

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

Building Science

EPS Residential Conference

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Life is Tough Enough As it Is...

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Life is Tough Enough As it Is...
It's Harder When You Are Stupid

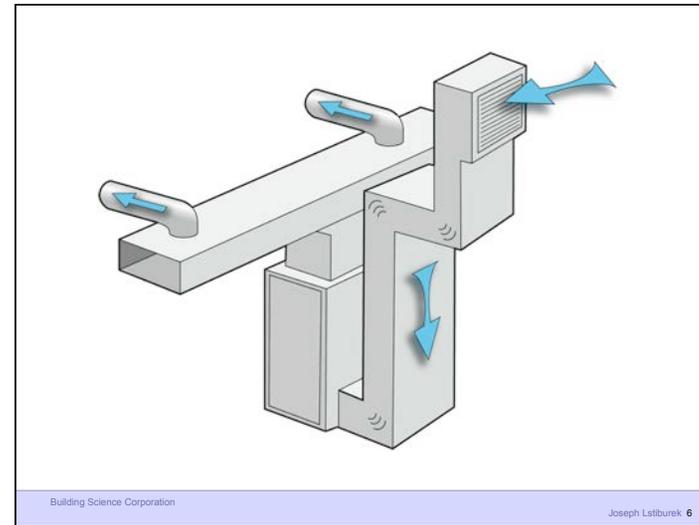
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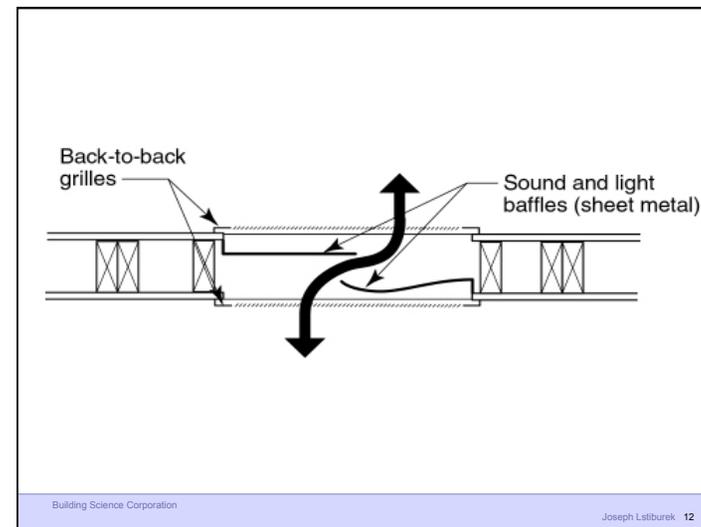
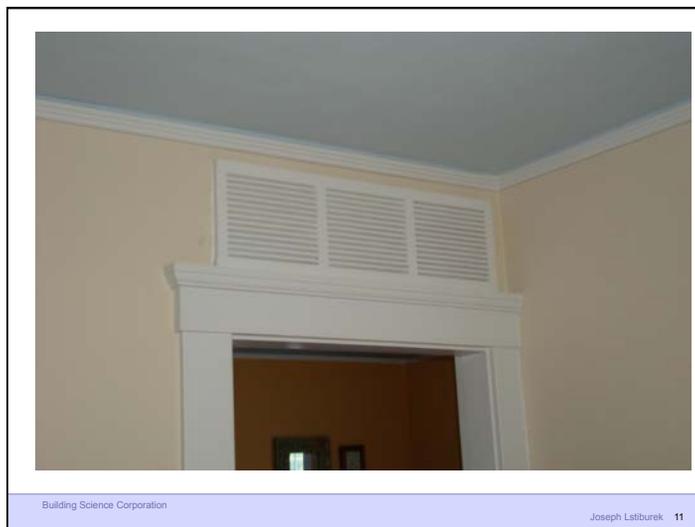
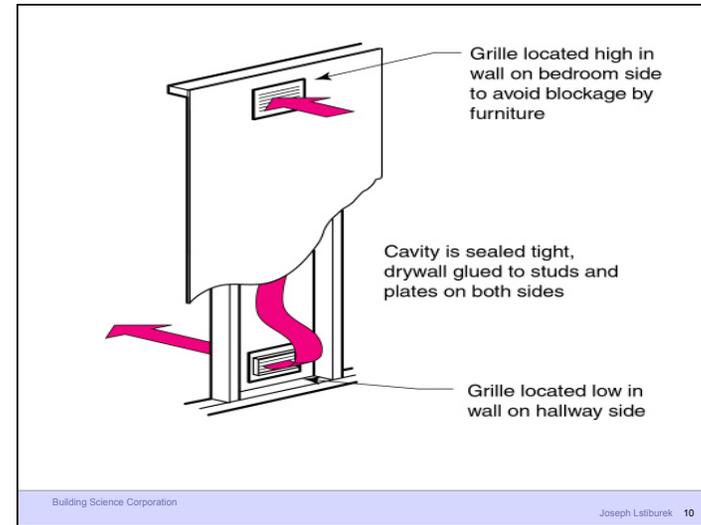
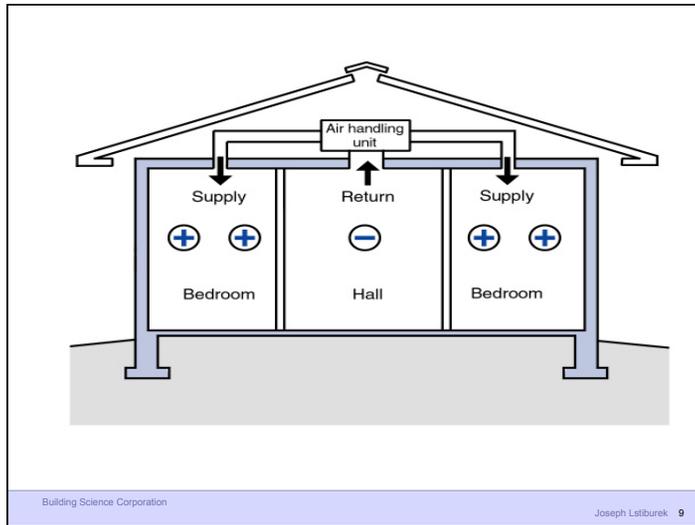
Don't Do Stupid Things

