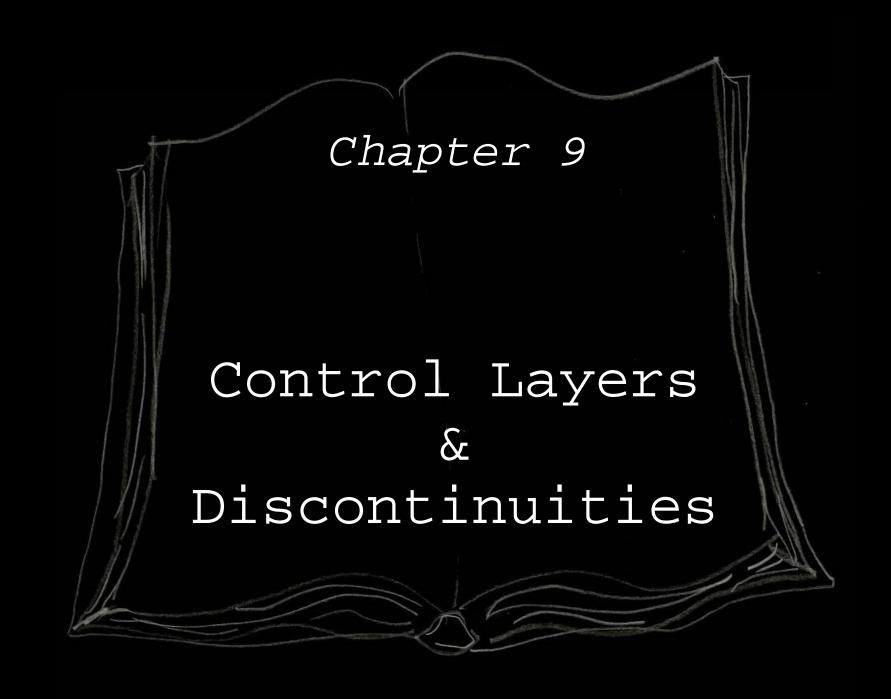












Thermal-bridge Free

• $\Psi \leq 0.006$ BTU/ hr. ft °F







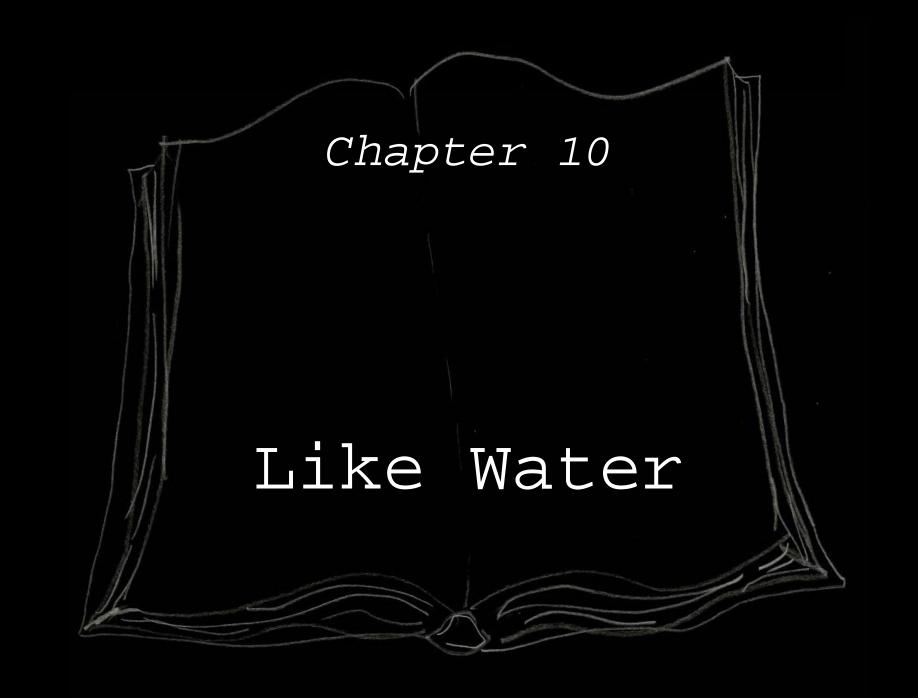




How to design a 1000-year building

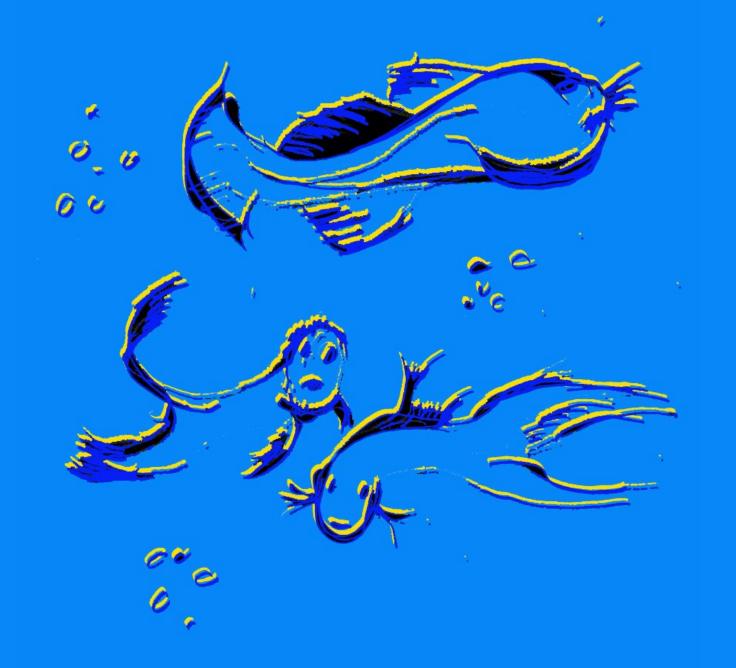
(really just design a 100-year building that performs really well)

- 1. Prioritize Performance (stop caring about style!)
