



Heating Rough-In Inspections

This inspection guide answers common questions and provides a checklist of deficiencies.

Why is the heating system inspected?

The roughed-in heating system is inspected to confirm that the system is sized and installed to meet the heating and ventilation requirements for a healthy living environment.

When must an inspection be requested?

A rough-in heating inspection is often requested to coincide with the framing inspection and prior to the installation of the insulation. While 48 hours' notice is required prior to the date of inspection, we strive to provide the best service possible and a next day service can usually be achieved to facilitate your construction schedule.

What is involved during an inspection?

A certified building inspector reviews the roughed-in heating system for compliance with the building permit drawings and the Ontario Building Code. The following is a list of the 5 major areas that are inspected.

- Supply air system
- Return air system
- Chimney and insulation
- Exhaust systems
- Mechanical ventilation

The construction progress, including Building Code deficiencies, are documented on a Field Inspection Report issued by the building inspector immediately after the site inspection.

What can I do before the inspection?

Your involvement in the inspection process is critical. A review of the construction prior to the inspector's arrival can help to ensure a smooth flow in the construction of your project. To help you achieve this, we have assembled a checklist of the most common Building Code deficiencies found while performing inspections. Please refer to the reverse side of this Information Sheet to complete the checklist.

How do I request an inspection?

You may call for an inspection during regular business hours at 519-776-6476. Please provide the following 5 pieces of information:

1. Building Permit number
2. Type of Inspection (see your Building Permit Card)
3. Date inspection requested
4. A.M. or P.M. Inspection time (where scheduling allows)
5. Contact name and phone number

Looking ahead

The next inspection will be fireplace rough-in or insulation when your project does not include a fireplace or wood stove.

Heating Rough-In Inspections

This form identifies the most common Ontario Building Code deficiencies found while performing heating rough-in inspections. Use this form as a guide during construction, and reduce your costs associated with the repair of Building Code deficiencies. Not all Building Code requirements could be included in this form.

Prior to calling for an inspection, verify that the relevant items have been completed satisfactorily. While some items may not apply to your project, please consider each one carefully. Indicate "yes" as completed or "N.A" as not applicable.

The following table asks 11 Supply Air System Questions:

Supply Air Systems	Indicate Yes or NA
1. Clearance has been maintained between the plenum and combustible materials. Refer to the manufacture's installation instructions.	
2. Supply ducts and associated fittings are non-combustible except when they conform to test criteria.	
3. Butterfly damper at each register.	
4. Maximum of 1200 mm (4 foot-0 inches) allowed for supply air from the outside wall in an unfinished basement.	
5. Ducts in floors or walls are fire stopped with mineral wool between the duct and the construction at each end.	
6. S and drive cleat connections or equivalent are provided for rectangular duct connections.	
7. To avoid excessive vibration, trunk supply ducts are not nailed directly to wood joists.	
8. Ducts placed in concrete must be inspected prior to covering.	
9. Vertical flexible ducts are not permitted.	
10. Horizontal flexible ducts do not exceed 4000mm (13 foot-0 inches) and are ULC Class 1 type.	
11. Vertical clearance beneath ducts in basement space is a minimum of 1.95 m (6 foot-5 inches).	

The following table asks 5 Return Air System Questions:

Return Air System	Indicate Yes or NA
1. Return air installed on each story.	
2. Return air chases are backed with metal, gypsum board or plywood.	
3. Return air inlet not located in garage, kitchen, washroom, furnace or laundry room.	
4. A return air outlet installed in all rooms over a garage or an unheated space.	
5. Blockage of return air ducts not permitted. Relocate all electrical boxes, wiring, piping	

The following table asks 2 Chimney and Insulation Questions:

Chimney and Insulation	Indicate Yes or NA
1. All supply and return air ducts exposed or passing through unheated spaces are insulated with a minimum of R-12 insulation.	
2. Exhaust ducts are wrapped with insulation	

The following table asks 2 Exhaust Systems Questions:

Exhaust Systems Questions	Indicate Yes or NA
1. An exhaust air intake or exhaust fan is installed in each kitchen, bathroom and water closet room.	
2. Kitchen exhaust duct installed so that entire duct can be cleaned when duct not equipped with a filter at the intake.	

The following table asks 5 Mechanical Ventilation Questions:

Mechanical Ventilation	Indicate Yes or NA
1. Fuel-fired appliances and all other space heating equipment are installed in accordance with the permit documents. A change in the appliance classification requires a revision to the permit.	
2. The categorization of the dwelling unit corresponds with the type of fuel-fired appliances installed.	
3. Mechanical ventilation system installed under Part 6 or Part 9 of the Building Code.	
4. Principal exhaust fan is HVI approved.	
5. The size of the point exhaust ducts and return to the heat recovery ventilator maintained in accordance with the permit drawings.	

Contact:

For more information, please contact the Building Department:

2610 County Road 12

Essex, Ontario

N8M 2X6

Phone: 519-776-6476

Fax: 519-776-7171