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### **Learning Objectives**

- Techniques for Efficient, Durable and Structurally Safe Connections
- **■**Common Fastener Types
- **■**Resources Available

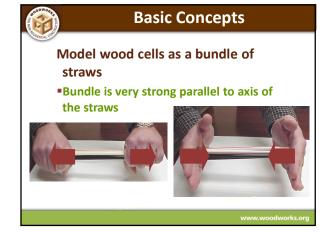
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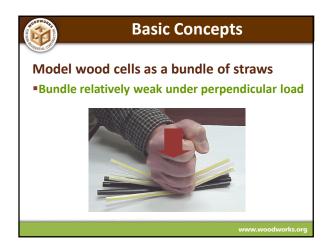
#### **Learning Objectives**

- Techniques for Efficient, Durable and Structurally Safe Connections
  - 1. Wood is strong in Compression
  - 2. Wood does not like loads perpendicular to grain
  - 3. Wood likes load spread out
  - 4. Wood moves in response to varying environment

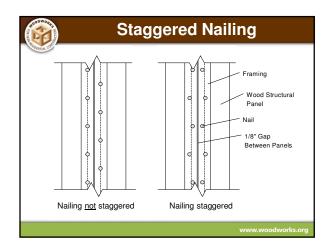
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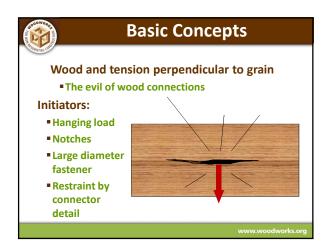


