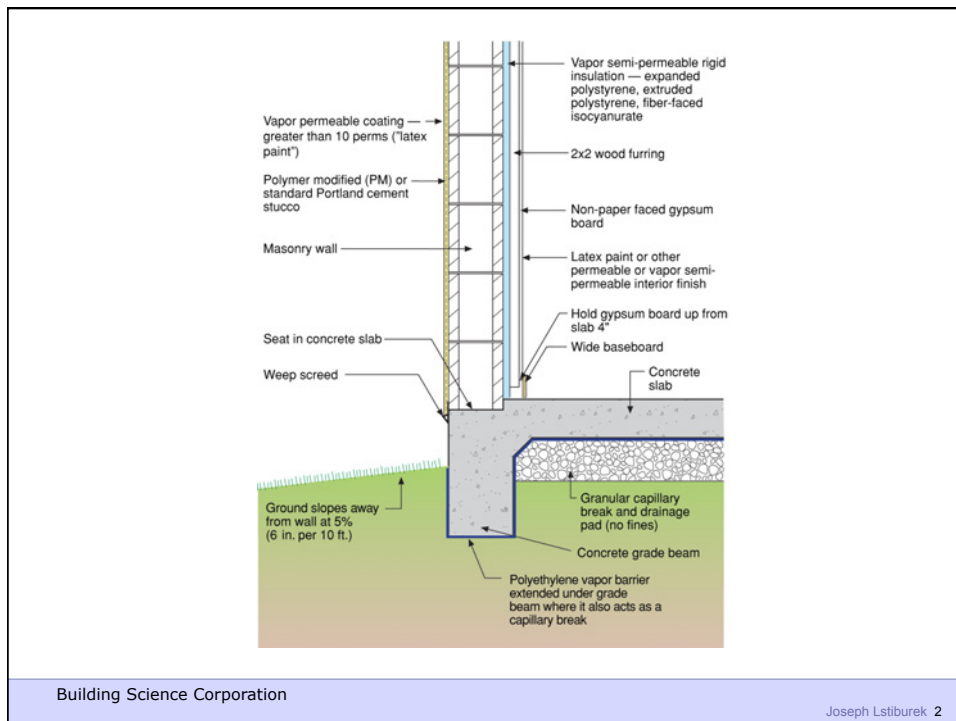


Joseph Lstiburek, Ph.D., P.Eng, ASHRAE Fellow

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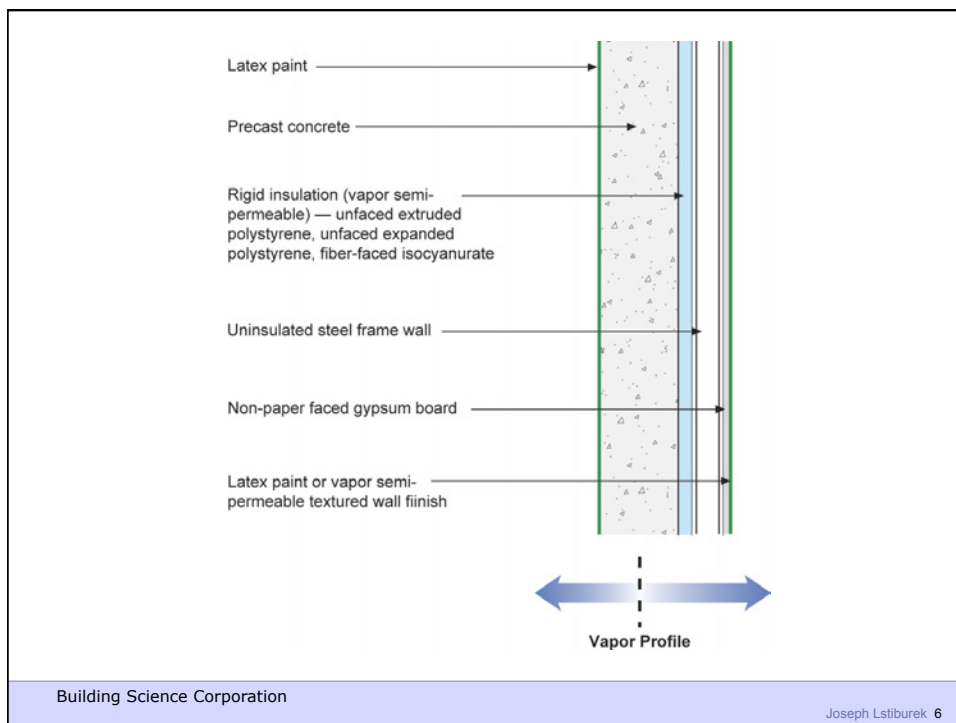
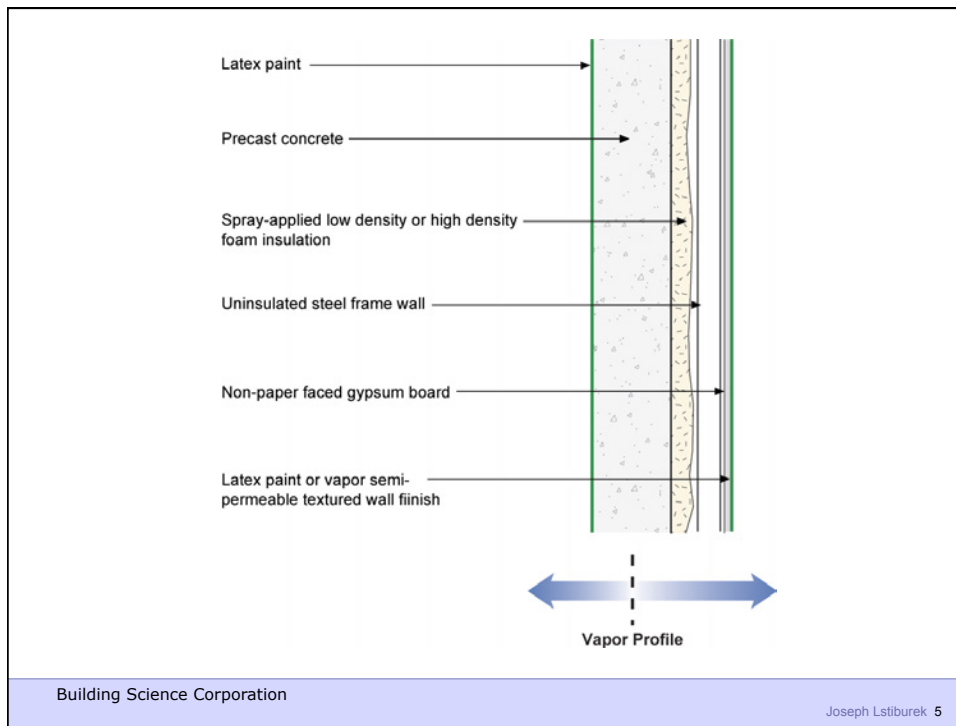
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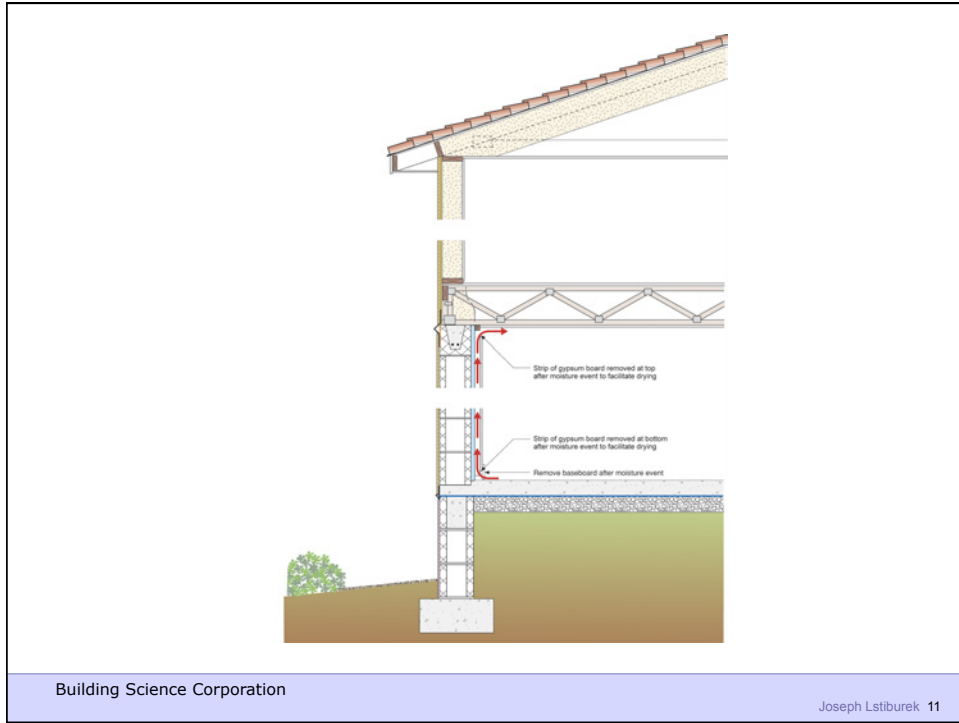
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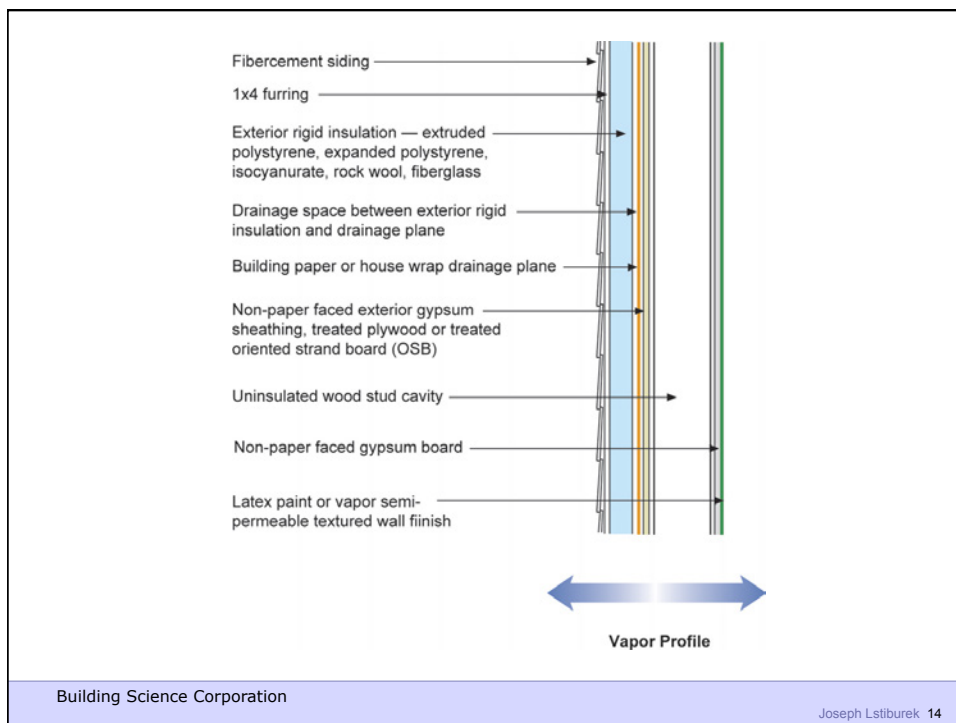
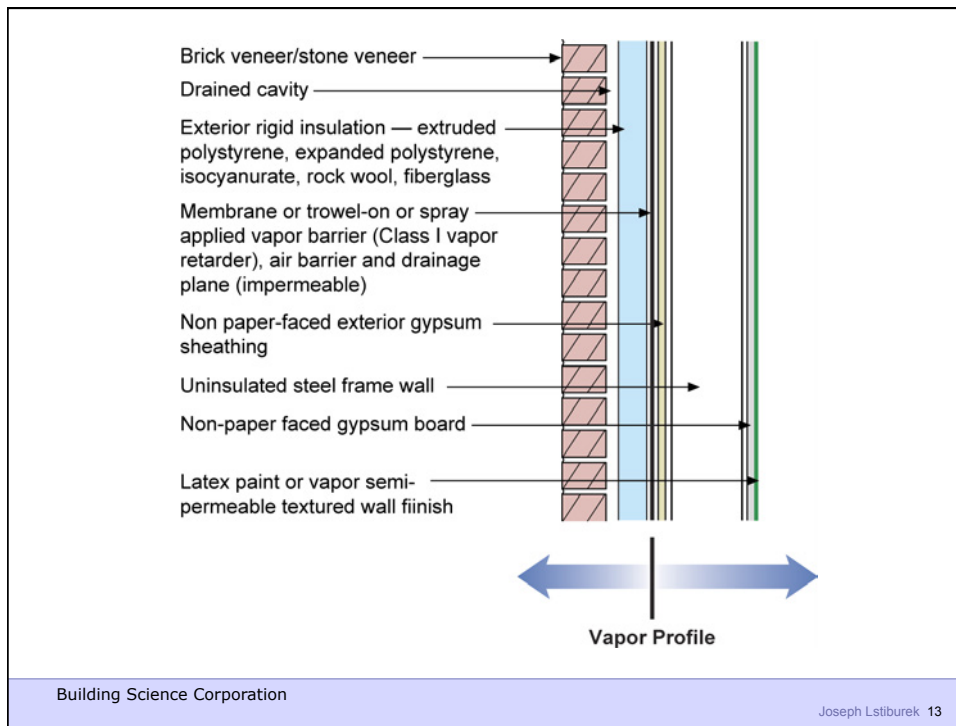
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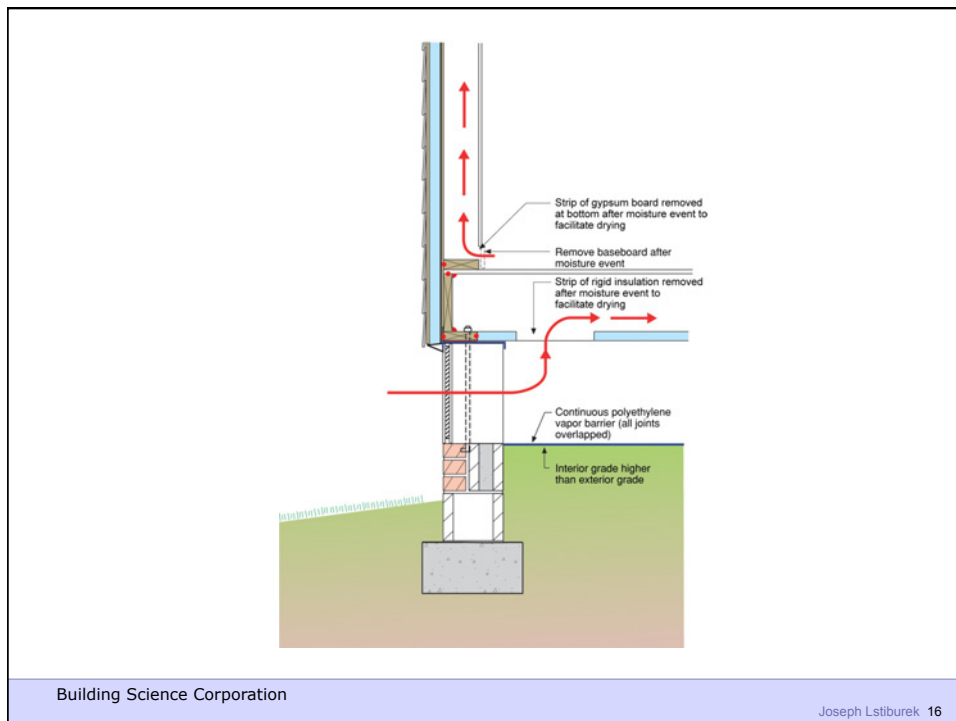
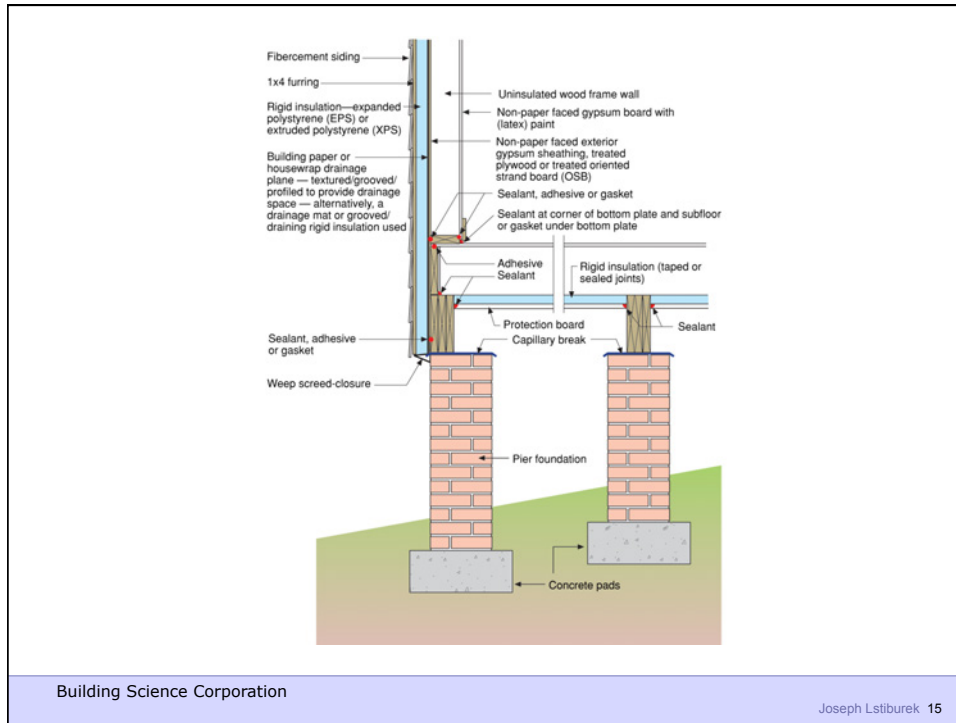


