# Legal Basement Apartment Requirements City of Toronto

**B**asement apartments (a type of second unit), have been permitted in the City of Toronto, since 2000, however, previous City of Toronto's zoning regulations only permitted the creation of a basement apartment five years after the new house is constructed, and did not permit basement apartments in all townhouses.

The updated City of Toronto's zoning rules respond to provincial changes in the Planning Act that support basement apartments across the Province of Ontario and seek to simplify the creation of basement apartments. In the City of Toronto Zoning By-law 569-2013 a basement apartment is defined as a self-contained living accommodation for an additional person or persons living together as a separate single housekeeping unit, in which both food preparation and sanitary facilities are provided for the exclusive use of the occupants of the suite, located in and subordinate to a dwelling unit.

City of Toronto adopted zoning by-law amendments for basement apartments on March 28, 2019. The purpose and effect of City of Toronto Zoning By-law 549-2019 is to permit basement apartments in townhouses city-wide, remove the requirement for the original house to be at least five years old, remove unit size restrictions and reduce parking requirements. The amendments respond to policy changes to the Province of Ontario's Planning Act which support basement apartments across the Province of Ontario and seeks to simplify the creation of basement apartments.

<u>City of Toronto</u> on March 27 and 28, 2019, adopted to amend the site specific exceptions to the R zone in Chapter 900 of Zoning By-law 569-2013 that apply to lands in the area bounded on the north by Queen Street West, on the east by Dufferin Street, on the south by Lake Shore Boulevard West and on the west by Roncesvalles Avenue by removing from the list of prevailing sections item (ii) from Section 12(2)(70) of Zoning By-law 438-86, which restricts the average floor area of all the dwelling units in a converted house to at least 65m<sup>2</sup>.

In the R zone, a detached house and semi-detached house may be converted to have more than one basement apartment, subject to conditions. City of Toronto's Zoning By-law 569-2013 permits more than one basement apartment in a detached house, in the R zone and a semi-detached house, in the R zone. The R zone applies to the area roughly aligned with most of the former City of Toronto. A townhouse, as defined in the City of Toronto's Zoning By-law 569-2013, includes what was previously defined as a row house in the former City of Toronto Zoning By-law 438-86. The former City of Toronto permitted basement apartments in detached houses, semi-detached houses, and row houses much longer than the other former municipalities and this permission was carried forward in the Zoning By-law, 569-2013.

# Legal Basement Apartment Requirements as per City of Toronto's Zoning By-law, 569-2013 as follows:

- ➤ A basement apartment may be in a detached house; a semi-detached house; and a townhouse.
- ➤ Within a detached house, semi-detached house, or townhouse, each dwelling unit may have a maximum of one basement apartment. in the R zone, each dwelling unit in a detached house or semi-detached house may have more than one basement apartment.
- A basement apartment is permitted within a lawfully existing detached house, a lawfully existing semi-detached house, or a lawfully existing townhouse in the RA, RAC, CL, CR, I, IH, IE, IS, and IPW zones.
- ➤ Pedestrian entrance leading exclusively to a basement apartment is permitted in a front wall of a townhouse, but NOT permitted in a front wall of a detached house or semi-detached house.
- An addition or exterior alteration to an existing building to accommodate a basement apartment is permitted if it does not alter or add to a front wall, or roof that faces a street; but the following additions or exterior alterations may be on a front wall, or roof that faces a street:
  - o a porch or a basement extension under a porch;
  - o a balcony;
  - a dormer, if the interior floor area of the dormer is no more than 2.3m<sup>2</sup>
     and the total interior floor area of all dormers is not more than 9.3 m<sup>2</sup>;
     and

- ➤ a pedestrian entrance leading exclusively to a secondary suite in a townhouse.
- ➤ The interior floor area of a basement apartment, or all basement apartments where more than one is permitted, must be no more than 45% of the interior floor area of the dwelling unit within which it is located. In the case of a basement apartment located in the basement of a one storey detached house, the basement apartment may occupy the whole of the basement.
- ➤ Parking spaces must be provided at a minimum rate of one for each basement apartment more than one.

Newly created basement apartments provide additional affordable rental apartments in the established neighbourhoods of the City of Toronto. Basement apartments provide the added income to make home ownership more affordable in the City of Toronto. Constructing a legal basement apartment is an economical and sustainable use of existing infrastructure and a remedy for urban sprawl in the City of Toronto. Construction of new basement apartments is already occurring throughout established urban neighbourhoods in the City of Cambridge.

Homeowners in the City of Toronto renovate their homes to have a rental apartment in the basement to accommodate changing household needs and financial situations. Legal basement apartments in the City of Toronto contribute to the health, vitality, and value of neighbourhoods, including improving property values.

