

Air Barrier Inspection Checklist

This list is intended to offer a general overview of the types of elements our inspectors may focus on during an inspection. It should be noted that this list is not exhaustive and should not be considered a definitive guide. Each inspection is unique, and the specific circumstances of each case may result in variations regarding what is inspected or prioritized. Always consult with your assigned inspector for any questions that may arise from your project.

Air Barrier System Properties

- Sheet and panel type materials have an air leakage characteristic not greater than 0.02 L/(s.m²) measured at an air pressure differential of 75 Pa.
- Where polyethylene sheet is used to provide airtightness in the air barrier system, it conforms to CAN/CGSB-51.34M.1s.

Continuity of the Air Barrier System

- Air-impermeable panel-type materials have all joints sealed to minimize air leakage.
- Flexible sheet material has all joints sealed with compatible material such as tape or flexible sealant, or lapped not less than 100 mm and clamped such as between framing members furring or blocking and rigid panels.
- Where an air barrier system consisting of flexible sheet material is installed at locations where it is not supported by an interior finish, such as behind a bathtub, shower enclosure or fireplace, the continuity of the air barrier is maintained by sealing its joints.
- Where an interior wall meets an exterior wall, ceiling, floor or roof required to be provided with an air barrier protection, the air barrier system shall extend across the intersection and shall be sealed by taping, sealant or joints clamped.
- Where an interior wall projects through a ceiling or extends to become an exterior wall, spaces in the wall is blocked to provide continuity across those spaces with the air barrier system in the abutting walls or ceiling by sealing each air barrier to the blocking or wrapping each air barrier around the transition and sealing with tape, sealant or joints clamped.
- Where an interior floor projects through an exterior wall or extends to become an exterior floor, continuity of the air barrier system is maintained from the abutting walls across the floor assembly.

- Where an interior floor projects through an exterior wall to become an exterior floor, the air barrier of the wall under the floor is continuous with or sealed to the subfloor or the air barrier on the underside of the floor, the air barrier of the wall above the floor is continuous with or sealed to the subfloor or the air barrier on the top of the floor, and the spaces between floor joists are blocked and sealed.
- Where a header wrap is used as an air barrier, it is sealed or lapped to the wall air barrier above and below with tape, sealant or joints clamped.
- Penetrations of the air barrier system, such as those created by the installation of electrical wiring, electrical boxes, piping or ductwork, are to be sealed with compatible material such as tape or caulking to maintain the integrity of the air barrier system over the entire surface.
- Penetrations of the air barrier system, such as those created by the installation of doors, windows and other fenestration are sealed to maintain the integrity of the air barrier system over the entire surface.
- Where an interior air barrier is penetrated by doors, windows and other fenestration, the air barrier is sealed to the door frame or window frame with compatible tape, or spray foam insulation.
- Where an exterior air barrier is penetrated by doors, windows and other fenestration, the air barrier is sealed to the door frame or window frame with compatible flexible flashing material, caulking, or spray foam insulation.
- An access hatch installed through an assembly constructed with an air barrier system is weather-stripped around the perimeter to minimize air leakage.
- Where the foundation wall and floor slab are used as an air barrier, they are caulked at all joints, intersections and penetrations.
- Sump pit covers are sealed to maintain continuity of the air barrier system.