Town of Gibsons
**BUILDING DEPARTMENT**

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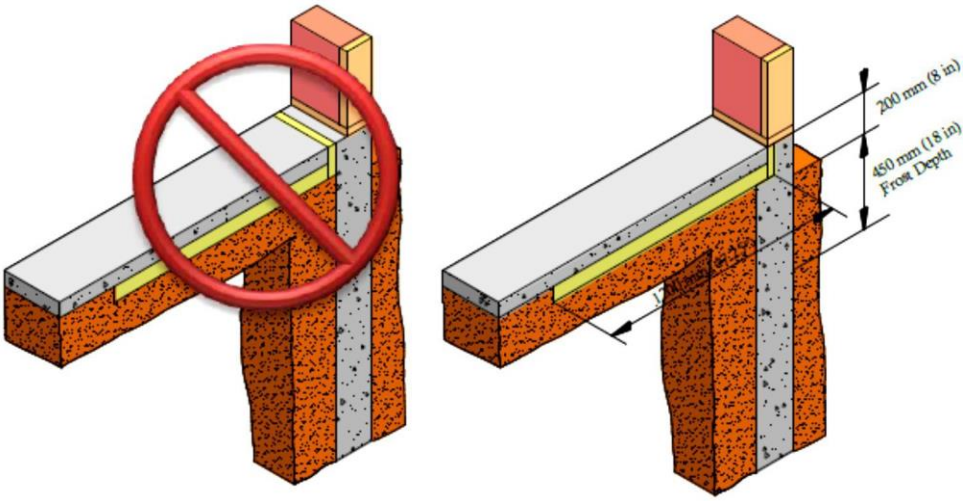
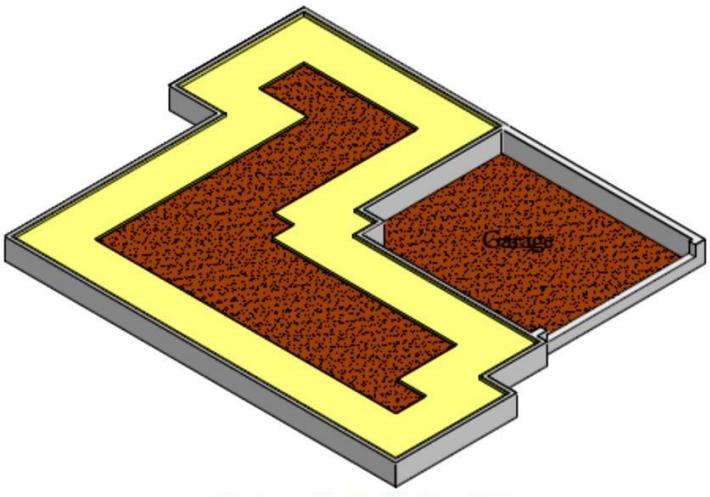
# Floor-on-Ground Insulation

The following handout provides some options and information regarding the required thermal break and insulation of floors-on-ground (slabs). An energy advisor may prescribe alternate methods but always consult with the Building Department for approval prior to beginning work. For other insulation and energy efficiency details, view the Illustrated Guide to Energy Efficiency document https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/construction-industry/building-codes-and-standards/guides/climatezone4.pdf

