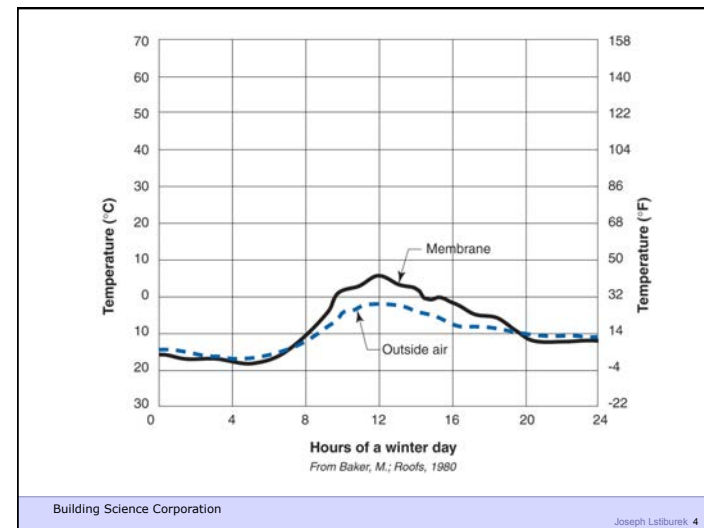
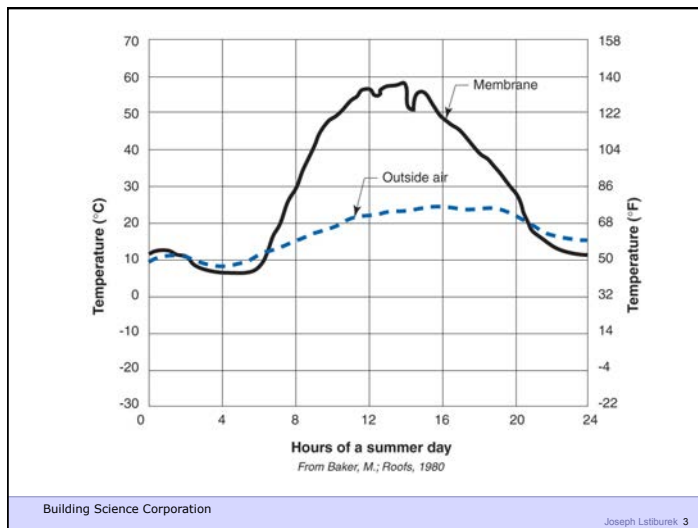
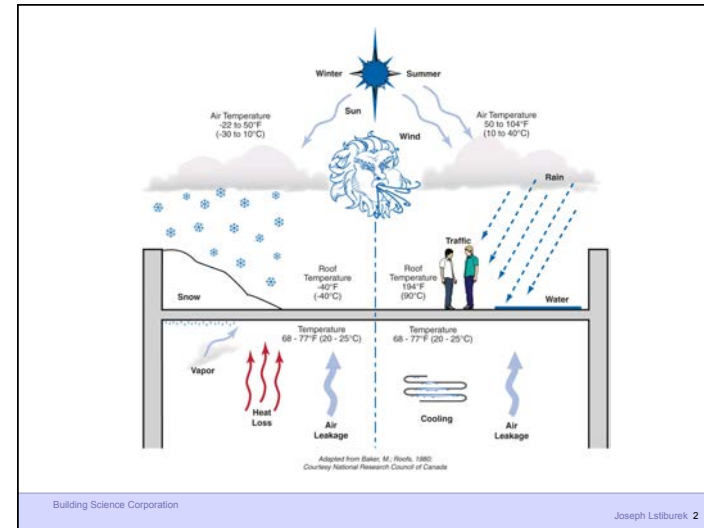


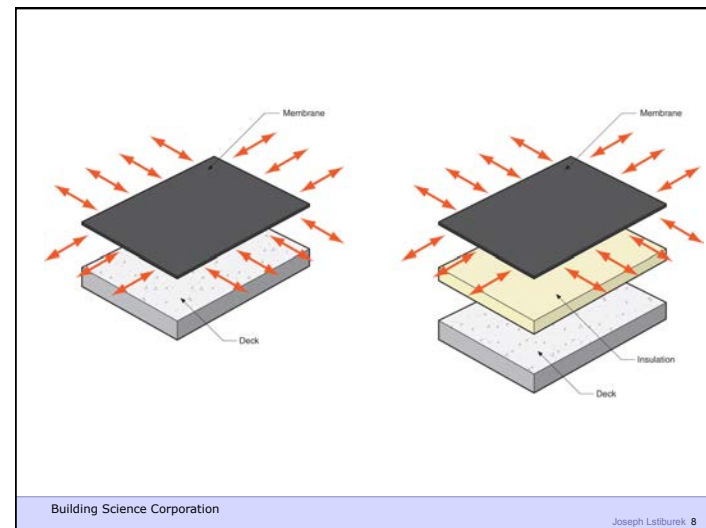
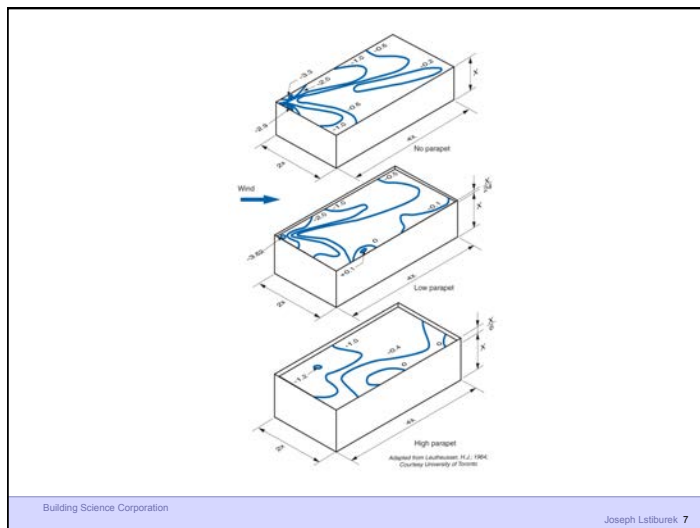
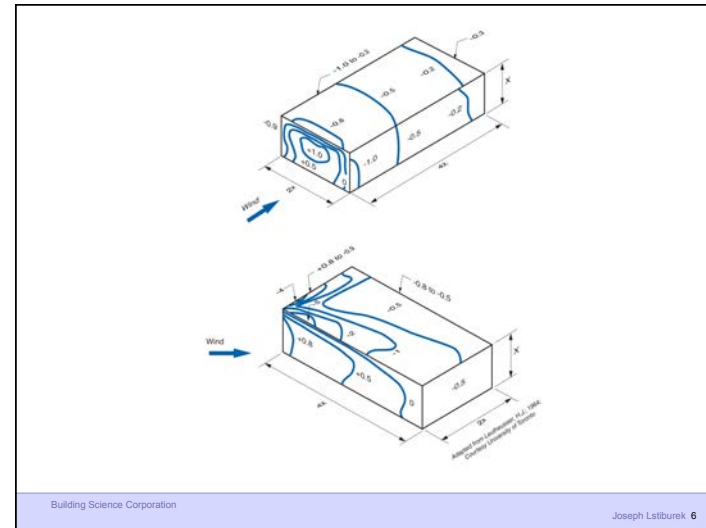
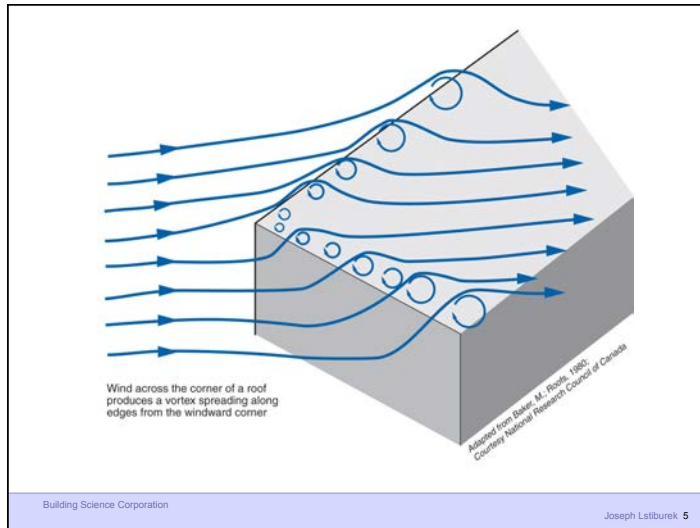
Joseph Lstiburek, Ph.D., P.Eng, ASHRAE Fellow