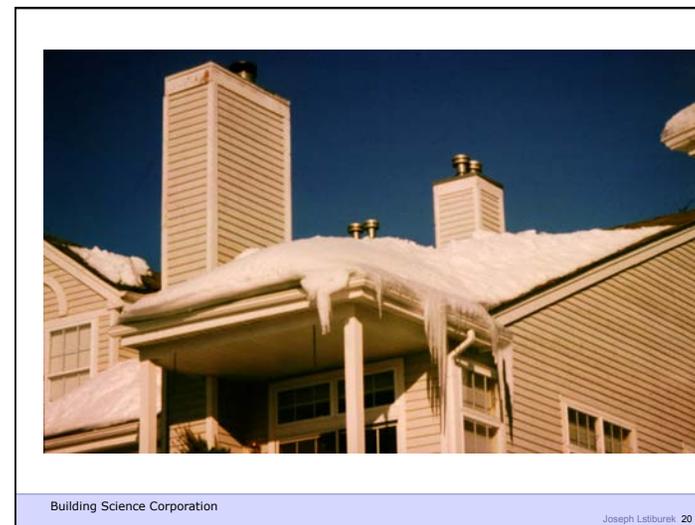
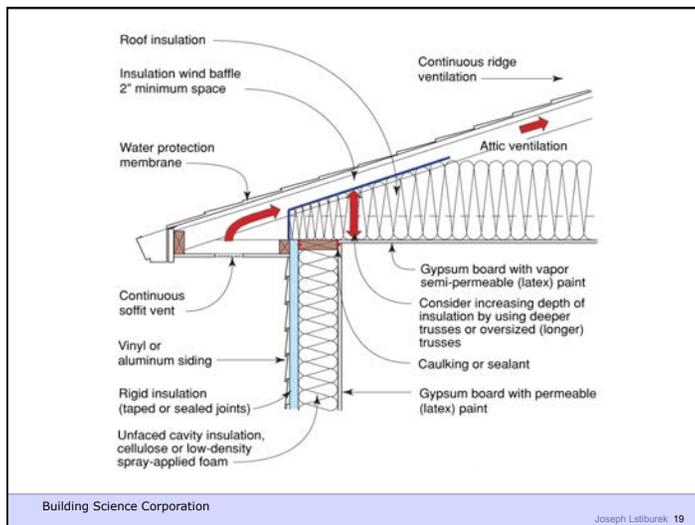
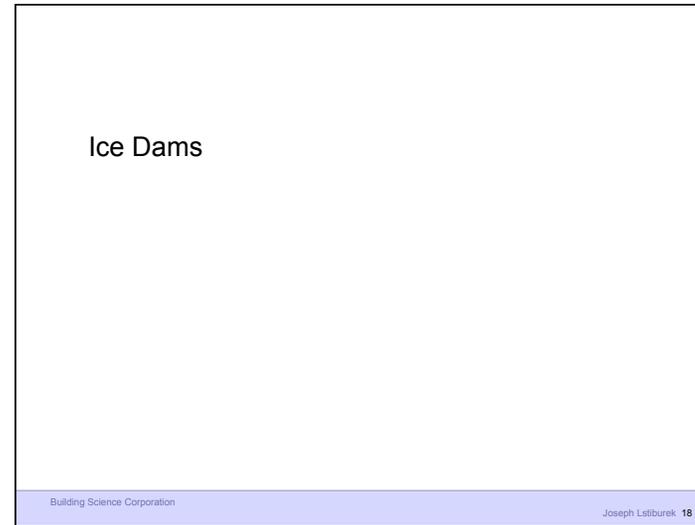
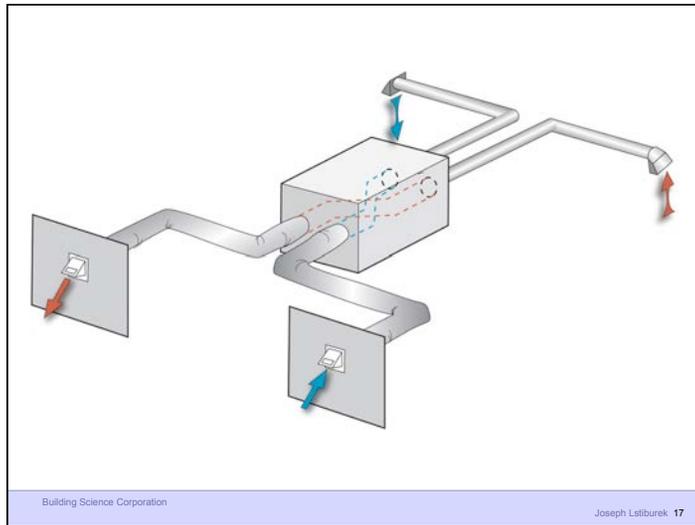
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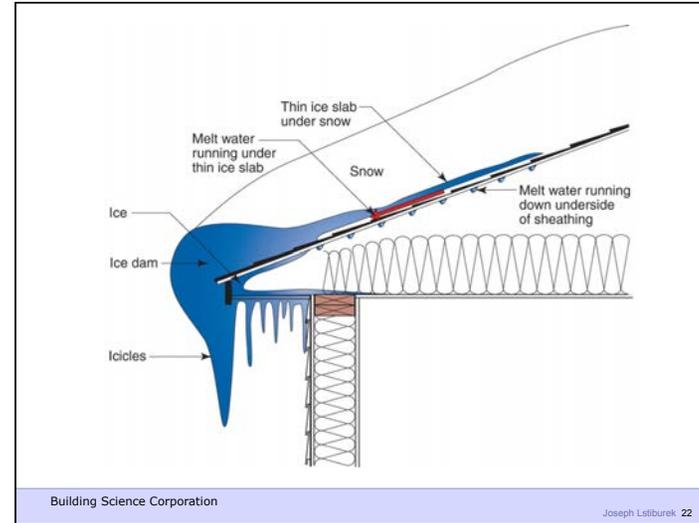
Single Hard Ducted Returns and Transfer
Grilles and Jump Ducts

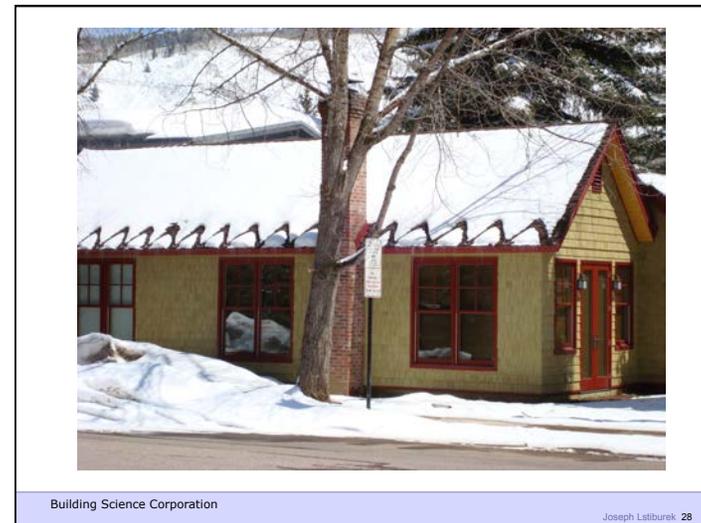
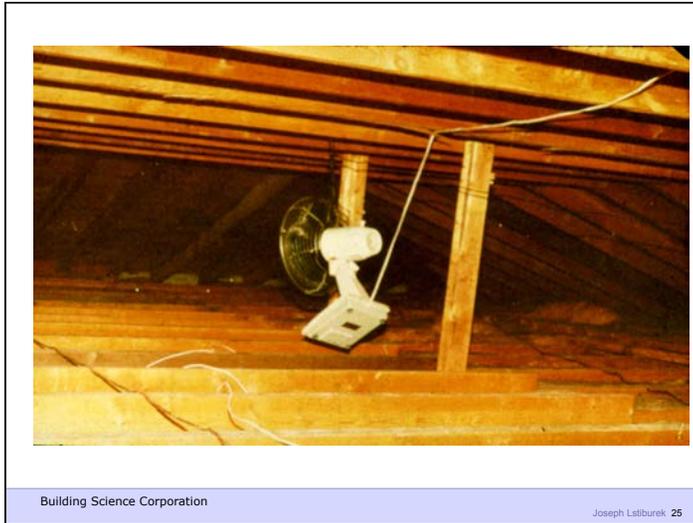
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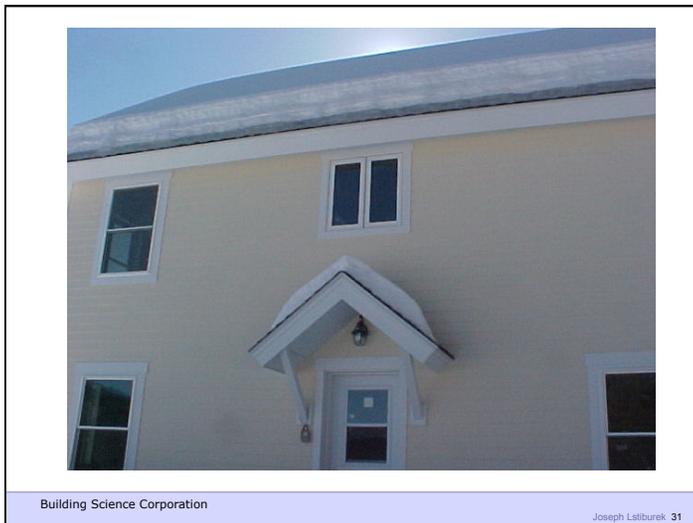
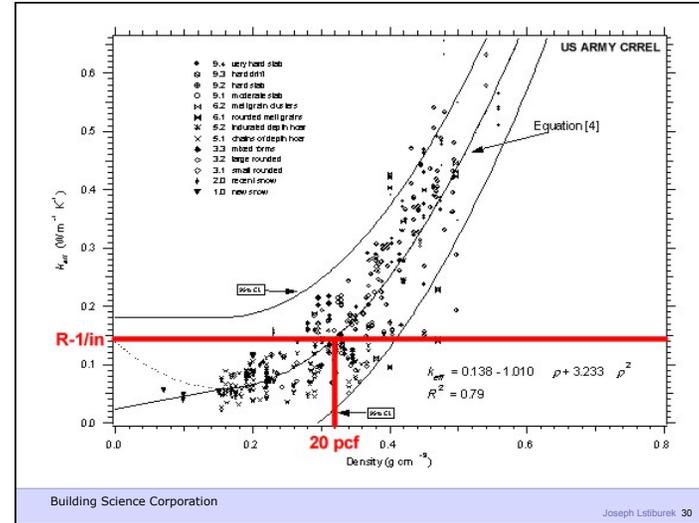