- 2. Protect Structure, Overbuild Structure
- 3. Leave plenty of room for services capacity
- 4. Provide lots of storage
- 5. Invest less in finishes and more in structure, maintenance
- 6. Design for future change, adaptability

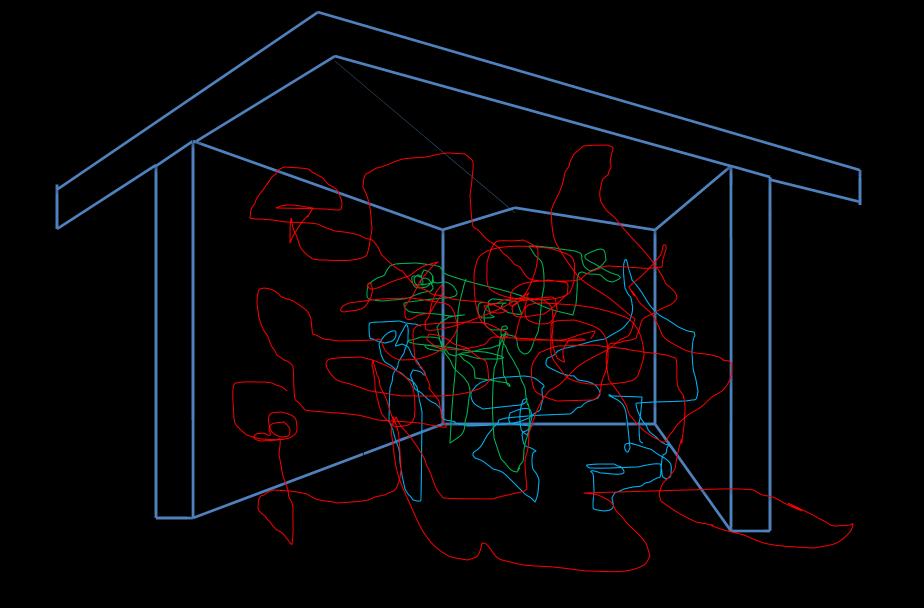


This is Water

- David Foster Wallace







Keith A. Simon

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