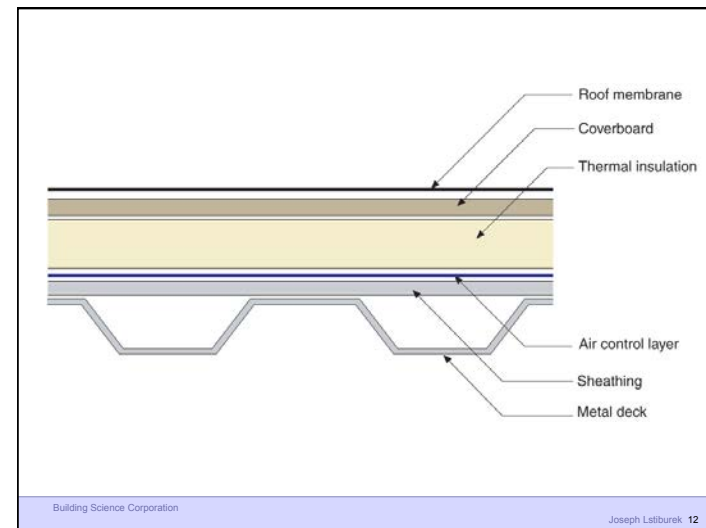
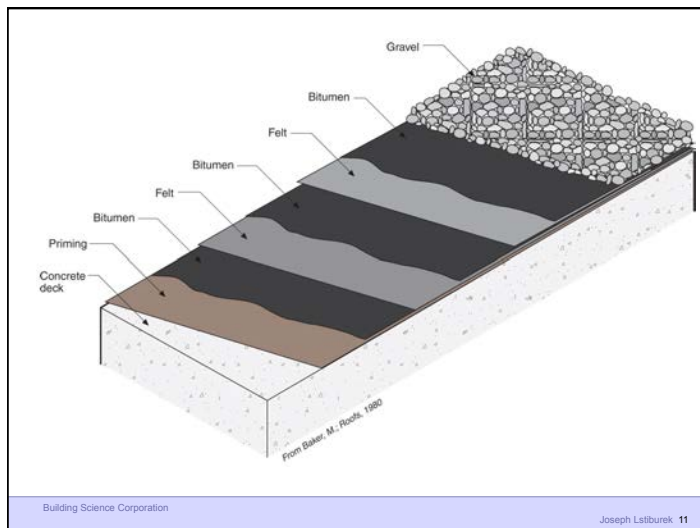
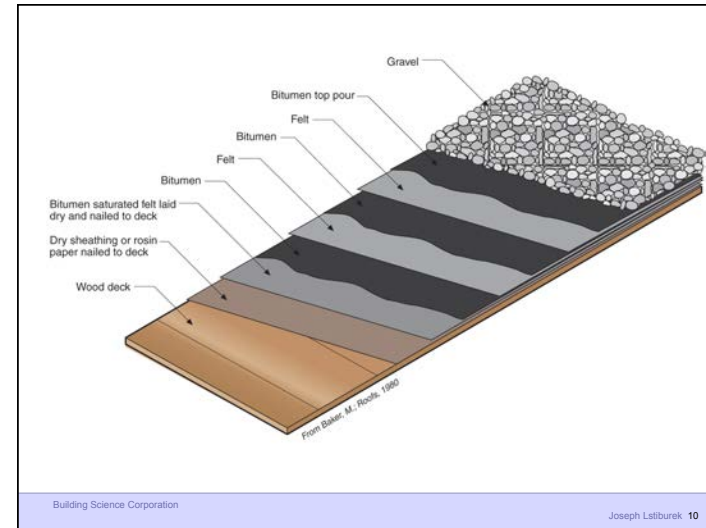
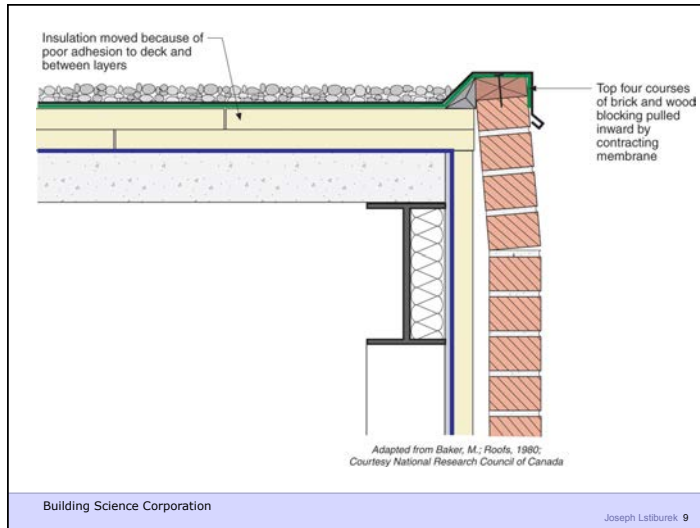
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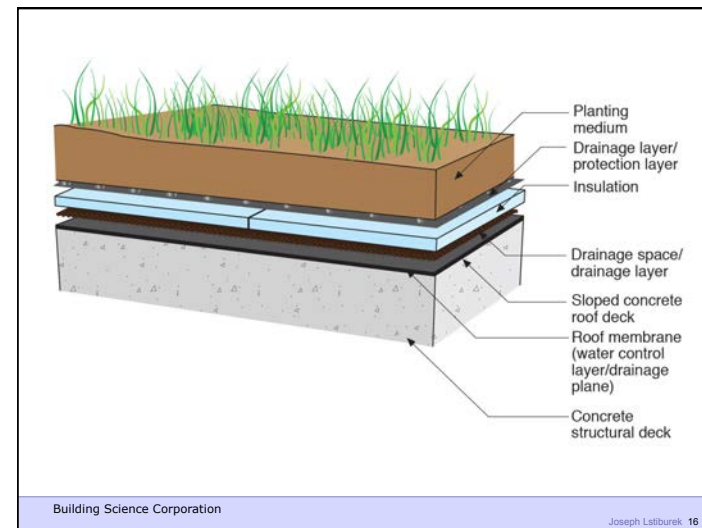
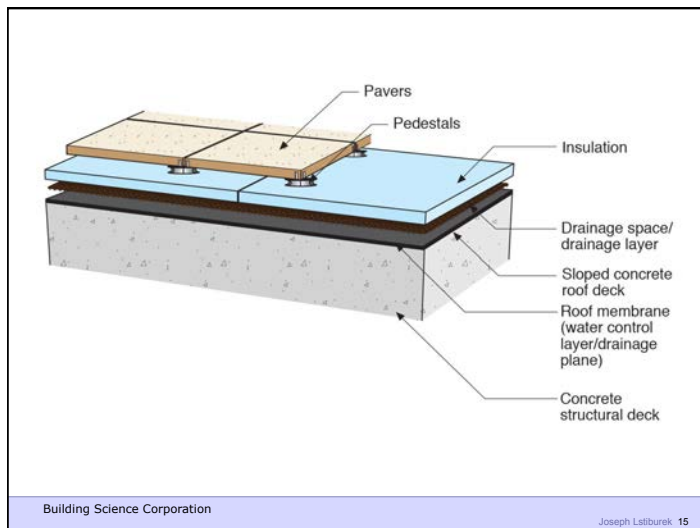
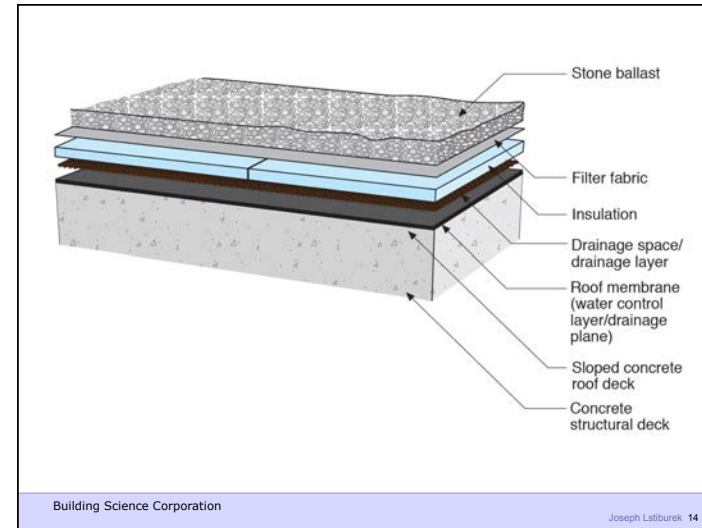
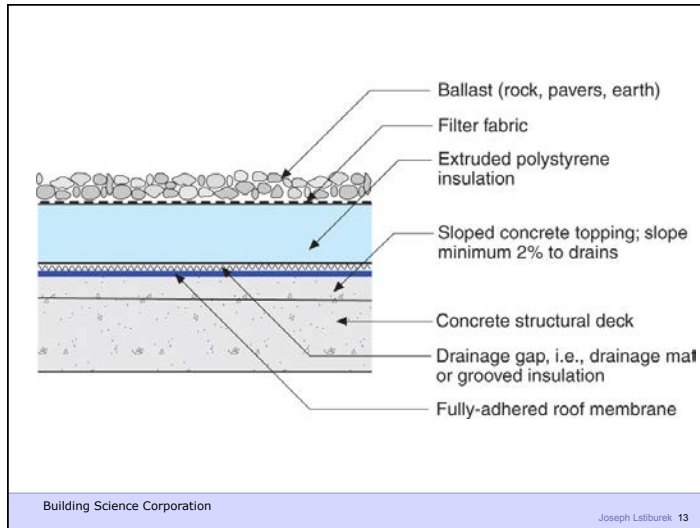
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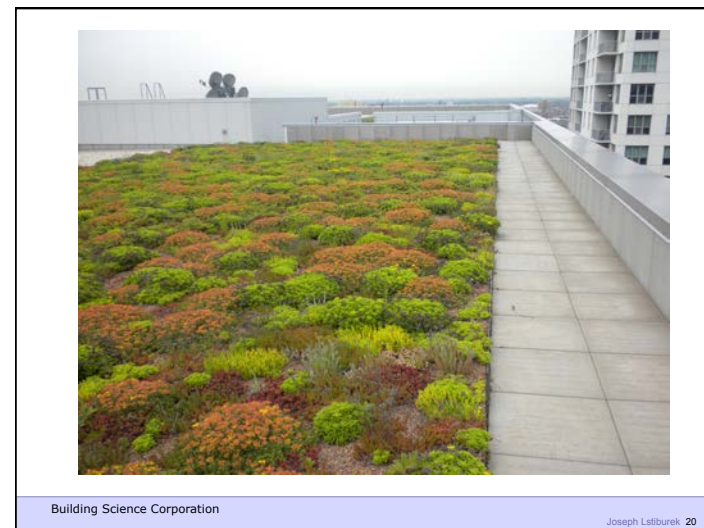
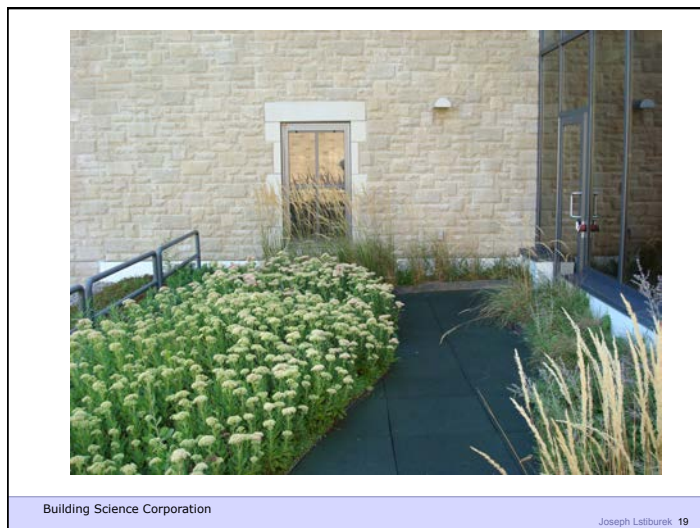
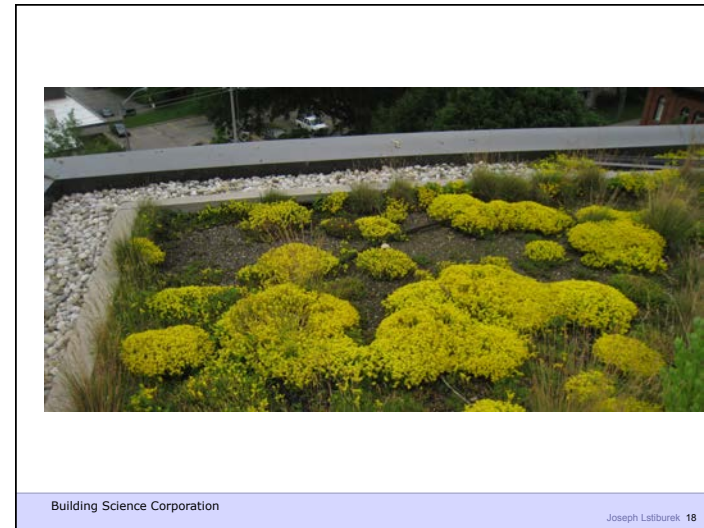
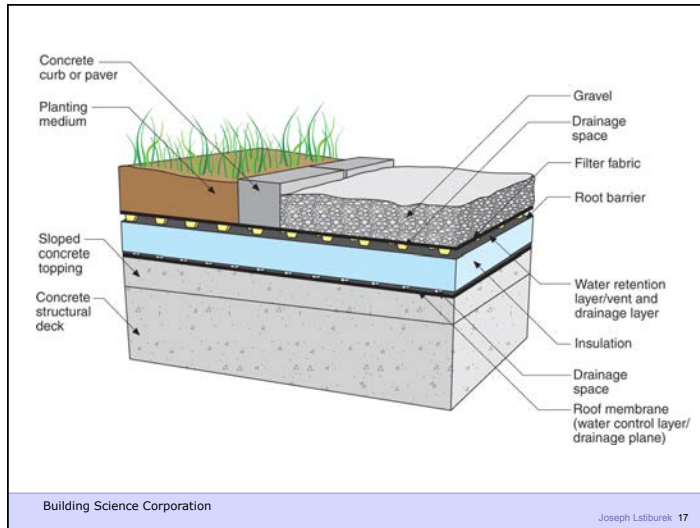
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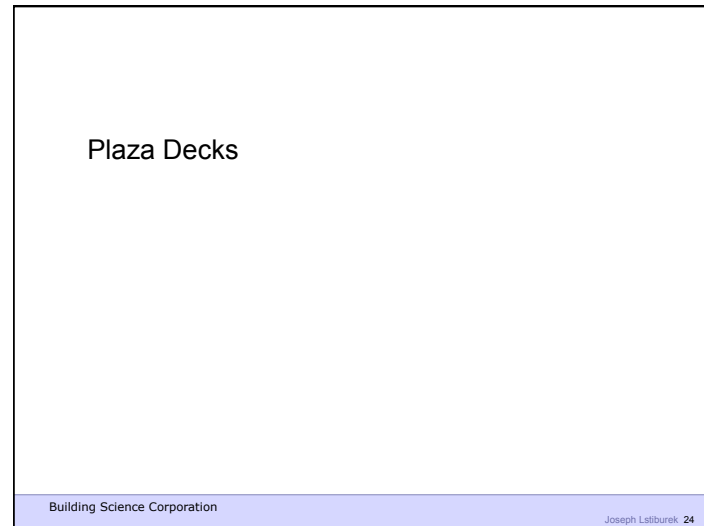
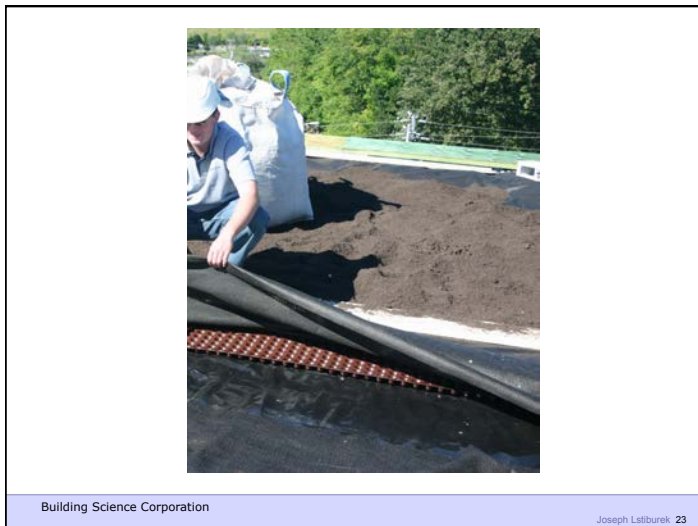
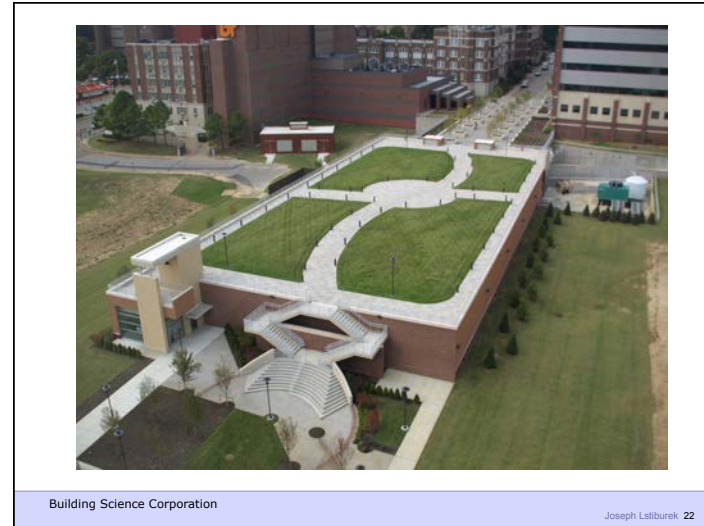
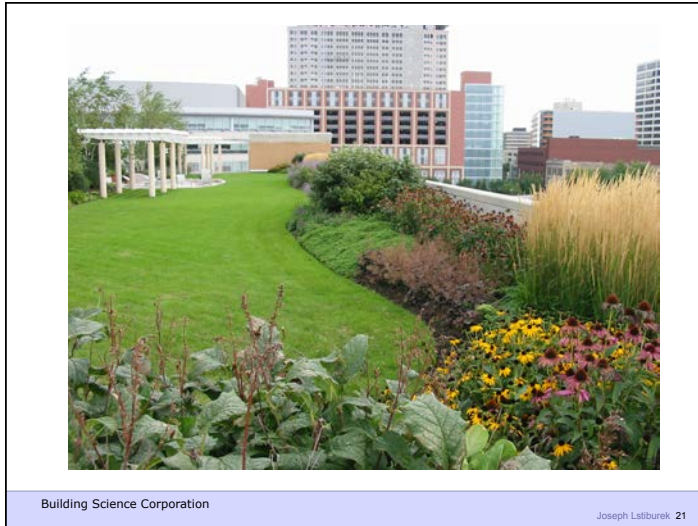