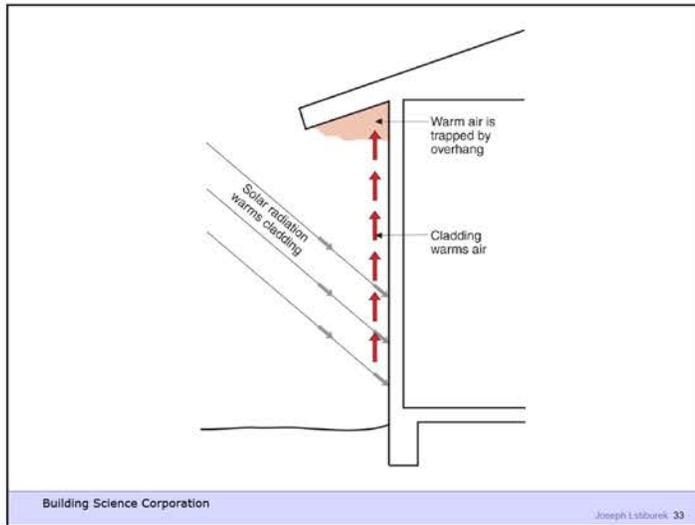


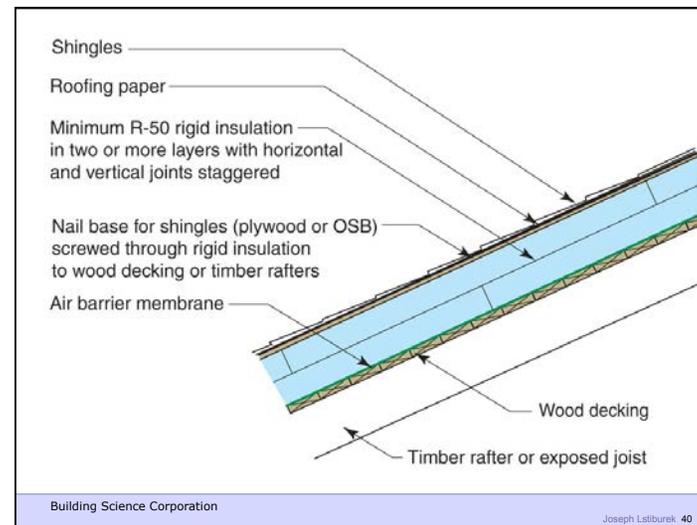
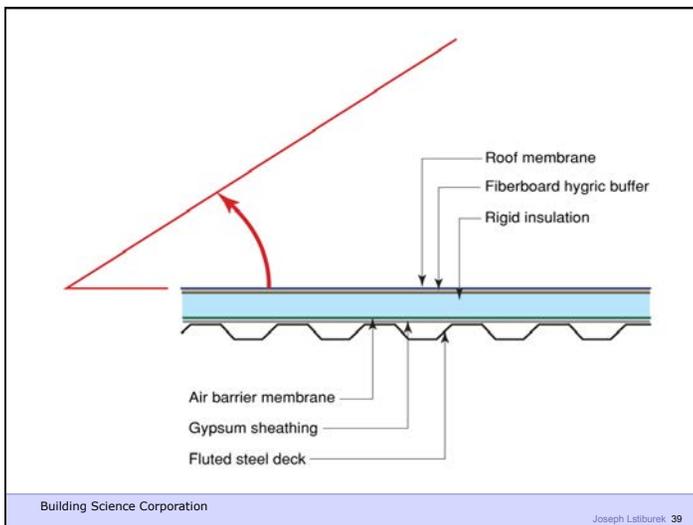
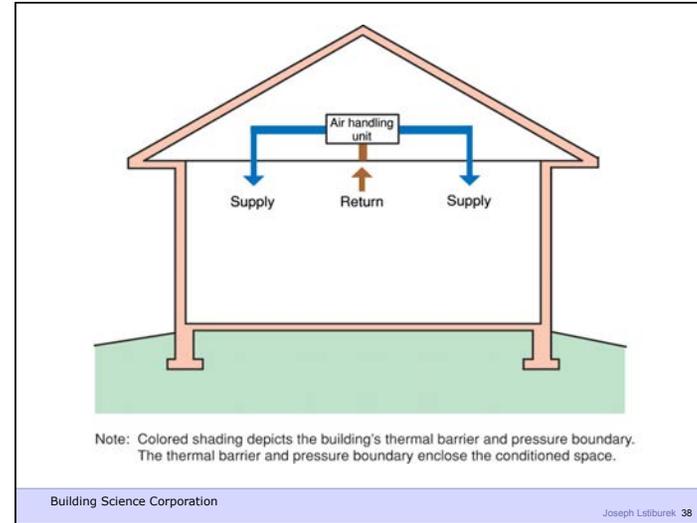
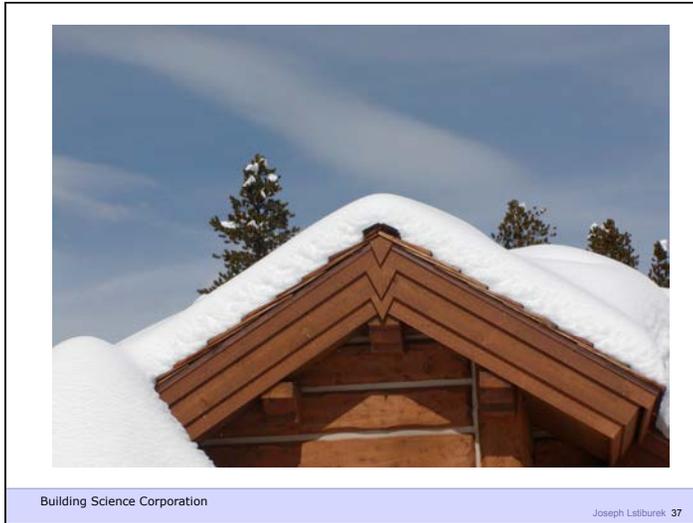