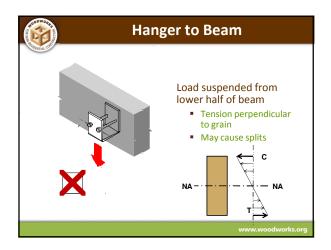


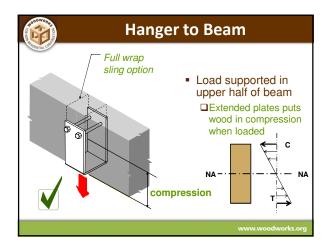




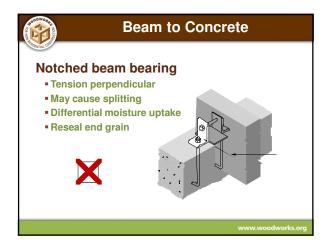




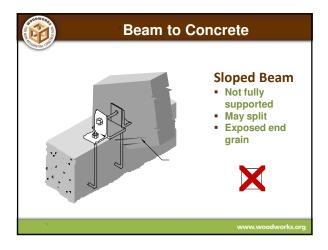


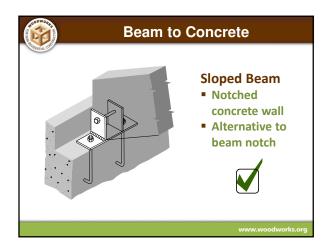




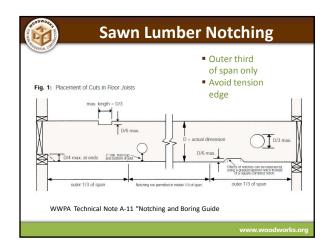


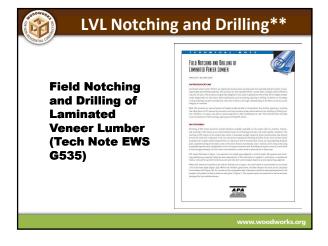


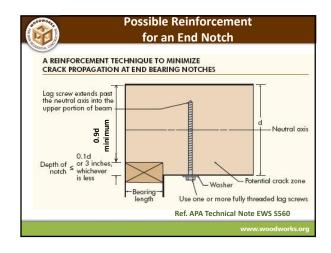




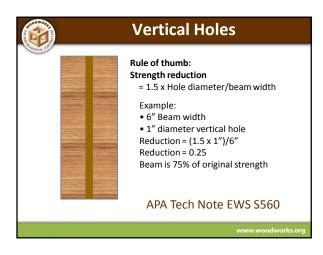














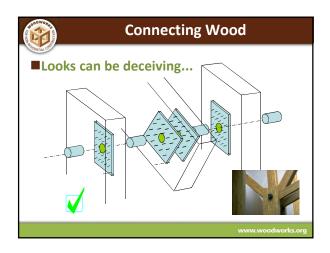








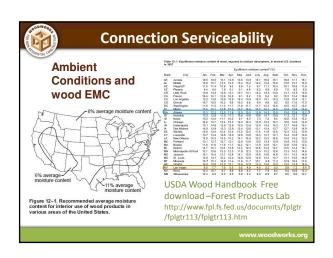


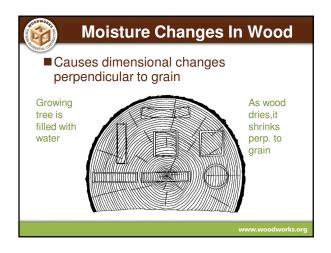


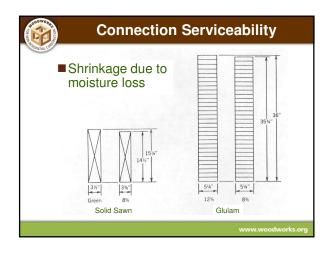










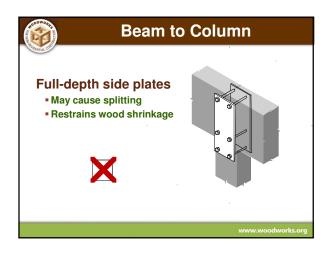


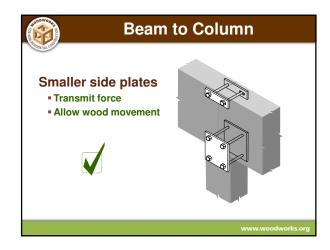






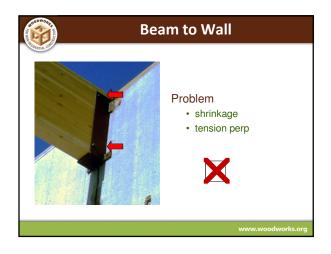




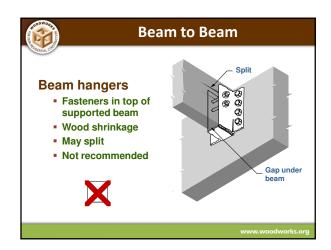


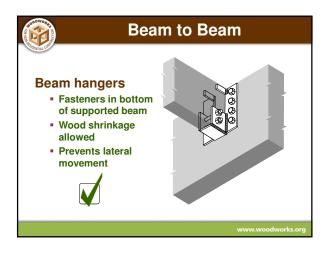


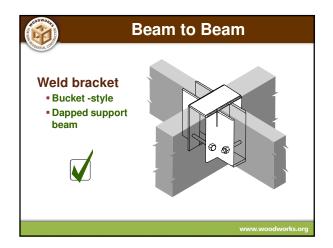


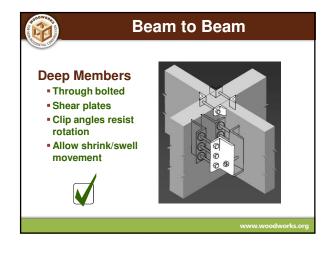


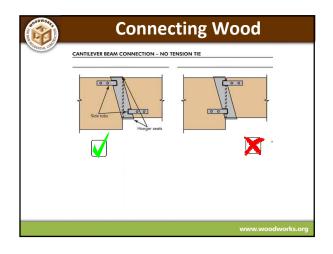


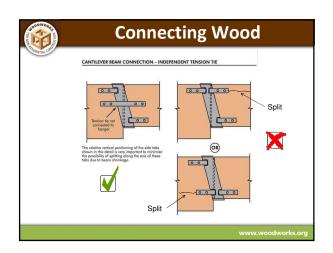