## Floor-on-Ground (Not Heated) Horizontal Application



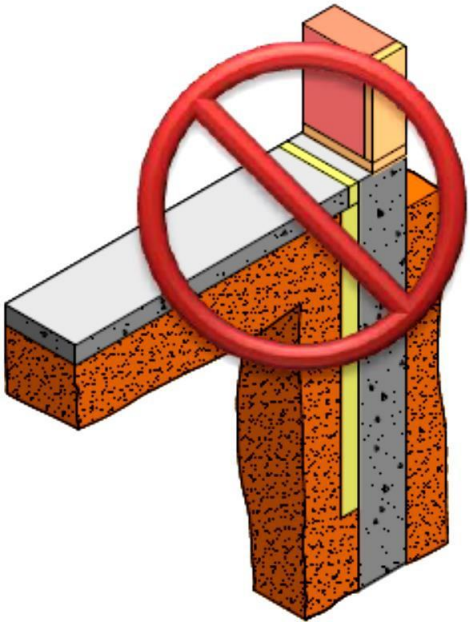

Horizontally Applied Insulation

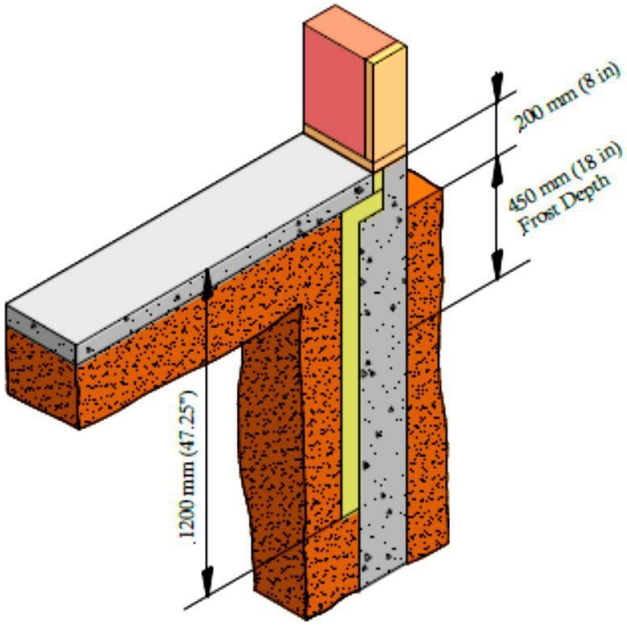
Insulation (R-12) must run in 1.2m (48”) horizontally from slab edge.

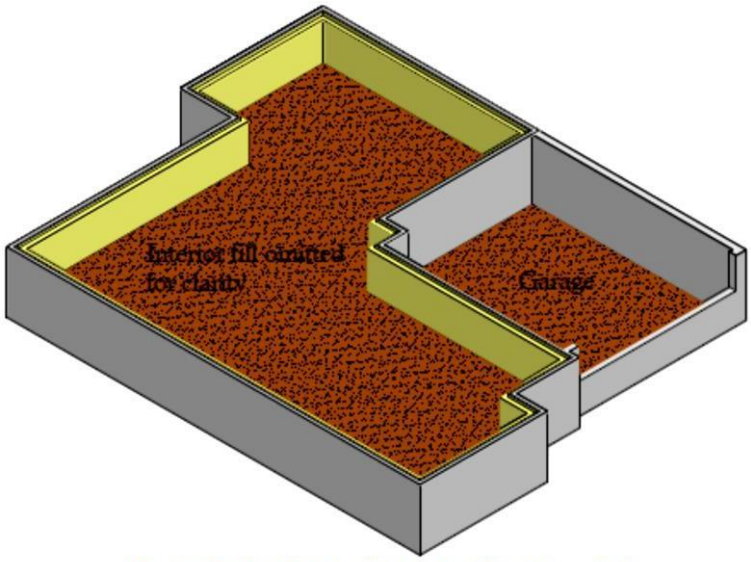
Slab Edge is permitted to be half the required value (R-6).

Foundation wall should be reduced in thickness at the top in order to accommodate the insulation under, or near to the exterior framed wall.

