

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

# Building Science

Adventures In Building Science

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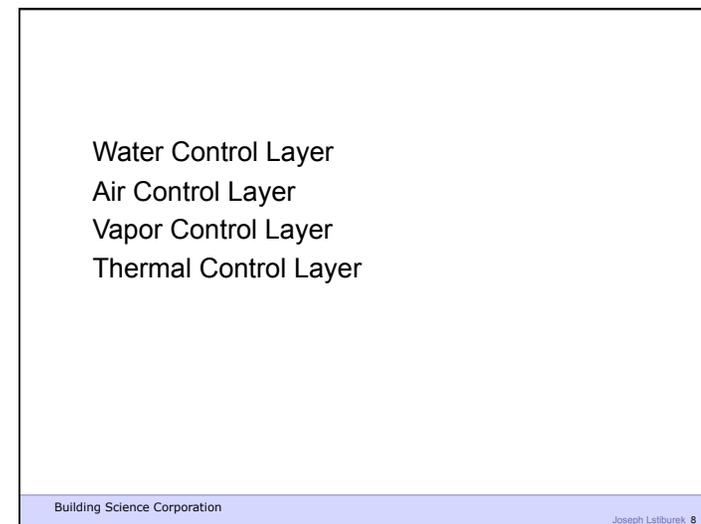
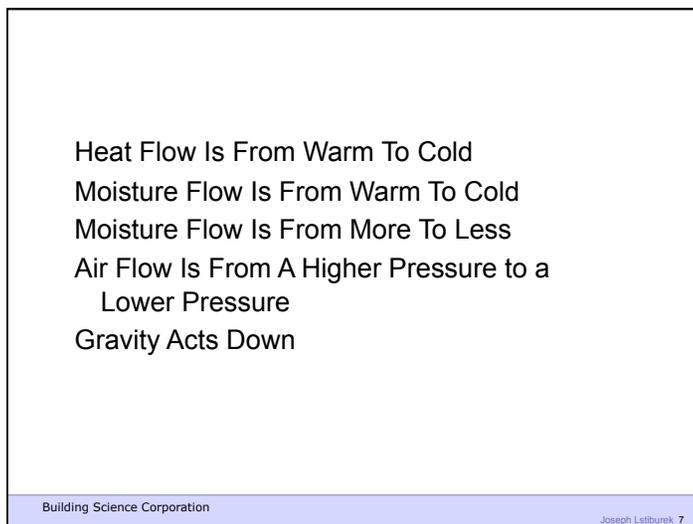
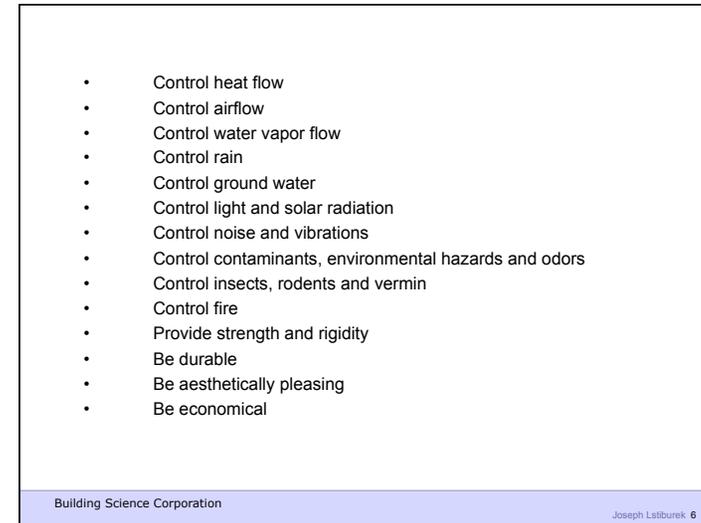
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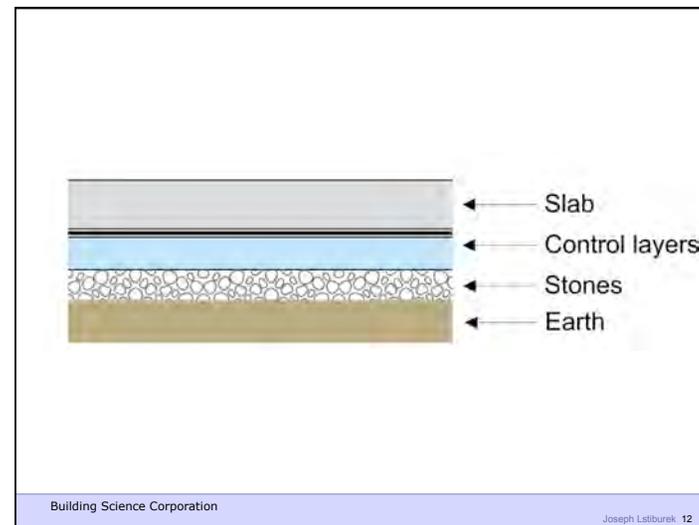
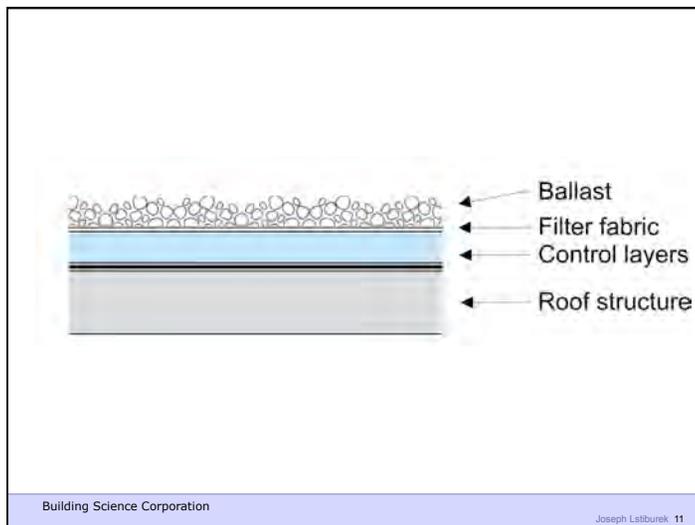
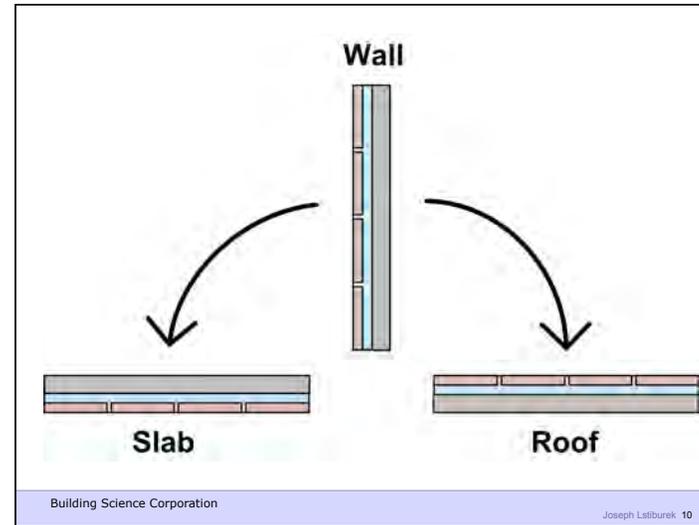
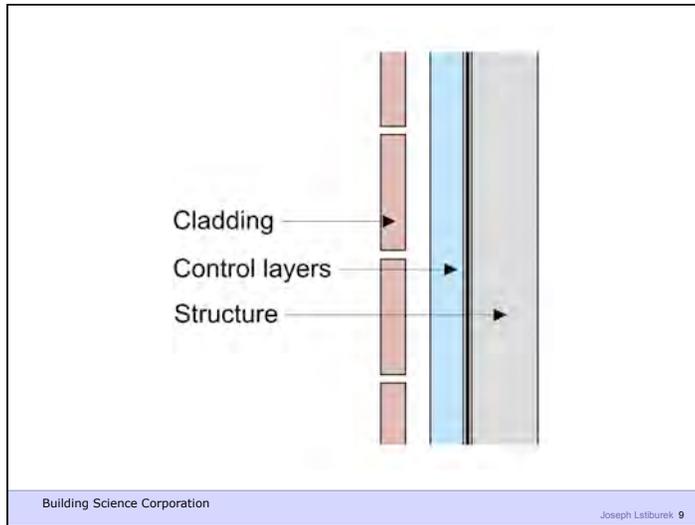
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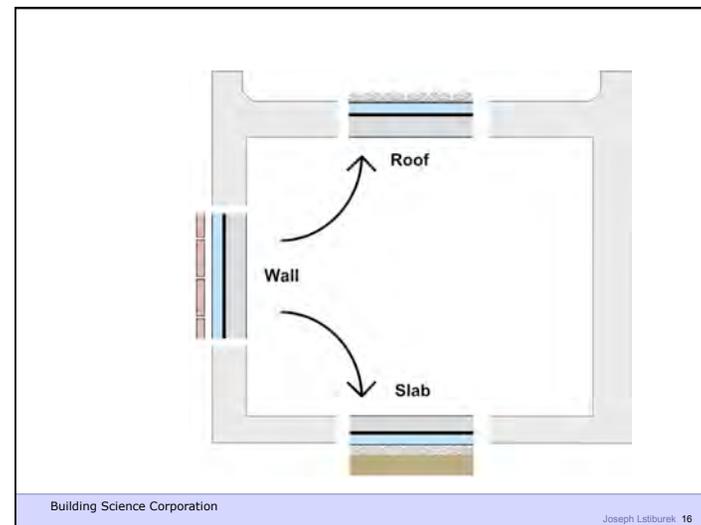
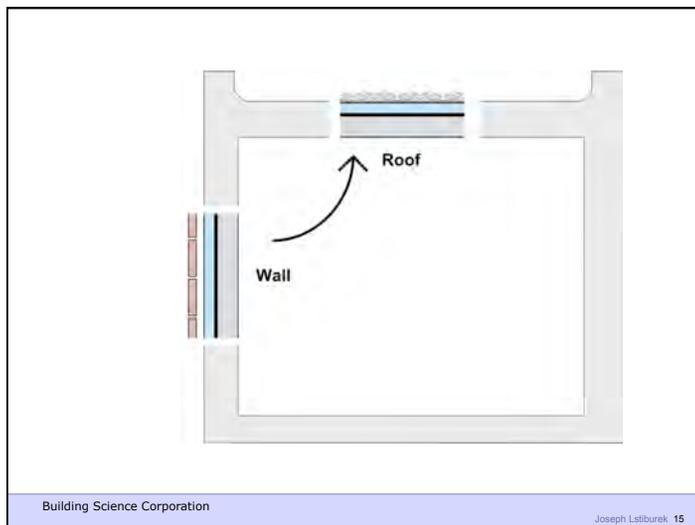
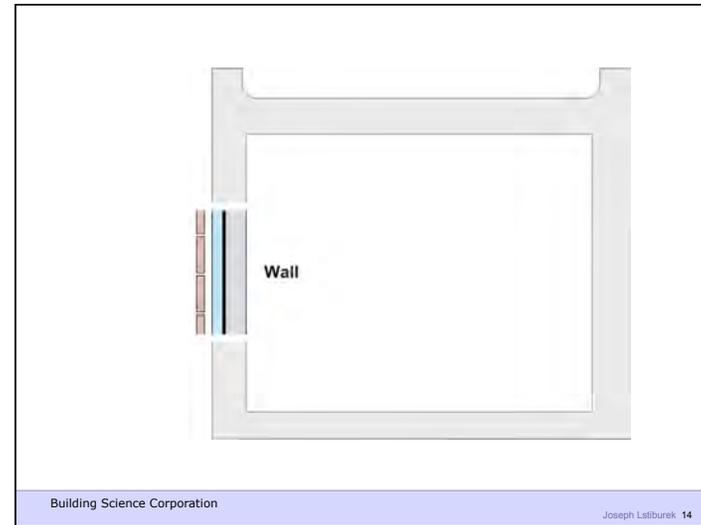
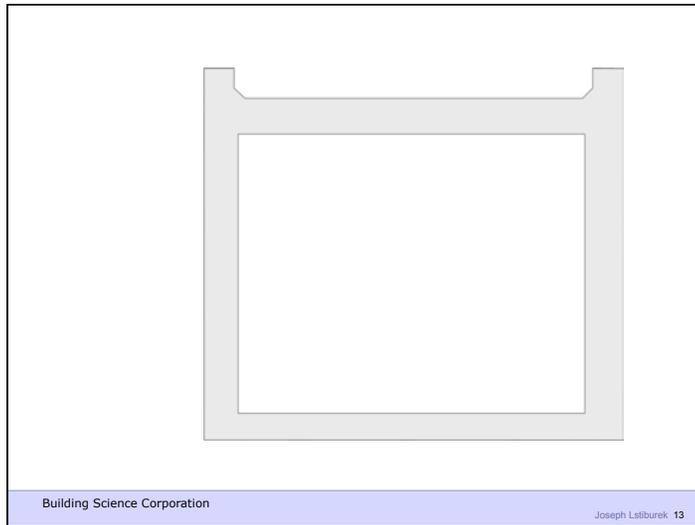