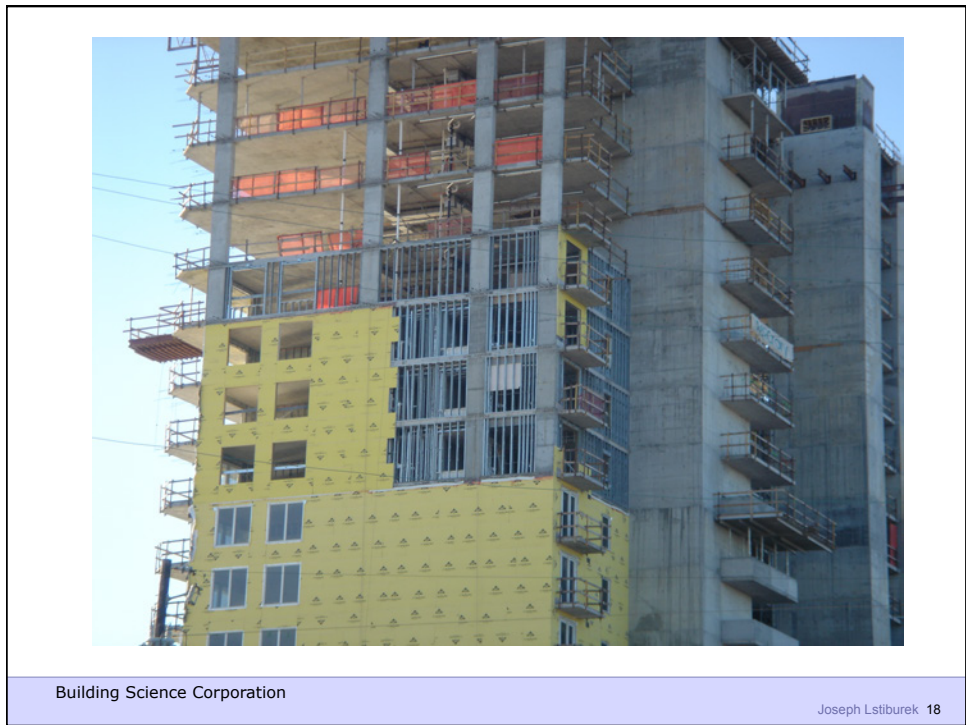
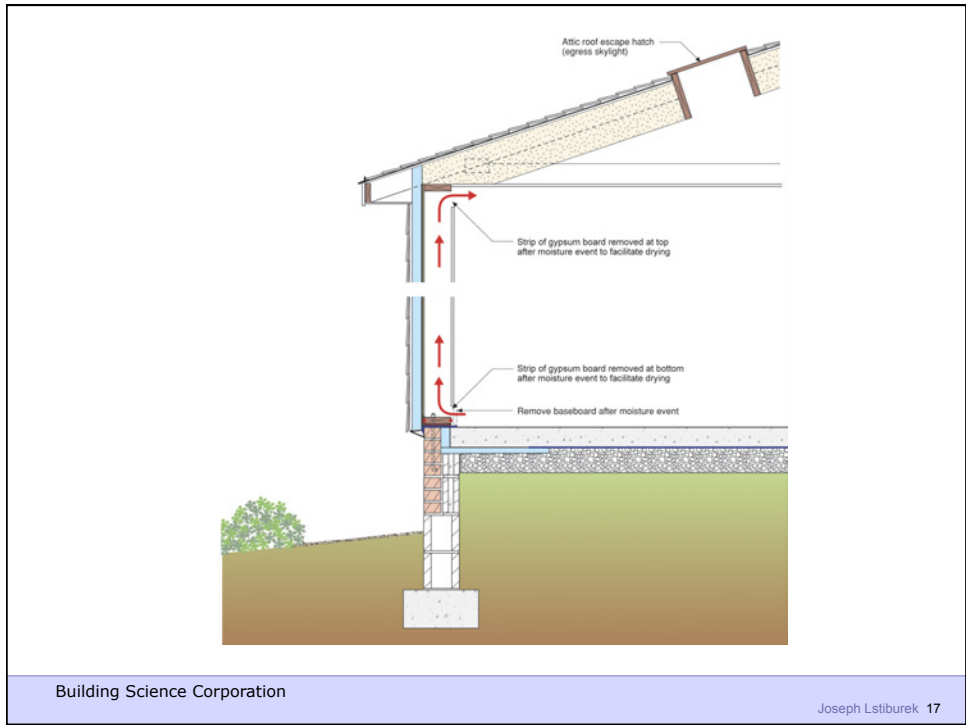
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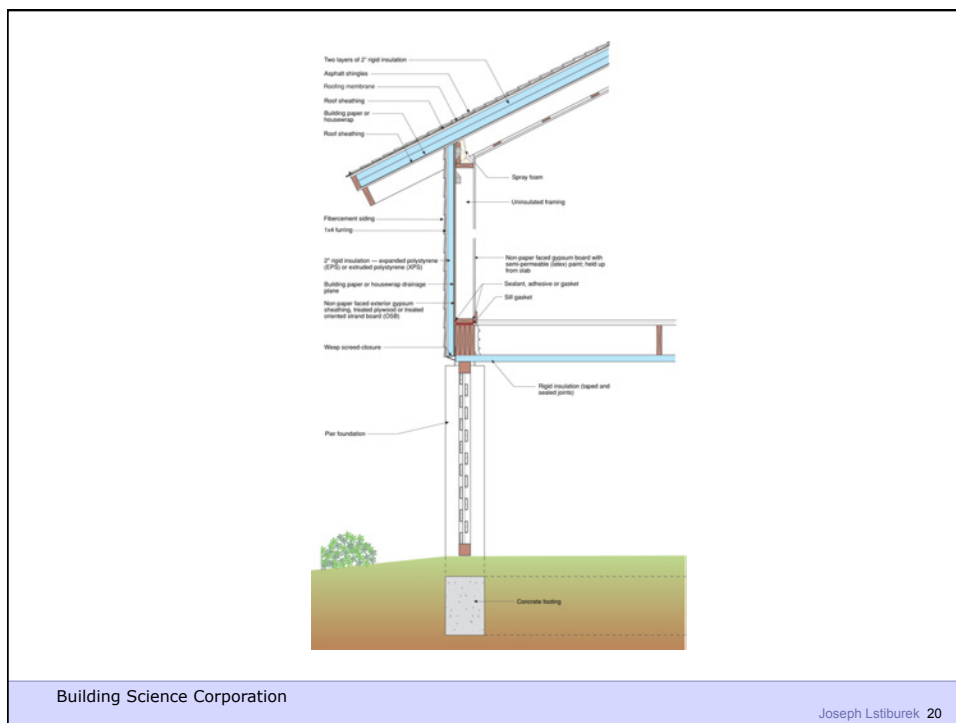
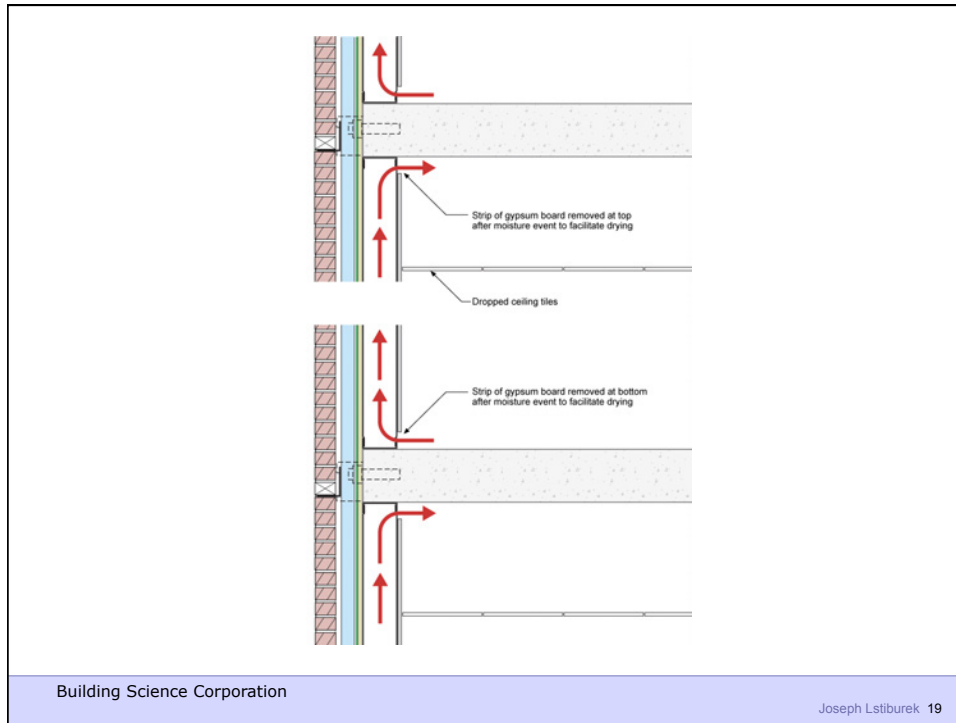
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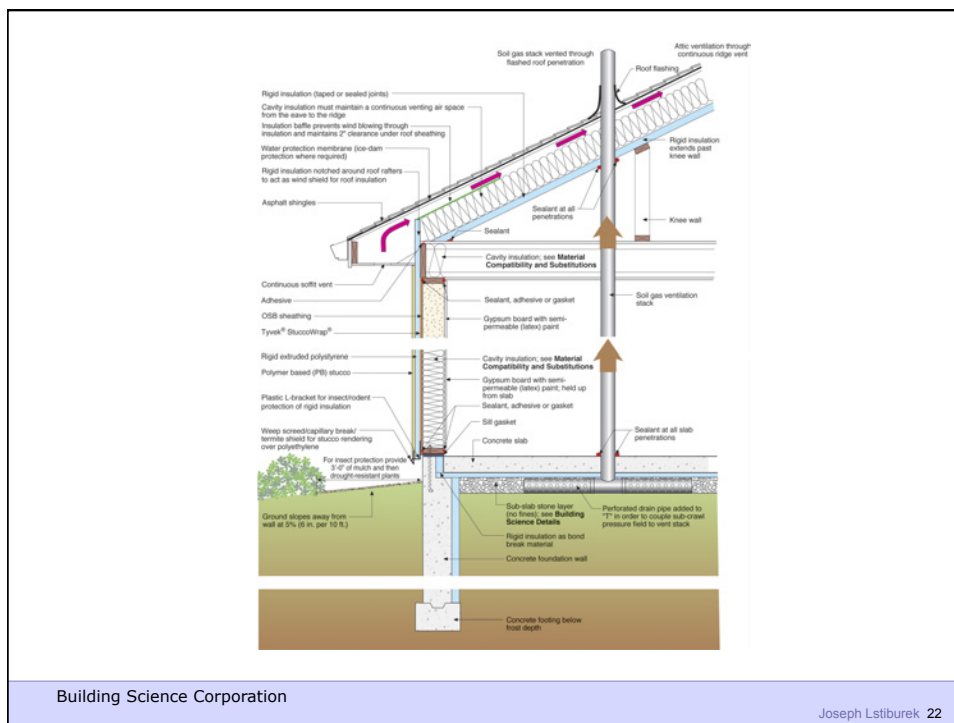
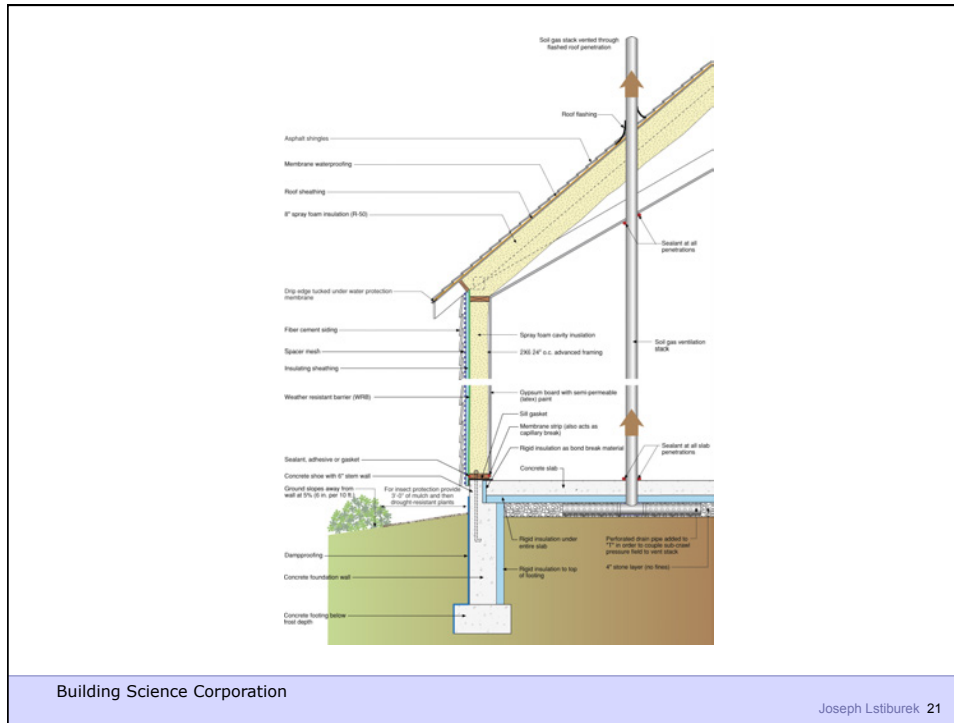