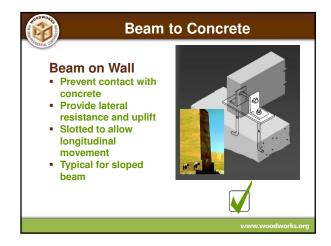






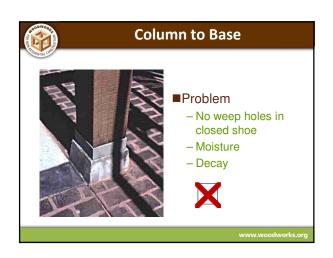


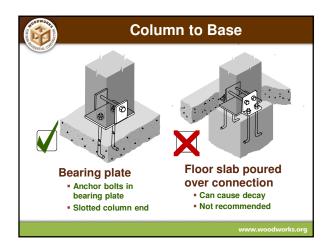


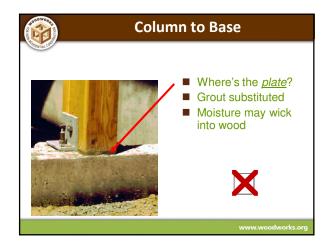


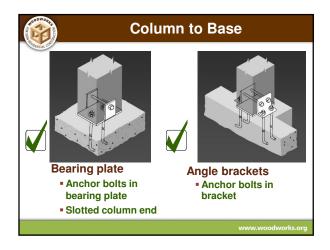










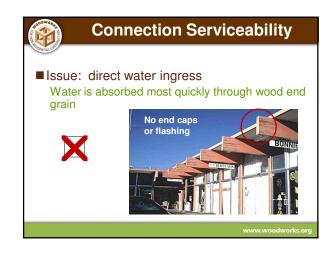


















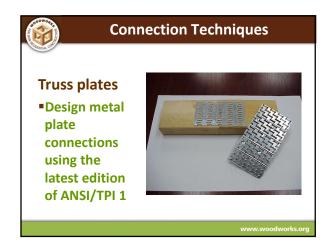






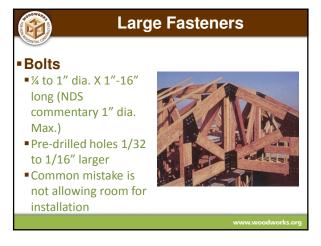


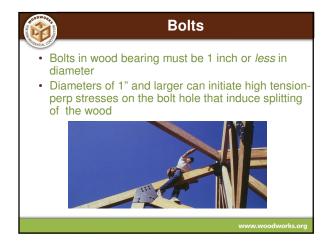


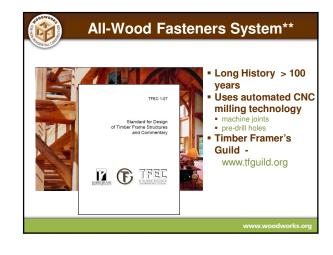








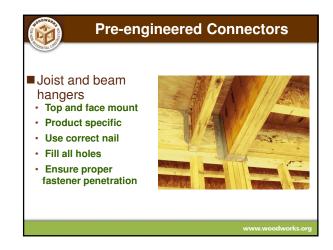












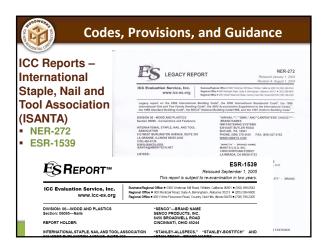


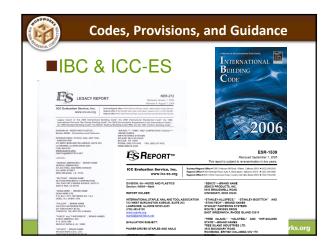


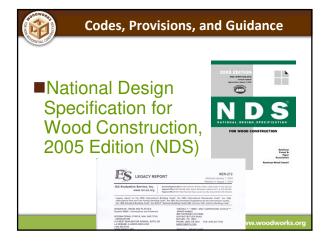


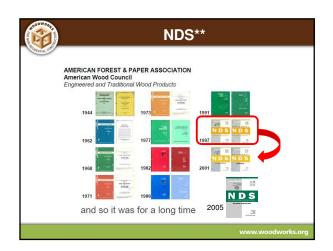


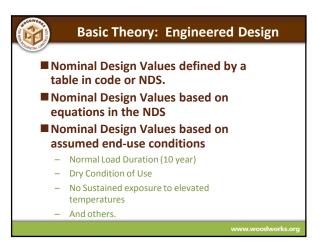


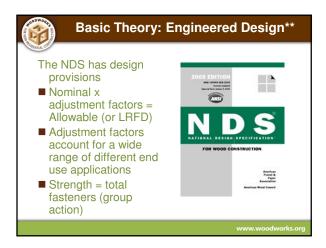






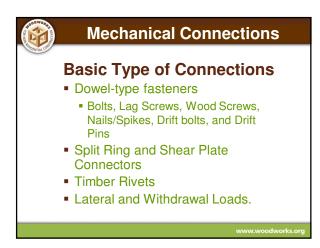






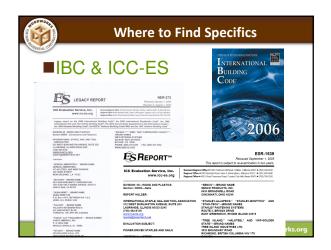


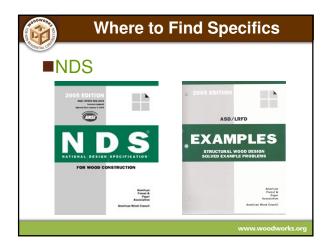




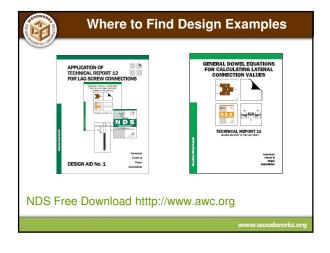


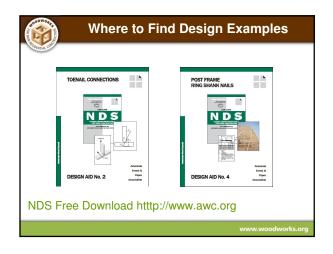