Legalizing the basement apartment ensures that the basement apartment meet all required fire, building and housing standards including the Ontario Building Code, Ontario Fire Code and the municipal by-laws of the City Toronto. A legal and safe basement apartment will improve homeowner's relationship with tenants, neighbours and the City of Toronto.

Basement apartments that are not legal, pose a fire risk and other safety concerns such as not enough building exits, fire separations between units, working smoke alarms, carbon monoxide detectors and illegal and unsafe electrical and plumbing connections.

A building permit is required to create a basement apartment within an existing house in the <u>City of Toronto</u>.

Requirements for a basement apartment in the City of Cambridge are based on the 2012 Ontario Building Code Part 9 (as updated January 1, 2018) and Part 11 if the house has been in existence for more than 5 years.

#### **Ontario Building Code Requirements for Basement Apartments**

Fire Resistance Rating	<5 years old	>5 years old
Floor Fire Separation	45min	30min /15min
Wall Fire Separation	45min	30min
Supporting Structure		
Load bearing Walls, Beams & Colu	mns 45min	30min

- Exiting to meet the requirements of the Ontario Building Code. If an exit is shared by the basement apartment, a larger egress window is required, and interconnected smoke alarms are required in every bedroom and common space throughout the entire house.
- An egress window is required in basement units containing a bedroom except for walk-out basement conditions, where direct access to exterior is provided to the basement apartment.
- A minimum ceiling height in existing basements of 6'-5" is required (including under beams and ducts) in the path of travel from all rooms to each exit.
- Smoke alarms are required in each new bedroom and ALL common areas on each floor. Smoke alarms are required to be interconnected (within unit or throughout entire building) with visual signaling.
- Carbon monoxide detectors are required on each floor serving a bedroom.
- If the basement apartment is sharing a furnace, a smoke duct detector is required to be installed in the supply or return air plenum which will shut off the furnace if smoke is detected.
- A furnace/boiler room not able to achieve a continuous fire separation is required to install a fire sprinkler system which is to be installed by a certified sprinkler installer. A backflow device and a 25mm water service upgrade may be required for the sprinkler system.
- Any doors between basement apartment and the main house must have a minimum 20 min fire protection rating with a self-closing device.

- All penetrations through fire separations are required to be fire stopped with an approved fire stop device. Existing penetrations are acceptable in existing fire separations.
- The basement apartment is required to have a Kitchen, Living Room, Dining Room, Bathroom and a Bedroom. These areas can be used separate or as combined spaces.

Individual Room Area	Minimum Area Required
Living Room	145ft² (13.5m²)
Dining Room	75ft² (7m²)
Kitchen (1 bedroom)	40ft <sup>2</sup> (3.7m <sup>2</sup> )
Kitchen (2 bedrooms)	45ft² (4.2m²)
Master Bedroom (closets)	95ft² (8.8m²)
Master Bedroom (no closets)	105ft² (9.8m²)
Second Bedroom (closets)	65ft² (6m²)
Second Bedroom (no closets)	75ft² (7m²)

Bathroom sufficient size to accommodate toilet, sink, bathtub or shower

Combo Room Area	<b>Minimum Area Required</b>
Bachelor Unit (Living, Dining, Bedroom, Kitchen)	145ft² (13.5m²)
Living, Dining (1 bedroom)	153ft² (14.25m²)
Living, Dining, Kitchen (1 bedroom)	193ft² (17.9m²)
Living, Dining (2 bedroom)	180ft² (16.75m²)
Living, Dining, Kitchen (2 bedroom)	226ft² (20.95m²)

#### Minimum Window Sizes for Natural Lighting

Bedrooms and Rooms not mentioned

<u> </u>			
Rooms	< 5 Years Old	> 5 Years Old	
Living and Dining Room	10%	5%	
Bedrooms and Other Finished Rooms	5%	2.5%	
Kitchen, Washrooms, Laundry and			
Basement Rec room	0%	0	
Required Minimum Door Uses			
Entrances and Utility Rooms	32" x 78"		
Bathroom, Washroom, and Closets	24" x 78"		

30" x 78"

- A space for laundry facilities are to be provided within the basement apartment or must be available in a conveniently accessible common space.
- An exterior light is required at the separate exterior entrance into a basement apartment
- Lighting is required for all stairs with 3-way switches.
- If a separate basement side entrance is proposed, check with the municipal zoning plans examiner to determine whether the separate basement side entrance is permitted in the location proposed on the property.

#### **Separate Entrance to a Basement Apartment**

To legalize a separate basement entrance typically the following drawings and plans are required.

- Legal Survey
- Existing and proposed construction details including foundation & exterior wall drawings, location and size of basement separate entrance, stair and landing dimensions, drain location, locations of proposed underpinning, locations of any support columns, and structural framing above, detail drawings of separate side entrance stair construction, location and size of separate basement entrance door, size of lintel(s) required over the separate side entrance door, location of exterior side entrance light and light switch, stages of proposed underpinning, numbered to show sequence of work and distance to foundations of adjacent buildings, including depth of the basement footings of the adjacent building.
- Detail drawings of any drain connection to storm sewer, or sump pit.

