Building Division

Residential Interior Alteration/Renovation Permit Application Guide



Description

A building permit for an interior alteration or renovation to a small residential building, single detached dwelling, semi-detached dwelling or a townhouse.

General Information

A building permit is required to add or remove any structural component(s) of a building. A permit is also required to install new or repair existing plumbing in a building or part thereof, change the fuel source of a fireplace from gas-fired to solid burning (wood) or to change the use and/or classification of a building or dwelling.

Required Drawings

Survey or Site Plan – *Required for new openings

Survey or Site Plan, referenced to a current survey, showing the size and location of the existing structure, as well as distances to property lines and adjacent structures.

Floor Plans & Elevations - Architectural & Structural

Fully dimensioned plans, for each floor level showing existing and proposed uses of all spaces. Provide existing and proposed construction including footing, foundation and exterior wall construction, interior partitions and all structural framing components. Drawings are to show location of smoke alarms, carbon monoxide detectors and all plumbing fixtures including existing and proposed. Provide all four exterior elevations with floor to ceiling heights and overall building height.

Sections & Details

Cross section(s) to show existing/proposed building construction and specifications of all floor, wall and roof assemblies. Provide footing and foundation wall details including height of exterior grade above basement floor. Show floor to ceiling height and overall building height calculated to the midpoint of the roof or as per the zoning by-law standard. Detail stairs, landings, headroom, guards and handrails heights as well as any structural connections and specifications where required.

HVAC Mechanical Drawings and calculations

Where required, floor plans illustrating the layout of mechanical systems for each floor showing ducts, return and supply air location, stacks size and type of HVAC equipment. Calculations for heat loss, heat gain, duct design and mechanical ventilation.

Plumbing Data Sheet

Where an alteration or renovation includes plumbing and is serviced by municipal sewers a plumbing data sheet is required.

Sewage System Evaluations or Upgrade

Where a dwelling is serviced by a private on-site sewage system an evaluation of the system is required. The addition of plumbing fixtures, bathrooms or bedrooms will require a system evaluation and/or could require a system upgrade or replacement. Sewage system drawings, details and calculations are to include Designer information on all documents. Statement of Design and site plan showing location of septic tank, leaching bed and water well, in relation to property lines, other structures, bodies of water (creeks, streams, ponds, etc.).

Note: Drawings prepared by a qualified Designer as defined by the Ontario Building Code, must include designer's name, Building Code Identification Number (BCIN), signature, and statement that the designer has reviewed and takes responsibility for the design and meets the qualifications set out in the Ontario Building Code as a Designer, other Designer or licensed sewage system contractor.

Required Forms

- Application for a Permit to Construct or Demolish
- Schedule 1 Designer Information * (if required)
 Schedule 2 Sewage System Installer Information *(If a sewage system is being altered or installed)
- Energy Efficiency Design Summary * (when HVAC alterations apply)
- Plumbing Data Sheet (required for dwellings serviced by municipal sewers)
- Owner's Authorization Form
- Zoning Review Declaration

Exemptions - Schedule 1

If drawings are prepared, stamped and signed by a Professional Engineer or Architect licensed to practice in Ontario, they are exempt from submitting a Schedule 1. Property owners may prepare and submit drawings for residential interior alterations or renovations however the scope of work undertaken by a homeowner must stay within the design limits of Part 9 of the Ontario Building Code. Homeowners may fill-in the Schedule 1 form to take responsibility for the design activities being carried out.

Required Fees - Residential

Building permit application fees can be found on the Townships website here: Fees and Charges By-Law

Permit Fee	As Per Fees and Charges By-Law
Road Damage Deposit - all Municipal roadways *if applicable	\$1,000 - \$5,000

Apply Online

All applications for building permits are to be submitted online. To submit an application for building permit applicants will be asked to provide the above forms, fees and digital copies of the specified drawings. For further information regarding online submission application requirements please visit our Website page Electronic Building Permit Application.

Additional Requirements/Approvals/ Applicable Law

The Building Code Act prohibits the issuance of a Building permit if the proposed construction or demolition will contravene applicable law as defined in the Ontario Building Code. All building permit applications require approval from the Townships Planning Department to ensure all proposed changes to a building or structure complies with the Townships Zoning By-Law.