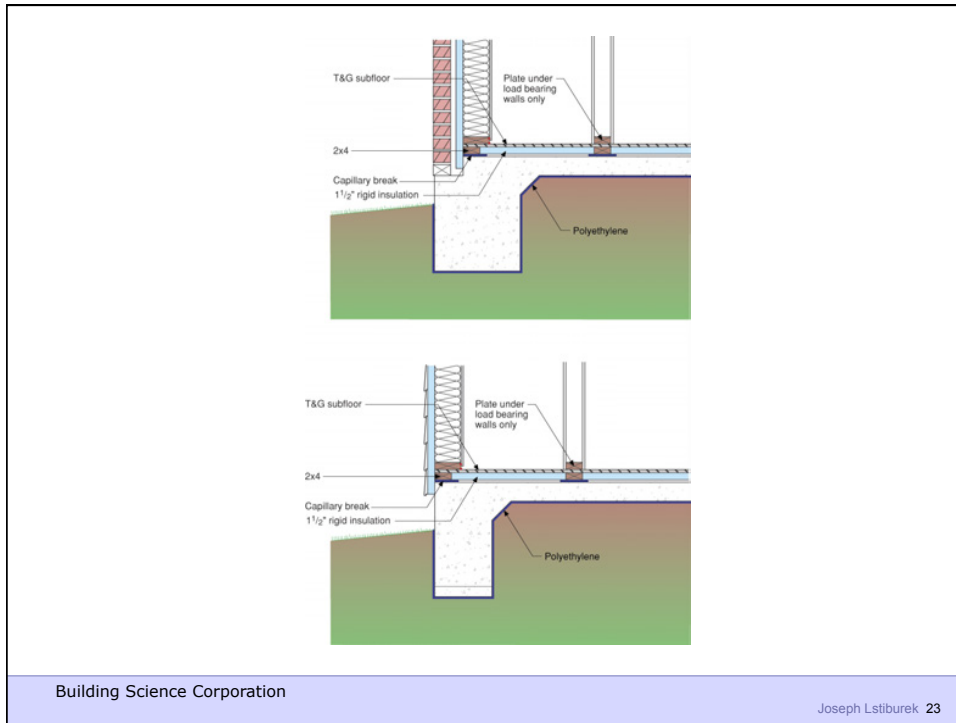












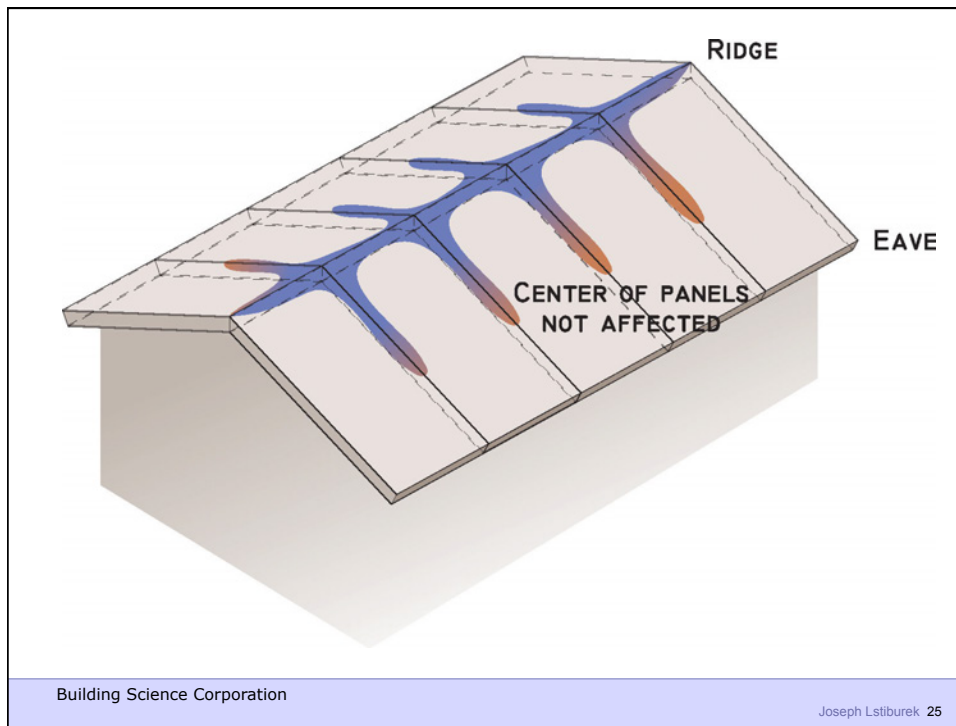


Figure 1

- Remove strip of OSB from each side of ridge

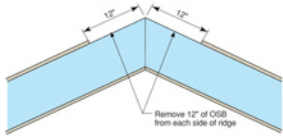


Figure 2

- Create air seal with strip of Tyvek® (tape seams of Tyvek®)
- Hold Tyvek® sheet in place with metal strapping

Tyvek® sheet sealed to OSB with acrylic caulk sealant

Metal strap nailed over top of Tyvek® sheet (acting as pressure bar)

Continuous bead of sealant between OSB and Tyvek® sheet

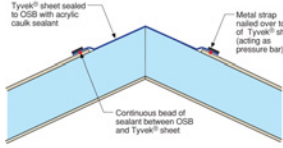
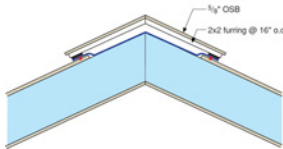


Figure 3

- Construct wood ridge vent with 2x2 furring
- Use Cobra® Ridge Vent roll mesh at edges of vent to control insect entry

1/4" OSB

2x2 furring @ 16" o.c.



