

A Building is an Environmental Separator

Water Control Layer Air Control Layer Vapor Control Layer Thermal Control Layer

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2nd Law of Thermodynamics

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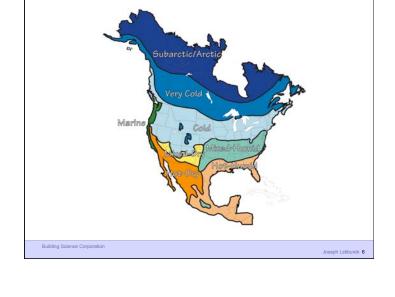
Joseph Lstiburek 3

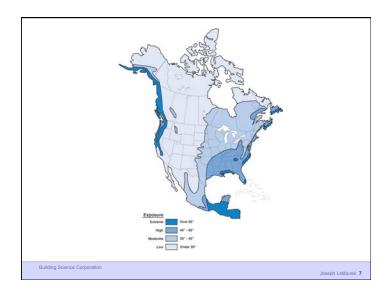
Joseph Lstiburek 2

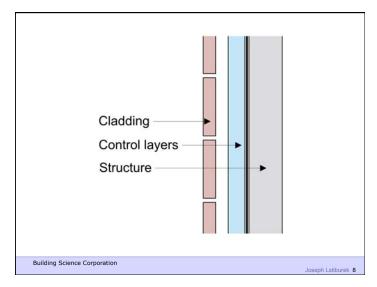
Heat Flow Is From Warm To Cold Moisture Flow Is From Warm To Cold Moisture Flow Is From More To Less Air Flow Is From A Higher Pressure to a Lower Pressure Gravity Acts Down

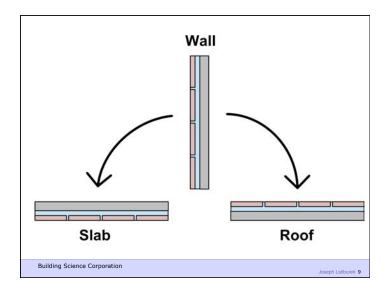
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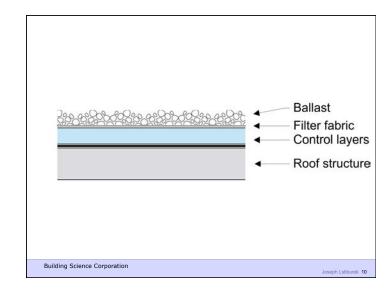
Joseph Lstiburek 5

