



Plumbing Rough-In

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

Why is the plumbing system inspected?

The drainage, waste, venting and water distribution systems are inspected to ensure that they operate properly and provide the occupants with a healthy living environment and safe drinking water.

When must an inspection be requested?

The site supervisor or owner in co-ordination with the plumbing contractor must request a plumbing rough-in inspection once the work is completed and the systems are ready for testing. 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.

Can the inspection be combined with another inspection?

Yes! Our preference would be to perform the framing and heating rough-in inspection at the same time as inspecting the plumbing and witnessing the tests.

What is involved during an inspection?

A certified building inspector reviews the assembly of the plumbing system components for compliance with the Ontario Building Code. The following is a list of the 11 major areas that are inspected.

- Materials and equipment
- Testing of drainage and venting systems
- Testing of potable water systems
- Protection of piping
- Support of piping
- Traps
- Arrangement of drainage piping
- Cleanouts
- Slope and length drainage pipes
- Arrangement and size of venting pipes
- Protection from contamination of water piping

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 plumbing system rough-in prior to the inspector's arrival can help to ensure a smooth flow in the construction of your project. To help you, 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 (where scheduling allows)
5. Contact name and phone number

Looking ahead

The next inspection may be the heating rough-in, framing or insulation.

Plumbing Rough-In Inspections

This form identifies the most common Ontario Building Code deficiencies found while performing plumbing 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 10 Material and Equipment Questions:

Materials and Equipment Questions	Indicate Yes or NA
1. Improper pipe fittings in drainage or venting system are not being used.	
2. One-quarter bends with 4 inch size or less drainage piping is not installed on building drains.	
3. A double Y, double TY, double T or double waste fitting is not installed in a nominally horizontal soil or waste pipe.	
4. Plastic pipe conforms to B181.1, B181.2, B182.1 or B182.2 when used underground outside a building, under a building for a drainage system or inside a building for a storm drainage system.	
5. Plastic pipe conforms to B181.1 or B181.2 when used under a building or inside a building for a venting system.	
6. PE/AL/PE pipe and fittings has not been used in a hot water potable water system.	
7. PEX/AL/PEX pipe and fittings for use with potable water systems complies with B137.10.	
8. Galvanized pipe has not been used in a water distribution system, except for repairs.	
9. Solder joint fittings for drainage systems, lead waste pipe and aluminum DWV pipe have not been used in a water system. Lead free solder being used.	
10. Shower valves conform to CAN/CSAB125	

The following table asks 9 Piping Questions:

Piping Questions	Indicate Yes or NA
1. Cast iron galvanized steel pipe and aluminum DWV pipe is not welded.	
2. Slip joints have not been used in the venting or drainage system.	
3. Connection of pipes with an increaser or reducer will permit drainage of system.	
4. Allowance made for expansion of piping.	
5. Provision made to eliminate water hammer.	
6. Suitable air break indirect connections.	
7. Vent pipe supported at roof termination.	
8. Piping protected against freezing temperatures.	
9. Support of ABS piping every 4 feet.	

The following table asks 2 Testing of Drainage, Venting and Portable Water Systems Questions:

Testing of Drainage, Venting and Portable Water Systems	Indicate Yes or NA
1. Systems are ready for inspection prior to the inspector's arrival.	
2. No leaks in drainage, venting or water distribution systems.	

The following table asks 1 Traps Question:

Traps Questions	Indicate Yes or NA
1. Floor drains have trap seal primers.	

The following table asks 3 Cleanouts Questions:

Cleanouts Questions	Indicate Yes or NA
1. Cleanout for the building drain is accessible	
2. Cleanout installed on fixture drain on the kitchen sink or removable trap installed.	
3. Cleanout located at base of stacks	

The following table asks 2 Slope and Length of Drainage Pipe Questions:

Slope and Length of Drainage Pipe Questions	Indicate Yes or NA
1. Minimum slope of 1 in 50 for pipe 3 inch or less.	
2. Maximum length of fixture outlet pipe 2 foot-11 inches	

The following table asks 8 Stack Venting Questions:

Stack Venting Questions	Indicate Yes or NA
1. Not more than 4 fixtures installed above the water closet.	
2. Not more than 2 water closets installed.	
3. Fixtures on the same level and stack receives no waste at a higher level.	
4. Water closets connected to the vertical part of stack or one connected to the vertical and one to horizontal.	
5. Fixtures connected directly and independently and above connection of 2 water closets.	
6. Uppermost fixture is connected to the vertical portion of the stack.	
7. Maximum fixture units 8 above water closet.	
8. Maximum size of fixture drain 2 inch above a water closet.	

The following table asks 7 Vent Pipes Questions:

Vent Pipes Questions	Indicate Yes or NA
1. Vent pipe of at least 1.5 inches on each story.	
2. Sewage ejector is vented at the top.	
3. Vent pipe installed without sag and no open or unused ends.	
4. Except for a wet vent, a vent pipe is connected above horizontal centre line of soil or waste pipe.	
5. Vent pipe installed above the flood level of the fixture it serves before connection to a vent pipe.	
6. Maximum 4 foot-11 inches from vent to trap weir	
7. Vent terminates 2 foot-11 inches above and 12 feet from windows, etc.	

Contact:

For more information, please contact the Building Department:

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