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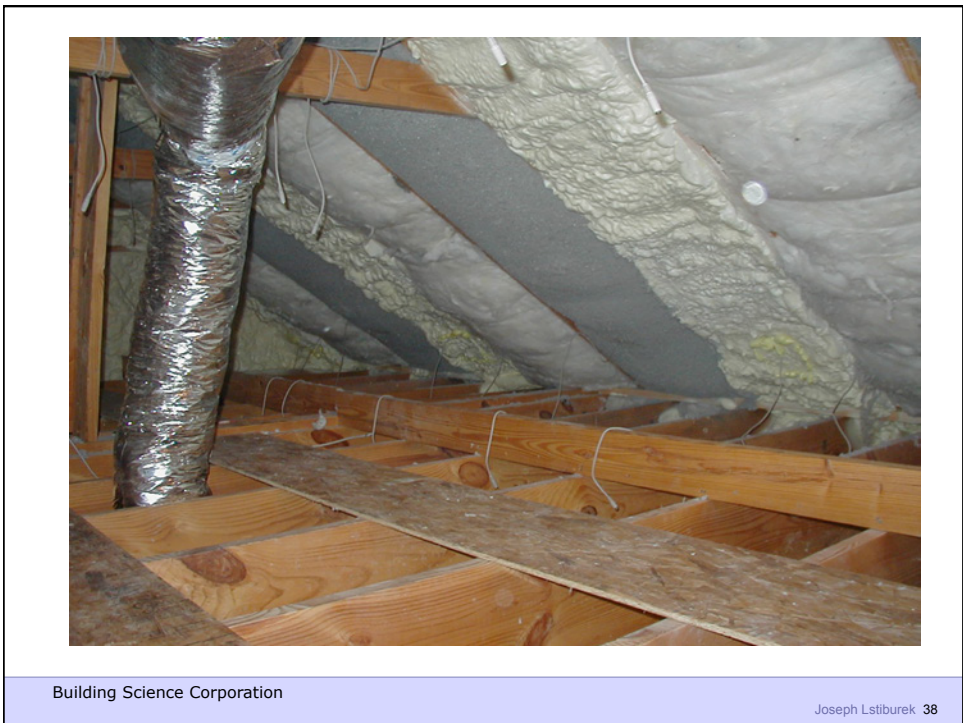
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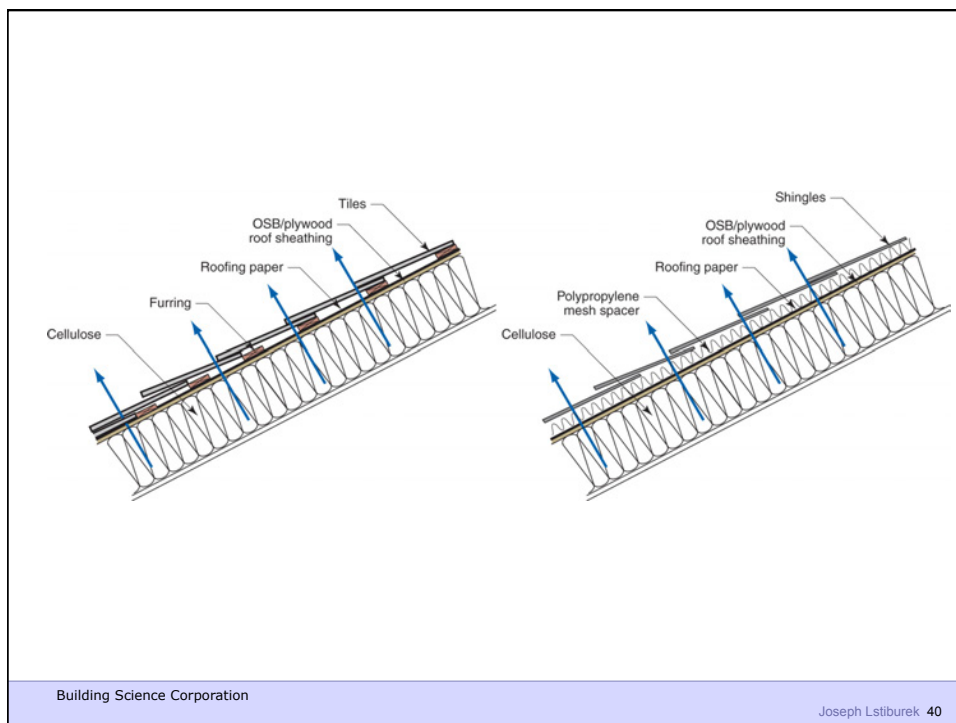
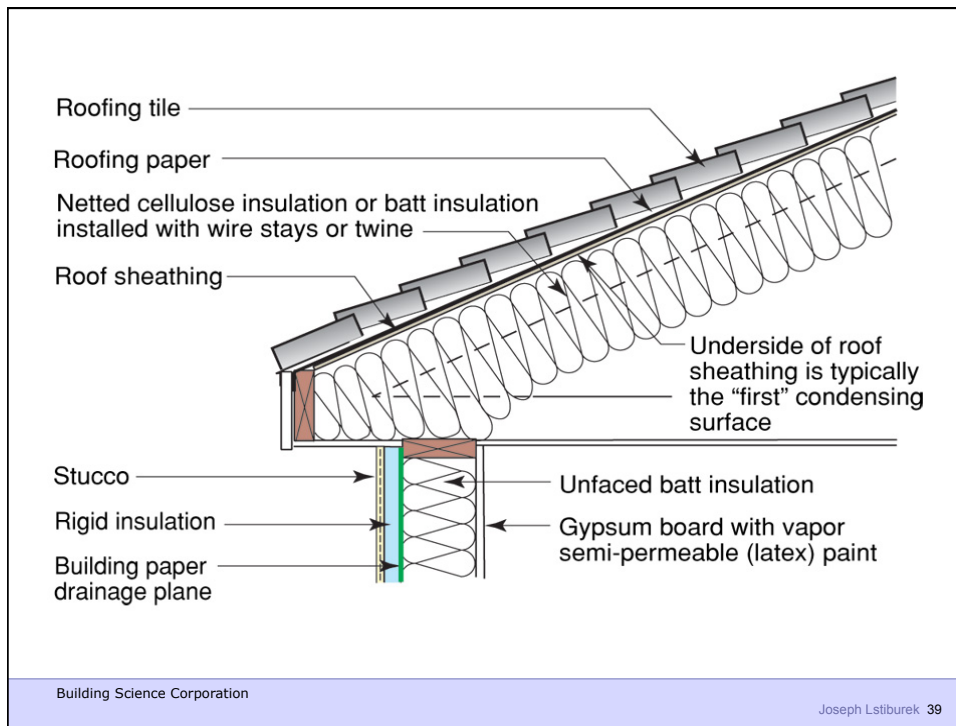
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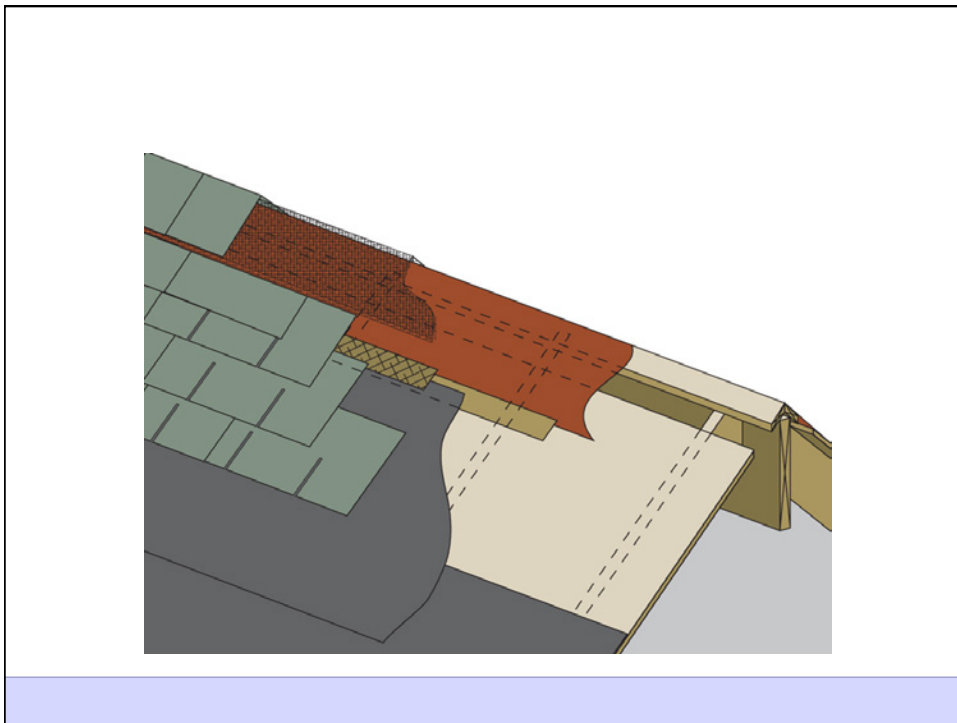
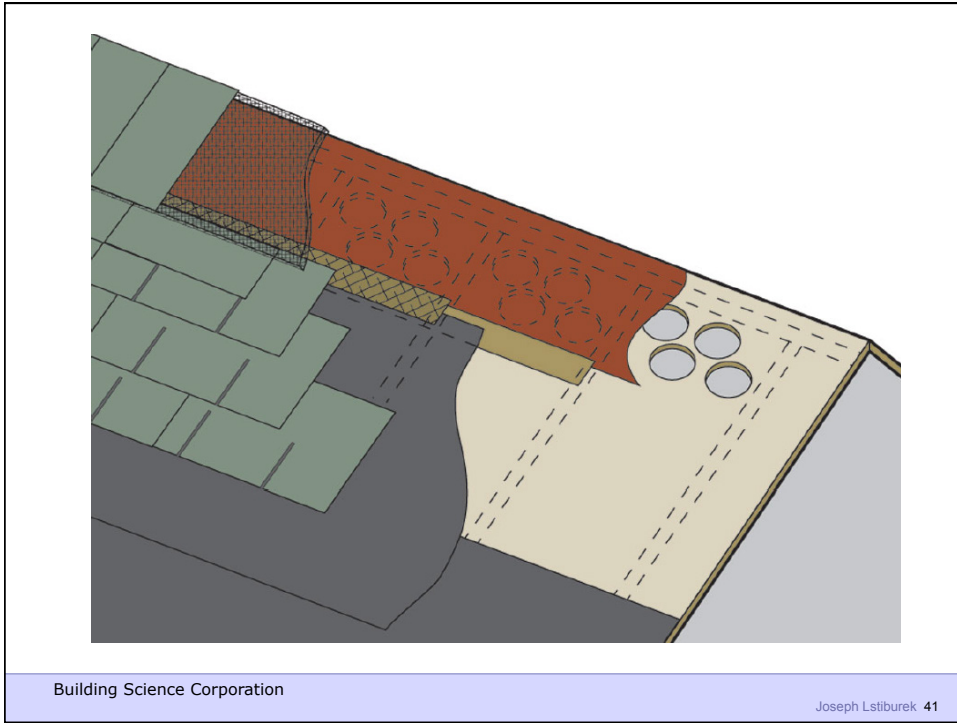