Please verify all approvals that may be necessary to submit a complete application. The following are examples:

- Approval or Permit from Lake Simcoe Region Conservation Authority or Toronto Region Conservation Authority
- Site Plan Development Approval/Agreement (Township Planning Department)
- Committee of Adjustments Minor Variance Approval (Township Planning Department)

Should you have any questions or require clarification please contact the Building Division, King Township, 2075 King Road, King City, L7B 1A1 (905) 833-5321

Application for a Permit to Construct or Demolish This form is authorized under subsection 8(1.1) of the Building Code Act, 1992

For use by Principal Authority	y						
Application number:			Permit r	number (if differe	nt):		
Date received:			Roll number:				
Application submitted to:(Nam	ne of municipalit	ty, upper-tier muni	icipality, bo	ard of health or co	nservatior	n authority)	
A. Project information							
Building number, street name						Unit number	Lot/con.
Municipality		Postal code		Plan number/o	ther desc	cription	
Project value est. \$				Area of work (r	n²)		
B. Purpose of application							
New construction	Addition to existing bui		Alteratio	n/repair		Demolition	Conditional Permit
Proposed use of building		Curre	ent use of	building			
Description of proposed work							
	Applicant is:	Owner or	Au	ithorized agent c			
Last name		First name		Corporation or	partners	hip	
Street address						Unit number	Lot/con.
Municipality		Postal code		Province		E-mail	
Telephone number Fax						Cell number	
D. Owner (if different from a	pplicant)					,	
Last name		First name		Corporation or	partners	hip	
Street address		1		ı		Unit number	Lot/con.
Municipality		Postal code		Province		E-mail	1
Telephone number		Fax				Cell number	

E. Builder (optional)						
Last name	First name	Corporation or partners	hip (if applic	able)		
Street address			Unit numb	er	Lot/con.	
Municipality	Postal code	Province	E-mail			
Telephone number	Fax	Cell number				
F. Tarion Warranty Corporation (Ontario	New Home Warrant	y Program)				
i. Is proposed construction for a new home as defined in the Ontario New Home Warranties Plan Act? If no, go to section G.						i
ii. Is registration required under the Ontar	io New Home Warrantie	s Plan Act?		Yes	No	á
iii. If yes to (ii) provide registration number	(s)·					
G. Required Schedules	(0):					
i) Attach Schedule 1 for each individual who rev	views and takes respons	ibility for design activities.				
ii) Attach Schedule 2 where application is to con	·					
H. Completeness and compliance with a	applicable law					
 i) This application meets all the requirements of Building Code (the application is made in the applicable fields have been completed on the schedules are submitted). Payment has been made of all fees that are regulation made under clause 7(1)(c) of the E 	correct form and by the application and require equired, under the appli	owner or authorized agend schedules, and all requicable by-law, resolution or	red	Yes	No	
application is made.ii) This application is accompanied by the plans	and specifications preson	cribed by the applicable by	/-law.	Yes	No	
resolution or regulation made under clause 7	(1)(b) of the Building Co	de Act, 1992.	l l			
iii) This application is accompanied by the information and documents prescribed by the applicable bylaw, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law.						
iv) The proposed building, construction or demol	ition will not contravene	any applicable law.		Yes	No	1
I. Declaration of applicant						
1				dec	are that:	
(print name)						
 The information contained in this applic documentation is true to the best of my If the owner is a corporation or partners 	knowledge.				er attached	
Date	Signature of	applicant			-	

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act*, 1992, and will be used in the administration and enforcement of the *Building Code Act*, 1992. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information		, , , , , , , , , , , , , , , , , , , ,			
Building number, street name			Unit no.	Lot/con.	
Municipality	Postal code	Plan number/ other description			
B. Individual who reviews and takes	responsibilit	y for design activities			
Name		Firm			
Street address			Unit no.	Lot/con.	
Municipality	Postal code	Province	E-mail		
Telephone number	Fax number		Cell number		
C. Design activities undertaken by in Division C]	ndividual ider	ntified in Section B. [Buil	ding Code Table	3.5.2.1. of	
House	□HVAC	- House	Building Str	uctural	
Small Buildings	☐Buildir	ng Services	Plumbing –	House	
Large Buildings		tion, Lighting and Power		All Buildings	
Complex Buildings	Fire P	rotection	☐On-site Sev	vage Systems	
Description of designer's work					
D. Declaration of Designer					
1		de	clare that (choose o	ne as appropriate):	
(print name	e)				
1.22	for the desired		and a decomposite out	0.04 (D)	
I review and take responsibility C, of the Building Code. I am qu					
Individual BCIN:			-		
Firm BCIN:			_		
I review and take responsibility under subsection 3.2.5.of Divisi			riate category as an	"other designer"	
Individual BCIN:		5	_		
Basis for exemption from re	egistration:				
The design work is exempt from	ո the registratior	n and qualification requiremer	nts of the Building Co	ode.	
Basis for exemption from re	egistration and c	qualification:			
I certify that:	3				
The information contained in this s	chedule is true f	to the best of my knowledge.			
2. I have submitted this application w					
		The second secon			
Date		Signature of Designer			

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Schedule 2: Sewage System Installer Information