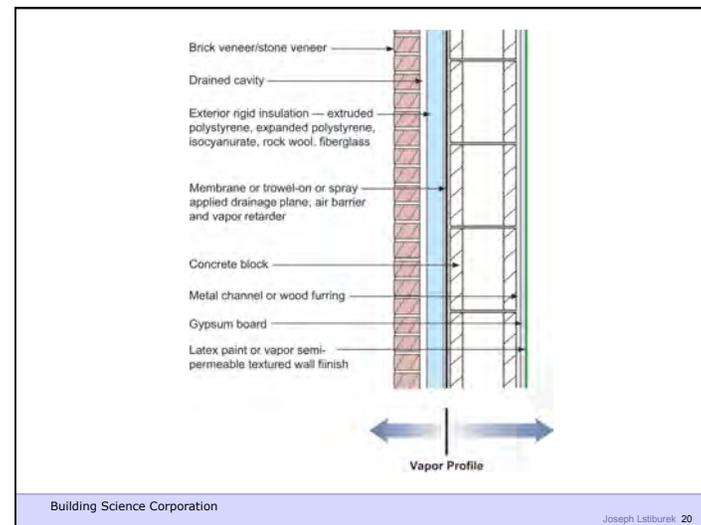
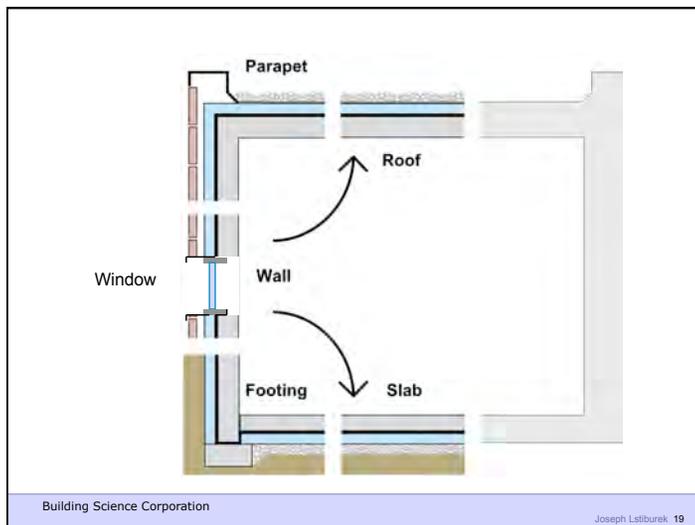
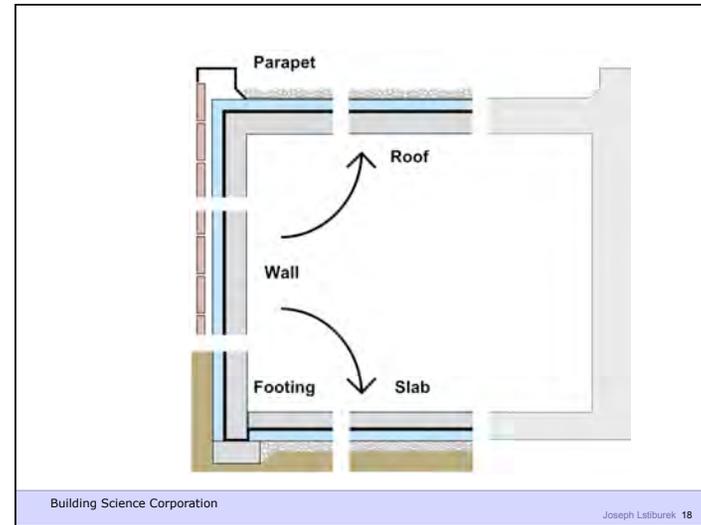
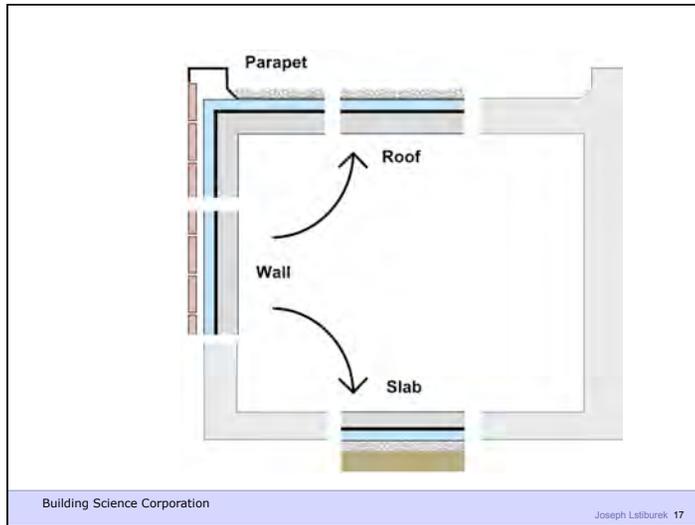
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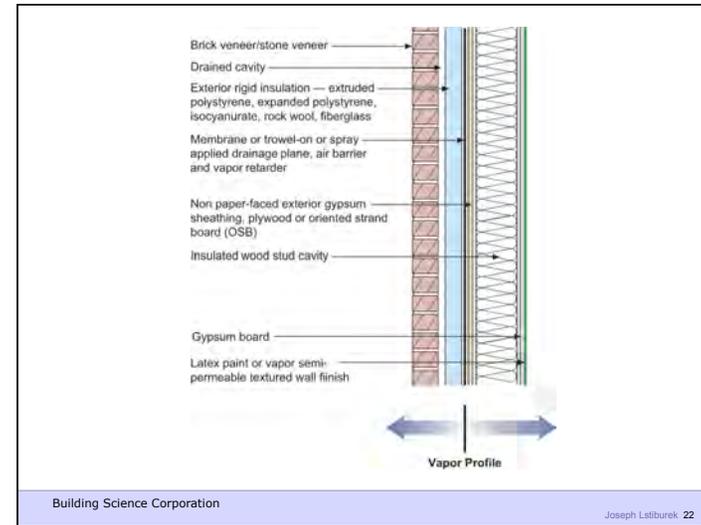
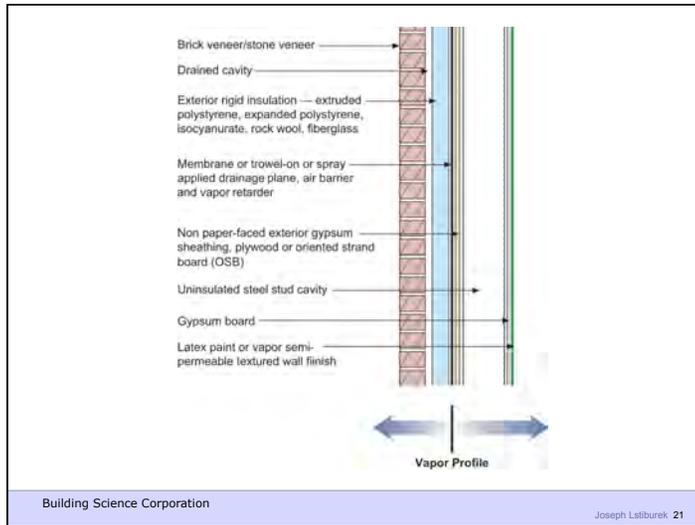
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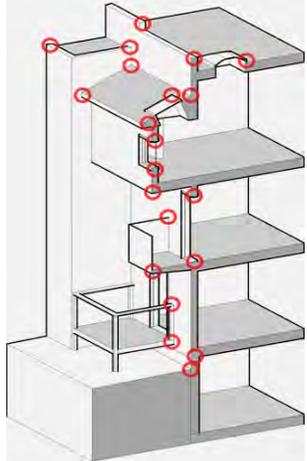
### Commercial Enclosure: Simple Layers



