

Primary Topics for Competency 10

RESIDENTIAL

- Wall Construction (stick built)
- Rafter Connections
- Joist Connections
- Floor / Flooring Systems Construction
- Types of Fasteners
- Types of Hangers
- Beam Connections
- Types of Nails
- Window and Door Framing

Terms / abbreviations to be defined or identified for Competency 10

- |                         |                   |                      |
|-------------------------|-------------------|----------------------|
| • FF                    | • Ridge Board     | • Baseboard          |
| • CMU                   | • Fascia          | • Shoe Molding       |
| • Rafter                | • Lintel          | • Joist Span         |
| • Joist                 | • Plate           | • Stud               |
| • I-Joist               | • Shear Clip      | • Exterior Sheathing |
| • Drain Inlet           | • Hurricane Strap | • Blocking           |
| • Soffit                | • Plywood         | • Jack Stud          |
| • Habitable             | • Air Space       | • King Stud          |
| • Free-Standing         | • Trim            | • Header             |
| • Decking               | • Additive        | • Cripple Stud       |
| • Sub-Floor             | • Chase           | • Saddle Connector   |
| • Post and Beam         | • Seat Cut        | • Variable Pitch     |
| • Balloon               | • Span            | Connector            |
| • Platform              | • Girder          | • Board Feet         |
| • Offset Section        | • Anchor Bolt     | Calculation          |
| • Tongue and Groove     | • Nailing Surface |                      |
| • Hanger                | • Sole Plate      |                      |
| • R-Value               | • Sill            |                      |
| • Clip                  |                   |                      |
| • Pressure Treated - PT | • Gypsum Board    |                      |

## Sample Questions

True and False

"O.C." stands for "on center" and indicates the distance objects are apart center to center

A wall component's R-values are additive over the thickness of that wall.

CMU foundation walls are parged, which is a type of water-proofing.

A floor framing system requires knowledge of loads and material strength

Decking is the material placed over the Sub Flooring

Showers and tub/shower combinations are to have materials not adversely affected by moisture to what height above a drain inlet?

- a. 50"
- b. 60"
- c. 70"
- d. 80"

What is a major difference between balloon framing and platform framing?

- a. Balloon-framed studs start on the sill and continue uninterrupted to the top plate.
- b. Balloon-framed joists rest directly on the foundation wall.
- c. Balloon-framed walls are always shorter than platform-framed walls.
- d. Balloon-framed studs end at the top plate of each floor level.

A beam is unsupported for a certain distance between posts; this distance is the\_\_\_\_\_?

- a. Reach
- b. Length
- c. Girder
- d. Span

Rafters are connected to a wall plate at the:

- a. Seat cut
- b. Tail cut
- c. End cut
- d. Ridge board

The upper end of a rafter ends at the:

- a. Frieze board
- b. Soffit

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**COMPETENCY 10**  
**General Drafting Sections**

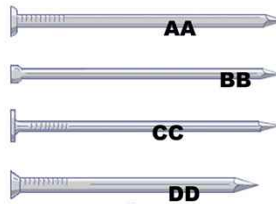
- c. Fascia
- d. Ridge board

The lower vertical end of a rafter or truss is covered by the:

- a. Frieze board
- b. Soffit
- c. Fascia
- d. Ridge board

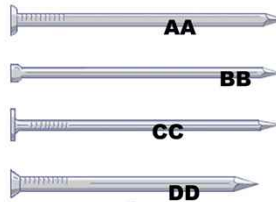
Identify the Nail Type labeled "AA"

- a. Common
- b. Finish
- c. Shank
- d. Casing



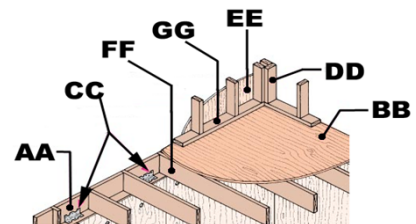
Identify the Nail Type labeled "BB"

- a. Common
- b. Finish
- c. Shank
- d. Casing



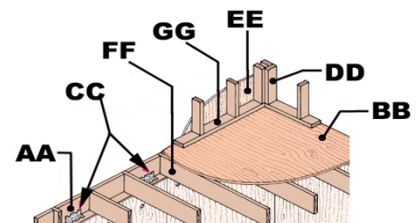
Identify "AA" in the adjacent example of a 2<sup>nd</sup> Floor

- a. Outside Band
- b. Blocking
- c. Kicker
- d. Wodder



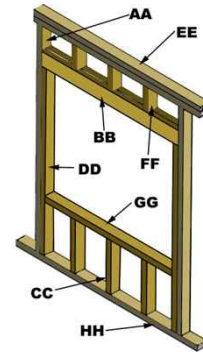
Identify "BB" in the adjacent example of a 2<sup>nd</sup> Floor

- a. Sub Floor
- b. Blocking
- c. Plywood
- d. Finish Floor



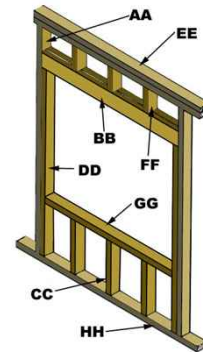
Identify "AA" in the adjacent example of an opening

- a. Stud
- b. King Stud
- c. Finish Stud
- d. Standard Stud



Identify "BB" in the adjacent example of an opening

- a. Runner
- b. Top Beam
- c. Header
- d. Beam



Identify the item in the adjacent example

- a. Top Plate Bracket
- b. Hurricane Strap
- c. Rafter Anchor
- d. Gusset Plate



Identify the item in the adjacent example

- a. Wide Mouth Bracket
- b. Hip / Jack Hanger
- c. Angle Rafter Hanger



- d. Gusset Plate

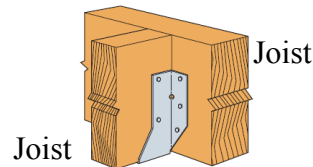
Identify the item in the adjacent example

- a. Lifter  
b. Gap Cap  
c. Joist Clamps  
d. Deck Spacer



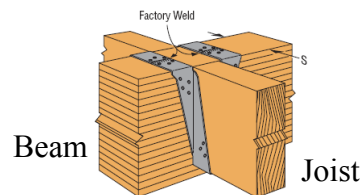
Identify the item in the adjacent example

- a. Joist Hanger  
b. Generic Collector  
c. Joist Clamps  
d. Joist Spacer



Identify the item in the adjacent example

- a. Joist Hanger  
b. Saddle Connector  
c. Joist Clamps  
d. Joist Anchor



Masonry walls require a method of removing condensation. This is done by installing what in masonry walls.

- a. Drains  
b. Drip Holes  
c. Weep Holes  
d. Seepage Holes

What is the typical (preferred) spacing of roof trusses or rafters

- a. 10" o/c  
b. 12" o/c  
c. 24" o/c  
d. 36" o/c