Basement foundation walls with new openings wider than 3'11" or walls having openings more than 25% of its length shall be considered laterally unsupported and may require a Professional Engineer's review Where the depth of the basement separate side entrance causes the existing foundation to have less than typical 4 ft of frost coverage the basement foundation must be extended to provide the required minimum 4 ft of frost protection. Where the proposed underpinned foundation is to be constructed below the level of the basement footings of the adjacent building and within the angle of repose of the soil, the underpinning and related construction must be designed by a Professional Engineer. The moisture in the soil freezes during the winter and cause frost upheaval.

The level of frost penetration and the amount of moisture in the soil (from poor grading and high groundwater table) determine the amount of frost pressure.

To avoid the 4ft depth of excavation excavate to the bottom of the existing basement footing to provide frost protection, required frost protection could be attained by excavating 1ft below the walkout grade, installing vertical insulation against the basement footing, extending insulation horizontally for a length equal to the frost depth (Typically 4 ft) away from the bottom of the footing, overlapping the insulation at the horizontal and vertical transition and sloping the insulation away from the basement foundation for heat retention under the footing and proper drainage away from the footings.

Adequate insulation should be used to retain the heat immediately adjacent to the footing, which comes from the heat flowing from inside of the house to the soil beneath and beside the footing; and geothermal heat from the deep soil—heat stored in the earth below the frost level. Heat loss at corners is most pronounced because it occurs in two directions.

Horizontal insulation installed in "wings" sloping outward, around the perimeter of the slab, extends the heat flow path; controls heat loss; and moves the line of frost penetration away from the footing.

Adequate measures must also be taken to avoid damage to the insulation during construction. While in warmer parts of Ontario, only a 4 ft (1.2 m) wing will be required; in more severe climates, the width of the wing might need to extend out 6 ft (1.8 m) from the foundation perimeter. Use Expanded Polystyrene Type II or III, or Extruded Polystyrene Type IV insulation. The perimeter drainage should be extended out around the walkout and reconnected at both ends. Ensure perforated drainpipe remains 6 inches above weeping tiles with gravel in between to act as a filter for the weepers.

#### **Removal of Load Bearing Walls**

Removal or opening load bearing walls compromise the structural integrity of the walls and floors since uniform distributed loading is replaced with two point loads due to the removal or opening of load bearing wall. Also, two new point loads on the floor caused by the removal or opening of load bearing wall require additional proper support underneath the floor.

If plumbing, electrical and HVAC duct located in the load bearing wall, the plumbing, electrical and HVAC duct located in the load bearing wall should be modified and relocated.

Relocation of plumbing, electrical and HVAC duct located in the load bearing wall may sometimes results in alterations to the interior ceilings and walls including undesirable bulkheads. Stamped Engineering Drawing Requirements for a Building Permit Application to Remove a Load Bearing Wall

- Structural Engineer stamped point load calculation including how the load will be transferred from the floor where the wall is being removed to the floor below.
- Plan view (For the floor level where the wall is being removed)
- Direction of the existing floor joists span
- New beam sizes and supports
- Distance measured from the new beam to the next wall or beam that is supporting the floor joists (for each side of the beam)
- Plan view (For all floor levels above and below the floor where the wall is being removed)
- Direction of the existing floor joists span
- All existing beams below the new posts from above and their sizes and post locations
- Distance measured from the existing beam to the next wall or beam that is supporting the floor joists (for each side of the beam)

We will visit your basement apartment, measure and prepare proper drawings and plans to obtain the municipal building permit to construct or legalize your basement apartment. The required engineering drawings to obtain building permit to construct or legalize a basement apartment are prepared by licensed professional engineers (P.Eng) and will cost \$1,895<sup>+HST</sup>.

The required engineering drawings and plans to obtain building permit to construct or legalize a separate entrance to the basement apartment, will cost \$1,595<sup>+HST</sup>. \$500 discount will apply if we prepare the drawings to legalize the basement apartment at the same site.

The required engineering drawings and plans to obtain building permit to remove a load bearing wall, will cost \$1,295<sup>+HST</sup>. \$500 discount will apply if we prepare the drawings to legalize the basement apartment at the same site.

If required by the Municipal Authorities, HVAC Heat Loss/ Gain and Duct Sizing Calculations by a Licensed Professional Mechanical Engineer will cost additional \$750<sup>+HST</sup>.