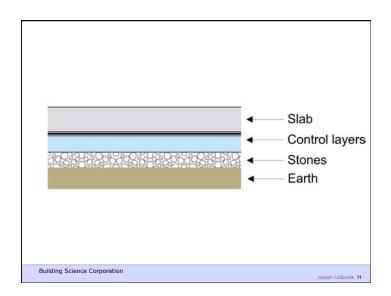


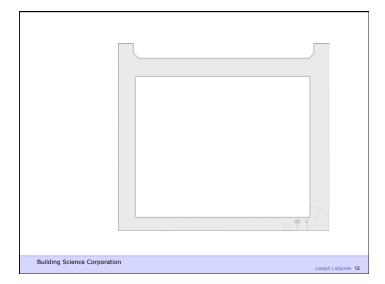


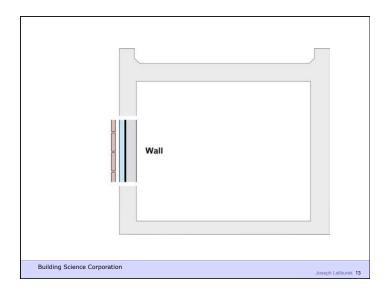


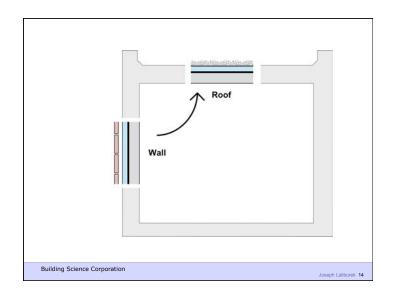


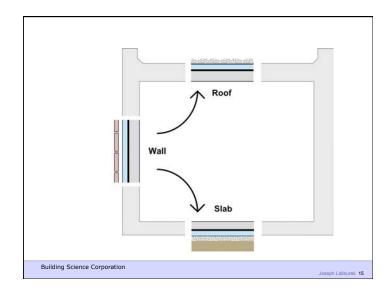


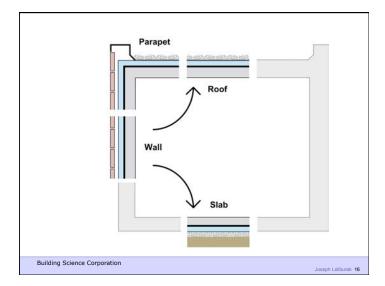


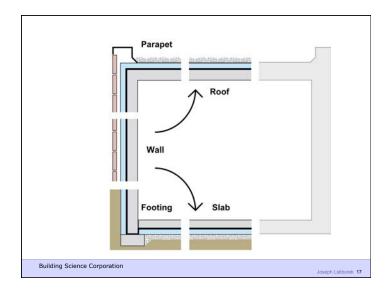


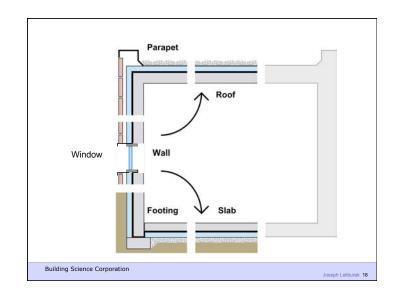


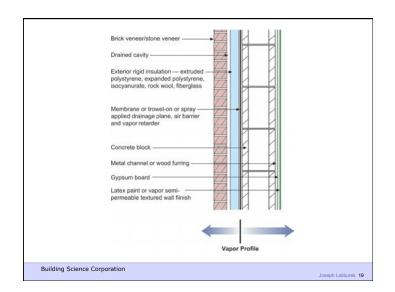


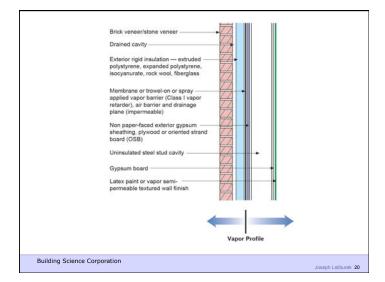


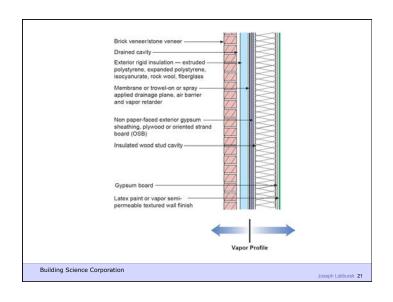


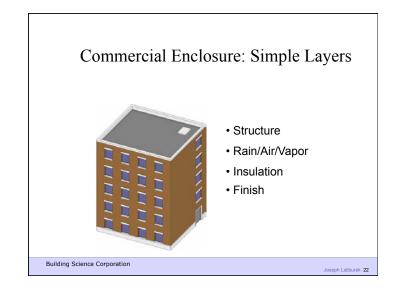


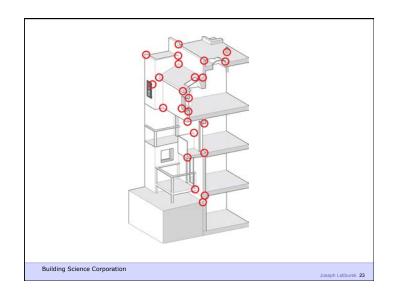




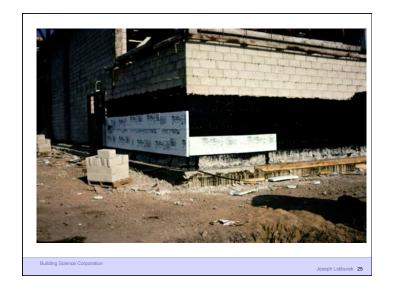