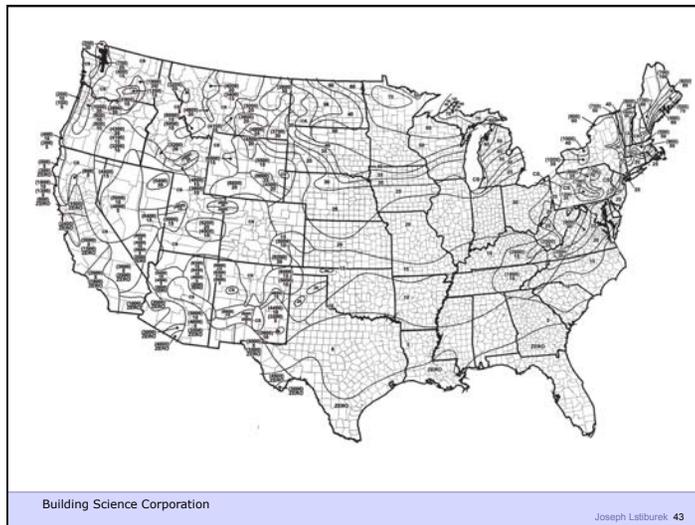
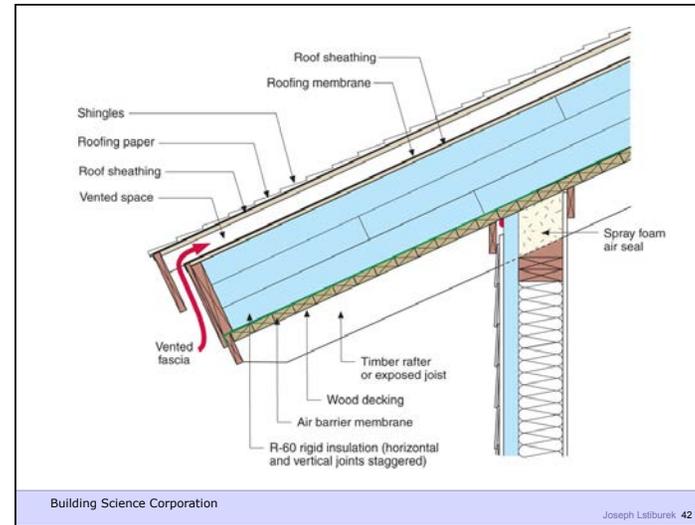
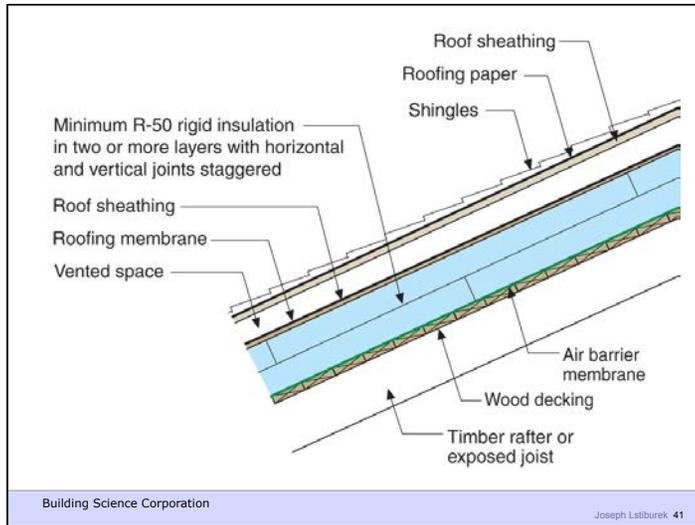


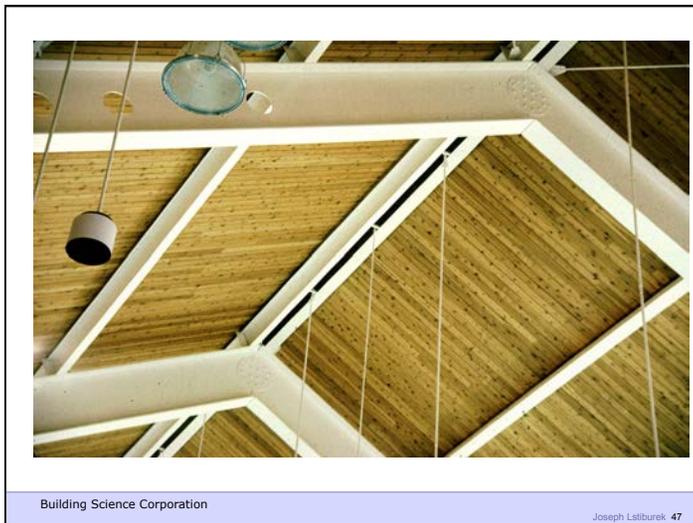
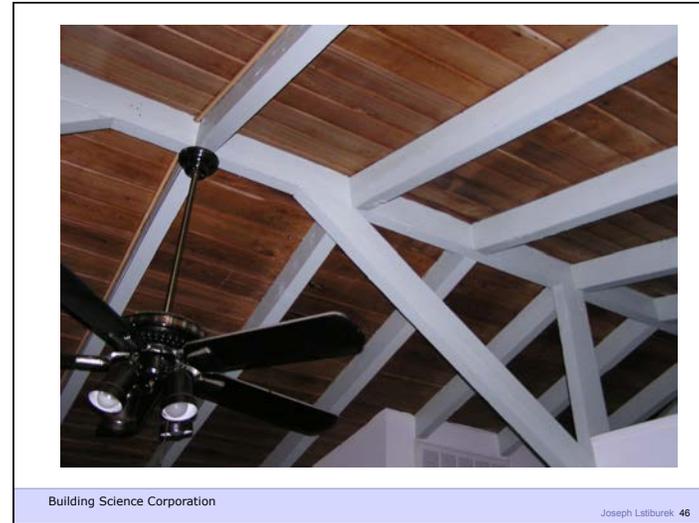
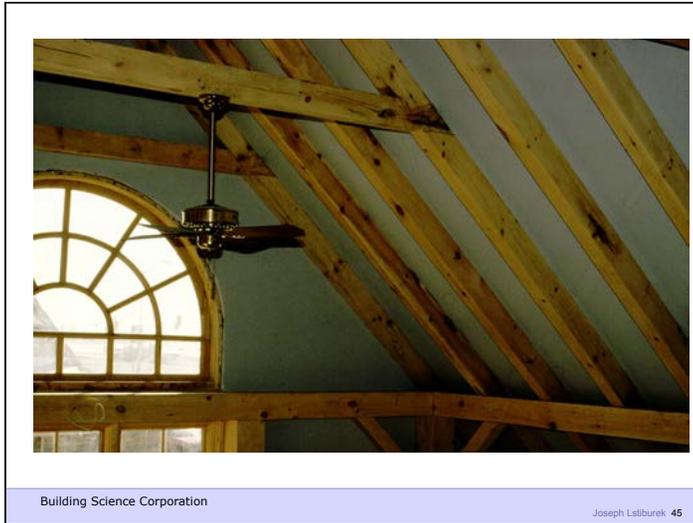




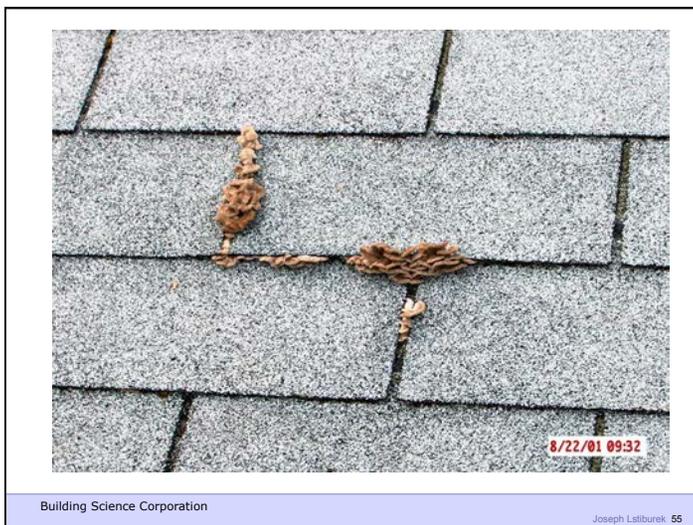
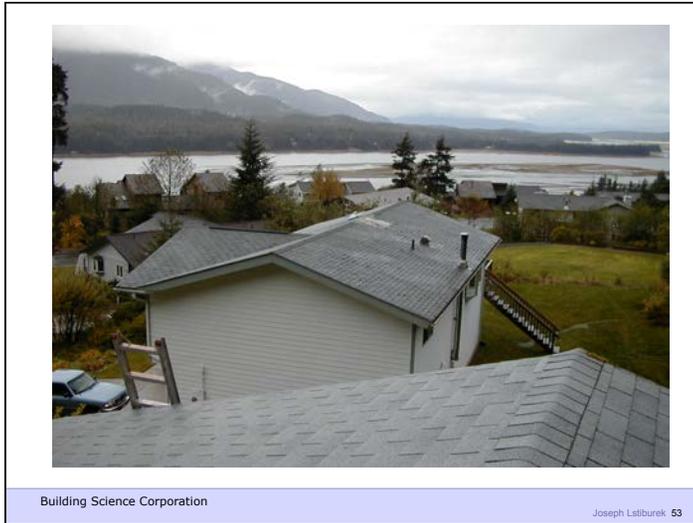