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This document was developed with the input of:

- Ministry of Municipal Affairs and Housing
- Large Municipal Chief Building Officials Group
- Ontario Building Officials Association
- Ontario Association of Fire Chiefs

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# Adding a Second Unit to an Existing House

Adding a second unit is a great way to provide independent living for a family member or make a little extra money to help pay off the mortgage. But there are things you need to consider as you decide whether to build a second unit. Is your home detached, semi-detached or a rowhouse that is more than five years old? Are you considering renovating it to add a second unit? If the answers are yes, then this guide can help you. It fulfills a commitment made in Ontario's Housing Supply Action Plan to provide homeowners with a user-friendly guide and checklist to help you build legal second units.

Note: If your house is less than five years old, different Building Code rules apply. Contact your local building department for more information.

Before deciding to add a second unit, it is important that you first speak with your local municipal planning and building departments. They can tell you whether or not you can add a second unit on your property and answer any questions that you have related to local zoning, the Building Code and other by-laws.

There are several important factors you need to consider before adding a second unit, including:

- Applicable municipal zoning requirements
- Necessary building permits
- Designing your unit to comply with the Building Code
- Required building inspections during construction

It is important to meet planning and Building Code requirements. Doing so will help ensure that your house and second unit are legal, safe and healthy places to live.

To help you through the sometimes complex design and building process, we recommend you hire a qualified professional such as an architect, professional engineer or a designer registered with the Ontario government. These professionals and your builder can act



### What is a second unit?

A second unit is a self-contained dwelling unit with a private kitchen, bathroom facilities and sleeping areas. It can be located in your house or on your property, above a laneway garage or in a coach house. This document generally applies to Building Code requirements for second units in houses, and not for second units in garages or coach houses, though some of the same rules apply.



as your agent regarding matters with your local municipality. They can help you get all necessary approvals, including a building permit, and also arrange construction inspections.

# Municipal Zoning and Other By-Laws

Know your municipality's zoning by-laws. They affect the construction of your second unit. Ask your local planning and building department about:

- The zoning requirements and standards for second units that apply to your property. This includes rules around parking requirements, exits and entrances, servicing or minimum or maximum unit size.
- Whether you need to apply for rezoning or a minor variance.
- Any other applicable agreements and approvals that are required before you can add a second unit.
- Whether your second unit will need to be licensed or registered with your municipality.

If you cannot comply with your municipality's by-laws, you will not be able to add a second unit.

#### Did You Know?

For the construction of a second unit in an existing house, development charges are not collected.

Also, the Government is considering potential regulations that might further address barriers to establishing second units such as local parking requirements.

# Getting a **Building Permit**

To add a second unit in your house, you will need a building permit. You or your agent can apply for one at your local building department. You will need to submit:

- A completed application form and any other forms and supporting documents requested by the municipality
- Construction drawings (most municipalities require at least two sets of drawings)
- Payment of the building permit fee

You should also check with your municipality to find out if:

- You need to hire a licensed contractor. to do the work.
- They accept electronic permit applications, as this can speed up processing time.

Once your complete application has been submitted, you will hear back within 10 business days whether it has been approved or not. Incomplete applications or improper design may mean your permit will be delayed or not accepted.

### **Building Inspections**

Once your building permit has been issued, building inspectors from the municipality must review work at various stages during construction. Inspectors will need to check framing, insulation, plumbing, interior finishes and other items as outlined in the Building Code. Make sure to **confirm with your inspector** what needs to be inspected.

You or your agent are responsible for informing your building department when different stages of construction are ready for inspection.

Any second unit, whether it is new or existing, must be a safe place to live. If you already have an existing second unit in your house and have concerns with its design, you are encouraged to **contact your local building department**.

# Building Code Requirements for Second Units

Ontario's Building Code sets out minimum construction standards for how to build a second unit in your house. These minimum standards are described in the sections that follow. In some cases, you may wish to build beyond the minimum requirements of the Building Code. Building beyond the Building Code provides homeowners many advantages, including greater occupant comfort and amenities that can make your second unit a nicer place to live.



#### Age of Your House

Different Building Code rules apply depending on the age of your house.

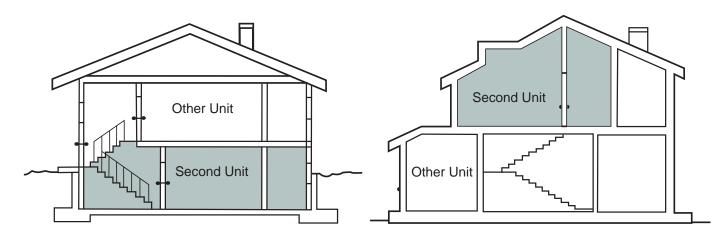
If your house is more than five years old, it is classified as an existing house and you have more flexibility under the Building Code when you make renovations.

If your house is less than five years old, then it is classified as a new building and under the Building Code it generally must meet

new construction requirements. For more information on adding a second unit to a new house, contact your local building department.

#### **Location of Your Second Unit**

You can build a second unit in any part of your house. It can be all on one floor or on multiple levels. Most second units are built in the basement or attic. Building Code rules can vary depending on where the second unit is located in your house.