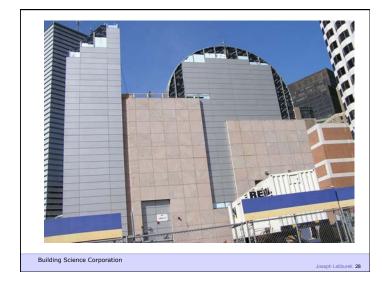
































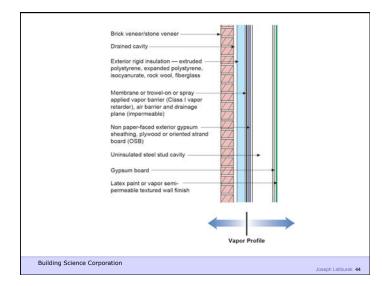


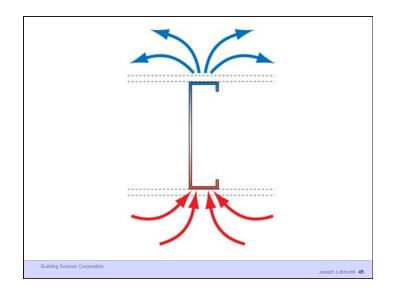




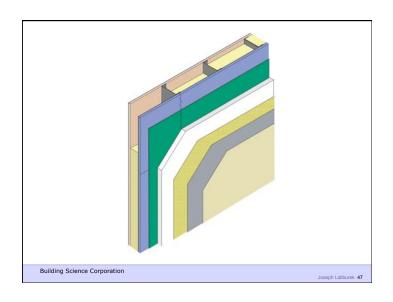










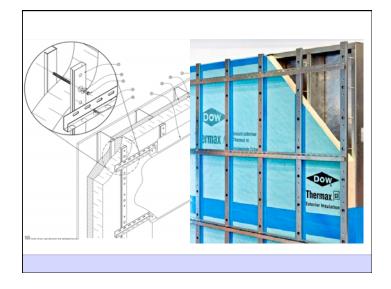


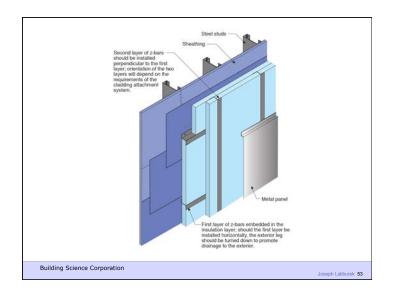


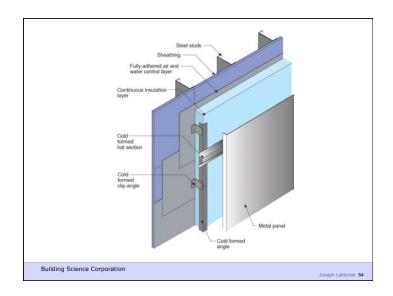


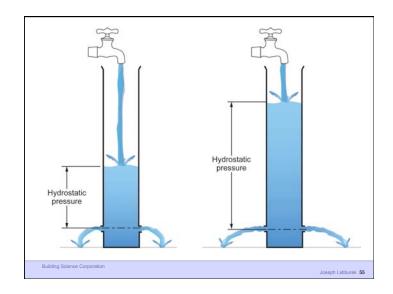




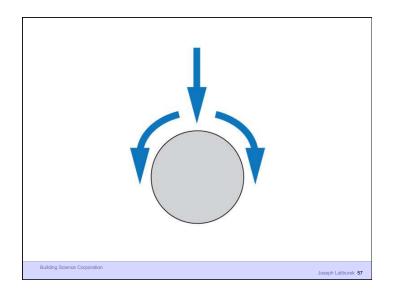


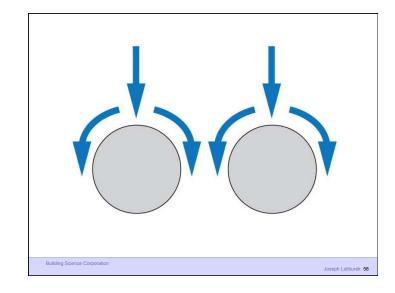


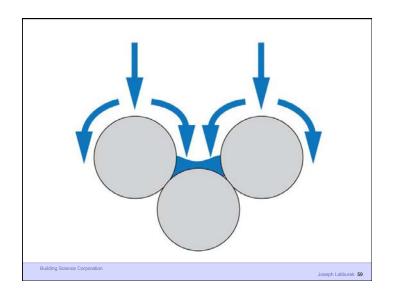




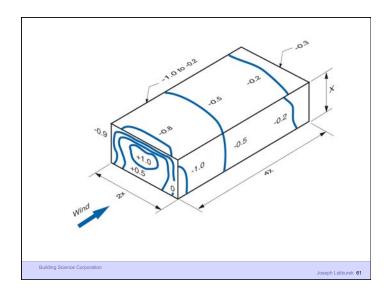


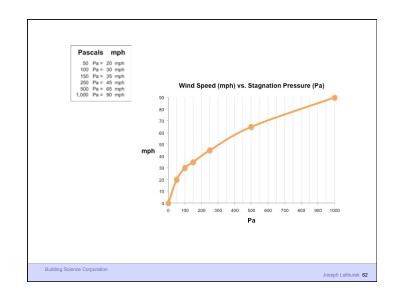