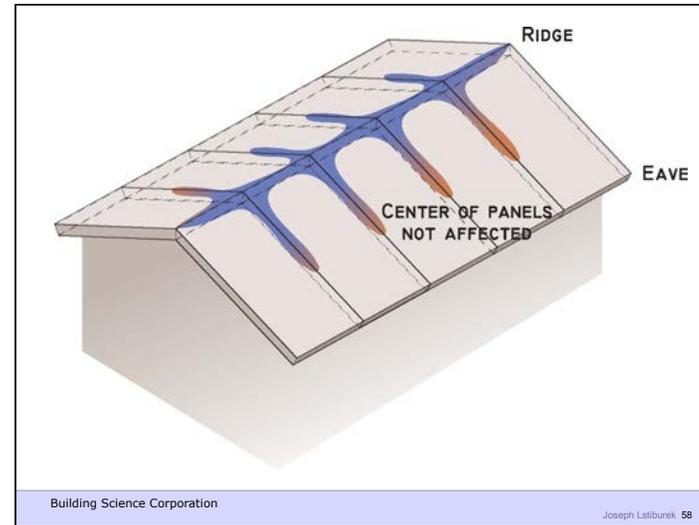






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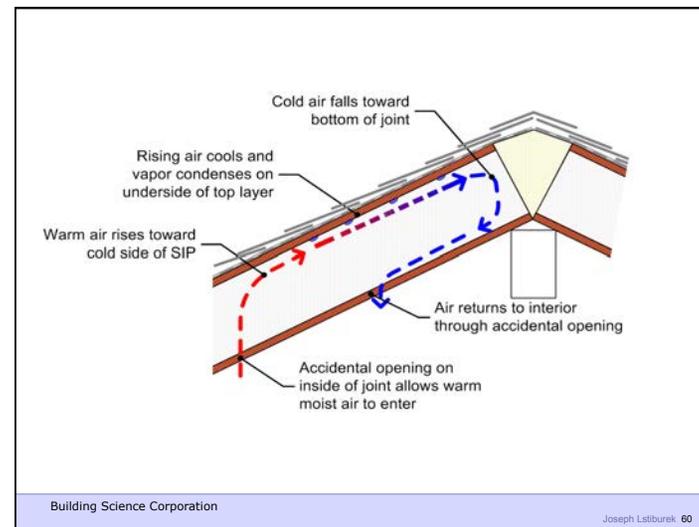
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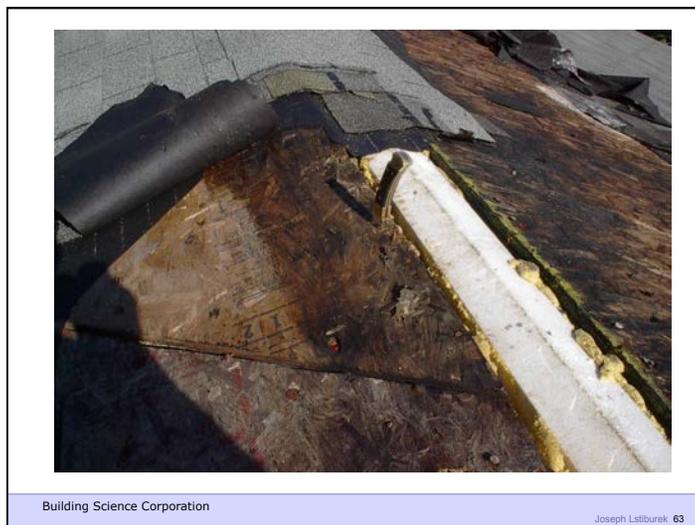
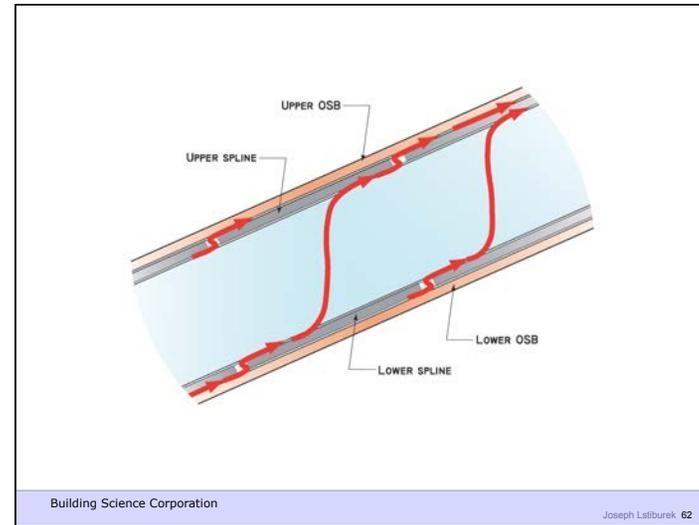
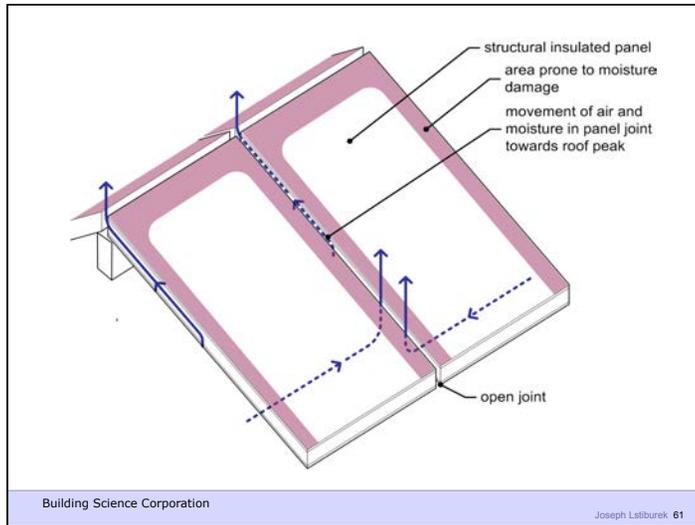
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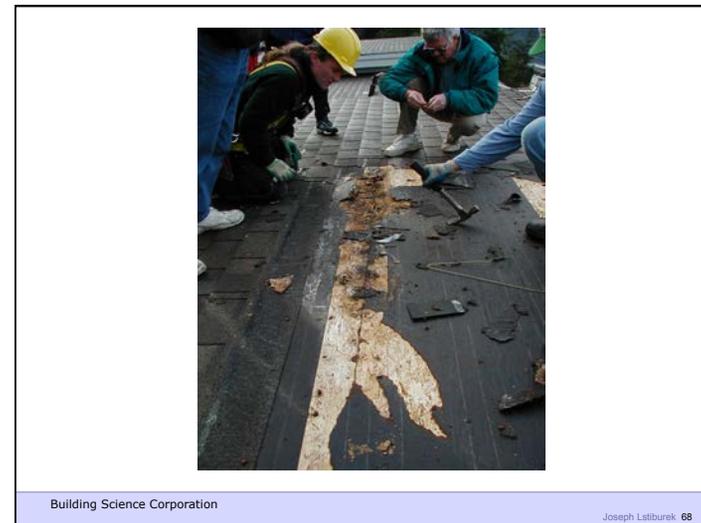
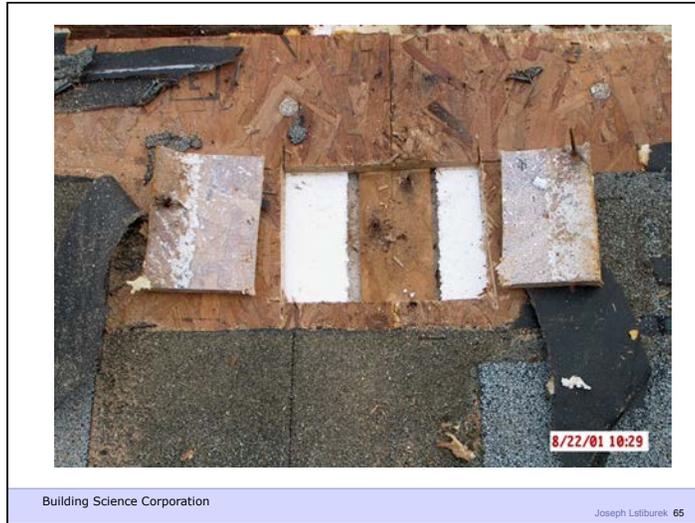
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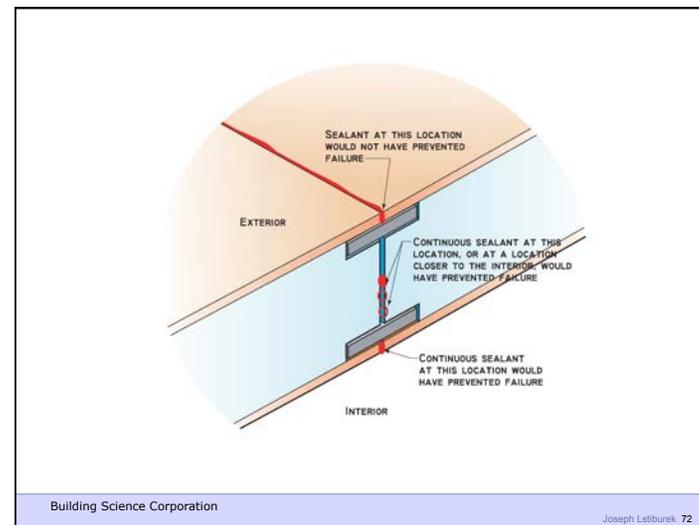


