




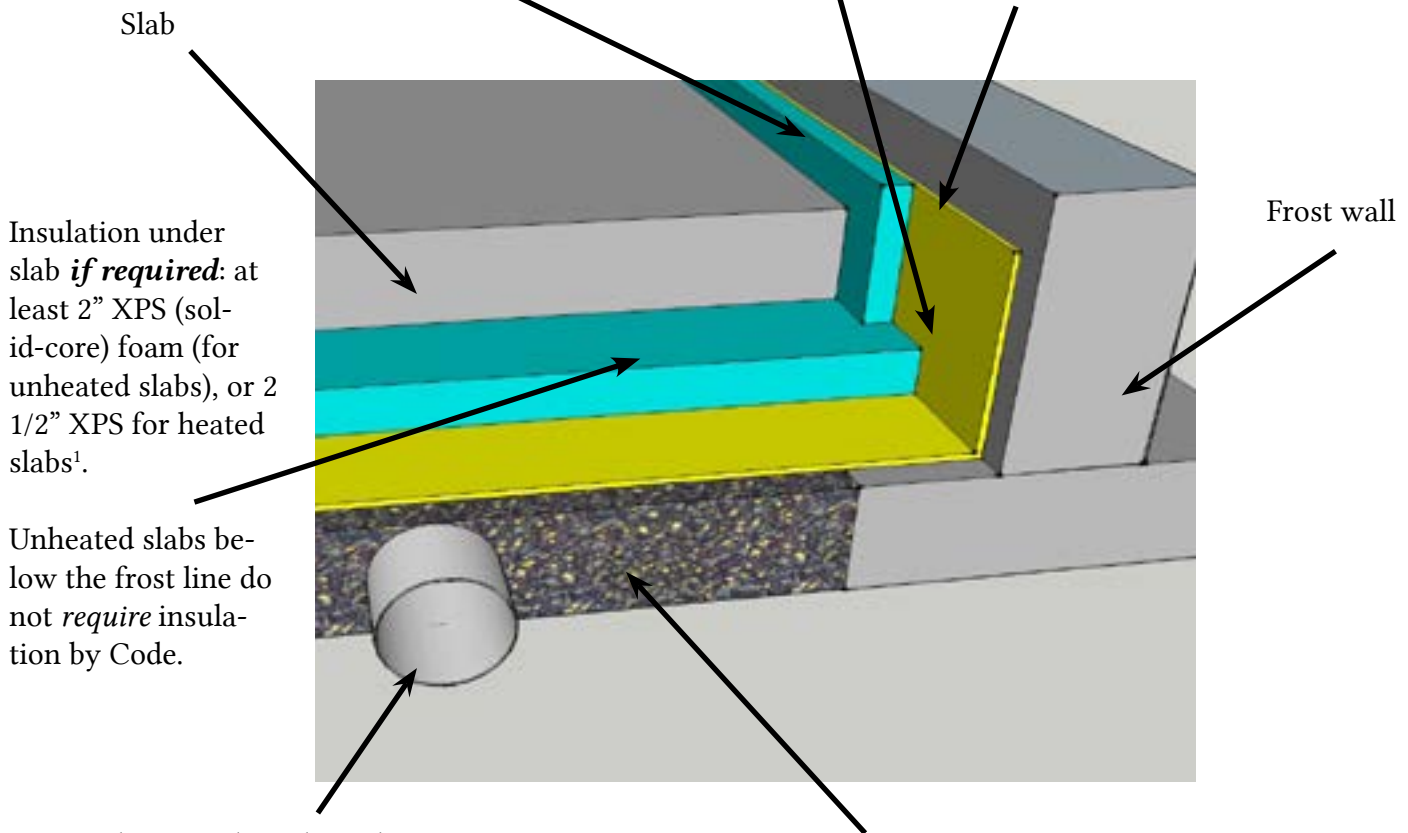
# Slab construction details

## Frostwall interior insulated

If the exterior of the frostwall is not insulated and the slab must be insulated, foam of the same thickness under the slab is required to separate the slab from the frostwall<sup>1</sup>.

Vapour barrier must enclose the slab, and ultimately be sealed to wall vapour barrier<sup>2</sup>.

 Slab concrete *cannot* directly contact frost wall material. The slab and the frost wall **must be separated with a bond break**. Vapour barrier will perform this function, as will foam<sup>3</sup>.




Insulation under slab **if required**: at least 2" XPS (solid-core) foam (for unheated slabs), or 2 1/2" XPS for heated slabs<sup>1</sup>.

Unheated slabs below the frost line do not *require* insulation by Code.

Radon pipe (Residential construction only). A 4" (10cm) pipe that penetrates into the coarse, granular base material. The pipe must come up through the slab, and be sealed at the vapour barrier<sup>4</sup>.

10 cm (4") of Coarse granular fill.

 Sand and pit-run gravel are **NOT permitted** for the 10cm (4") fill layer under a slab. No more than 10 per cent of the material can be less than 3/8" (4.5mm) in diameter<sup>5</sup>.

Code (2015) references: [1] Table 9.36.2.8-A or 9.36.2.8-B. [2] 9.25.3.3(3) XPS foam ok as air barrier, as long as vapour barrier sealed to it or overlapped. [3] 9.16.4.4 [4] 9.13.4.3 [5] 9.16.2.1