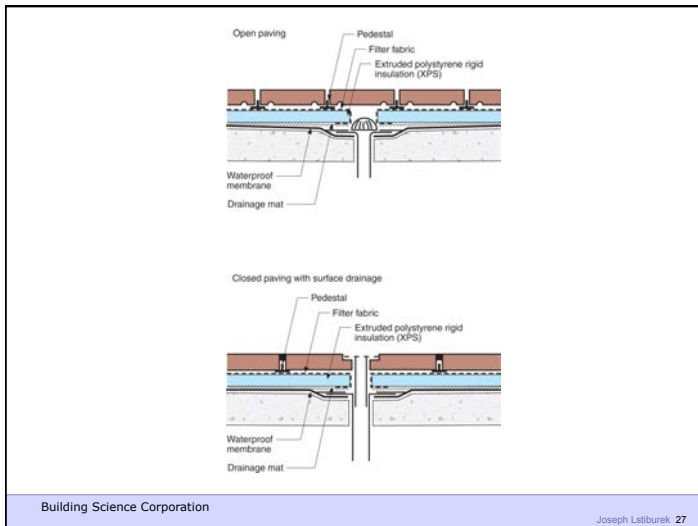
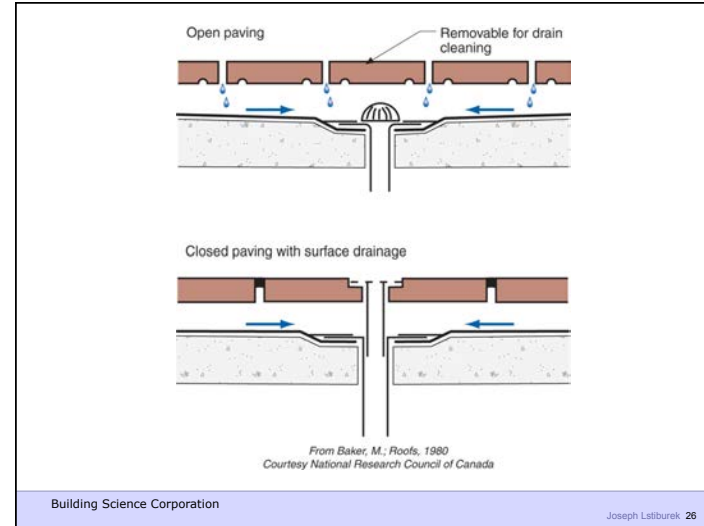


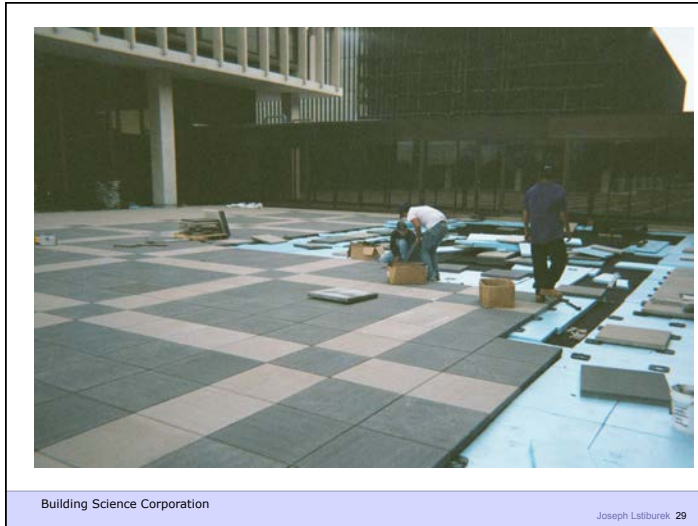












Plaza Decks
Gravity
Drainage Space
Capillary Break
Protection
Isolation

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Plaza Decks
Gravity
Drainage Space
Capillary Break
Protection
Isolation
...oh and you better get it right.....