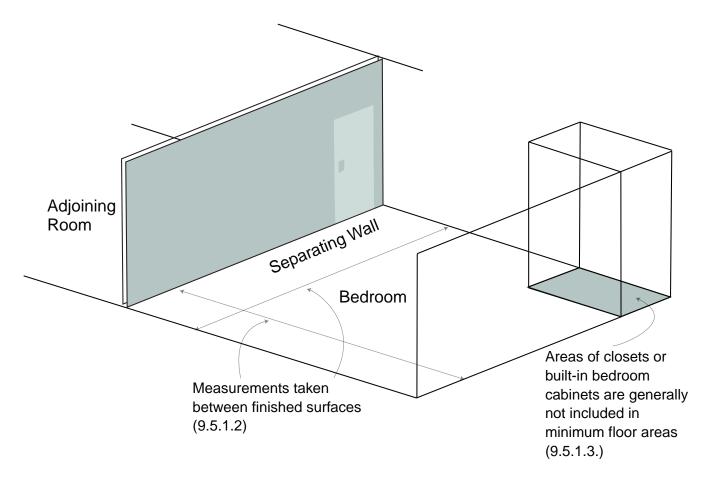
**Examples of Second Unit Locations** 

#### Room Sizes and Floor Area

The Building Code sets out minimum room sizes in dwelling units, including second units. Room sizes vary depending on whether rooms are separated by walls or the unit is open concept. For example, the minimum area of a dining room separated by walls is 7 m<sup>2</sup> (75 ft<sup>2</sup>), while an open concept bachelor unit combining sleeping, living, and dining areas and kitchen space is permitted to be 13.5 m<sup>2</sup> (145 ft<sup>2</sup>). Generally, minimum sizes for rooms and spaces includes:

Room/Space:	Minimum Required Floor Area:
Living area	13.5 m² (145 ft²)
Dining area	7 m <sup>2</sup> (75 ft <sup>2</sup> )
Kitchen	4.2 m <sup>2</sup> (45.2 ft <sup>2</sup> )
Combined living, dining and kitchen areas in a one-bedroom unit	11 m² (118.4 ft²)
Master bedroom (without built-in closet)	9.8 m² (95 ft²)
Other bedrooms (without built-in closets)	7 m <sup>2</sup> (75 ft <sup>2</sup> )
Bathroom	Sufficient space for sink, toilet and shower stall or bath
Combined sleeping, living and dining areas and kitchen space	13.5 m <sup>2</sup> (145 ft <sup>2</sup> )

(Relevant Building Code provisions - Division B, Subsections 9.5.4. to 9.5.9.)



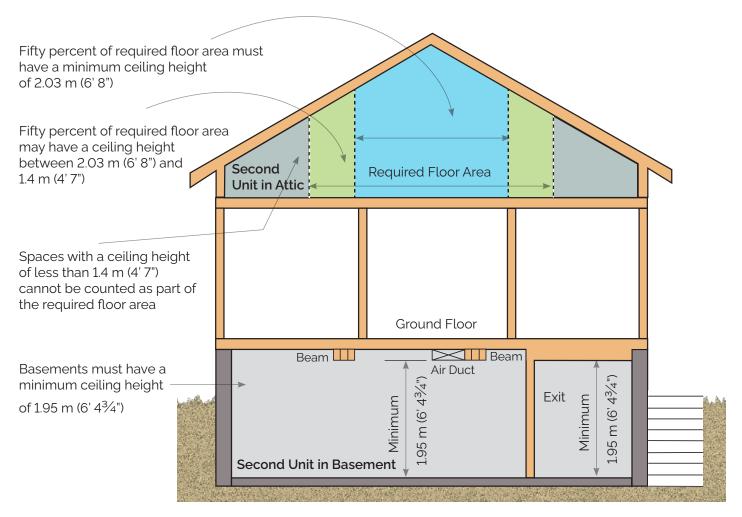
Room Sizes and Floor Areas

#### **Ceiling Heights**

You are also required to have minimum ceiling heights in your rooms. Meeting the ceiling height requirements can sometimes be a challenge in an existing house. Choose the location of your second unit carefully. Ceiling height requirements for second units vary in different parts of your house such as in basements and attics.

- A basement second unit is permitted to have a ceiling height of 1.95 m (6' 4¾") over the entire required floor area, including the route inside the unit leading to the exit.
- An attic second unit which may have sloped ceilings would meet the Building Code if at least 50% of the required floor area has a ceiling height of 2.03 m (6' 8"), but this does not include areas with low ceilings less than 1.4 m (4' 7") high.