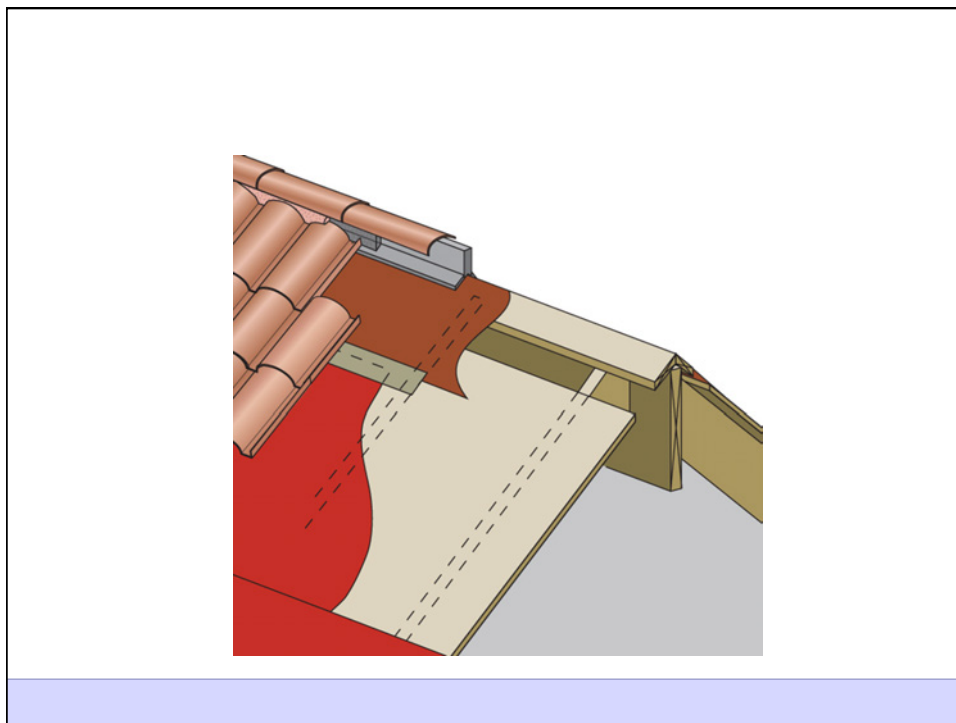
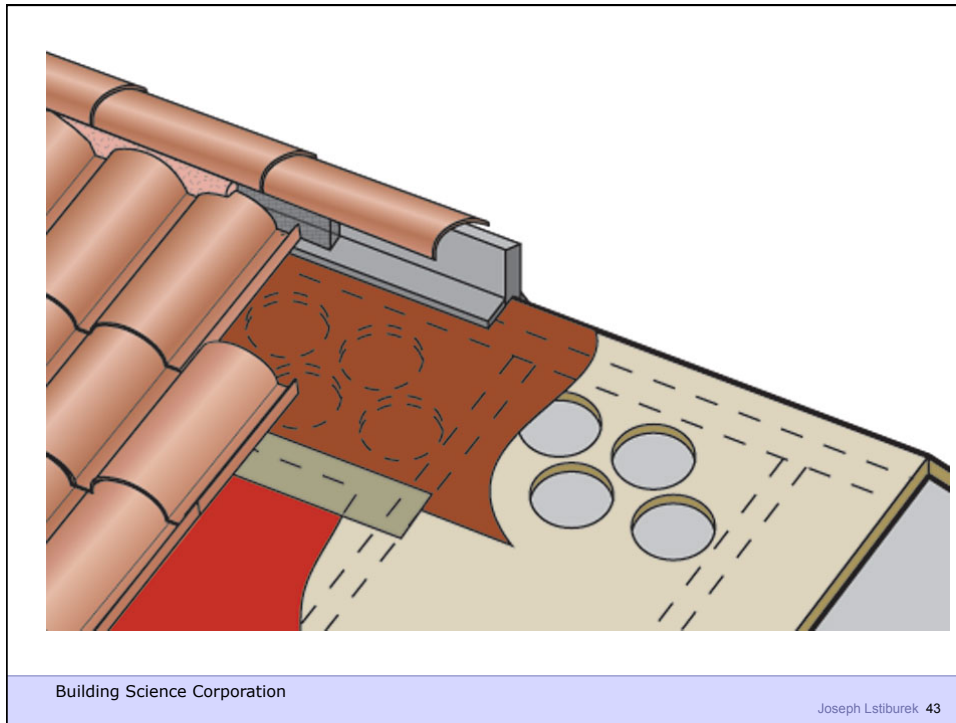
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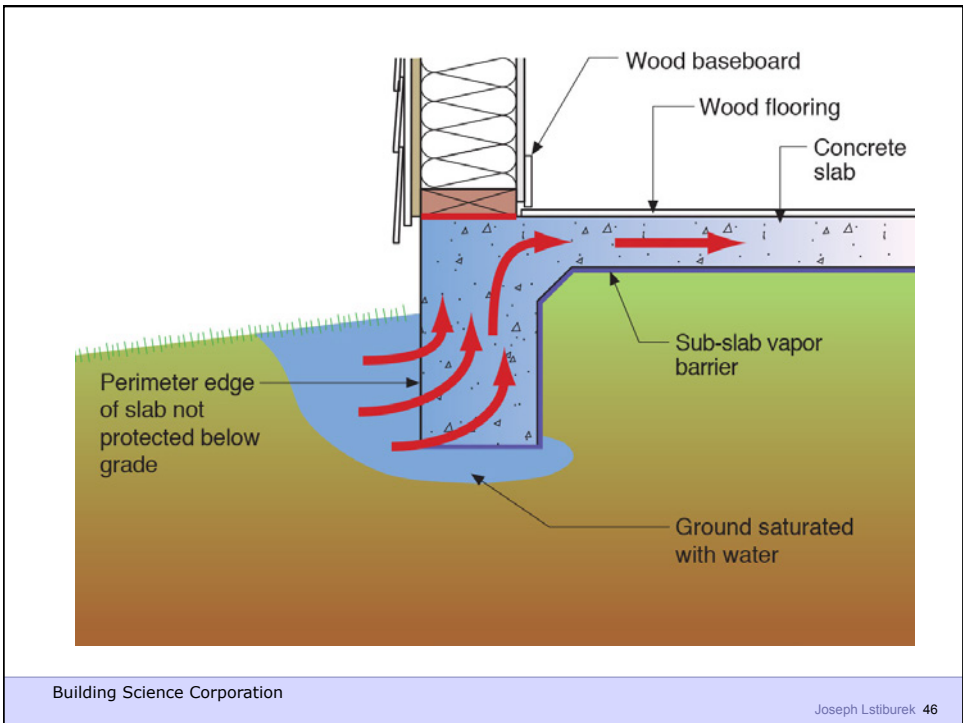
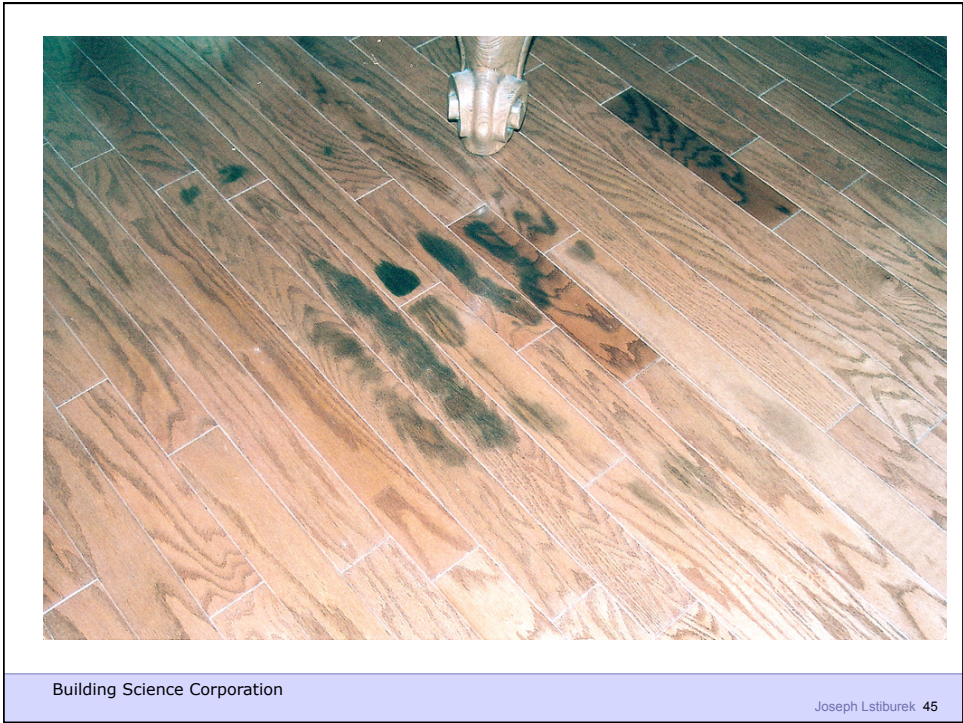
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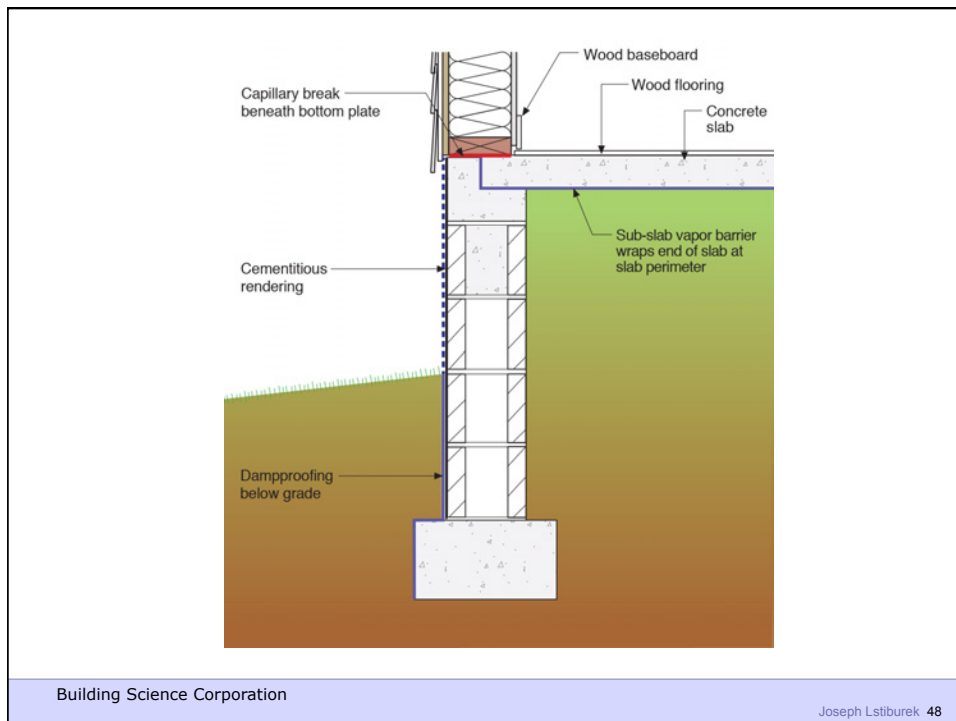
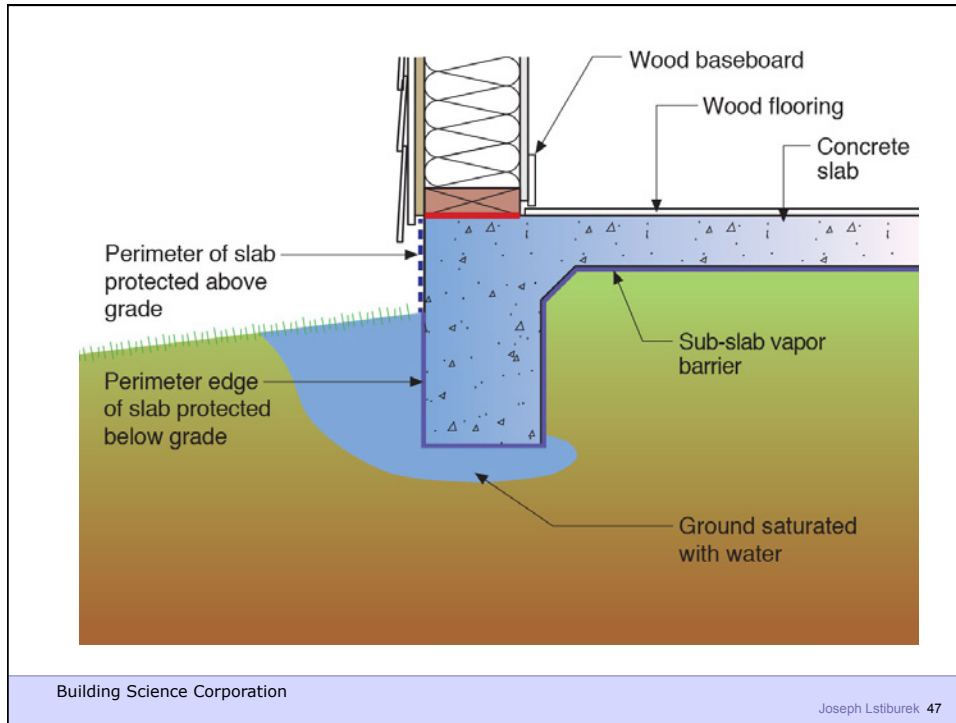


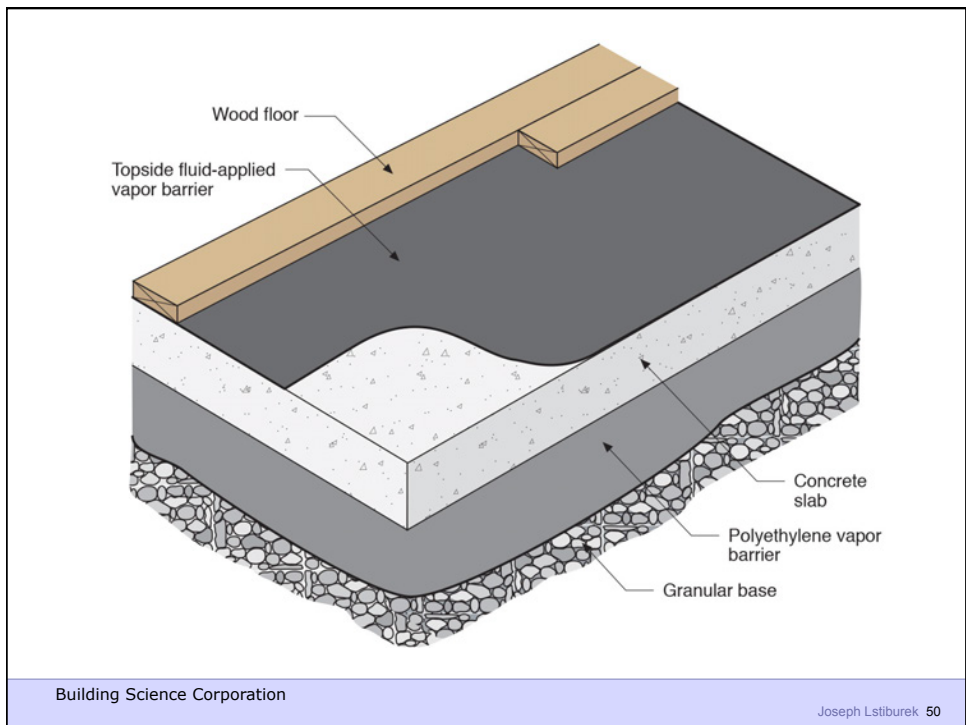
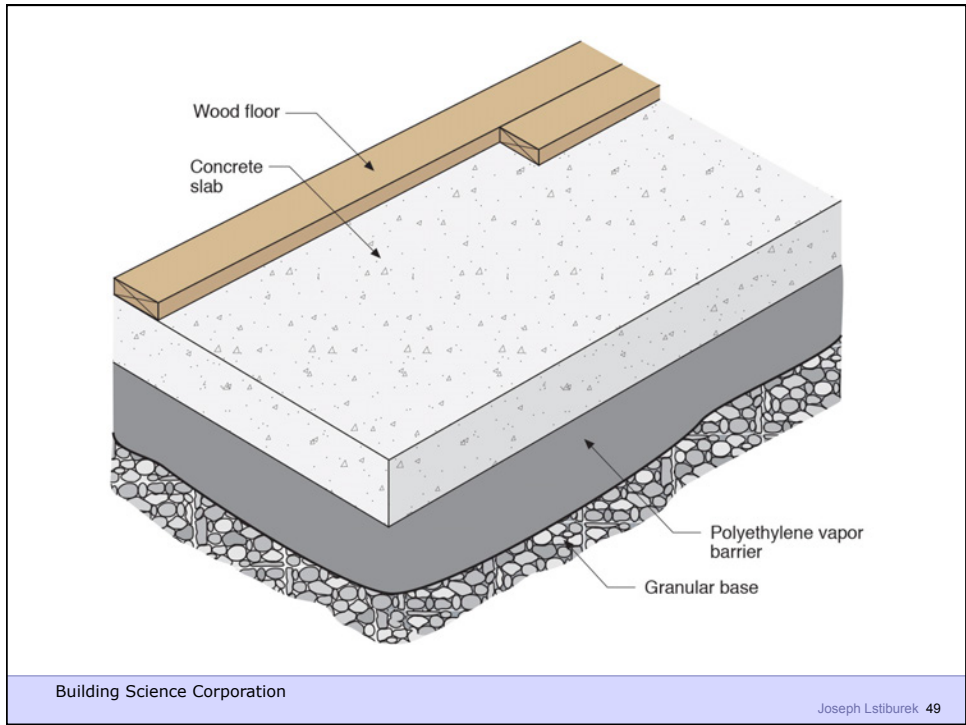


