

### ONTARIO BUILDING CODE

#### 9.25.3.1. Required Barrier to Air Leakage

- (1) Wall, ceiling and floor assemblies that separate conditioned spaces from unconditioned spaces or from the ground shall be constructed so as to include an air barrier system that will provide a continuous barrier to air leakage,
  - (a) from the interior of the building into wall, floor, attic or roof spaces sufficient to prevent excessive moisture condensation in such spaces during the heating season, and
  - (b) from the exterior inward sufficient to prevent moisture condensation on the room side during the heating season .

#### 9.25.4.1. Required Barrier to Vapour Diffusion

- (1) Thermally insulated wall, ceiling and floor assemblies shall be constructed with a vapour barrier sufficient to prevent condensation in the wall spaces, floor spaces or attic or roof spaces.

### OBJECTIVE

The floor in rooms located above garages must be insulated. A vapour barrier and air barrier must be installed. The vapour barrier must be installed on the warm side of conventional batt-type insulation. This is a labour intensive procedure.

A more effective and efficient method of insulating the underside of the floor is the use of a spray-in-place foam insulation. Most spray-in-place foam insulations provide for the thermal insulation value, perform as an air barrier, do not require the installation of a vapour barrier and are easily installed. Exposed foam insulation within the drop ceiling must be covered with an approved thermal barrier. (gypsum board). The use of spray-in-place foam for insulating the floor above a garage has greatly reduced the number of cold floor complaints received by the city.

The illustration below shows a heated space installation method.

