COMPETENCY 17
Foundations & Foundation Sections

Primary Topics for Competency 17

- Foundation Wall Types
- Foundation Materials
- Footings
- Re-bar sizes and designations
- Slab Types
- Types Foundation Construction
- Masonry
- Veneers
- Insulation
- Water Proofing
- Drainage
- Anchors
- Fire Place Construction

Terms & Abbreviations to be defined or identified for Competency 17

- Pressure Treated
- Foundation System
- Slab on Grade
- Finish Grade
- Fill
- Turn-down Slab
- Brick
- Masonry
- Concrete
- Anchor Bolt
- Re-bar
- Frost Line
- Footing
- Foundation Wall
- Keyway
- CMU
- Crawl Space
- Vapor Barrier
- Basement
- Chimney
- Firebox
- psi
-
- Parging
- Steel Lintel
- Corrugated Drain
- Back Fill
- Gravel Fill
- Turn Down Foundation

Sample Questions

The maximum depth at which the ground may freeze is known as the:

a. Freeze depth
c. Ice line
b. Frost line
d. Dew point

. Re-bar with the designation "#5" has a diameter of:

a. 1/2"
b. 3/4"
c. 5/8"
d. 7/8"

A sill plate usually rests on concrete or masonry; therefore it is:

a. Pressure-treated
b. Painted
c. Glued to the masonry or concrete wall
d. Foam board

In general the minimum distance between the top of the foundation wall and the grade is:

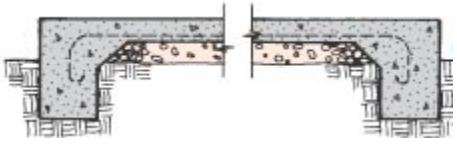
a. 2 inches
b. 8 inches
c. 4 inches
d. None of the above

The nominal thickness of a concrete floor slab is about:

a. 2"
b. 5"
c. 3"
d. 6"
e. 4"

Identify the type of foundation indicated in the adjacent example

a. Slab on Grade
b. Turn Down Foundation
c. Slip Foundation
d. Concrete



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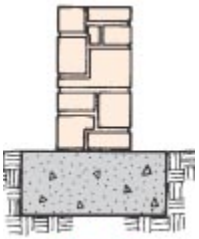
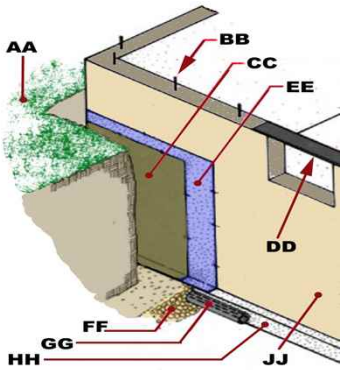
Identify the type of foundation in the adjacent example

a. Brick
b. Stone
c. Masonry
d. Concrete



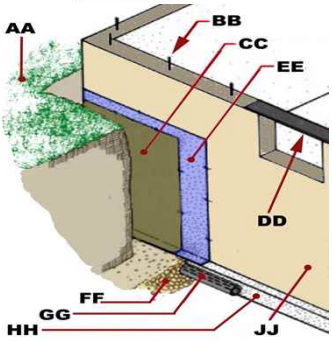
Identify Item “BB” in the adjacent example

a. Extra Reinforcing
b. Anchor Bolt
c. Plate
d. Rod



Identify Item “GG” in the adjacent example

a. Tube & Drain
b. French Drain
c. Wash Drain
d. Corrugated Drain



If Exterior Grade does not permit, one alternative in removing the Water accumulated by a French Drain is to use a

a. Septic System
b. Sump Pump & Wet Well
c. Drain into the Sewer
d. Drain into the Storm Water System

The sill should always be anchored to the Foundation. The minimum spacing of anchors required should be no less than

a. 12”
b. 24”
c. 36”
d. 48”