# Floor-on-Ground - **Not Heated** - Vertical Application Inside





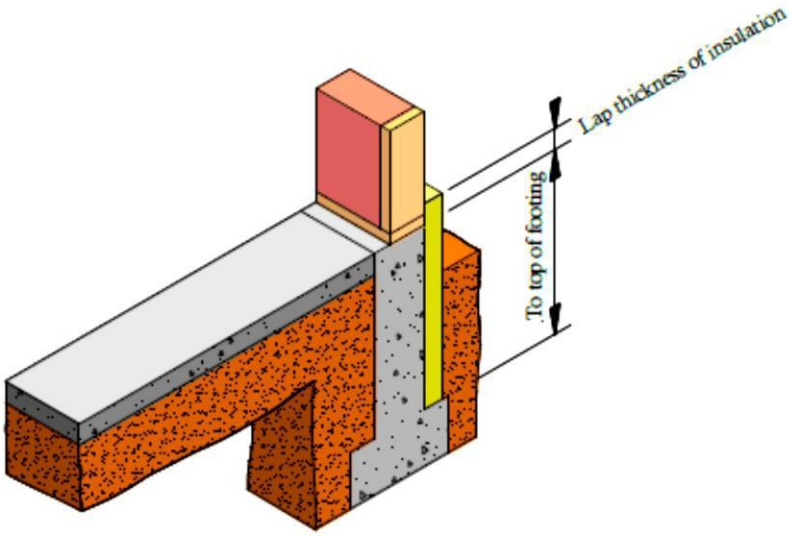

Vertically Applied Insulation Inside of Foundation

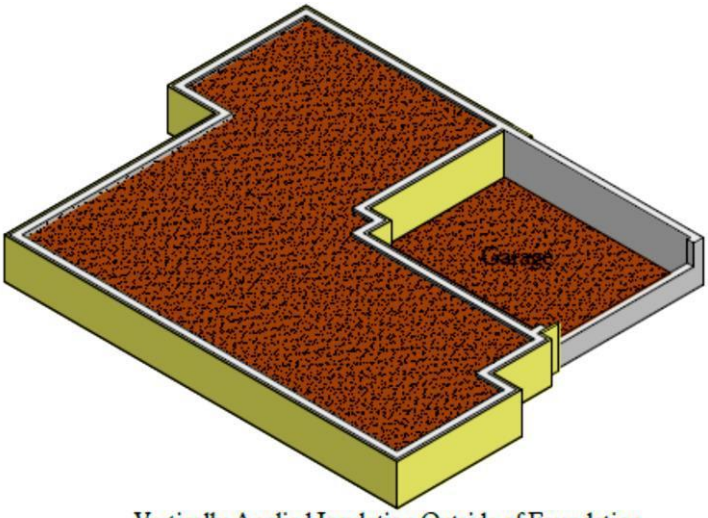
Insulation (R-12) must run in 1.2m (48”) vertically from top of slab.

Slab Edge is permitted to be half the required value (R-6).

The Foundation wall should be reduced in thickness at the top in order to accommodate the insulation under, or near to the exterior framed wall.

# Floor-on-Ground - **Not Heated** - Vertical Application Outside



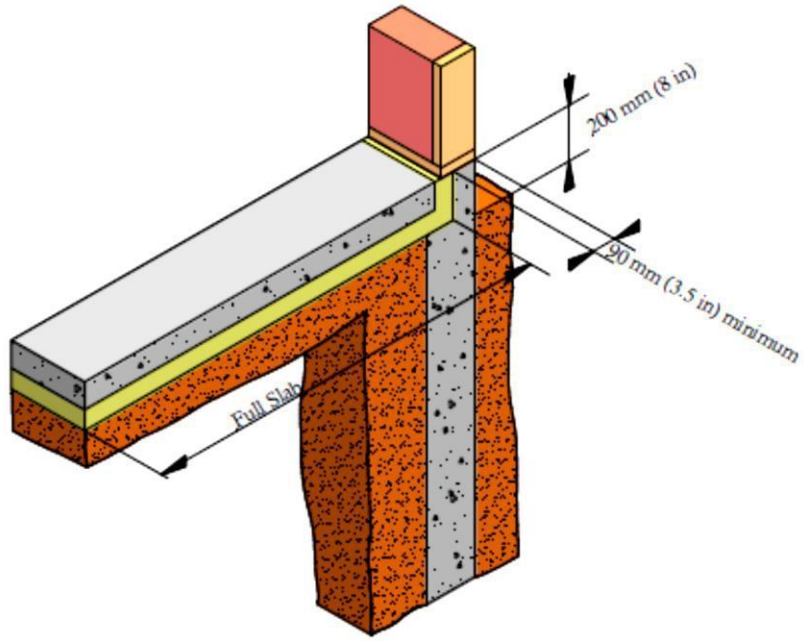

Vertically Applied Insulation Outside of Foundation

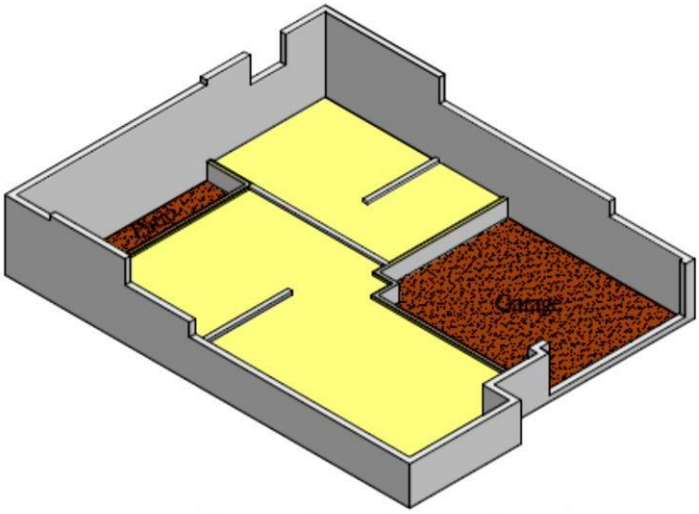
Insulation (R-12) must run vertically from top of slab to top of footing.

Insulation must lap over the framed wall at least the thickness of the insulation.

The Foundation wall need not be reduced in thickness at the top in order to accommodate the insulation.

# Floor-on-Ground - **Heated** – Full Insulation Required




Heated Floors-On-Ground Require Full Insulation

Insulation (R-12) must run horizontally under the full slab area.

Slab edge insulation must not be reduced. Must be the same as insulation under the slab (R-12).

The Foundation wall should be reduced in thickness at the top in order to accommodate the insulation under, or near to the exterior framed wall.

Alternatively, insulation that is flashed and protected can be applied to the exterior of the foundation. Contact the building department for more information.