- Structure
- Rain/Air/Vapor
- Insulation
- Finish

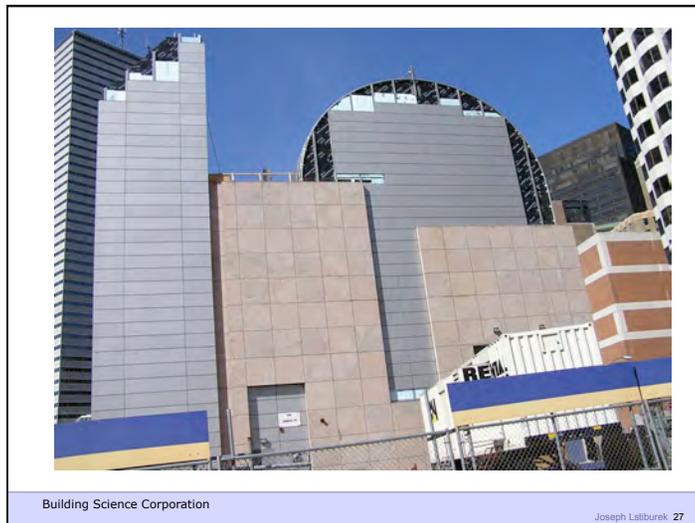
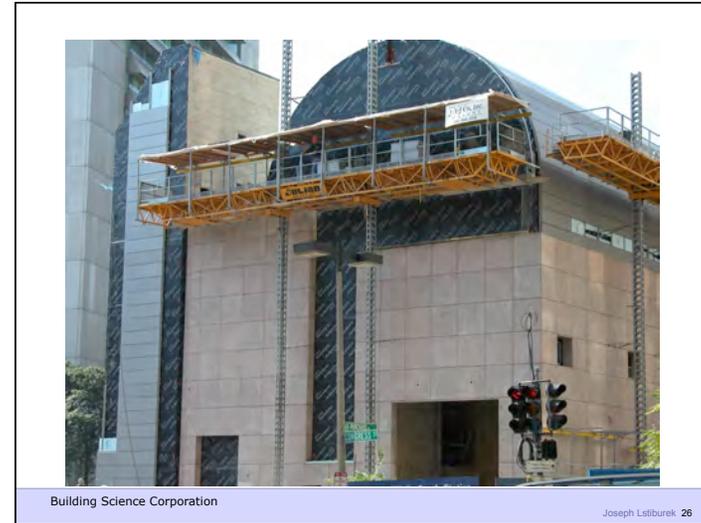
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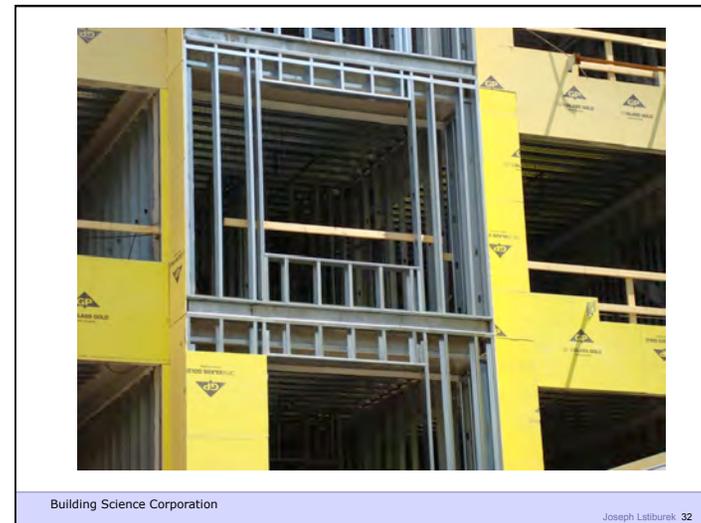
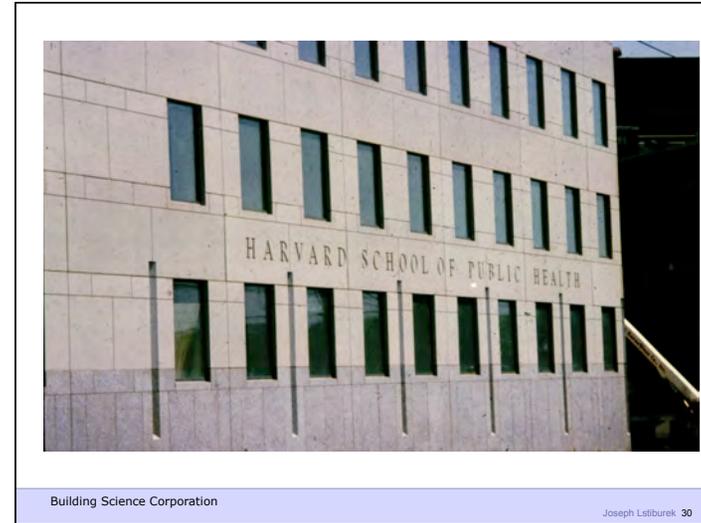
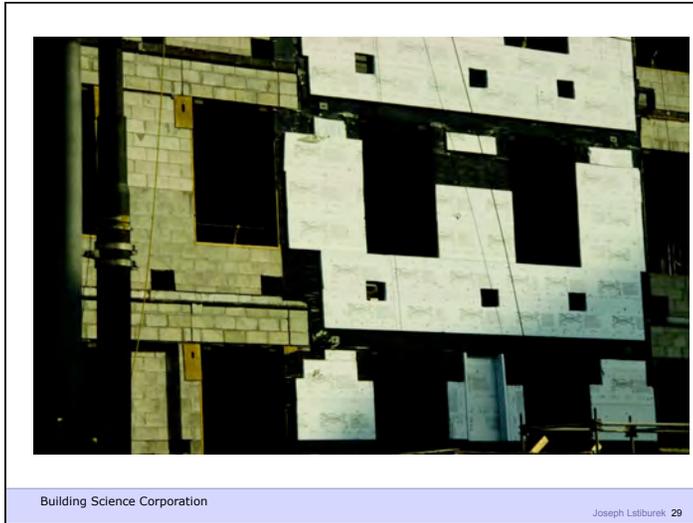
### Enclosure Design: Details



