



## Building - Insulation and Vapour Barrier Inspection

Request this inspection when all insulation, vapour barrier, and air barrier components are ready to be covered.

For multi-family/row-housing projects, all entryway addresses/units must be prepared for a single inspection of the entire building

### Prepare

Learn about [how to prepare for your inspection](#).

### Check

The following are the most common items audited during this inspection. However, the list is not exhaustive. The work must meet all the applicable codes and standards.

- Site readiness - ensure safe access is provided at building entrance and to all floor levels, including guards/handrails at all stairs > 4 risers, and open floor edges.
- Ensure exterior of building is weathertight ( roof shingled/flashings installed/roof vents/plumb & HVAC boots are installed) Exterior is wrapped with building paper and/or all horizontal plywood joints are covered with 4" strip of building paper. EIFS walls require fluid applied air barrier installed over joints.
- All poly to be 6mil with the proper approval CAN/CGSB-51.34-M or an alternative solution in Building Permit
- If **prescriptive method** OR **performance method with 2.5 air changes per hour (ACH)**: all vapour barrier joints must be:
  - Lapped - 50mm minimum
  - Structurally supported (blocking behind all joints and around electrical boxes) and
  - Sealed - blue tape (red tuck tape not permitted) *or* sealant or spray foam, including around windows and top plate/exterior wall penetrations.
- Ensure all cantilevers are L-wrapped with 6mil poly and insulated properly. There should be a minimum 2" gap for airflow (no cold air gets trapped) under the floor deck.
- All penetrations into exterior walls and attic ceiling must be sealed (spray foam, non-hardening sealant, blue vapour tape)
- If spray foam is to be used, ensure coverage has been achieved and all return air spaces have thermal barriers installed ( drywall/plywood/fire retardant spray. Approved spray foam sticker to be installed on the electrical panel ( installers name/certification number/date/CCMC # etc).
- Basement insulation and vapour barrier will be inspected if installation is completed at same time as above grade levels

- Basement stair frost wall - framing and insulation shall extend to parallel with top of main floor. Vapor barrier shall be continuous on warm side of assembly across this junction.
- Concealed spaces (coffered ceilings, voids) require sheathing installed directly below vapor barrier for the support of blown insulation.
- Mechanical ductwork is installed on warmside of continuous vapour barrier and insulation typical of exterior walls (service spaces to 2nd floor, within garage/dwelling wall)
- Penetrations in fire separation membranes are firestopped,
- Combustible electrical outlet boxes in fire separations and fire-rated exterior walls require one of the following:
  - The wall stud cavity containing combustible outlets to be filled with insulation made of rock or slag (Mineral Wool) conforming to CAN/ULC-S702.1 from bottom to top plate.
  - Install an approved fire-stopping system (e.g. putty pack) with an appropriate FT rating meeting the requirements of CAN/ULC-S115 on the backside of the box.
  - Separated from the remainder of the space within the assembly by an enclosure of not more than 0.3 m<sup>2</sup> in area made of fire block material - ie: solid lumber