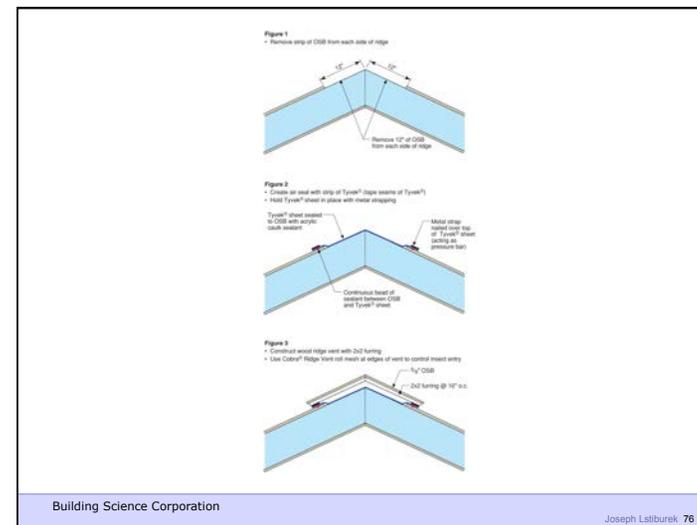
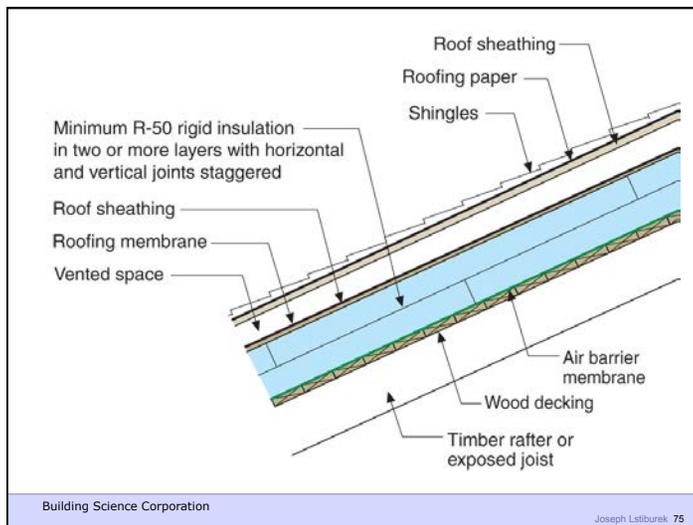
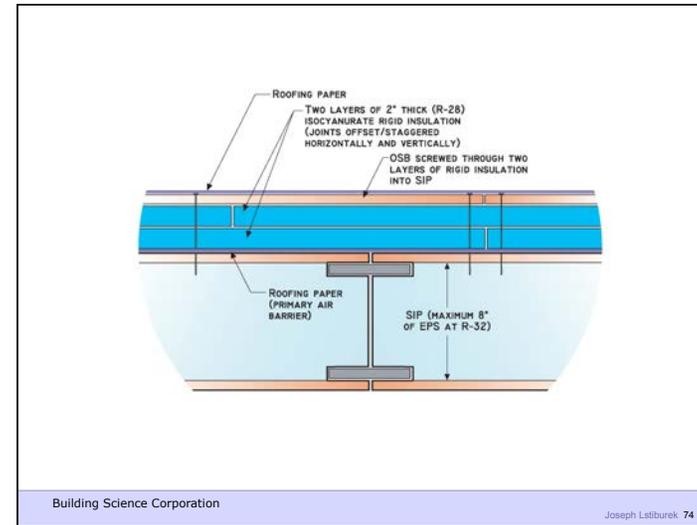
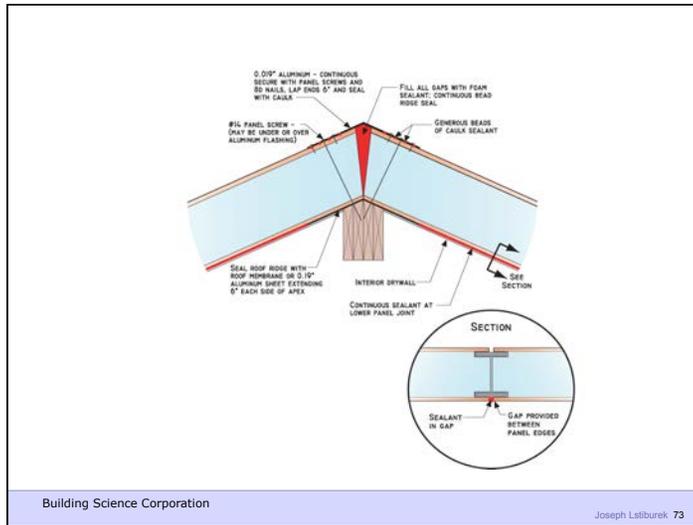
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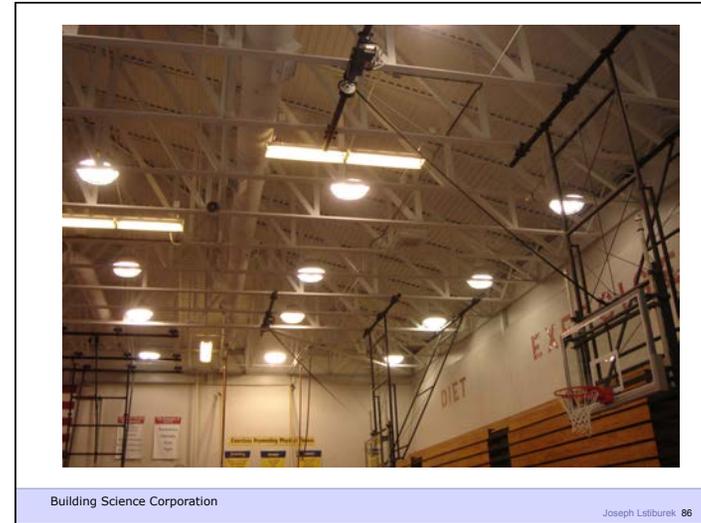