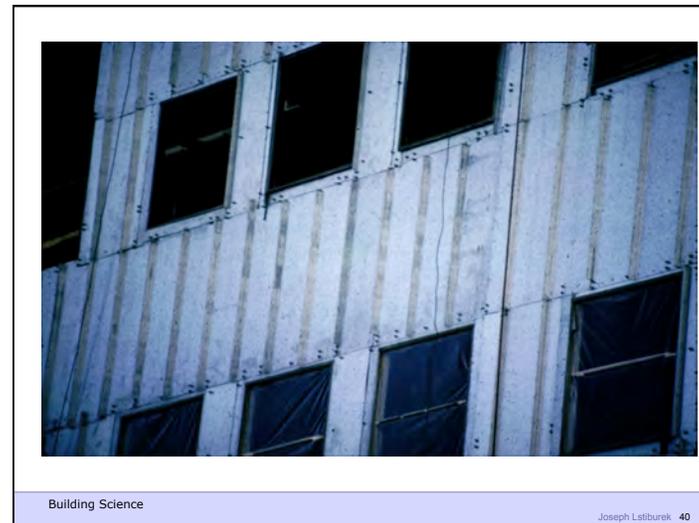
- Details demand the same approach as the enclosure.
- Scaled drawings required at

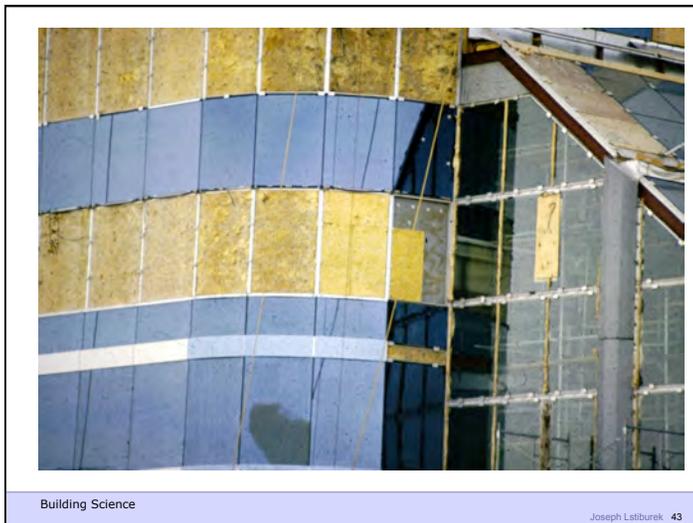
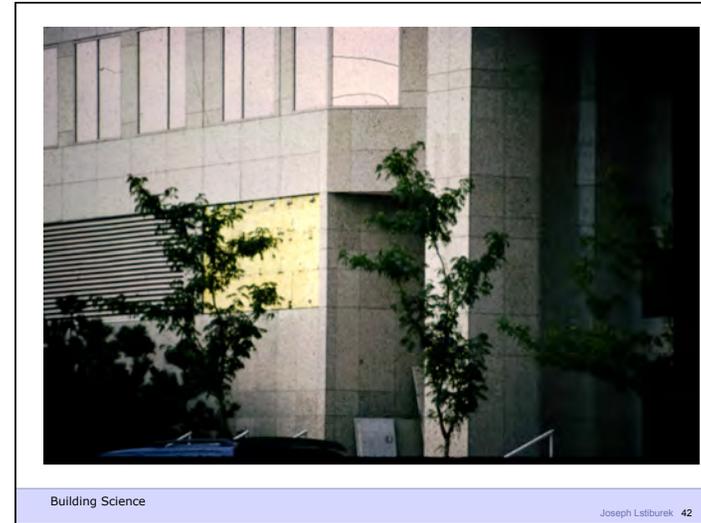
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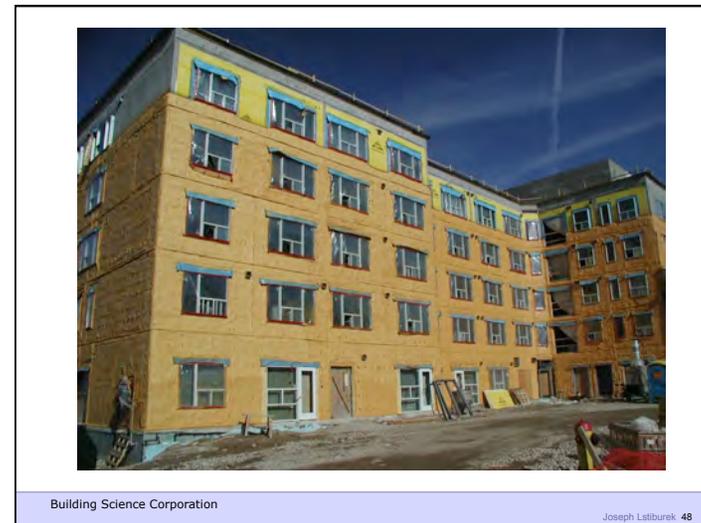
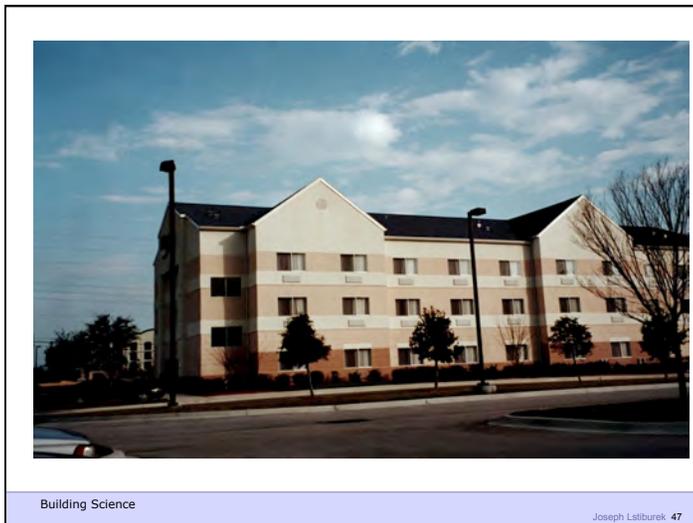
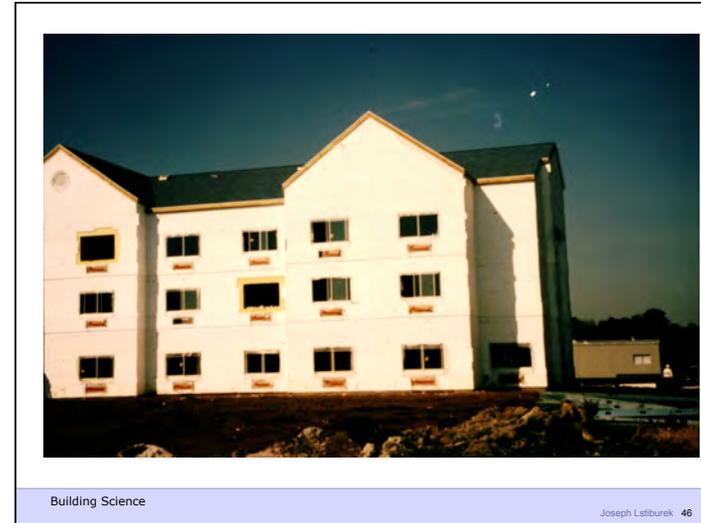
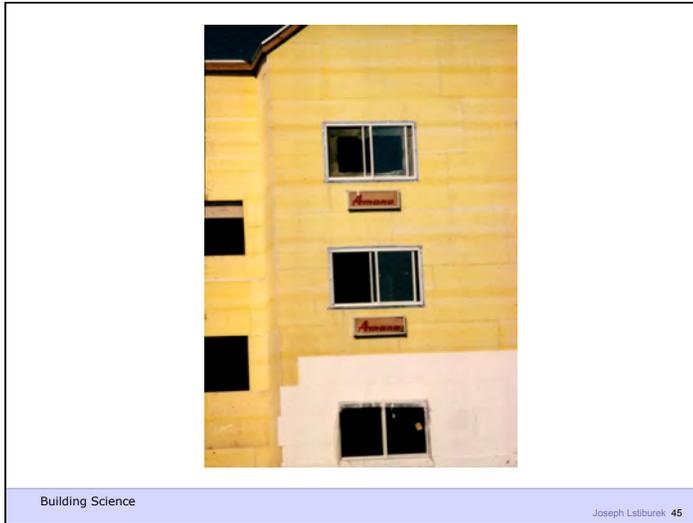