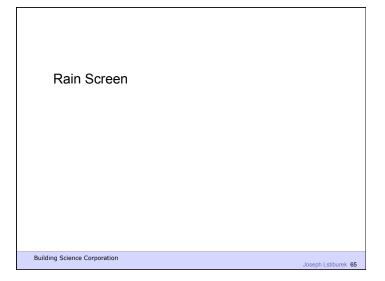


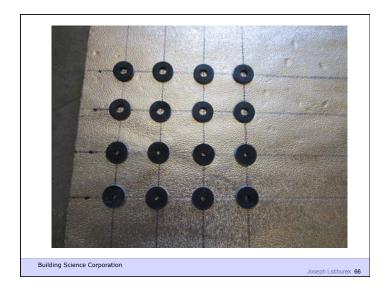








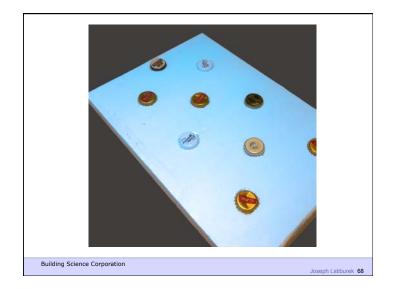


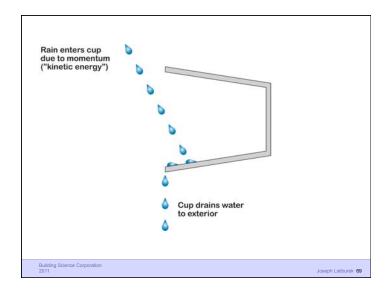


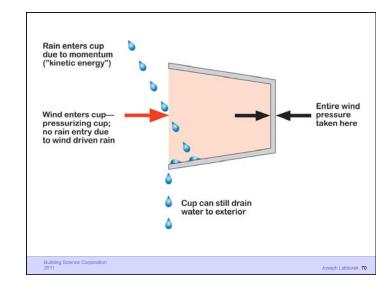
Beer Screen?

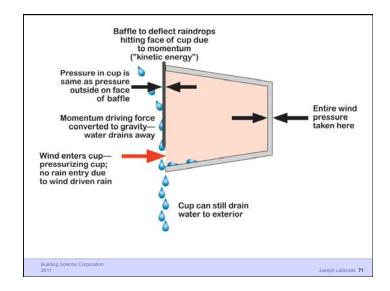
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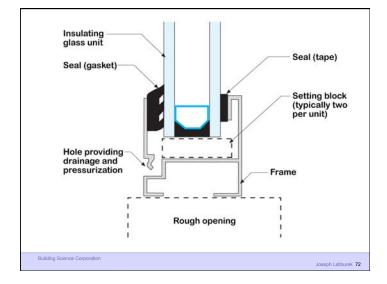
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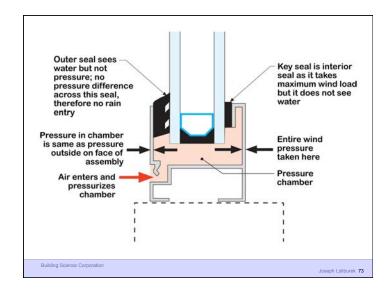


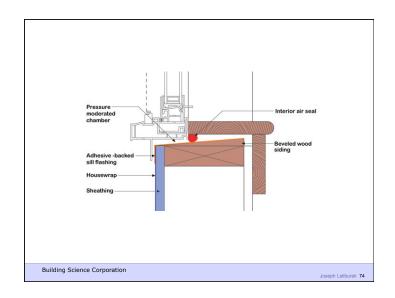


















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