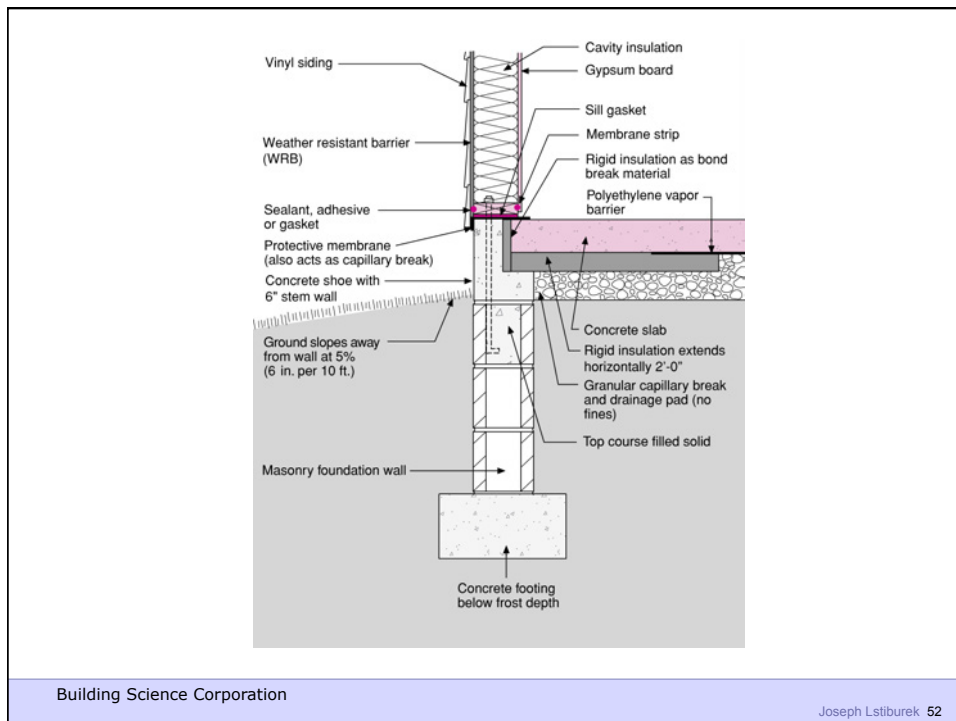
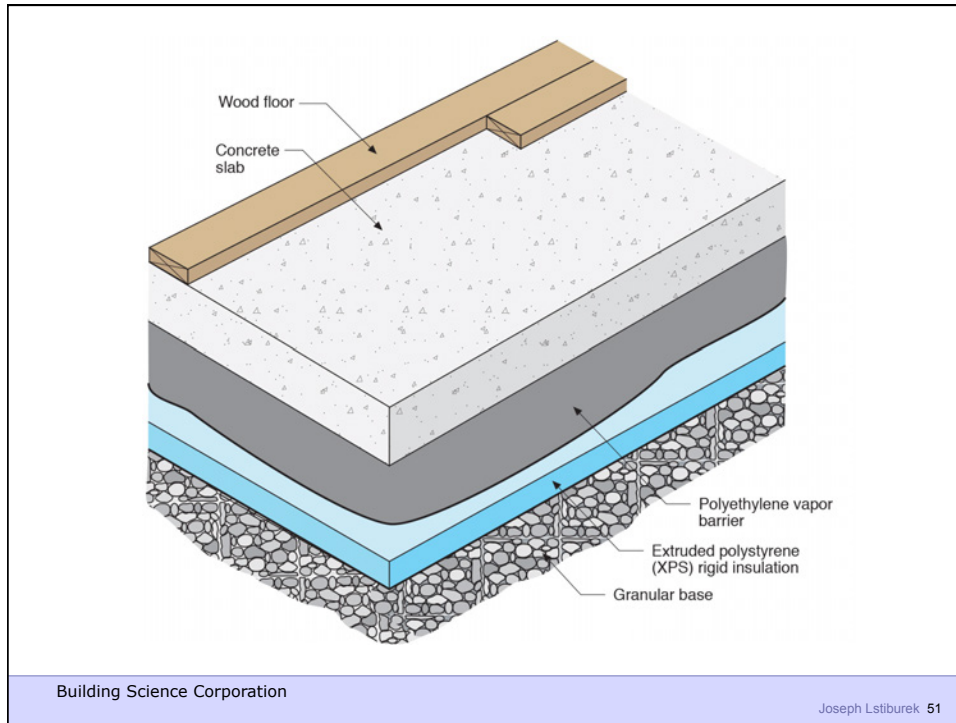


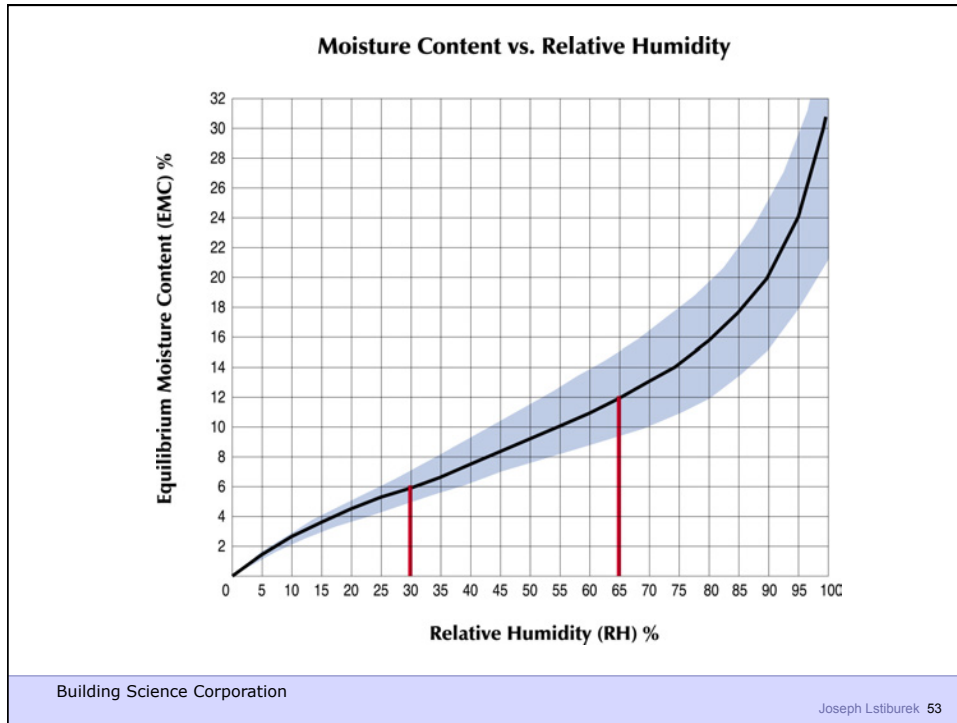














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Plain

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Hollow Back

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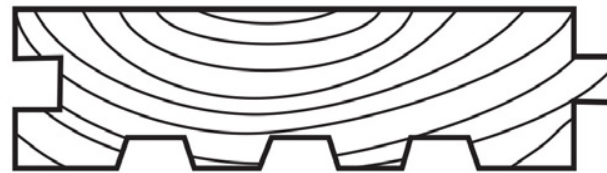
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Hollow or Scratch Back

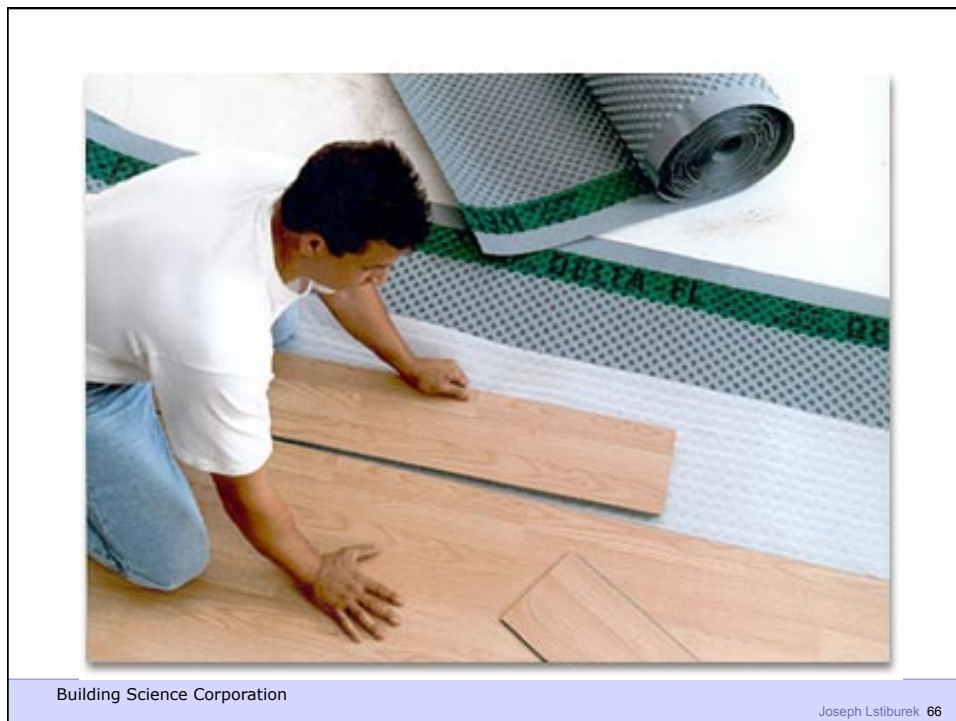
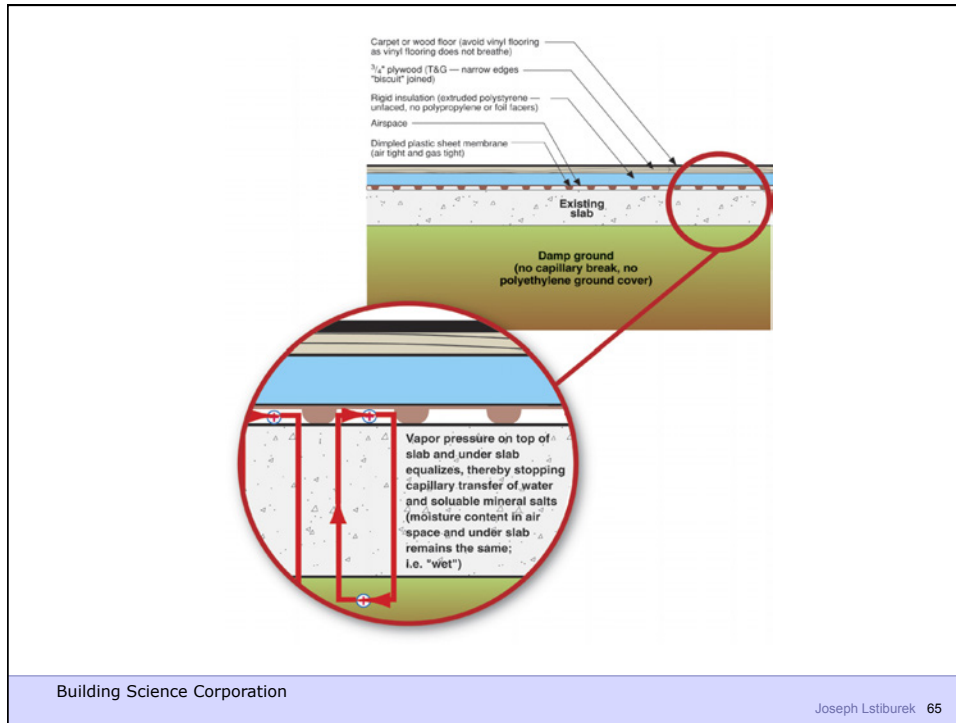
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Hollow or Scratch Back