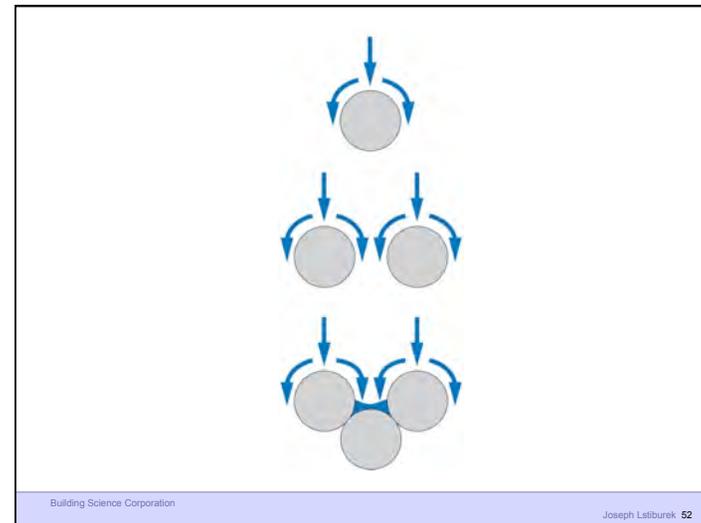
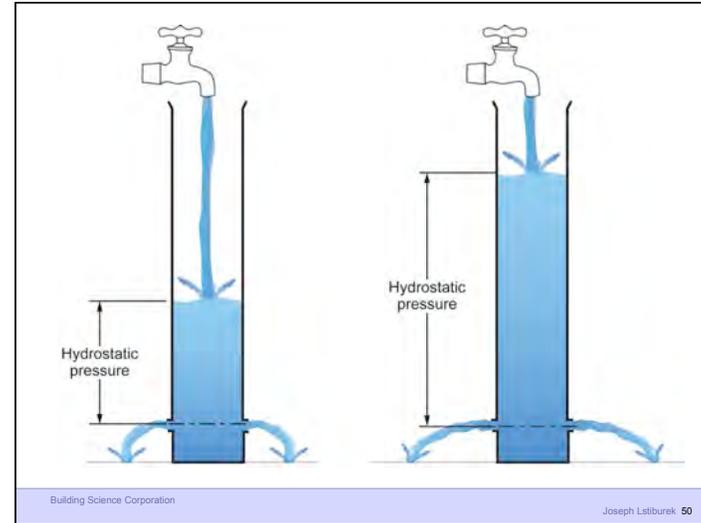
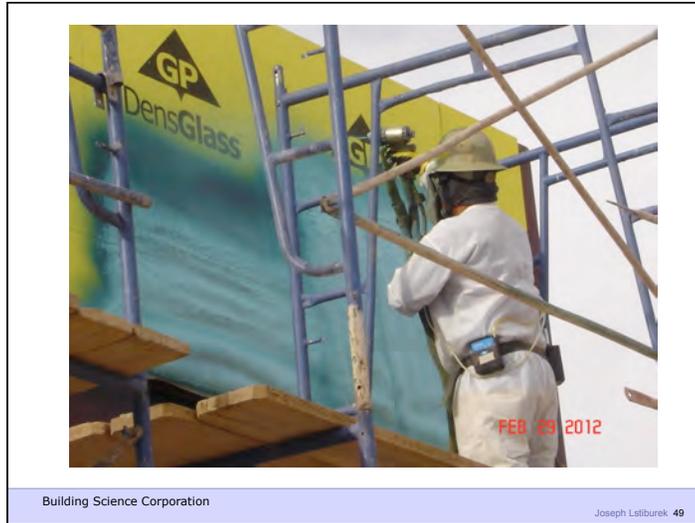


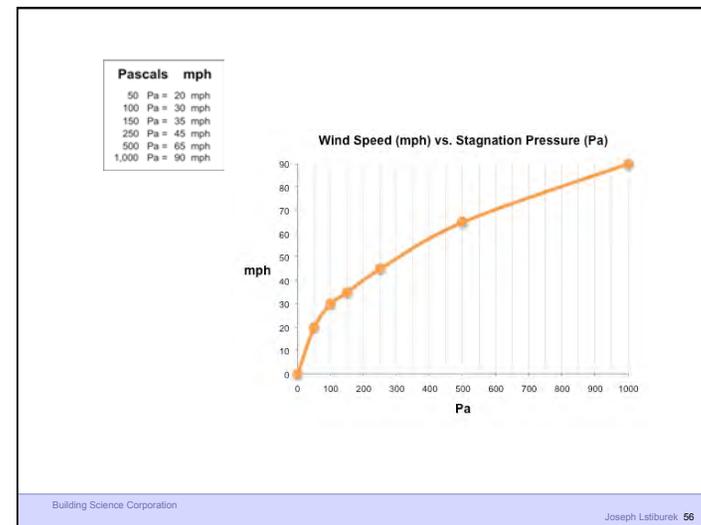
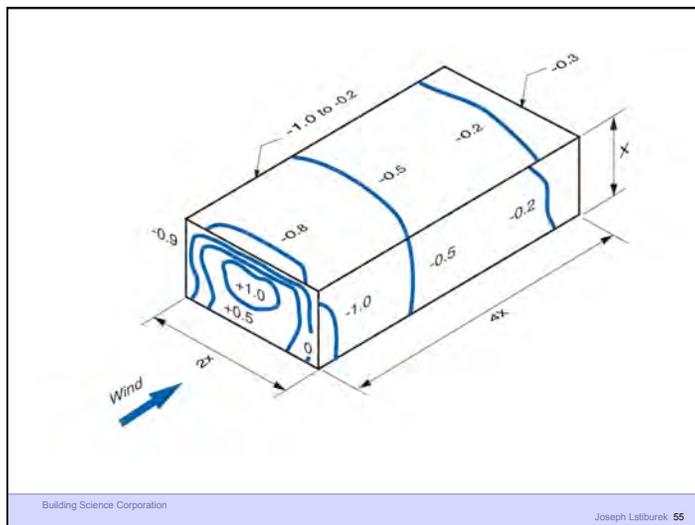
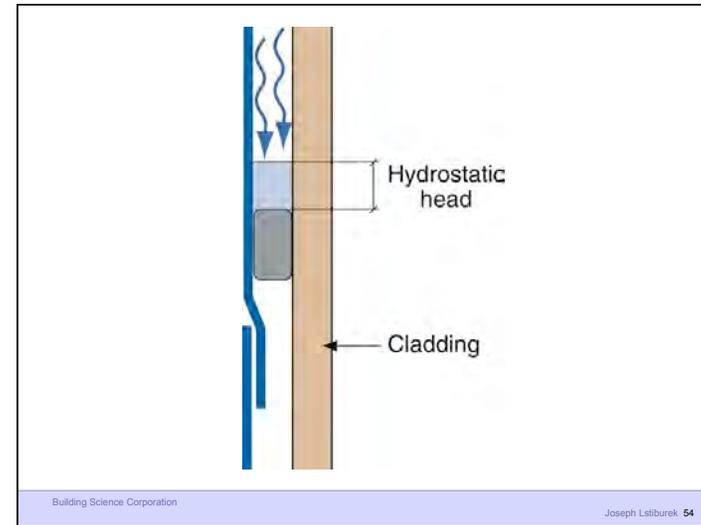
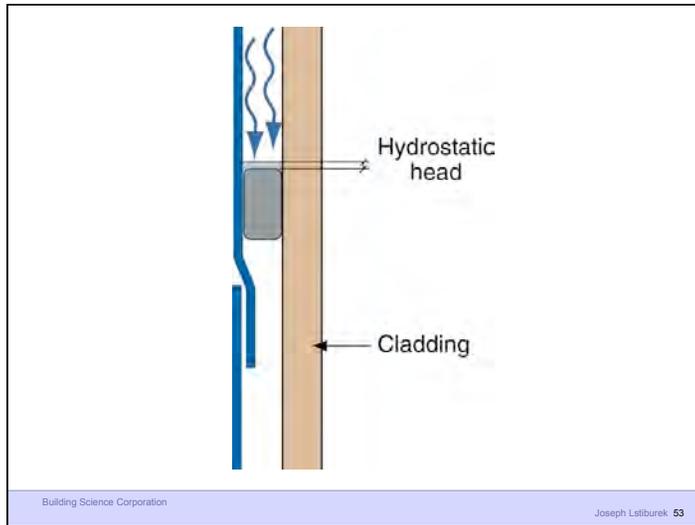