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Plaza Decks Are Really Protected
Membrane Roofs

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Plaza Decks Are Really Protected
Membrane Roofs
Not Easily Serviceable

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Plaza Decks Are Really Protected
Membrane Roofs
Not Easily Serviceable
Should Be Isolated And Protected From All
Other Building and Waterproofing
Components

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Plaza Deck Systems
Hot Fluid Applied Membranes
Cold Fluid Applied Membranes

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Osmosis

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Paver
Pedestal
Filter fabric
Extruded polystyrene rigid insulation (XPS)
Concrete slab
Membrane

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Vapor diffusion
Top of membrane is wet

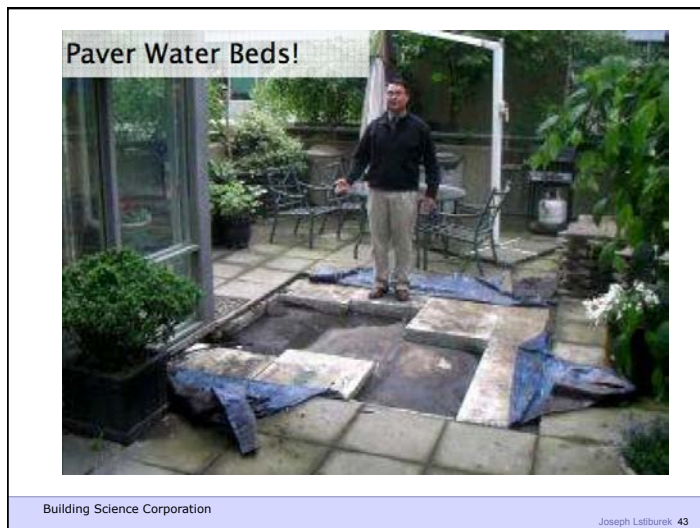
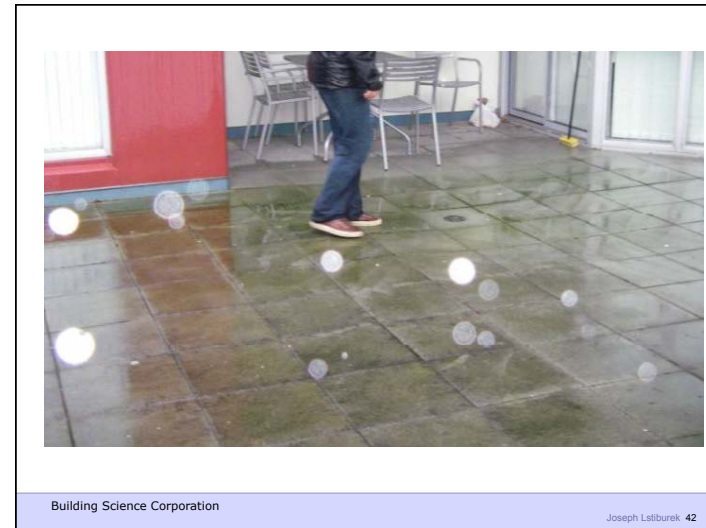
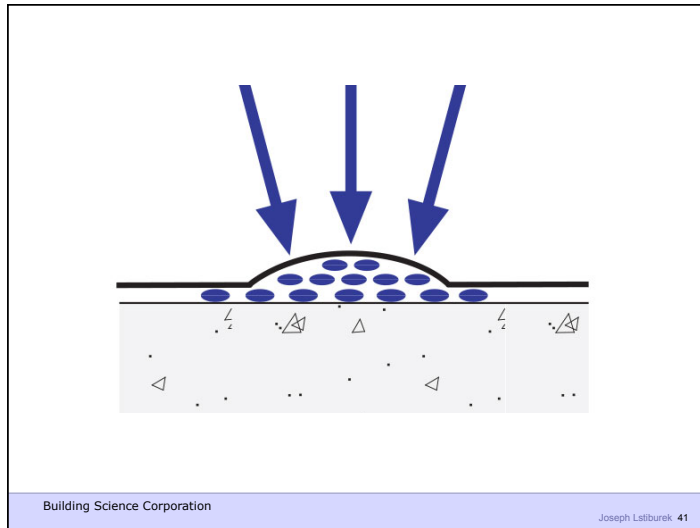
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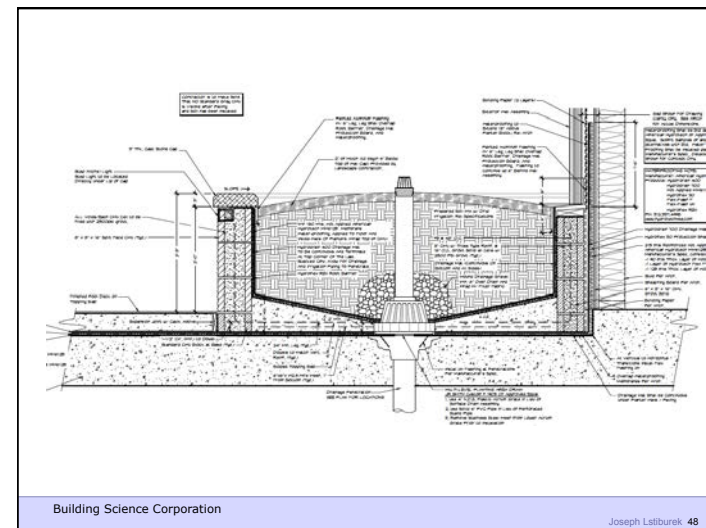
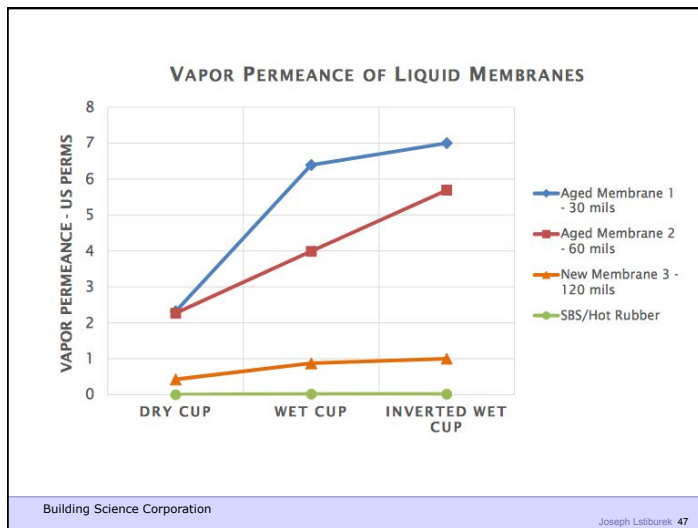
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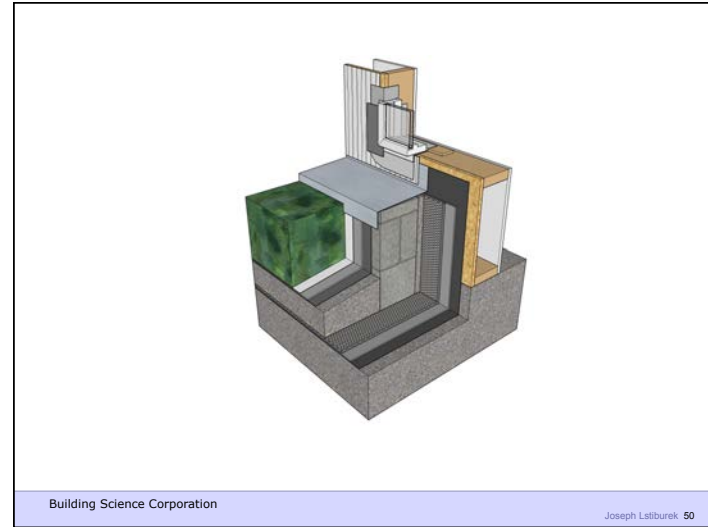
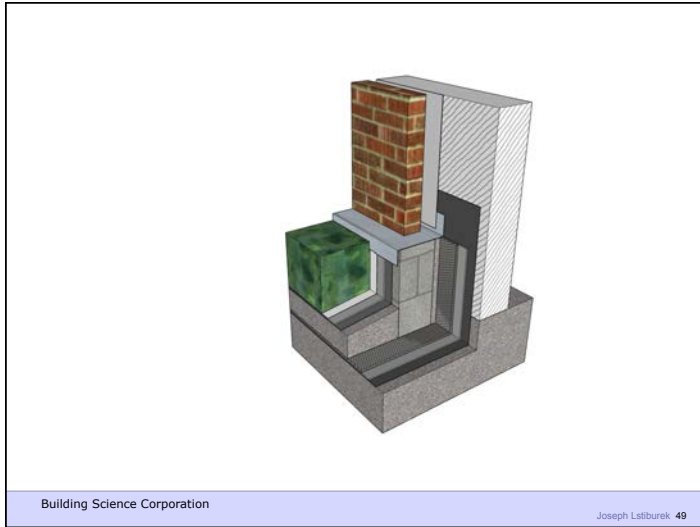
Vapor diffusion
Pore condensation dissolves minerals creating solute