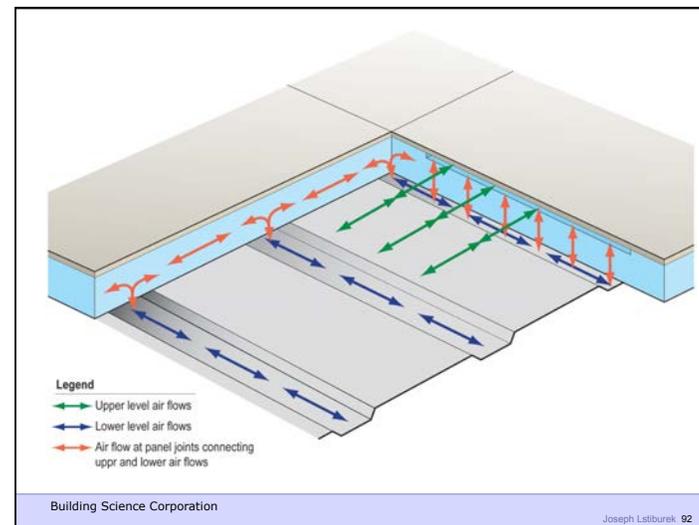
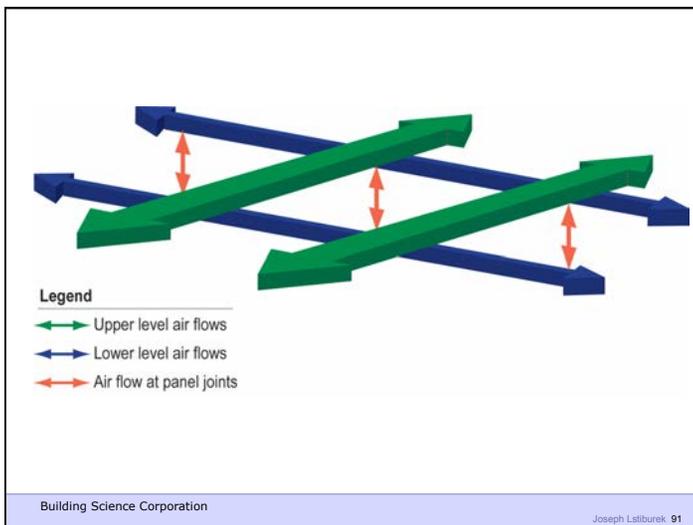
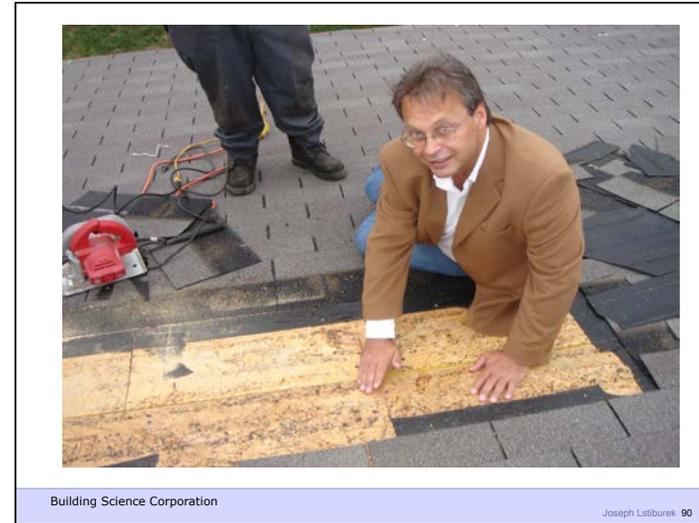
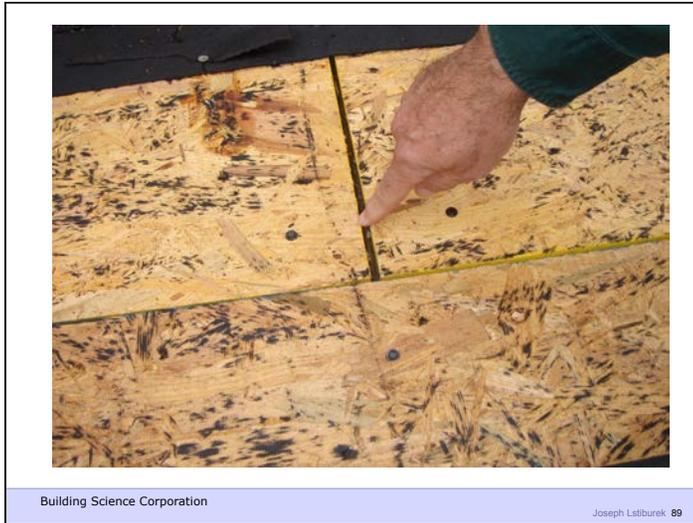


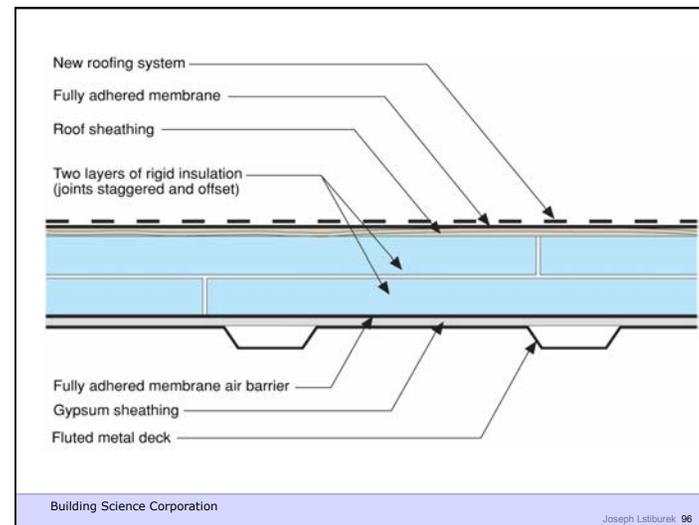
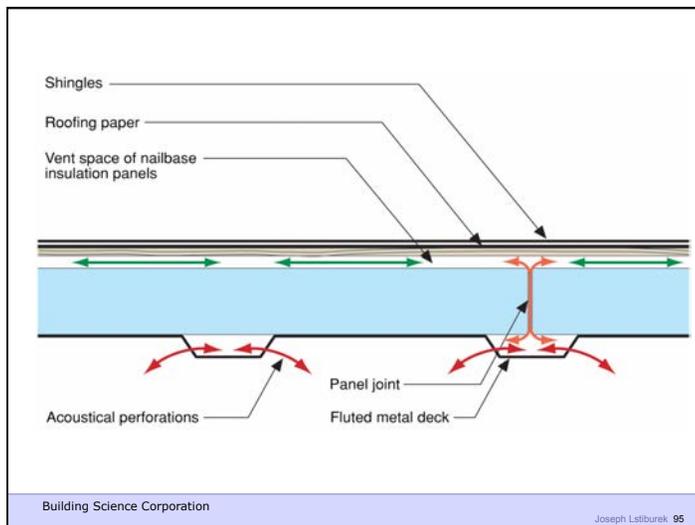
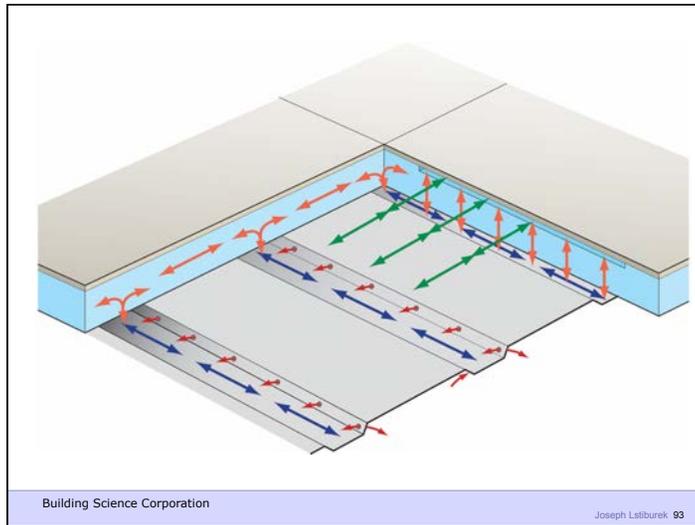