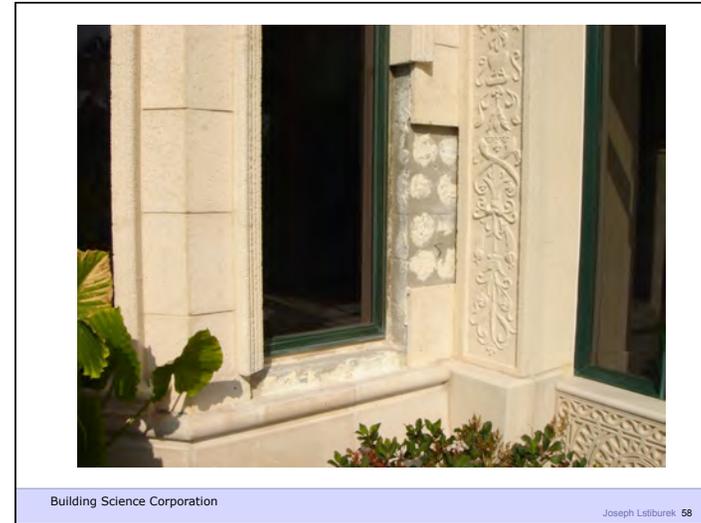
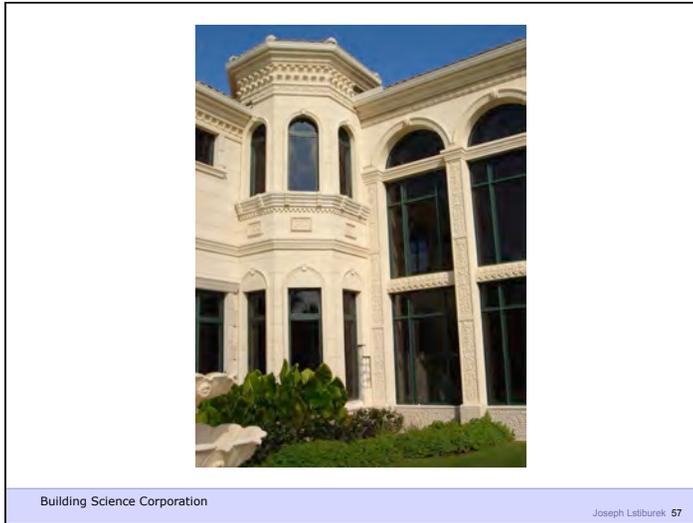


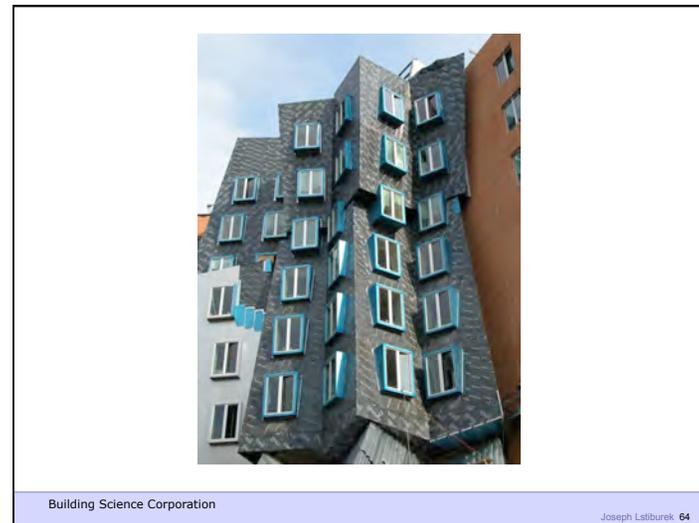


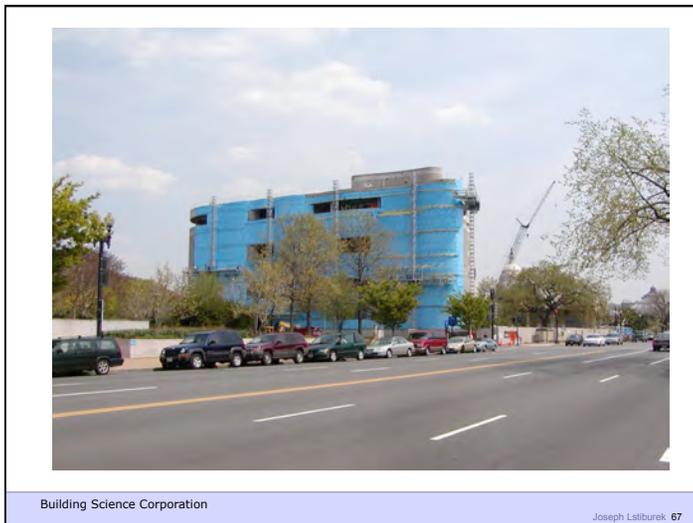
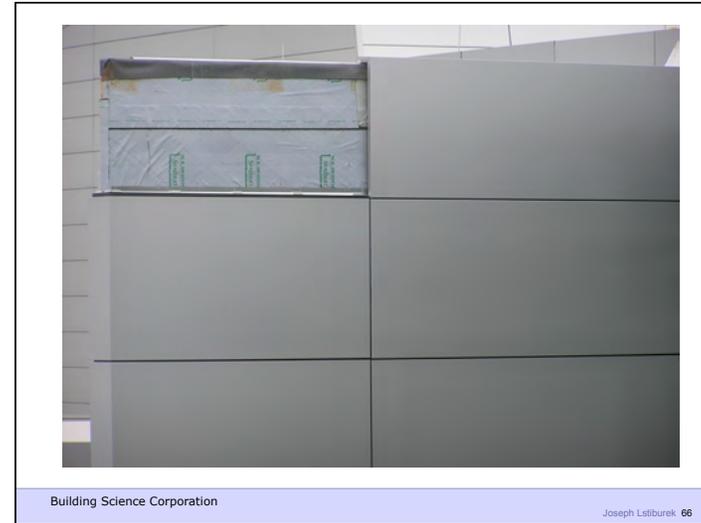


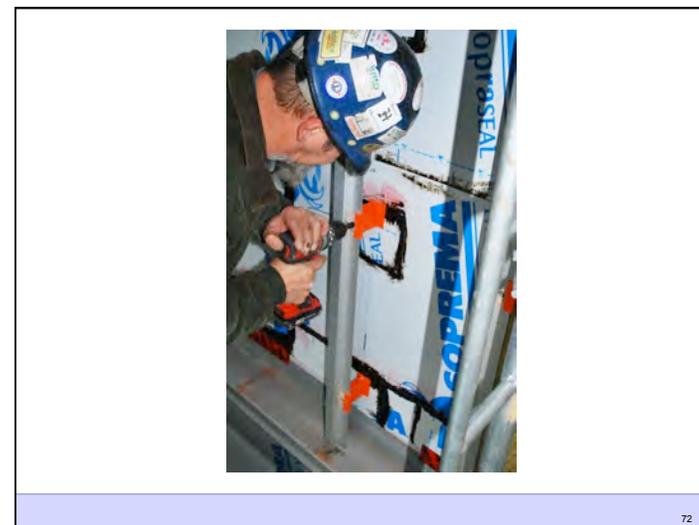
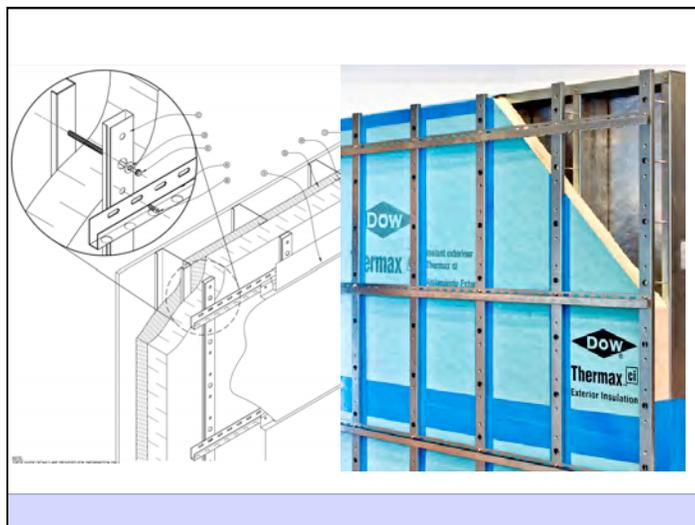
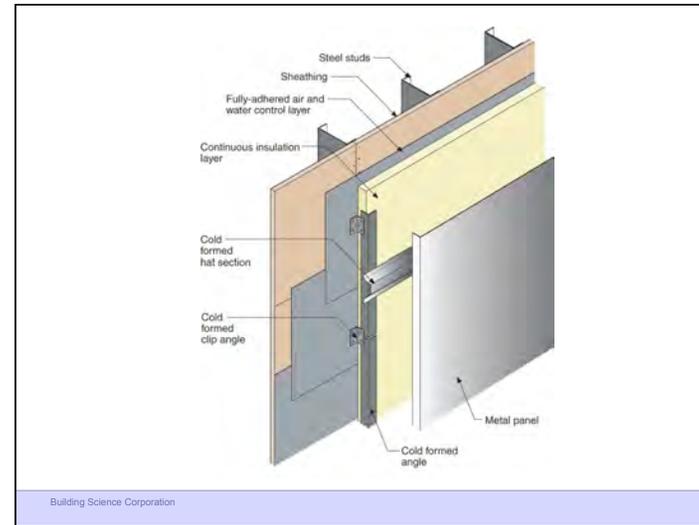
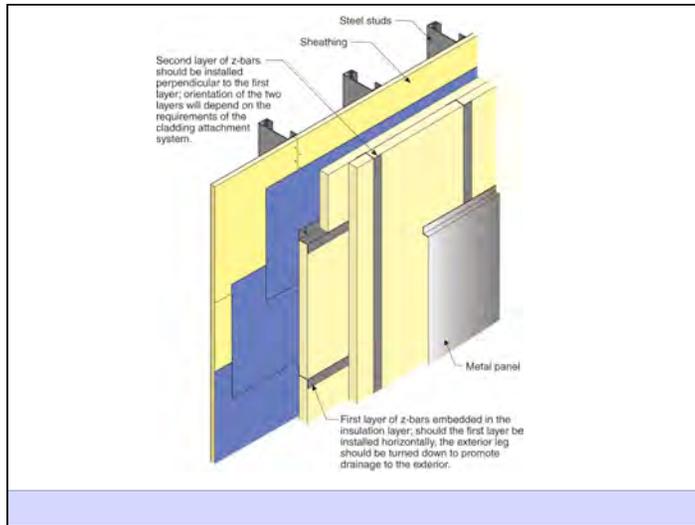