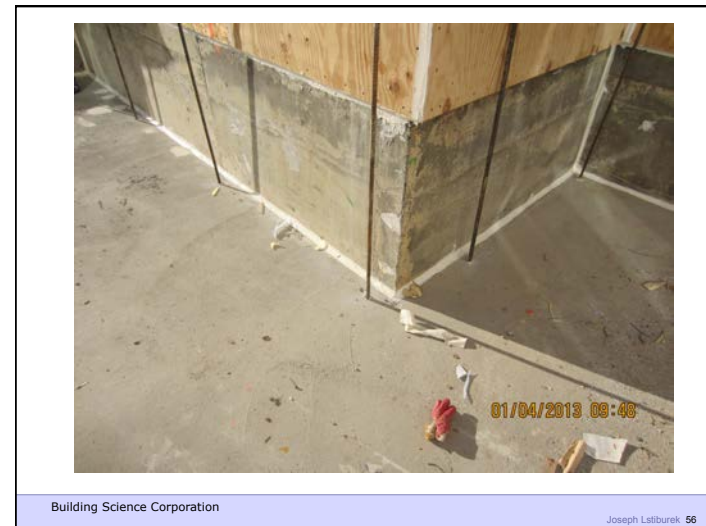
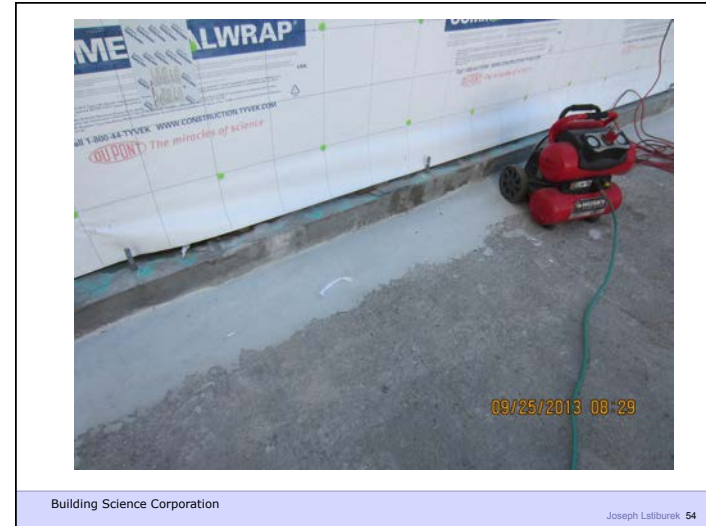
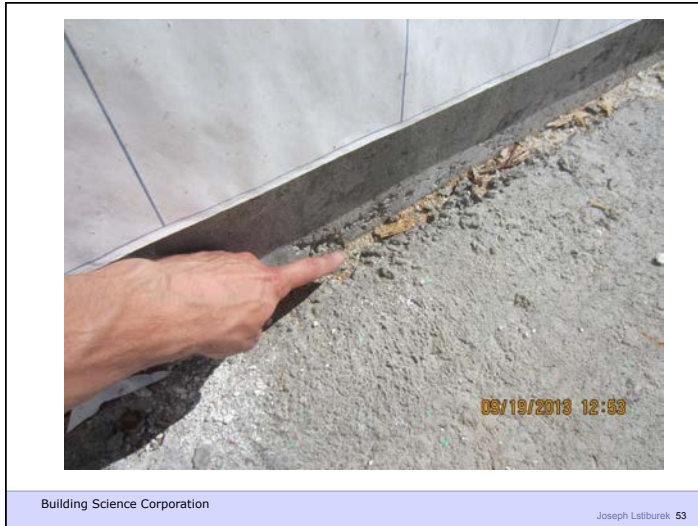
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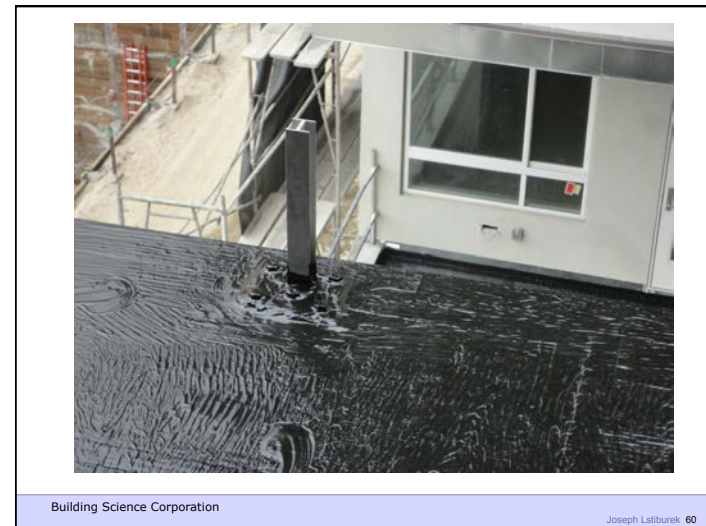
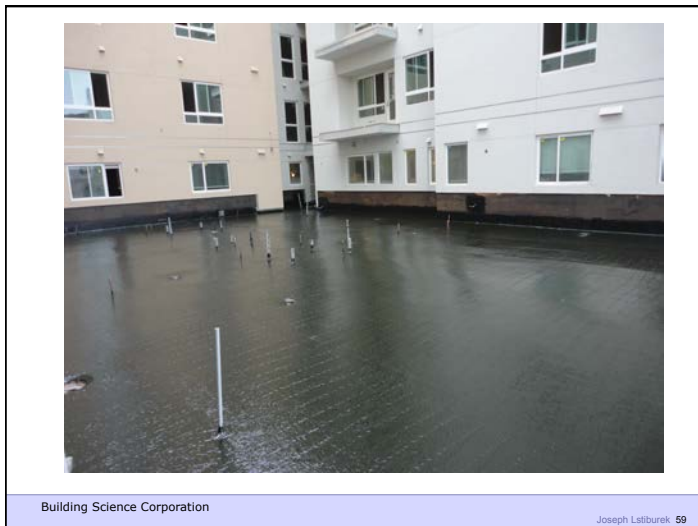
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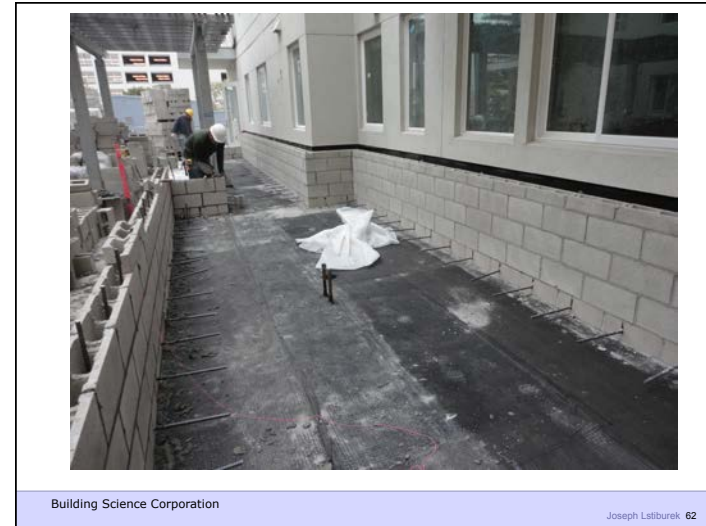


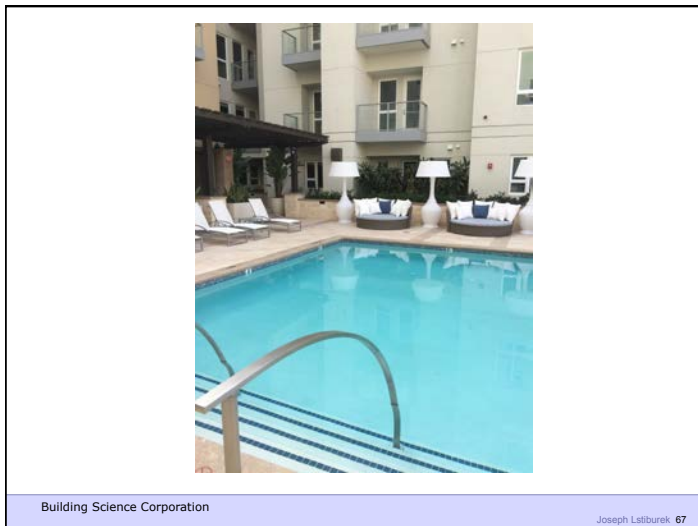


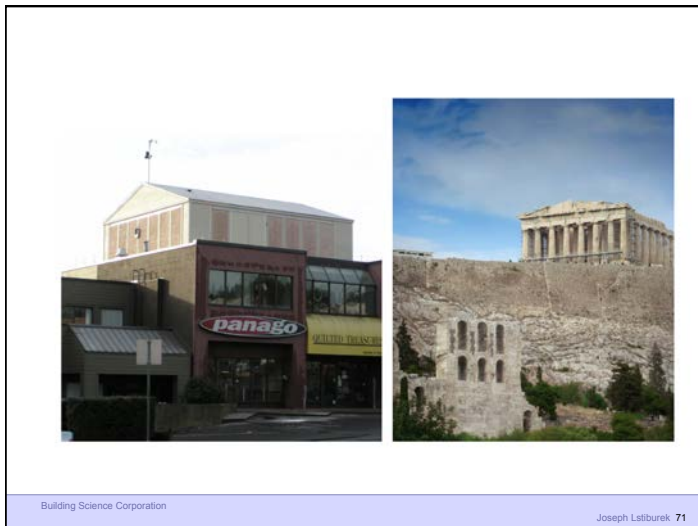
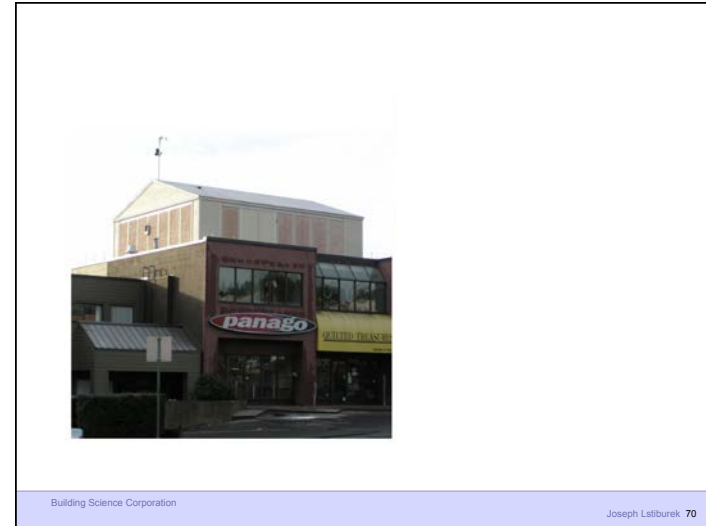
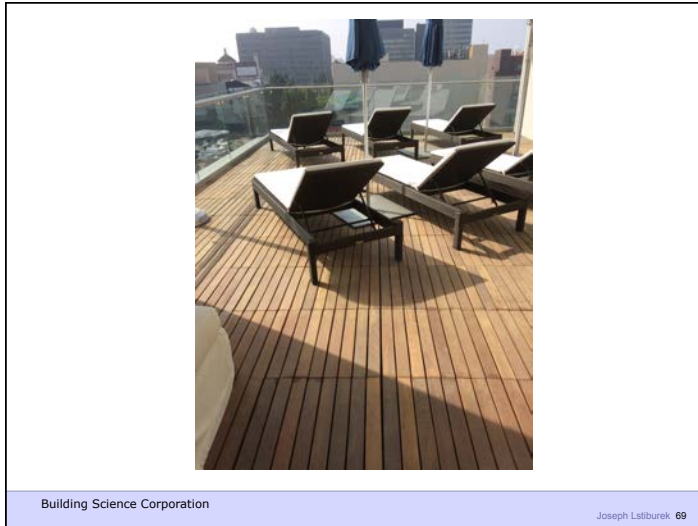