(Relevant Building Code provisions - Division B, Table 11.5.1.1.C., Compliance Alternative 102)



Second Unit Ceiling Height

#### **Windows**

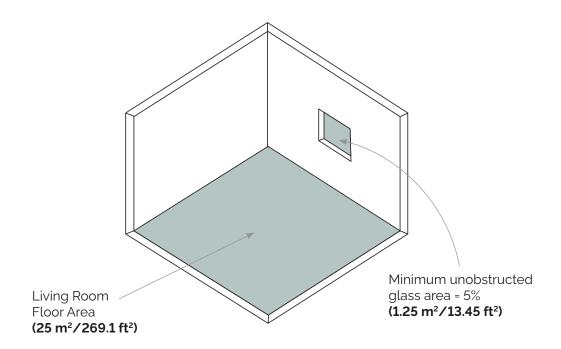
Windows are required in a second unit. The size of windows you need is determined by the size of the unit. Larger units will require more or bigger windows. Window sizes are also based on what type of room they are in. Some windows can also be used as another way to exit a second unit. For more information, please see the section on "Exits" on page 15.

Where the window is not being used as an exit, minimum window sizes are:

Room/Space:	Minimum Required Window Area:	
Living and dining rooms	5% of the floor area	
Bedrooms	2.5% of the floor area	
Laundry room, kitchen, bathroom	Windows not required	

(Relevant Building Code provisions - Division B, Article 9.7.2.3. as modified by Table 11.5.1.1.C., Compliance Alternative 107)

For example, if you are planning to have a dining area of 10 m<sup>2</sup> (108 ft<sup>2</sup>), the minimum size of the window(s) must be 0.5 m<sup>2</sup> (5'4'ft<sup>2</sup>). The diagram below shows another example:



Window Sizes and Floor Areas



#### **Plumbing**

Your second unit will have to meet plumbing requirements. At minimum you will need:

- A hot and cold water supply
- A sink, bathtub or shower, toilet, or a drainless composting toilet in the bathroom
- A kitchen sink
- Access to laundry facilities, which may be provided in a shared laundry room or a separate laundry area in the second unit

You will need a qualified plumber to do this work.

(Relevant Building Code provisions - Division B, Articles 9.31.4.1. to 9.31.4.3.)

Second units must also have their own separate water shut-off valves. This allows plumbing work or repairs to be done in one unit without affecting water flow in the other.

(Relevant Building Code provisions - Division B, Sentences 7.6.1.4.(1) and 7.6.1.6.(1))

If your house is in an area that is subject to flooding or sewer backup, you may need to install a backwater valve when you add a second unit. Backwater valves help prevent sewage in municipal drain pipes from entering floor drains and plumbing fixtures in the lower levels of your house.

(Relevant Building Code provisions - Division B, Article 7.4.6.4.)

#### **Septic Systems**

Adding a second unit to a house served by a septic system is permitted as long as the septic system has the capacity to handle the increase in sewage.

Check with your building department to make sure your existing septic system is sized properly. If not, you will need to upgrade your septic system so that it can safely treat the extra sewage flow.

(Relevant Building Code provisions -Division B. Sentence 11.4.2.5.(4))

(Note: some municipalities rely on regional health units or conservation authorities to enforce the septic system requirements of the Building Code. Your local building department will advise you if that is the case.)

#### **Heating and Ventilation**

The Building Code allows a house with a second unit to have a single furnace and common system of air ducts. For fire safety, you will have to install a special type of smoke detector in the main supply or return air ducts. When

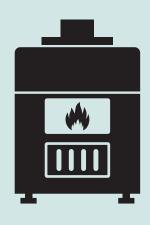
activated, this device turns off the fuel supply and electrical power to the furnace causing it to shut down and preventing the spread of smoke from one unit to the other.

Duct-type smoke detectors must meet a specific performance standard known as UL 268A. To ensure you have the right detector and the installation is done properly, you should hire a qualified contractor to do the work.

(Relevant Building Code provisions - Division B, Table 11.5.1.1.C., Compliance Alternative 195)

Ventilation is also required for the bathroom and kitchen of your second unit. This can be provided by a ceiling exhaust fan or a window that opens to outside.

(Relevant Building Code provisions -Division B, Article 9.32.1.2. as modified by Table 11.5.1.1.C., Compliance Alternative 194)



### Going Beyond Code:

While the Building Code allows one furnace to heat an entire house including the second unit, you might want to consider installing a second furnace and air ducts when adding a second unit. Sharing one furnace and air ducts between two units may mean cooking smells, recreational smoke and other odours, as well as noise, may transfer from one unit to the other. Having one thermostat controlling the temperature of both units may also become an issue for residents of both units.

### **Electrical Facilities and Lighting**



To ensure adequate lighting in rooms and spaces, the **Building Code** requires that your second unit must have:

- A light and switch in every room and space of your second unit
- A switch at both the top and bottom of the stairs

(Relevant Building Code provisions - Division B, Articles 9.34.2.2. and 9.34.2.3.)

The Electrical Safety Code, produced by Ontario's Electrical Safety Authority (ESA), has further requirements when adding a second unit.

