

# Rough-In Heating 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.*

## **Supply Air System**

- Clearance has been maintained between the plenum and combustible materials. Refer to the manufacturer's installation instructions.
- Supply ducts and associated fittings are non-combustible except when they conform to test criteria.
- Sealed to Class A level and insulated to not less than RSI 1.4 when exposed to unheated space or not protected by an insulated exterior wall.
- Sealed to Class C level when located in a conditioned space.
- Butterfly damper at each register.
- Maximum of 1200 mm allowed for supply air from the outside wall in an unfinished basement.
- Ducts in floors or walls are fire stopped with mineral wool between the duct and the construction at each end.
- S and drive cleat connections or equivalent are provided for rectangular duct connections.
- To avoid excessive vibration, trunk supply ducts are not nailed directly to wood joists.
- Ducts placed in concrete must be inspected prior to covering.
- Vertical flexible ducts are not permitted.
- Horizontal flexible ducts do not exceed 4000 mm and are ULC Class 1 type.
- Vertical clearance beneath ducts in basement space is a minimum of 1.95 m.

## **Return Air System**

- Return air installed on each storey.
- Return air chases are backed with metal, gypsum board, or plywood.

- Return air inlet not located in garage, kitchen, washroom, furnace, or laundry room.
- A return air outlet installed in all rooms over a garage or an unheated space.
- Blockage of return air ducts not permitted. Relocate all electrical boxes, wiring, piping, and blocking. Full-width cutouts in the floor.
- All supply and return air ducts exposed or passing through unheated spaces are insulated with a minimum of R-12 insulation.

### **Exhaust Systems**

- An exhaust air intake or exhaust fan is installed in each kitchen and room containing a water closet.
- Exhaust ducts are wrapped with insulation and vapor barrier for a minimum of 1200 mm from the outside wall and entirely through an unheated space.
- Kitchen exhaust duct installed so that the entire duct can be cleaned when the duct is not equipped with a filter at the intake.
- Sealed to Class C level when located in a conditioned space.

### **Mechanical Ventilation**

- Fuel-fired appliances and all other space heating equipment are installed in accordance with the permit documents.
- The categorization of the dwelling unit corresponds with the type of fuel-fired appliances installed.
- Mechanical ventilation system installed under Part 6 or Part 9 of the Building Code.
- Principal exhaust fan is HVI approved.
- Principal exhaust fan switch located in a central location and identified.