

Why are foundations inspected?

Foundations are inspected to ensure that the structural loads of the building will be safely transferred to the surrounding soil and resist lateral earth pressures. In addition, the control of moisture must be properly identified.

When must an inspection be requested?

Request an inspection of the foundation prior to backfilling the foundation. 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 provincially qualified building inspector reviews the construction of the foundation for compliance with the building permit drawings and the Ontario Building Code. The following is a list of the major areas that are inspected.

- Support of footings
- Footing forms
- Foundation wall thickness
- Reduction in thickness
- Joist and beam support
- Finishing (below ground)
- Form ties and segregation
- Dampproofing material
- Finishing (above ground)
- Exterior concrete stairs
- Foundation wall drainage
- Placement of backfill
- Termite control
- Location of insulation
- Lateral support
- Anchorage of building frames

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

FOUNDATION INSPECTIONS

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?

Permit Inspection Request Line (PIRL)

PIRL is an interactive voice response system for builders, contractors, owners, owner's representatives, and permit holders, to schedule, cancel, reschedule, and obtain building inspection results 24 hours a day, 7 days a week.

Access the PIRL system 24 hours a day, 7 days a week on any touch-tone phone. Call 905-475-4850 and follow the simple instructions. For a detailed overview of what the system offers, please visit www.markham.ca/building. When requesting an inspection you will need the following information with you:

- 1. Building permit no.
- 2. Project address
- 3. Date inspection required
- 4. Contact name and phone no.
- 5. Provide further comments (optional)

Looking ahead

The next inspection will be framing, heating and plumbing rough-in. Ask your building inspector for the Framing Inspection, Heating Rough-in and Plumbing Rough-in Information Sheets or call us at (905) 477-7000 ext. 2307 and we will gladly send them to you.

'This is one in a series of Information Sheets published specifically for homeowners and builders, for use as a guide to residential building inspections'

FOUNDATION INSPECTIONS

This checklist identifies the most <u>common</u> Ontario Building Code deficiencies found while performing foundation inspections. Use this checklist 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 checklist.

Prior to calling for an inspection, verify that the relevant items have been completed satisfactory. While some items may not apply to your project, please consider each one carefully. Indicate '☑' as completed or '☒' as not applicable in the box adjacent to the construction item.

Supp	oort of Footings	q	Foundation provided for exterior steps with
	Footings on solid, clean unfrozen ground. Elevation of footings provide a minimum of	ч	greater than 2 risers, not including the door sill.
_	1.2 m frost protection cover.	Foundation Wall Drainage	
	Professional's report for foundations designed under Part 4 of the Building Code. i.e. engineered fill, piles.		Heavy coat of dampproofing is applied. Drainage tile 'weeping tile' placed on dry, compacted, unfrozen ground.
Footing Forms			Weeping tile perforations face down.
	Steel column footing 'pad' size and depth in accordance with the permit drawings.	size and depth in Weep transfer with the work of the w	Weeping tile adapter and connectors installed at footings and joints.
Foundation Wall Thickness			Top and sides of weeping tile covered with not less than 150 mm of crushed stone.
	Thickness of foundation wall for the retaining height against lateral earth		Weeping tile extended vertically to window wells and filled with crushed stone.
	pressure, as indicated on the permit drawings. Dwarf walls used to increase basement ceiling height conform to the permit		Drainage layer has been installed and fastened in accordance with the manufacturer's instructions.
		Location of Insulation	
drawings or unacceptable. Reduction in Thickness			Perimeter insulation installed where required
	Dove tail anchor slots or rod type ties installed for tying of brick to foundation. Standard brick ties are unacceptable.		by the Energy Design Summary Sheet. Insulation around or under the concrete slab- on-ground conforms to the Energy Design Summary Sheet.
Joist and Beam Support		Lateral Support	
	190 mm of solid bearing provided under beams.		The foundation walls are laterally (braced) supported or the first floor joists are
Finis	hing (below ground)		installed prior to backfilling.
	Unit masonry, parging coved over footing.	Anchorage of Building Frames	
	To prevent adfreezing, foundation wall surface is smooth.		Anchor bolts not less than 12.7 mm diameter are installed at 2.4 m on centre maximum and at all corners.