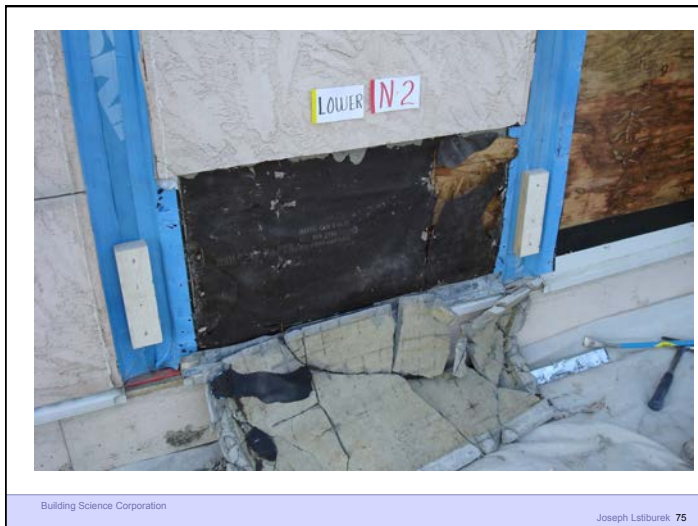
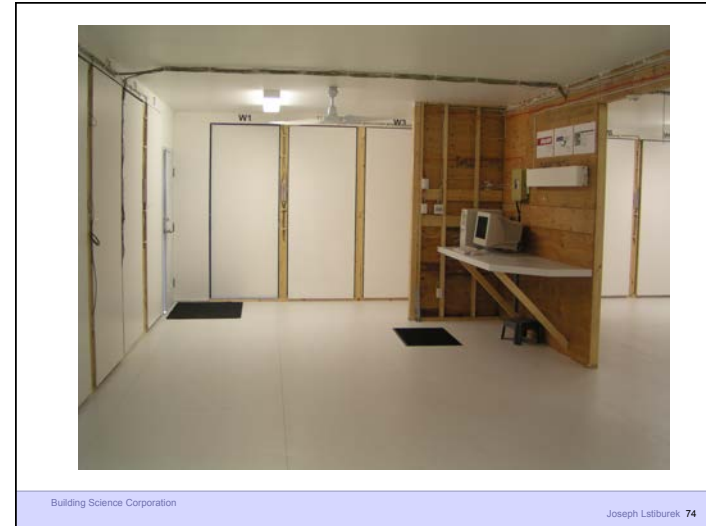
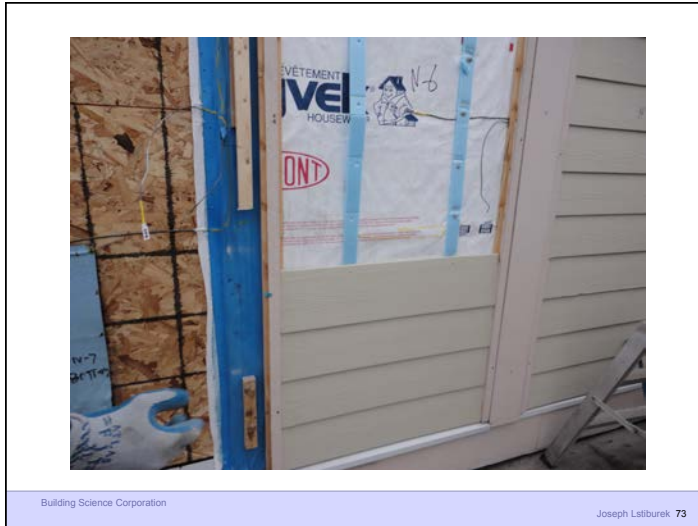


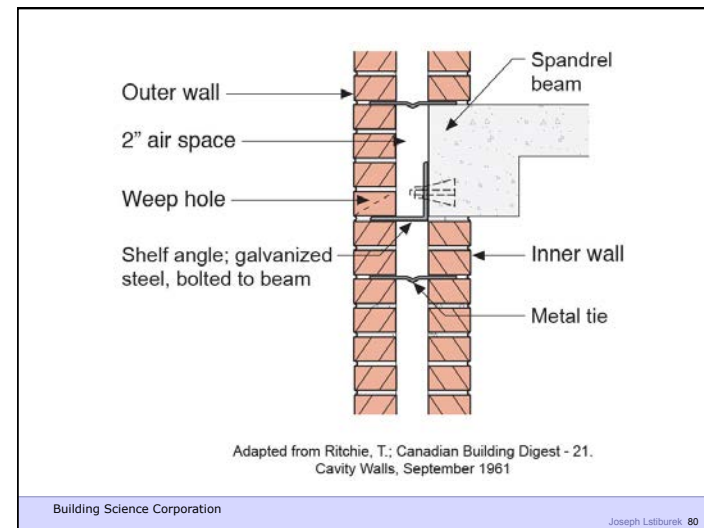
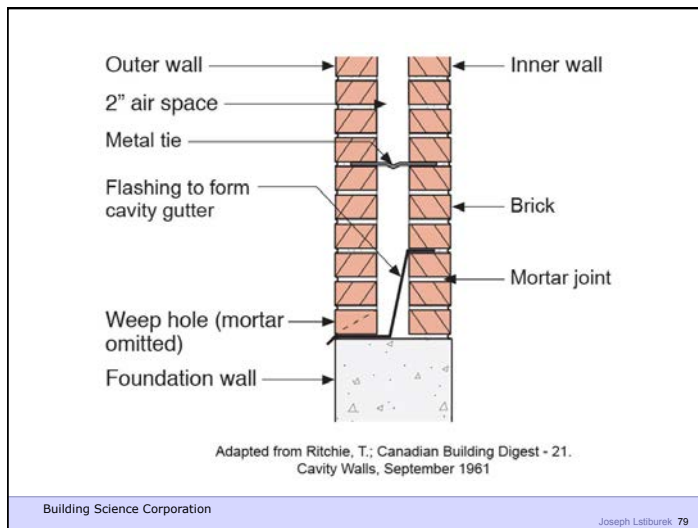
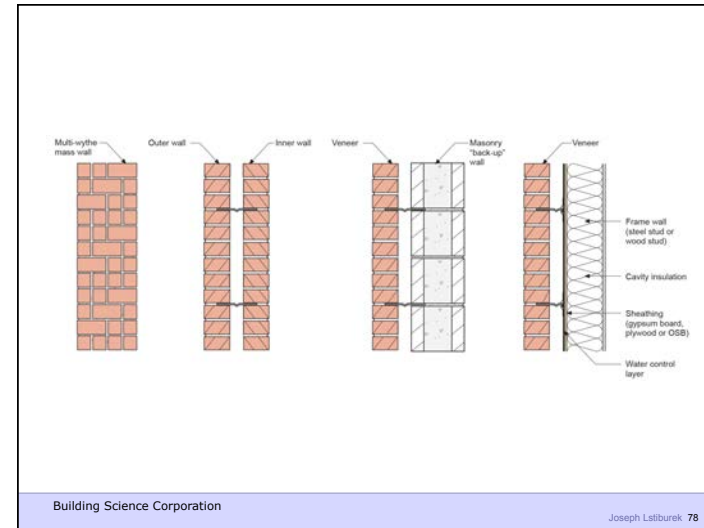