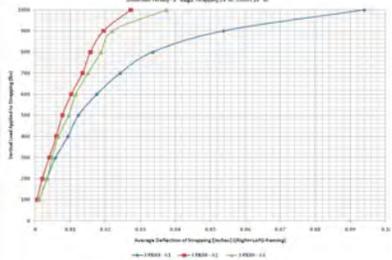


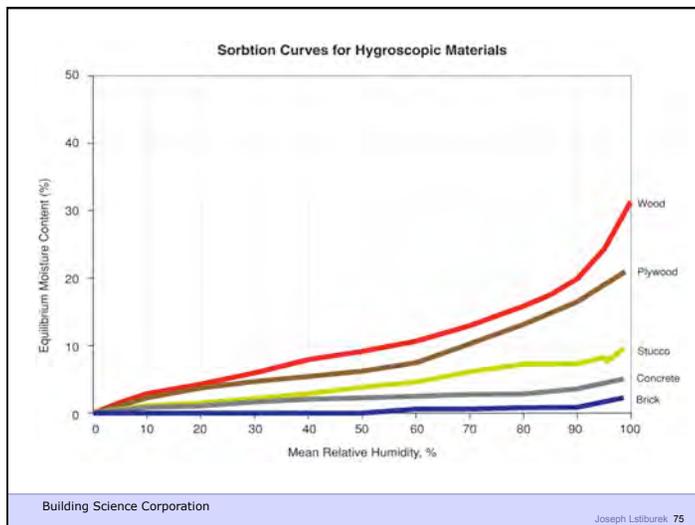
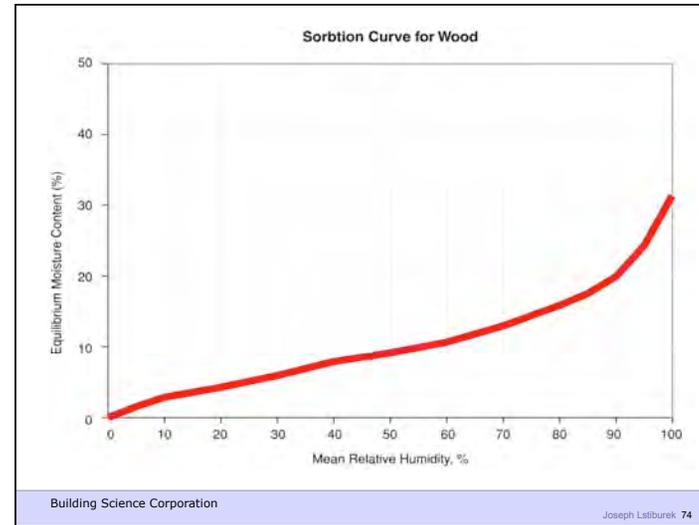


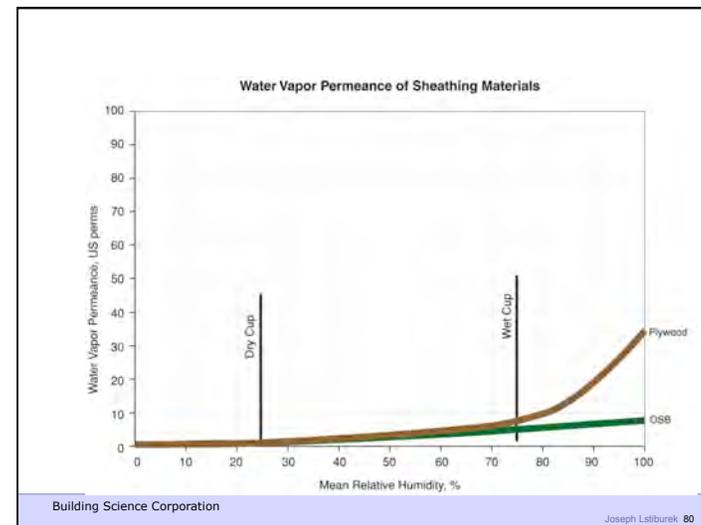
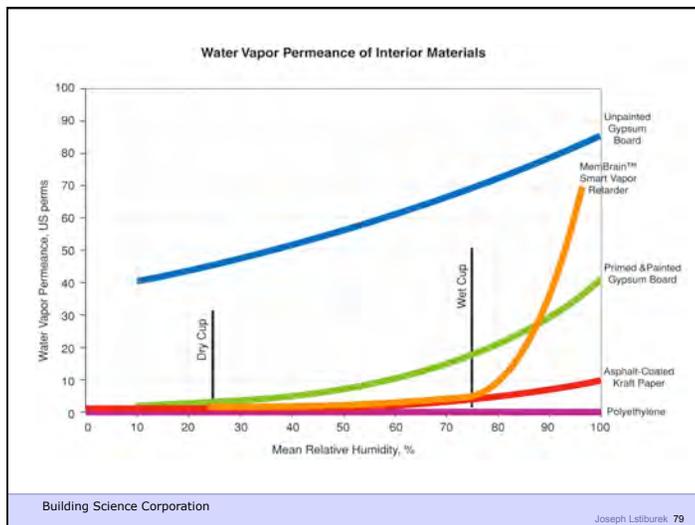
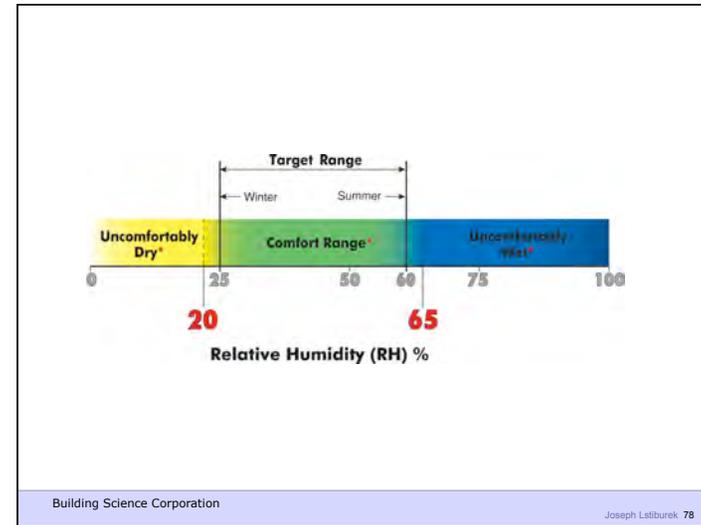
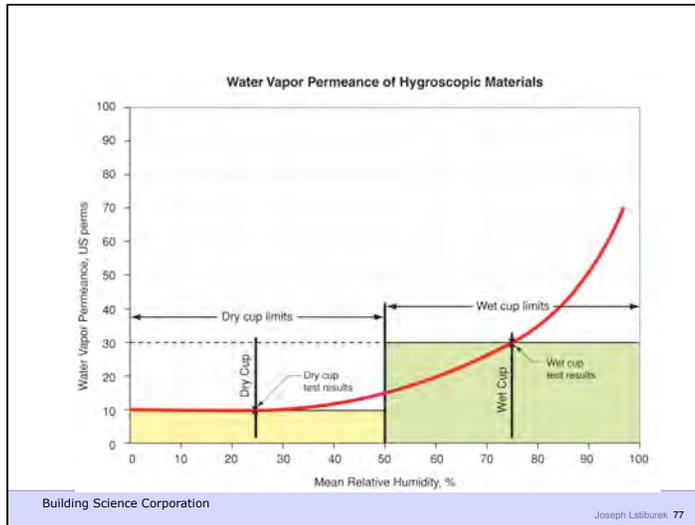