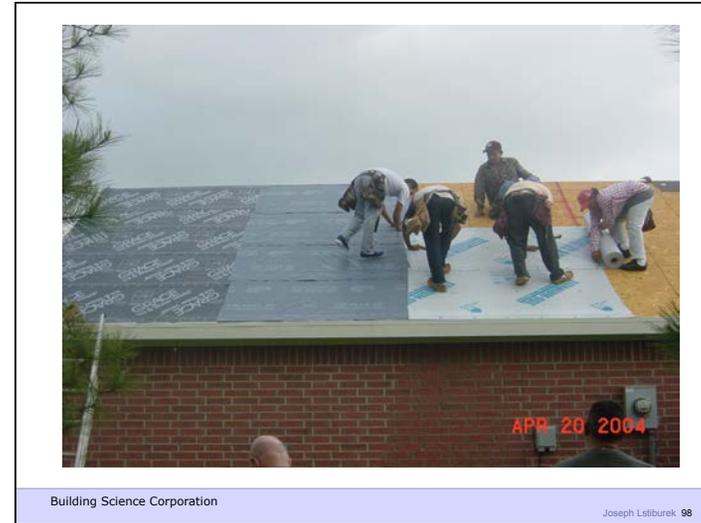












Basements

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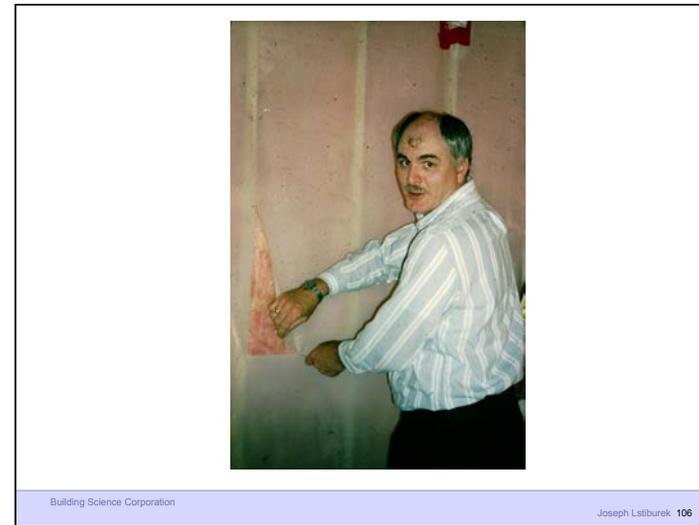
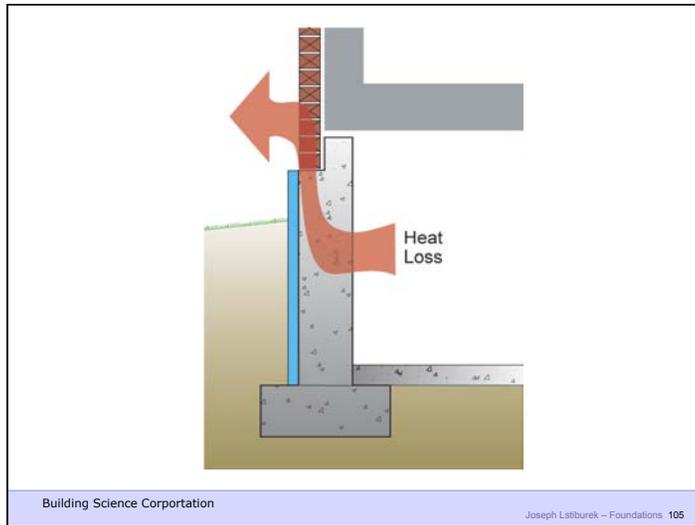
Expansion of Conditioned Space

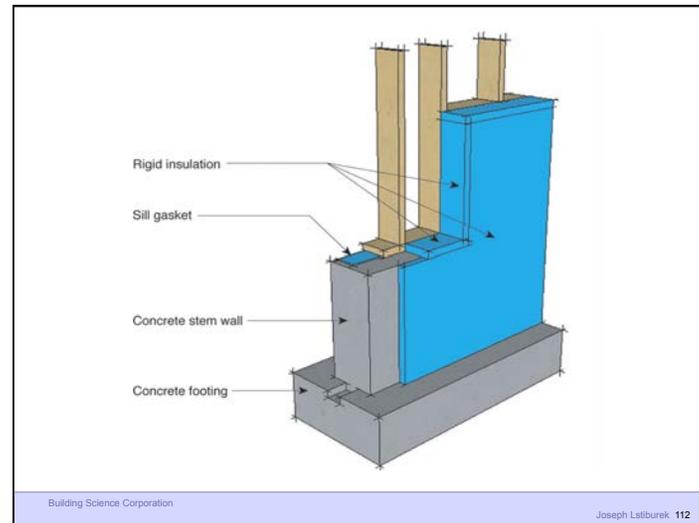
- Conditioned space boundaries moving towards exterior surfaces of building
- Garage isolated from house by air barrier/pressure boundary
- Garage ventilated and conditioned independently of rest of conditioned spaces

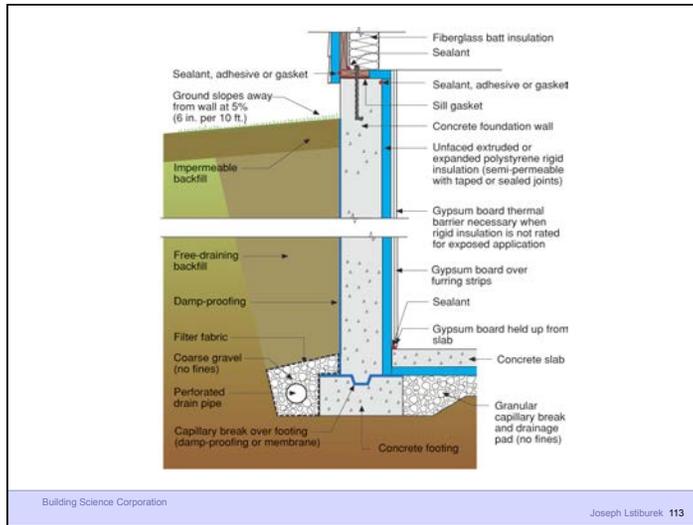
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Building Science Corporation Joseph Lstiburek - Foundations 104









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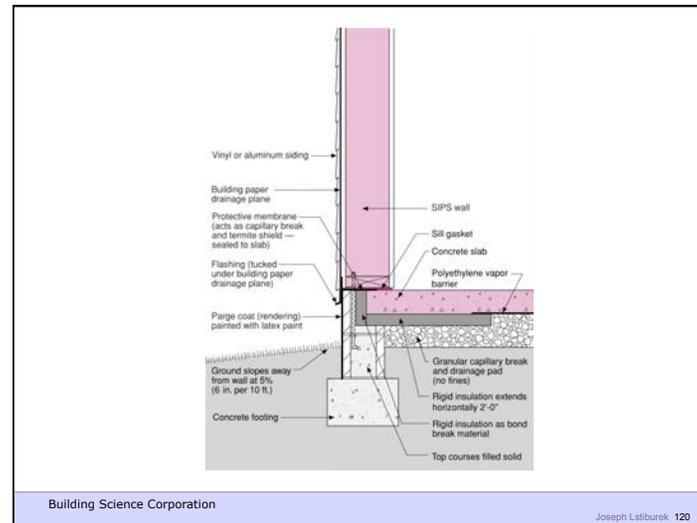
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Walls and Rain and Windows

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