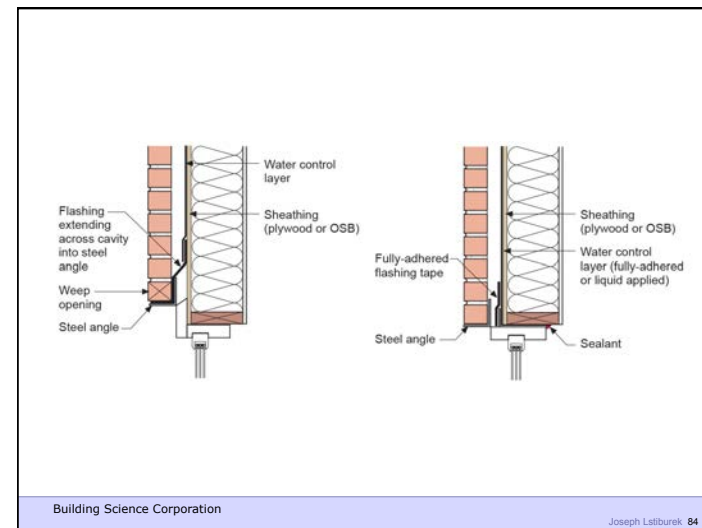
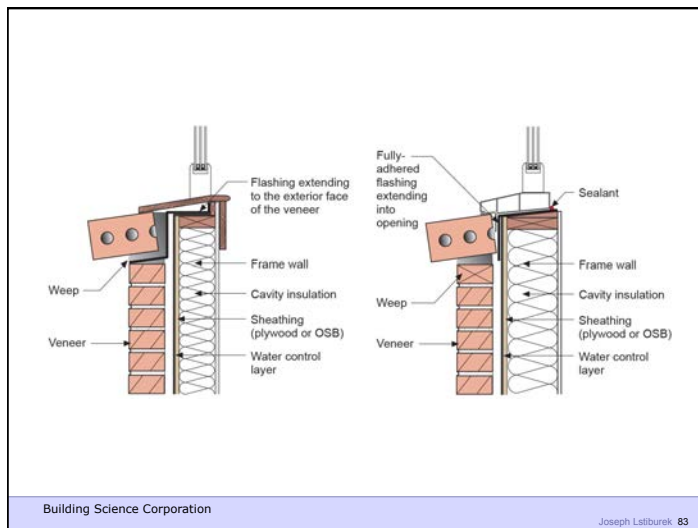
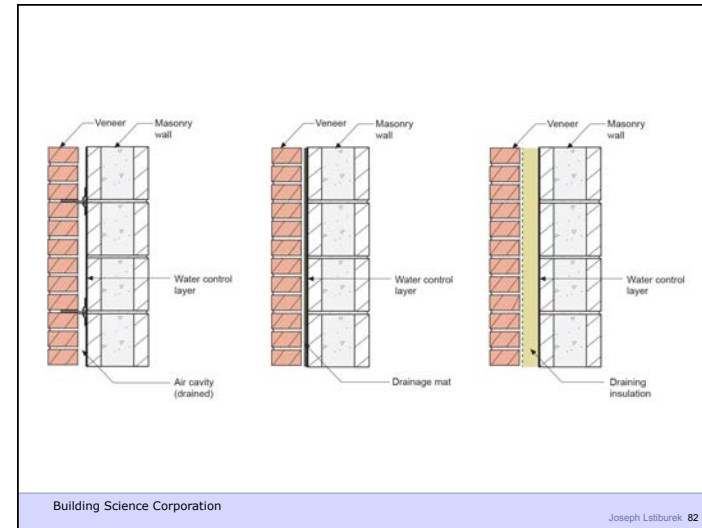
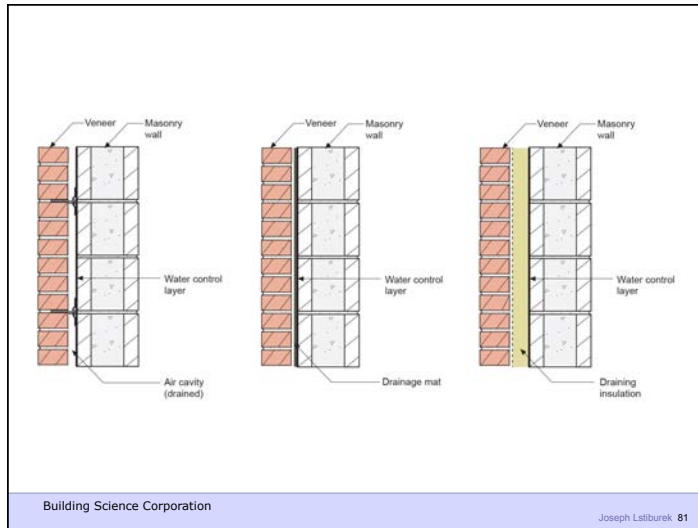




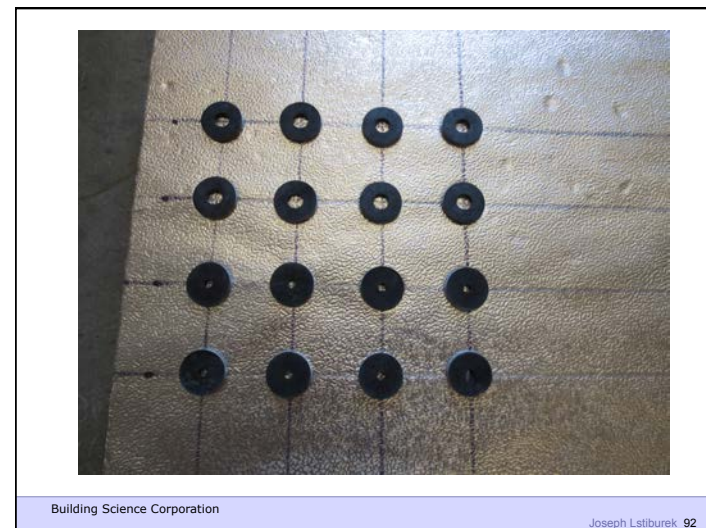
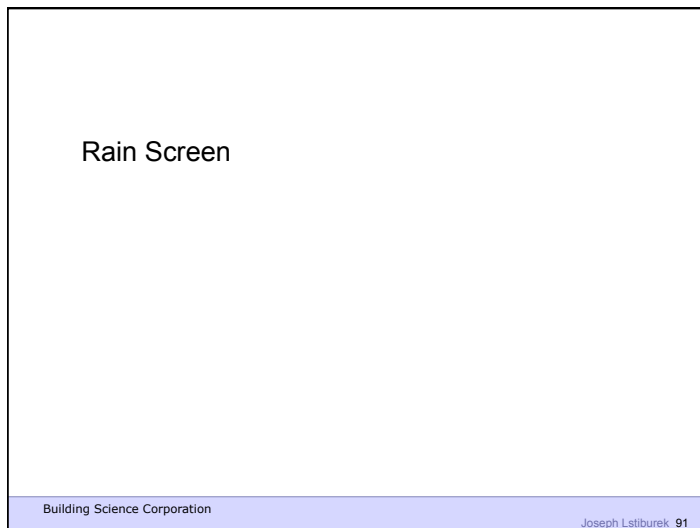
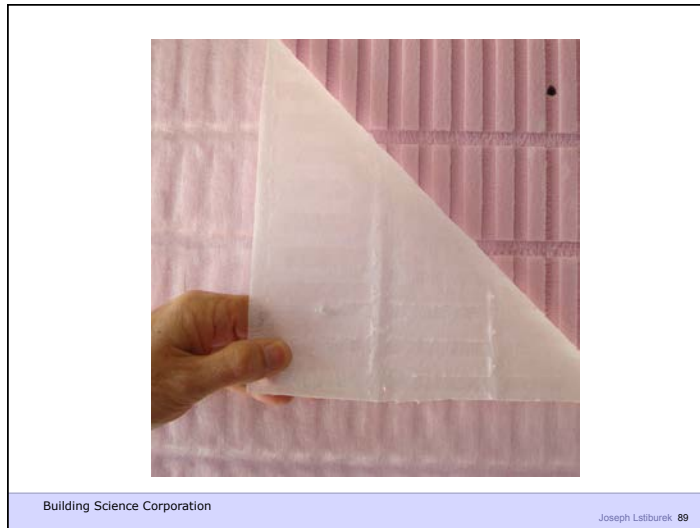






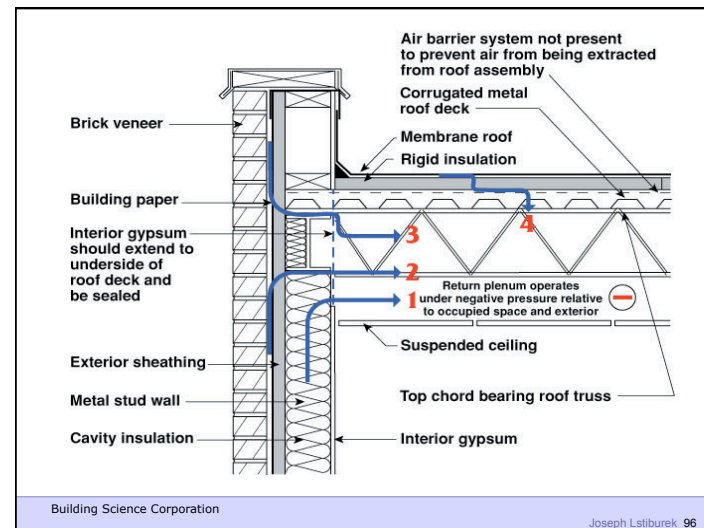
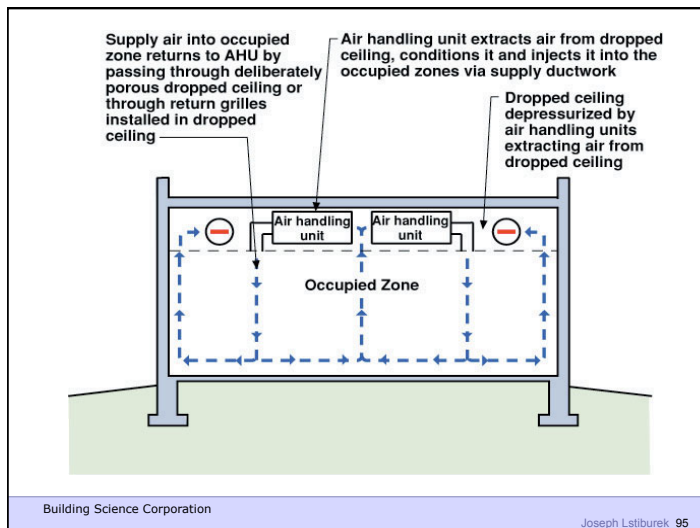
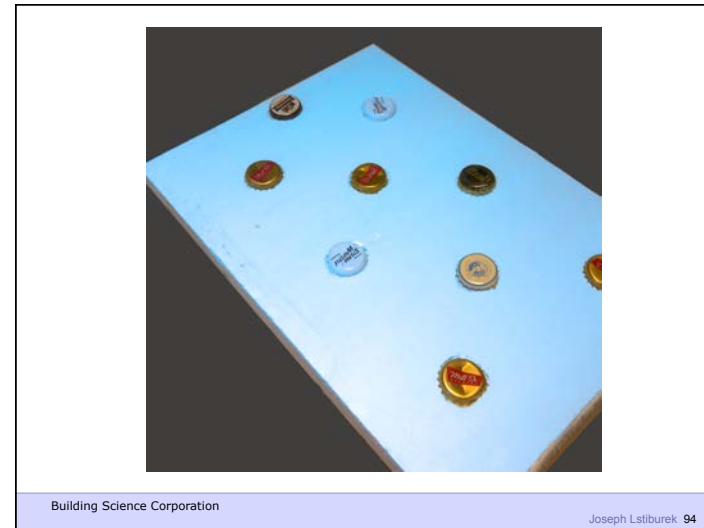