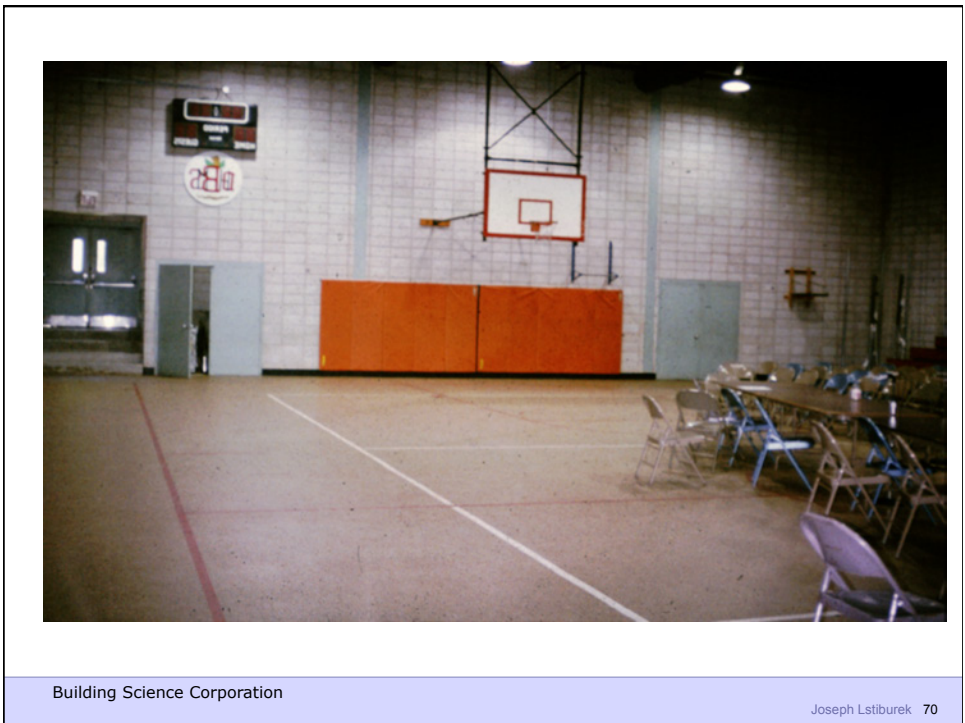
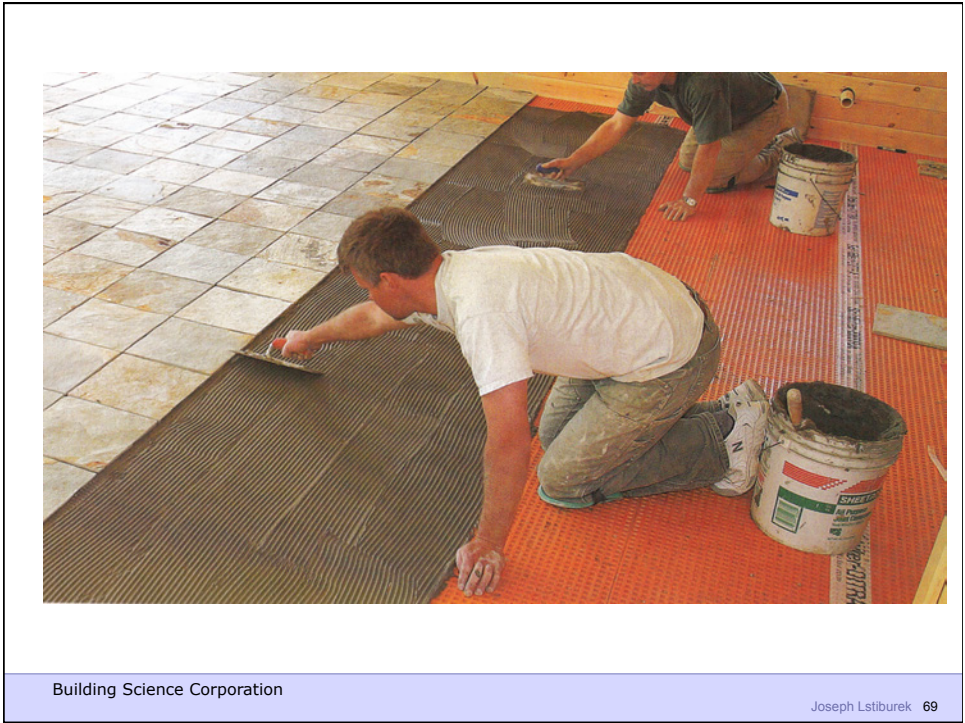
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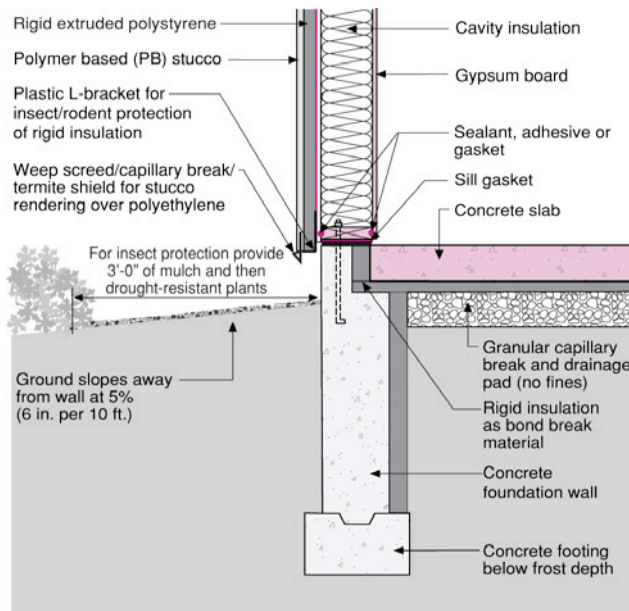
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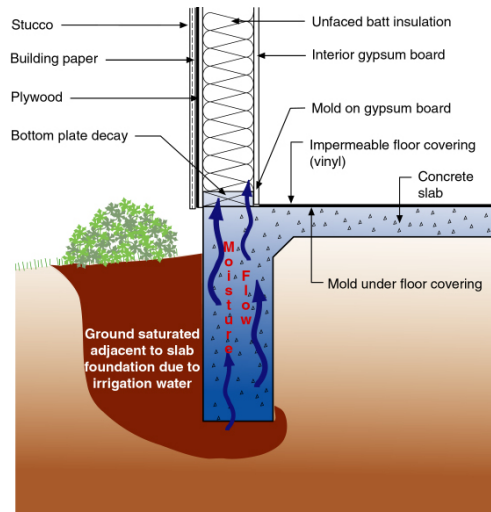
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Capillary Moisture Flow