- You will need to get a separate electrical permit to do the electrical work in your second unit.
- The ESA will inspect the electrical work in your second unit.

It is recommended that you hire a licensed electrical contractor to do the work. They can also get the electrical permit and arrange inspections for you.

 For further information you can contact ESA directly at 1-877-ESA-SAFE (372-7233) or esasafe.com.

#### **Fire Safety**

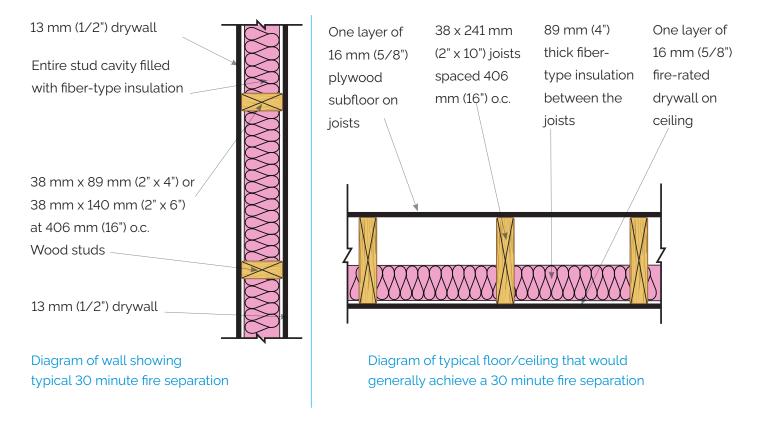
For fire safety you will need a fire separation between your second unit and the rest of the house. A fire separation acts as a physical barrier to slow the spread of fire from one part of the house to the other. The fire separation must be continuous and include protected openings if necessary (e.g. fire dampers) in order to work properly.

### What is a fire separation?

A fire separation can be a floor, wall, door with a self-closing device, or a combination of those things. It can be built using typical building materials such as lumber and drywall. For example, a 30 minute fire separation can be built using 38 mm x 89 mm (2" x 4") wood studs, 13 mm (1/2") thick drywall on both sides, and fibre-type insulation between the studs. Lath and plaster construction typically found in older houses is an example of a 15 minute fire separation.

When adding a second unit, the Building Code requires a 30 minute fire separation between units, and also between units and common areas. If the renovation of your house to add a second unit requires the alteration of an existing floor or ceiling, you are required to make that a 30 minute fire separation (see floor/ceiling diagram). A fire separation can be reduced to 15 minutes if the entire house has interconnected smoke alarms.

(Relevant Building Code provisions - Division B, Table 11.5.1.1.C., Compliance Alternatives 147, 152 and 153)



Good-to-Know: A wall built to meet the Building Code's fire separation requirements will help to reduce noise between units.

### Going Beyond Code:

Noise and vibration travelling between units is a common problem for people that live in multi-unit residential buildings, including houses with second units. It is a good idea to build extra noise protection in the walls, floors and ceilings that divide your second unit from the remainder of the house. There are many different ways to construct a wall so that it has greater noise protection, including additional insulation, extra layers of drywall, etc.



### Going Beyond Code:

To enhance the fire safety of your second unit you should consider installing smoke alarms in storage rooms and service areas that are interconnected with the smoke alarms in the second unit. Fires that start in remote areas of a house can often be the most deadly as they can burn for longer periods before being detected.

#### **Smoke Alarms**

You will need smoke alarms (sometimes known as smoke detectors) in your second unit that must meet the CAN/ULC S531 performance standard. A label on the alarm will indicate whether it meets this standard. Your smoke alarms must also have a flashing light when they are activated. Smoke alarms are widely available at hardware and home renovation stores.

Proper placement of smoke alarms is important. They must be located:

- On every level of a house
- Outside sleeping areas (which, depending on the layout of a floor, can also count as the smoke alarm for that level)
- In each bedroom in the second unit
- In common areas of the house shared by occupants of both units, such as entrances and laundry rooms

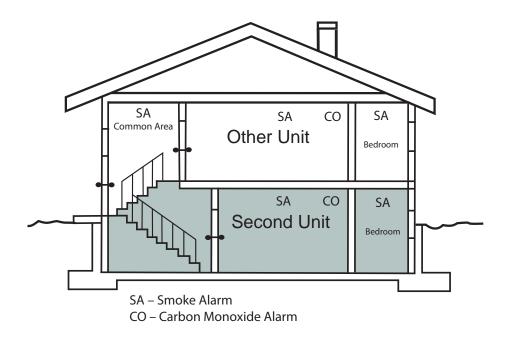
(Relevant Building Code provisions -Division B. Subsection 9.10.19.)