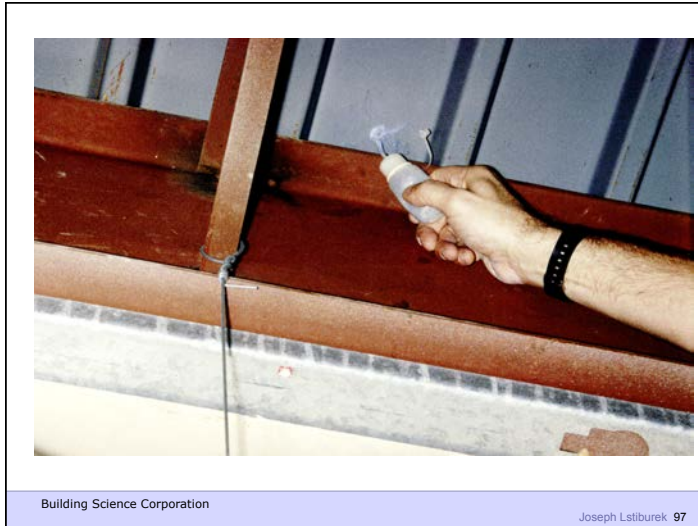


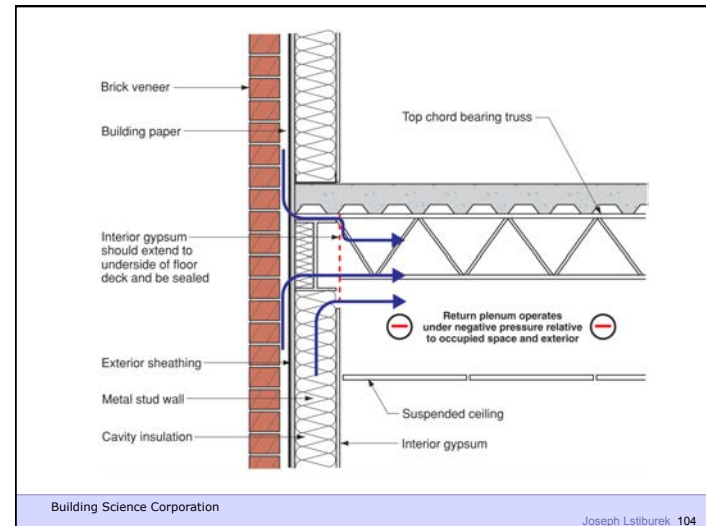
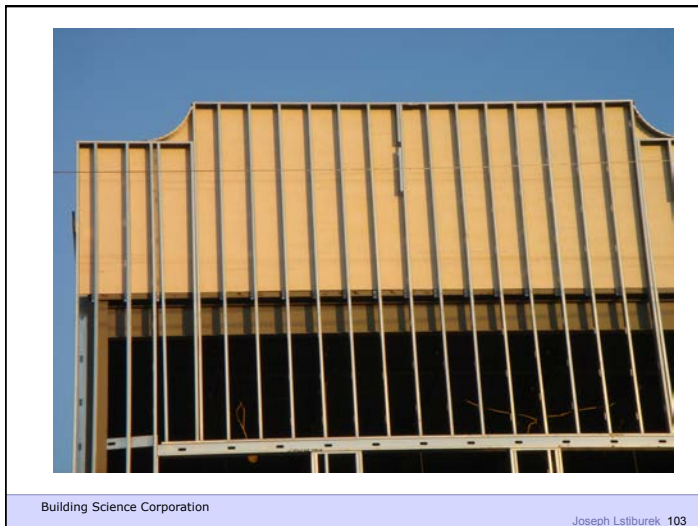
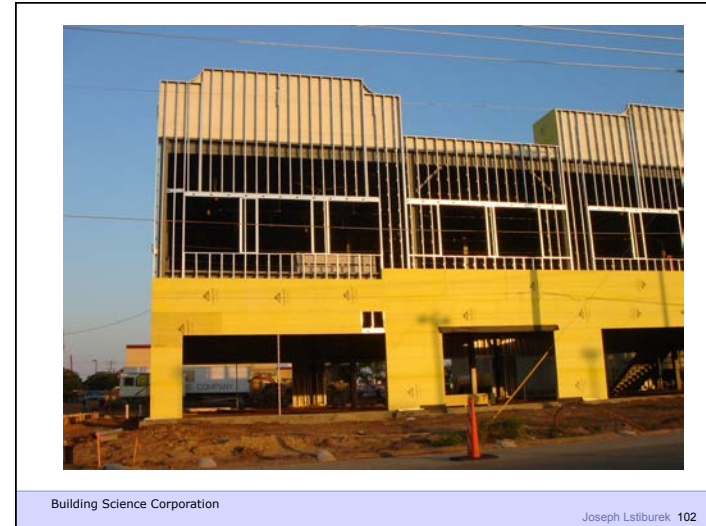
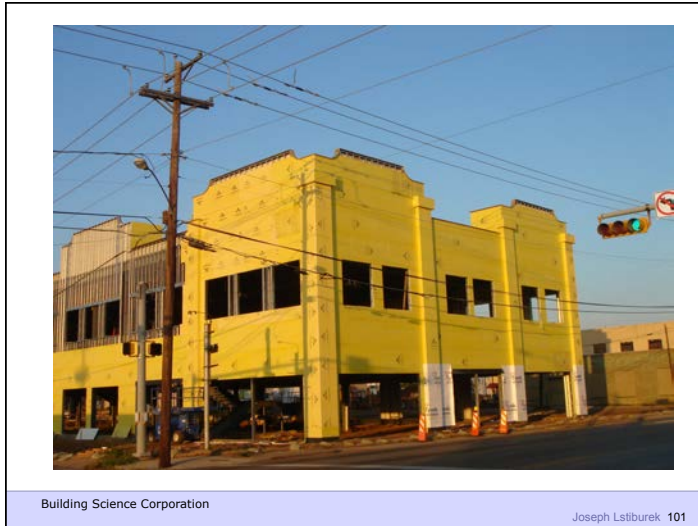


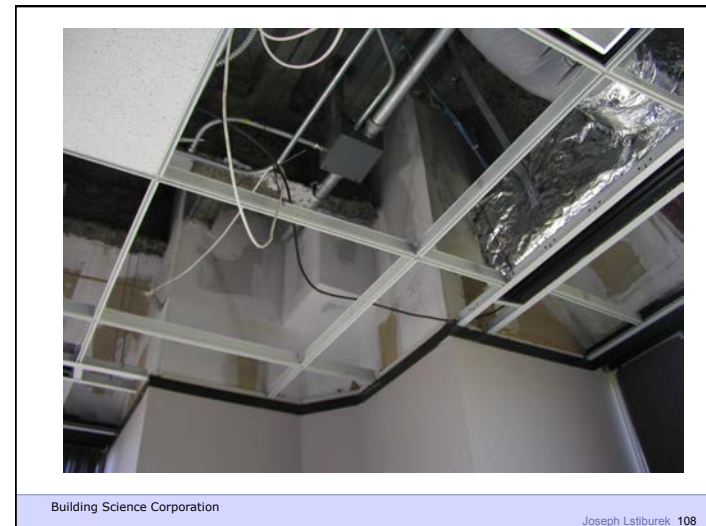
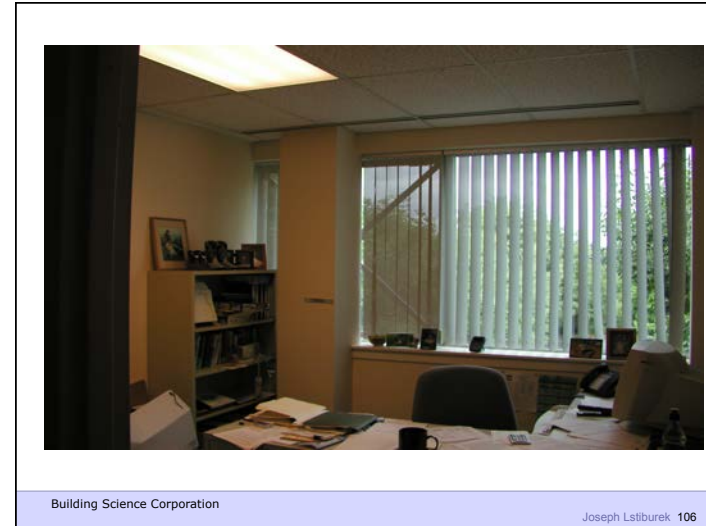
Beer Screen?

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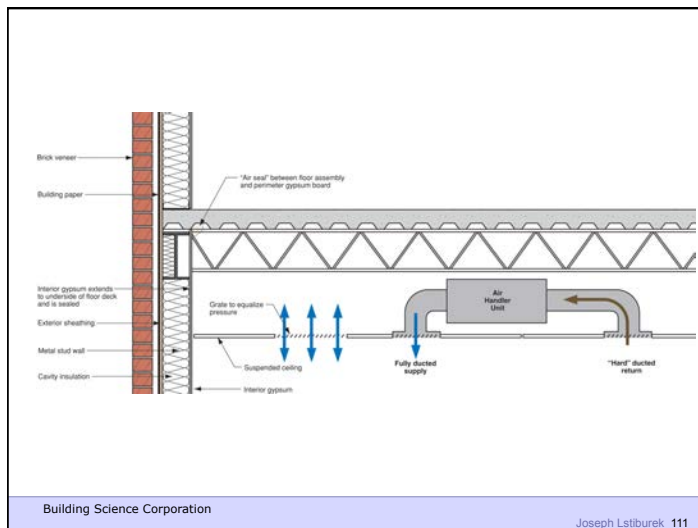
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It's a Case of Black or White

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Joseph Lstiburek 112

It's a Case of Black or White
Arrhenius

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It's a Case of Black or White
Arrhenius
Every 10 degrees C – double the “badness”

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