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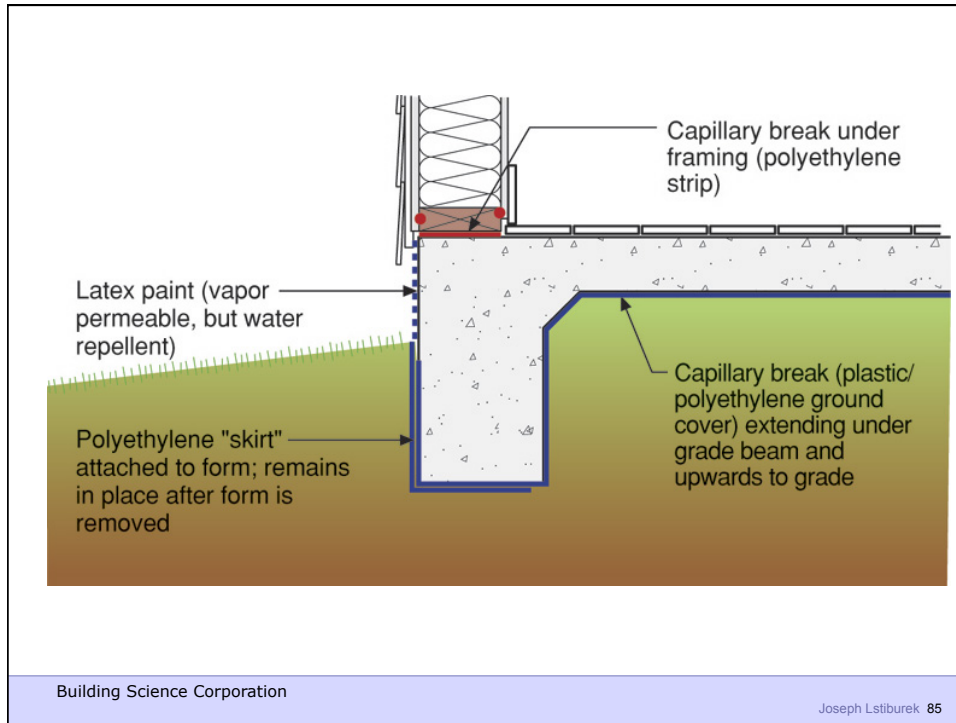
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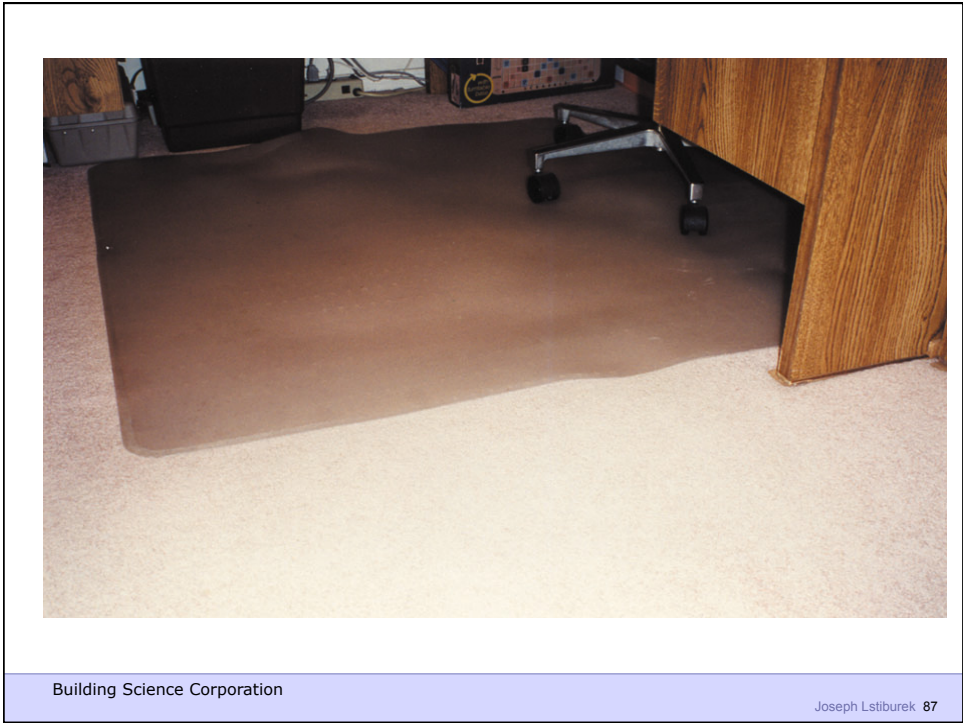
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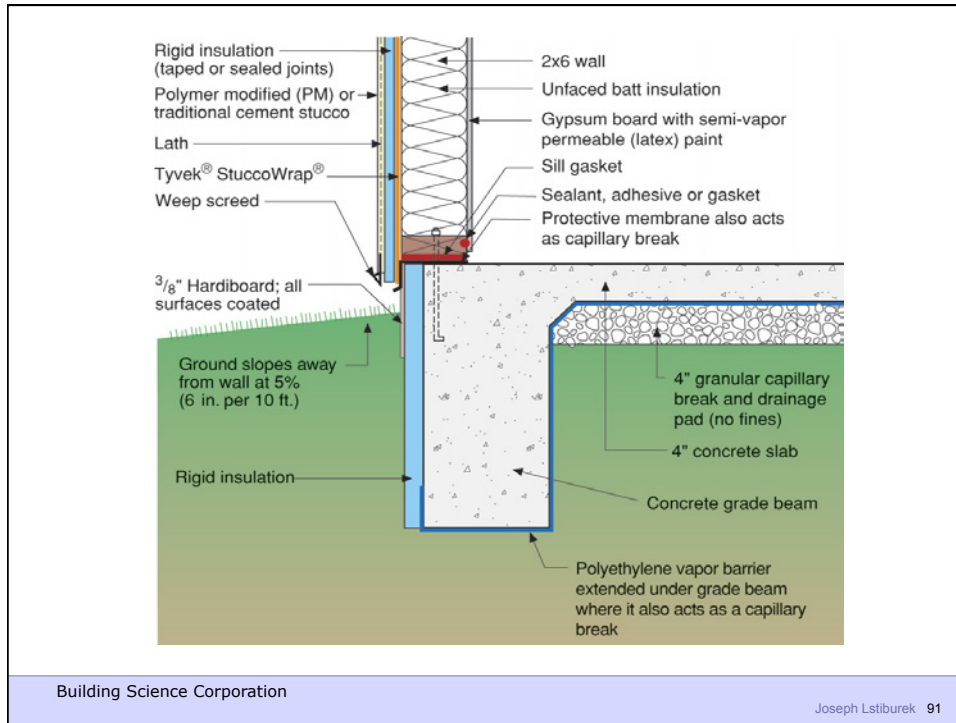
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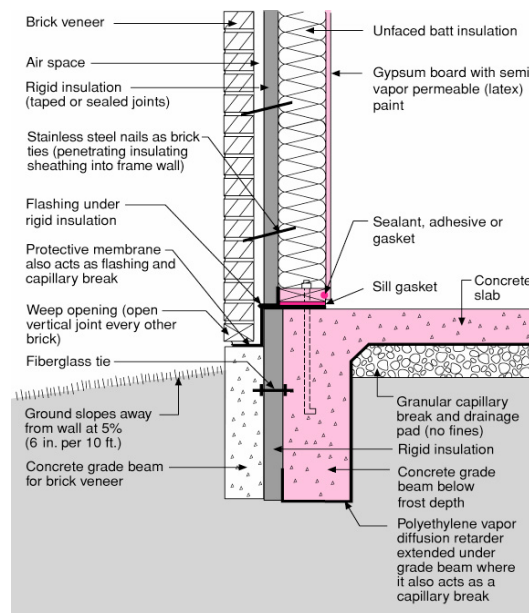
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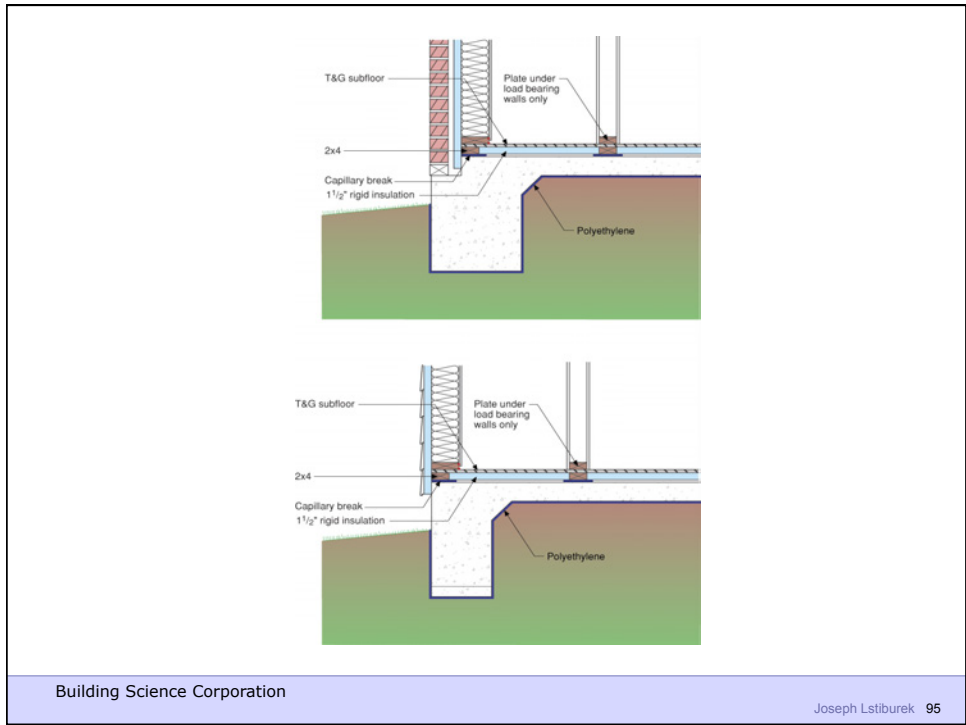
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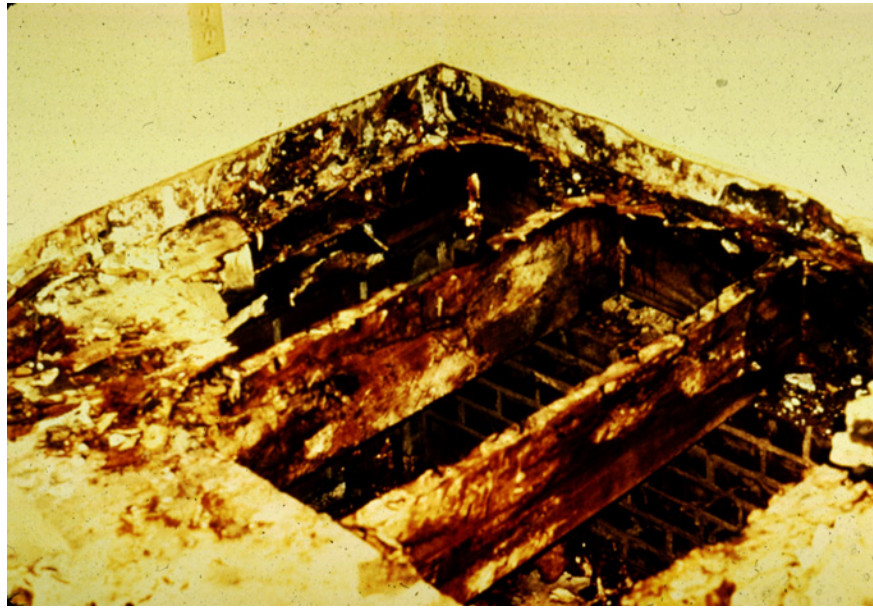
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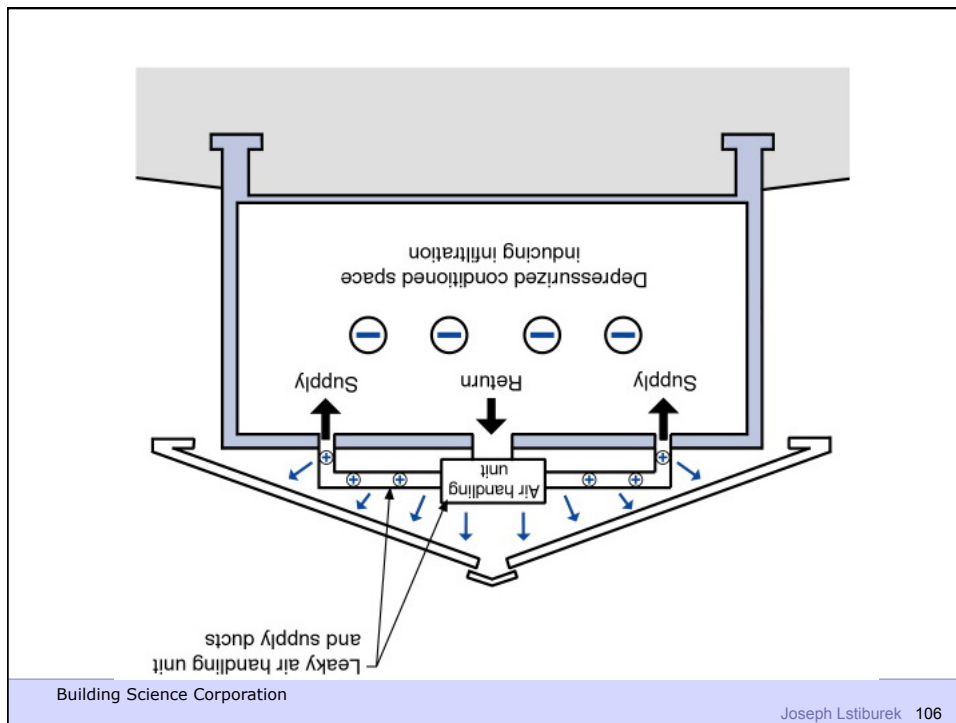
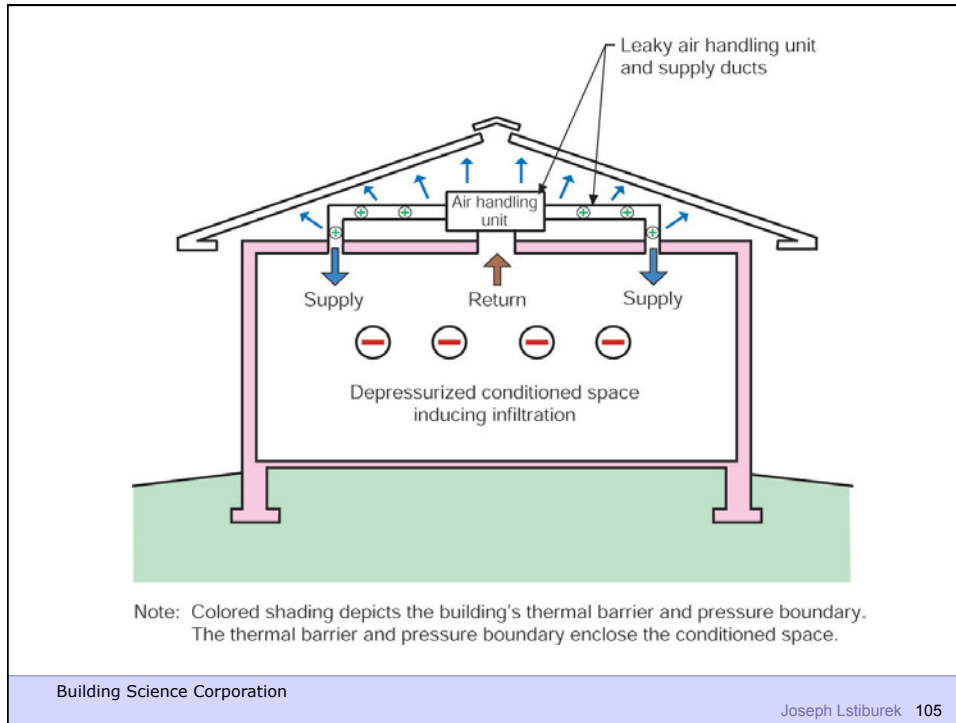
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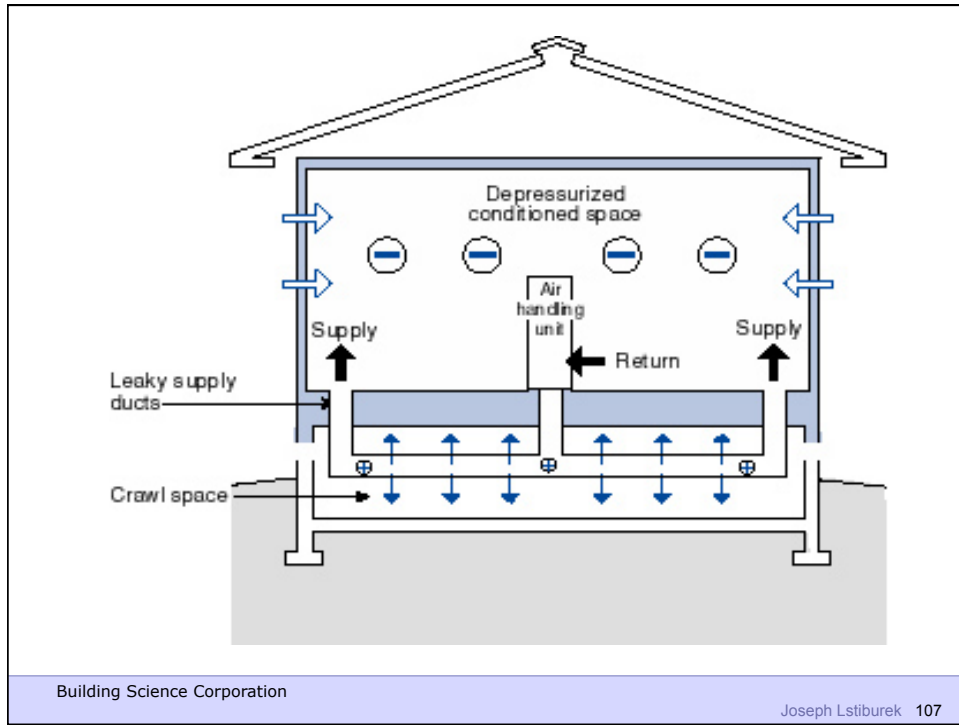
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**Current Approach
(BAD)**

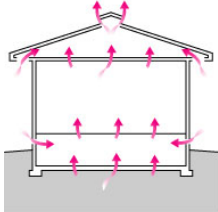


Figure A

- leaky subfloor
- poor ground cover
- stack effect vents crawl space through house
- contaminants in crawl space migrate into house

**Better Approach
(GOOD)**

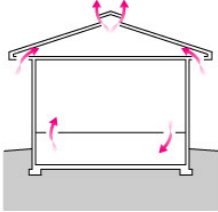


Figure B

- excellent ground cover
- conditioned crawl space connected to house with transfer grilles and supplied with air from heating supply duct

(This is really a mini-basement and is already allowed by many code departments — i.e. Ft. Collins)

**Even Better Approach
(GREAT)**

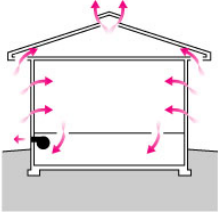


Figure C

- excellent ground cover
- conditioned crawl space via transfer air from occupied space
- continuously operating exhaust fan in crawl space vents house through crawl space

(This is not considered by the code but should be)

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