#### Carbon Monoxide **Alarms**

In addition to smoke alarms you may also have to install carbon monoxide alarms. They are required if your house has a furnace that uses natural gas, propane or other similar fuels. They are also required if your house has an attached garage. Carbon monoxide alarms can be either electrically powered or battery operated and must be located:

- Near bedrooms and sleeping areas in the second unit
- In the furnace room, if the furnace room is a separate space from the residential units

(Relevant Building Code provisions - Division B, Articles 9.33.4.1. and 9.33.4.2. as modified by Table 11.5.1.1.C., Compliance Alternative 197)



Location of Smoke Alarms and CO Detectors

#### **Exits**

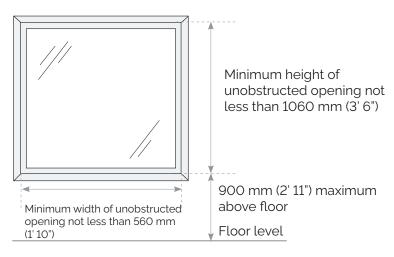
Your second unit needs safe exits. There are different rules for exits depending on where in your house the second unit is located. Providing a separate exit for the second unit is preferable. If that is not possible:

A common exit for both units in your house is allowed if the exit area has a
 30 minute fire separation and contains smoke alarms that are interconnected to both units.

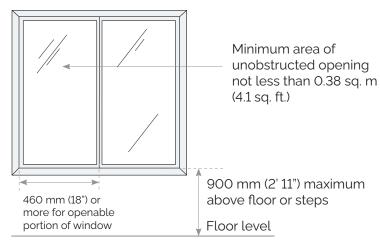


- In cases where the exit from one unit leads through another unit, a second means of escape must be provided by using a window.
- Windows that may be needed in an emergency as a second means of escape must be large enough for a person to get through and be easy to open without the use of tools.
- There are different requirements (shown in the diagrams below) for means of escape windows depending on whether they are located in the basement or upper floors.

(Relevant Building Code provisions - Division B, Table 11.5.1.1.C., Compliance Alternative 136)

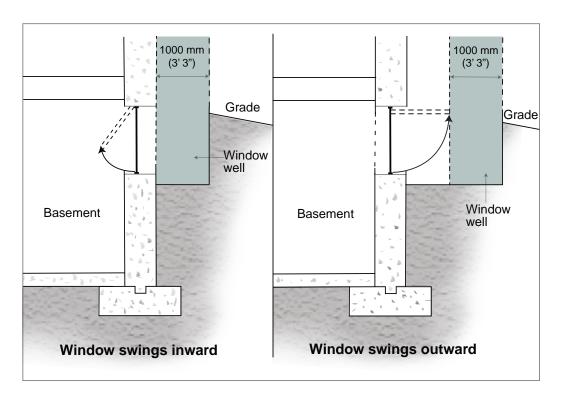


Escape window for upper floors



Note: Sill height no more than 1000 mm (3' 3") above or below adjacent ground level.

Ground floor or basement escape window



Window wells for basement escape windows (sectional view)

# Moving Forward with Your Project

Now that you know the basics for adding a second unit to your house, this can help you make an informed decision on whether to proceed.

As mentioned, and for best results, it is highly recommended you contact your local municipality early in your planning and design process, and also hire qualified professionals to help you.

To find your municipality's website, check out: ontario.ca/page/list-ontario-municipalities There, you can find a contact number for your local building department. You can also find further information online or at your local building department.

To read Ontario's Building Code check out: ontario.ca/laws/regulation/120332

You can check the qualifications of a provincially registered Building Code designer at:

quarts.mah.gov.on.ca/BCINSearchWeb/ search.html

#### To find out more about second units, visit:

- The Landlord Self Help Centre website landlordselfhelp.com
- The Canada Mortgage and Housing Corporation - Secondary Suites cmhc-schl.gc.ca/en/developing-andrenovating/accessible-adaptablehousing/secondary-suites

### Second Unit Checklist

Here is a checklist summarizing the important things to consider when adding a second unit to your house:

<ul><li>☐ Municipal Zoning and Other By-Laws</li></ul>	<ul><li>☐ Building Code Requirements for Second Units</li></ul>	
☐ Official Plan Policies	☐ Age of your House	
☐ Licencing and/or Registration, if applicable	☐ Location of Your Second Unit	
☐ Parking, if applicable	☐ Room Size and Floor Area	
□ Building Permit	☐ Ceiling Heights	
□ Inspections	☐ Windows	
	□ Plumbing	
	☐ Heating and Ventilation	
	☐ Electrical Facilities and Lighting	
	☐ Fire Safety	
	☐ Smoke Alarms	
	☐ Carbon Monoxide (CO) Alarms	
	□ Exits	

Ministry of Municipal Affairs and Housing

© Queen's Printer for Ontario, 2019

ISBN 978-1-4868-3396-2 (Print)

ISBN 978-1-4868-3397-9 (HTML)

ISBN 978-1-4868-3398-6 (PDF)

09/19

Disponible en français