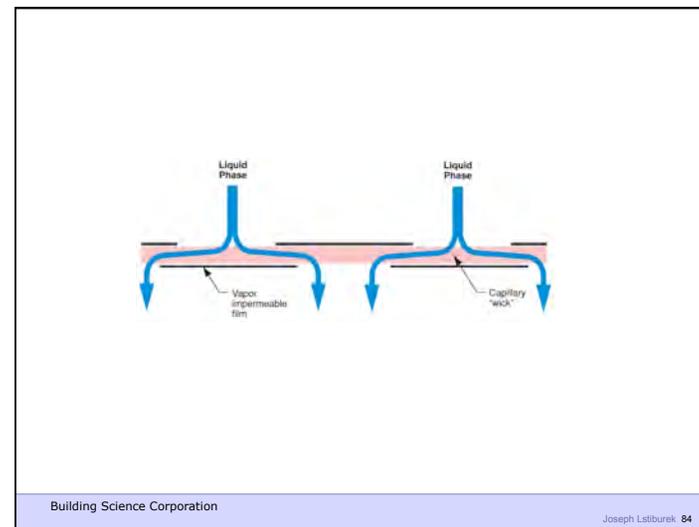
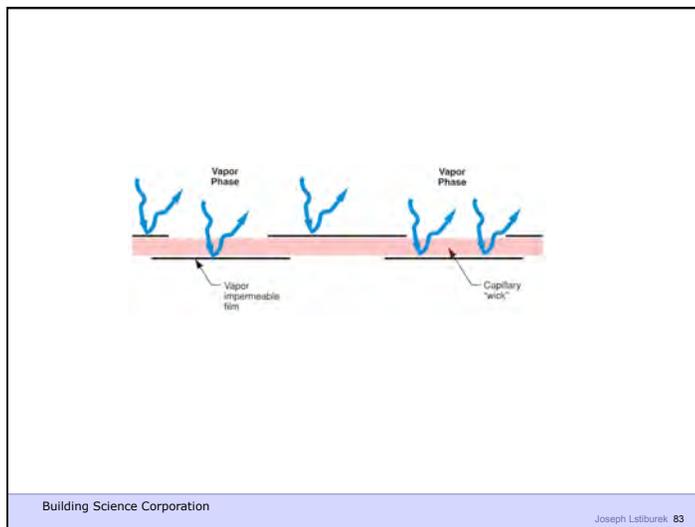
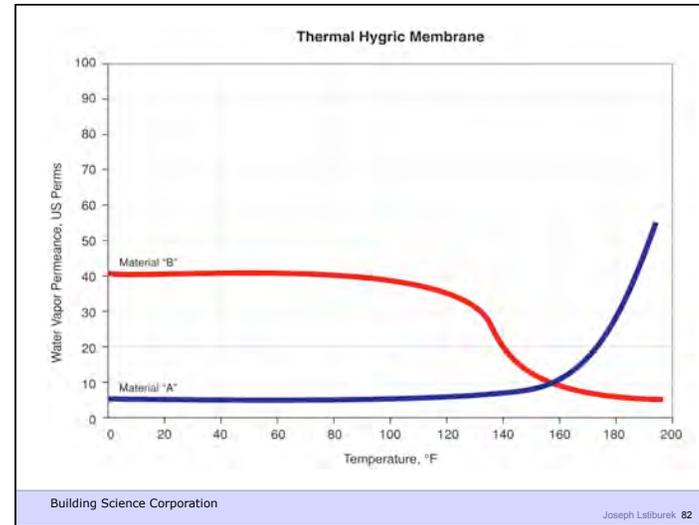
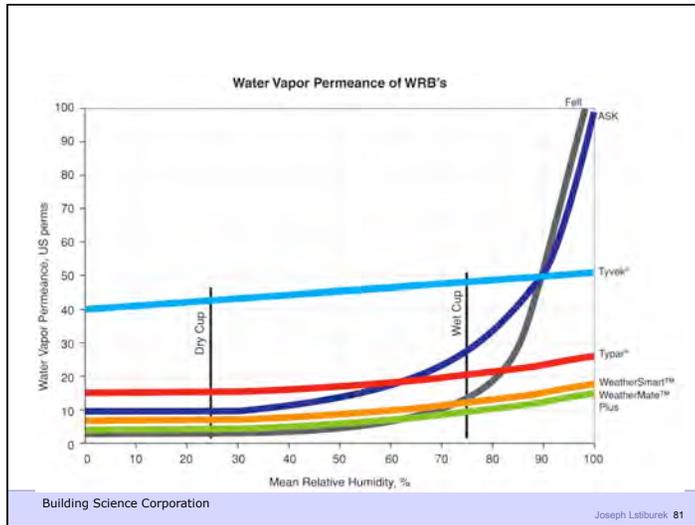
## Rockwool

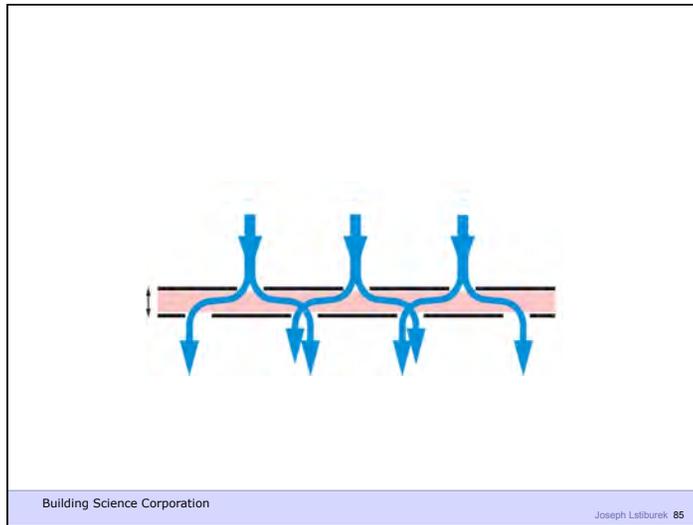
1x3 furring @ 24" o.c.  
 #10 screws @ 16" o.c. vertically  
 Result: 20 psf cladding weight  
 with < 2/100" deflection





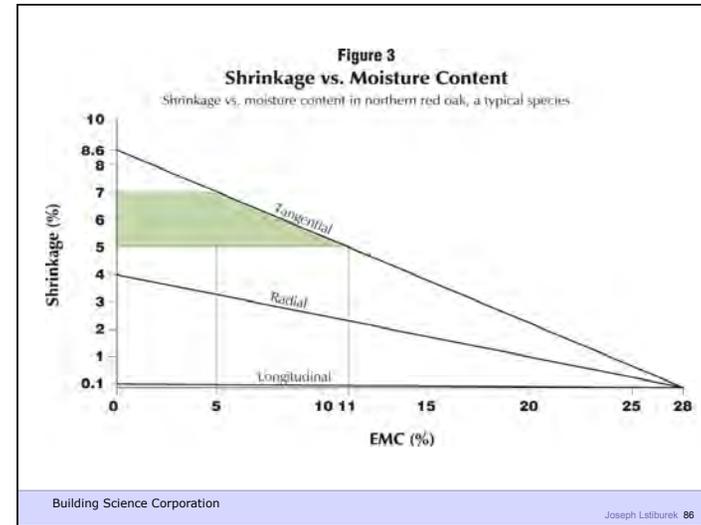






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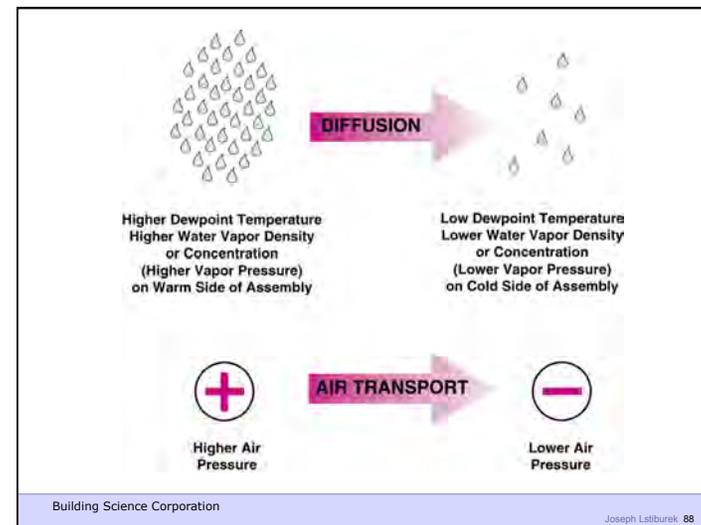
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