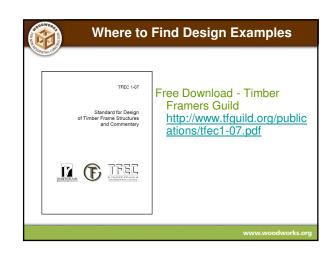












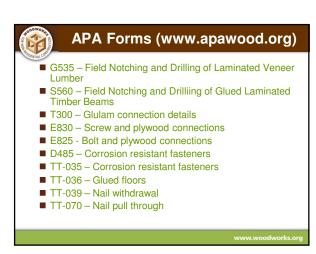


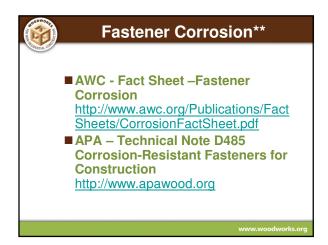




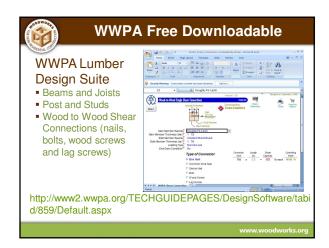
■The following publications expand on the information given in this presentation and can be downloaded for free using subject, title, or form number

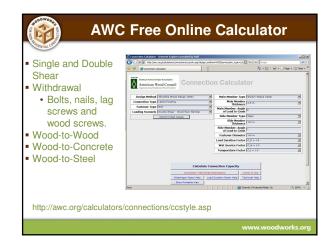
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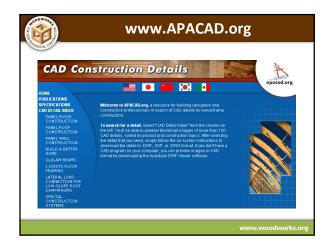






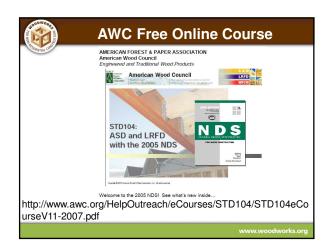














#### Take home messages...

## It's easy to create strong durable wood connections

- Avoid the use of details which induce tension perpendicular to grain stresses in the wood
- Allow for dimensional changes in the wood due to potential in-service moisture cycling
- Minimize exposure of end grain
- Avoid moisture entrapment in connections
- Use smaller multiple fastener connections

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