



BUILDING, PLANNING & DEVELOPMENT

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Indiana Energy Code Guidelines

This information is provided as a general guideline to comply with the Energy Code requirements. Submission of the completed calculation forms may be provided in lieu of following these guidelines.

Footing and Foundation Insulation

Slabs

- 1) Slabs shall be insulated vertically on either the inside or outside of footing OR horizontally immediately beneath the slab
 - a) Vertical
 - i) R-7.5 insulation installed either inside or outside of the footing. Insulation shall extend from the top of the slab to the bottom of the footing for trenched footings or from the top of the slab to the top of a spread footing. Install within a minimum 14" wide trenched footing (see detail #1) OR
 - ii) R-10 insulation installed on the inside of the footing from within 2" of the top of the slab to within approximately 6" of the bottom of a trench footing or to the top of a spread footing. When installed in a 12" trench this will provide the minimum 12" x 6" footprint on the bottom of the footing. (see detail #2)
 - b) Horizontal
 - i) R-10 insulation installed within 2" of the top of the slab and then horizontally beneath the slab for a distance of 48". (see detail #3)

Basements

- 1) All basements shall be insulated to a minimum R-10 through the following methods
 - a) Insulate to an R-10 on either the inside or outside of the basement wall and to the basement floor depth or 10', whichever is less. If a foam insulation board is used on the inside of the basement, it must be protected with an approved thermal barrier of 1/2" gypsum wallboard or equivalent (see detail #4) OR
 - b) Insulate the floor of the first floor to an R-20

Options

- 1) These guidelines are based on structures having a maximum of 15% of openings in the exterior envelope. Structures having more than 15% of openings will require submission of the completed energy calculation forms

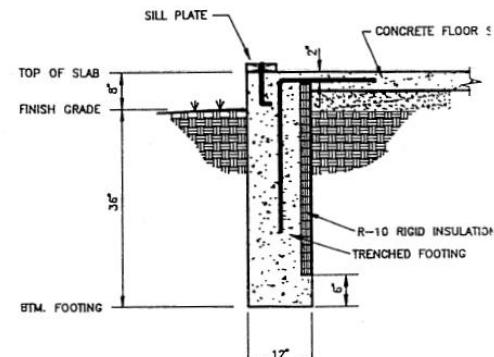
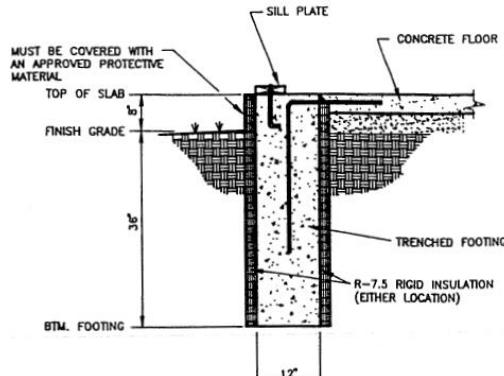
General "Rule of Thumb" Insulation Values

Walls – R-19

Ceilings – R-38

Floors – R-20

Note: Window & door R-value performance is based on an assumed window R-value of 2.3 and a door R-value of 5.0. Openings shall be figured at actual glass size for windows. Skylights will be considered in this area when figuring openings.

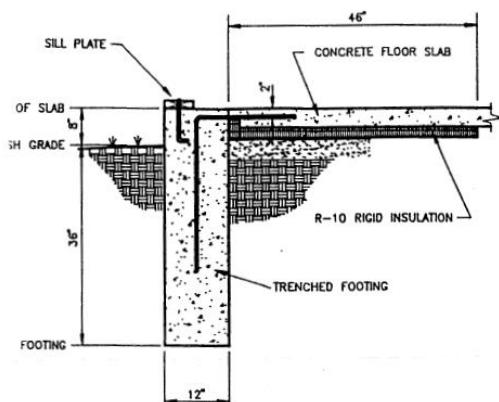


FOUNDATION DETAIL #1

SCALE: 1/2"=1'-0"

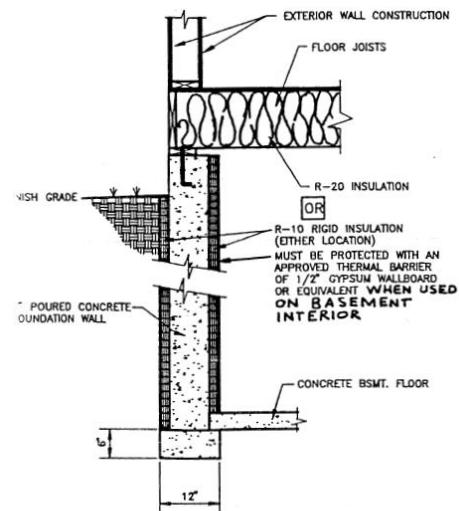
FOUNDATION DETAIL #2

SCALE: 1/2"=1'-0"



FOUNDATION DETAIL #3

SCALE: 1/2"=1'-0"



FOUNDATION DETAIL #4

SCALE: 1/2"=1'-0"

NOTE: These drawings are for insulating purposes only. Footing dimensions shown are designed for a single story structure only. Multiple story structures require different footing dimensions.