A. Project Information						
Building number, street name			Unit number	Lot/con.		
Municipality	y Postal code		iption			
B. Sewage system installer	,					
Is the installer of the sewage system eng- emptying sewage systems, in accordance Yes (Continue to Section C)		C? Installer	unknown at time of			
application (Continue to Section						
C. Registered installer informatio	n (where answ	er to B is "Yes")	BCIN			
Name			BOIN			
Street address	Street address			Lot/con.		
Municipality	Postal code	Province	E-mail	,		
Telephone number	Fax		Cell number			
D. Qualified supervisor information	D. Qualified supervisor information (where answer to section B is "Yes")					
Name of qualified supervisor(s)		Building Code Identification	Number (BCIN)			
E. Declaration of Applicant:						
				declare that:		
(print name)				declare that.		
	I am the applicant for the permit to construct the sewage system. If the installer is unknown at time of application, I shall submit a new Schedule 2 prior to construction when the installer is known;					
<u>OR</u>	<u>OR</u>					
I am the holder of the permit to construct the sewage system, and am submitting a new Schedule 2, now that the installer is known.						
I certify that:						
The information contained in this	s schedule is true	to the best of my knowledge	€.			
2. If the owner is a corporation or p	artnership, I have	e the authority to bind the co	rporation or partners	hip.		
Date		Signature of applicant				

Energy Efficiency Design Summary: Prescriptive Method (Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

For use by Principal Authority

Model/Certification Number

A. Project Informatio Building number, street name	• •					Unit number	Lot/Con
Municipality		Postal o	code	Reg. Pla	an number / other desc	cription	'
B. Prescriptive Co	mpliance	e [indicate the	building code co	ompliance	package being em	ployed in this house d	esign]
SB-12 Prescriptive (inp	ut design p	oackage): P	ackage:		Та	ble:	
C. Project Design Co	nditions						
Climatic Zone (SB-1):			uipment Effic	ciency	Space Heating	4-0	
□ Zone 1 (< 5000 degree day		□ ≥ 92% AF			□ Gas	□ Propane	□ Solid Fuel
□ Zone 2 (≥ 5000 degree day		□ ≥ 84% < 9			□ Oil	□ Electric	□ Earth Energy
Ratio of Windows, Skylights	s & Glass	(W, S & G) to	o Wall Area			g Characteristics	20-1
Area of walls =m ² or Area of W, S & G =m ² o			6 % = averaging: □\	∕es □No	□ Slab-on-grou□ Air Condition□ Air Sourced	und □ Walkout Bas ning □ Combo Unit Heat Pump (ASHP) rced Heat Pump (G	
D. Building Specifica					iciency componen	ts proposed!	·
Energy Efficiency Subs		vide values an	la ratings of the	Chergy ch	leiency componen	ts proposed]	
		- 11					
		611					
, , , , ,	, , ,		ting systems ((2 1 1 2 /	7) / 3 1 1 3 /7))		
Combined space heating a	nd domes		ting systems ((3.1.1.2.(7) / 3.1.1.3.(7))		
□ Combined space heating a	nd domes	tic water hea		(3.1.1.2.(nitted Substitution:	
Combined space heating a Airtightness substitution(s) Airtightness test required	nd domes	.1.1.4.B Red	quired:	`	Perr	nitted Substitution:_	
☐ Combined space heating a☐ Airtightness substitution(s)	nd domes	.1.1.4.B Rec	quired:	`	Perr	nitted Substitution:_	
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Combined space heating a Airtightness substitution(s) Airtightness test required Refer to Design Guide Attached) Building Compone Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space	□ Table 3 □ Table 3	.1.1.4.B Rec .1.1.4.C Rec Rec Minimum R or Maximu	quired: quired: quired:_ SI / R values m U-Value ⁽¹⁾	Windov Windov	Perr Perr Building Con ws & Doors P ws/Sliding Glas ts/Glazed Roo	nitted Substitution:_ nitted Substitution:_ nponent rovide U-Value ⁽¹⁾ or ER s Doors	Efficiency Ratings
Combined space heating a Airtightness substitution(s) Airtightness test required Refer to Design Guide Attached) Building Compone Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor	□ Table 3 □ Table 3	.1.1.4.B Rec .1.1.4.C Rec Rec Minimum R or Maximu	quired: quired: quired:_ SI / R values m U-Value ⁽¹⁾	Window Window Skyligh Mecha	Perr Perr Building Con ws & Doors P ws/Sliding Glas ts/Glazed Roo	nitted Substitution:_ nitted Substitution:_ nponent rovide U-Value ⁽¹⁾ or ER s Doors	Efficiency Ratings
Combined space heating a Airtightness substitution(s) Airtightness test required Refer to Design Guide Attached) Building Compone Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade	□ Table 3 □ Table 3	.1.1.4.B Rec .1.1.4.C Rec Rec Minimum R or Maximu	quired: quired: quired:_ SI / R values m U-Value ⁽¹⁾	Windov Windov Skyligh Mecha Heating	Perr Perr Building Con ws & Doors P ws/Sliding Glas ts/Glazed Roo nicals	nitted Substitution:_ nitted Substitution:_ nponent rovide U-Value ⁽¹⁾ or ER s Doors fs	Efficiency Ratings
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Application No:

Guide to the Prescriptive Energy Efficiency Design Summary Form

This form must accurately reflect the information contained on the drawings and specifications being submitted. Refer to Supplementary Standard SB-12 for details about building code compliance requirements. Further information about energy efficiency requirements for new buildings is available from the provincial building code website or the municipal building department.

The building code permits a house designer to use one of four energy efficiency compliance options:

- 1. Comply with the SB-12 Prescriptive design tables (this form is for this option (Option 1)),
- 2. Use the <u>SB-12 Performance</u> compliance method, and model the design against the prescriptive standards,
- 3. Design to Energy Star, or
- 4. Design to R2000 standards.

COMPLETING THE FORM

B. Compliance Options

Indicate the compliance option being used.

• <u>SB-12 Prescriptive</u> requires that the building conforms to a package of thermal insulation, window and mechanical system efficiency requirements set out in Subsection 3.1.1. of SB-12. Energy efficiency design modeling and testing of the building is not required under this option. Certain substitutions are permitted. In which case, the applicable airtightness targets in Table 3.1.1.4.A must be met.

C. Project Design Conditions

Climatic Zone: The number of degree days for Ontario cities is contained in Supplementary Standard SB-1 Windows, Skylights and Glass Doors: If the ratio of the total gross area of windows, sidelights, skylights, glazing in doors and sliding glass doors to the total gross area of walls is more than 17%, higher efficiency glazing is required. If the ratio is more than 22%, the SB-12 Prescriptive option may not be used. The total area is the sum of all the structural rough openings. Some exceptions apply. Refer to 3.1.1.1. of SB-12 for further details. Fuel Source and Heating Equipment Efficiency: The fuel source and efficiency of the proposed heating equipment must be specified in order to determine which SB-12 Prescriptive compliance package table applies. Other Building Conditions: These construction conditions affect SB-12 Prescriptive compliance requirements.

D. Building Specifications

Thermal Insulation: Indicate the RSI or R-value being proposed where they apply to the house design. Under the <u>SB-12 Prescriptive</u> option, alternative ICF wall insulation is permitted in certain conditions where other design elements meet higher standards. Refer to SB-12 for further details. Where effective insulation values are being used, the Authority Having Jurisdiction may require supporting documentation.

BUILDING CODE REQUIREMENTS FOR AIRTIGHTNESS IN NEW HOUSES

All houses must comply with increased air barrier requirements in the building code. Notice of air barrier completion must be provided and an inspection conducted prior to it being covered.

The air leakage rates in Table 3.1.1.4.A are not requirements. This provision is a voluntary provision for when credits for airtightness are claimed. Credit for air tightness allows the designer to substitute the requirements of compliance packages as set out in Table 3.1.1.4.B or 3.1.1.4.C. Neither the air leakage test nor compliance with airtightness targets given in Table 3.1.1.4.A are required, unless credit for airtightness is claimed. Table 3.1.1.4.A provides airtightness targets in three different metrics; ACH, NLA, NLR. Any one of them can be used. OBC Reference Default Air Leakage Rates (Table 3.1.1.4.A)

Desilation - Tours		Airtightness Targets						
Building Type	ACH @ 50 Pa	NLA @) 10 Pa	NLR @ 50 Pa				
Detached dwelling	2.5	1.26 cm ² /m ²	1.81 in ² /100ft ²	0.93 L/s/m ²	0.18 cfm50/ft ²			
Attached dwelling	3.0	2.12 cm ² /m ²	3.06 in ² /100ft ²	1.32 L/s/m ²	0.26 cfm50/ft ²			

The building code requires that a blower door test be conducted to verify the air tightness of the house during construction if the <u>SB-12 Prescriptive</u> option with airtightness credit being applied. Results of the airtightness test may need to be submitted to the Authority Having Jurisdiction. Airtightness of less than 2.5 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of detached houses, or 3.0 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of attached houses is necessary to meet the required energy efficiency standard.

E. House Designer

The building code requires designers providing information about whether a building complies with the building code to have a BCIN. Exemptions apply to architects, engineers and owners designing their own house.

Building Division Plumbing Data Form



Project Information						
PERMIT APPLICATION No.			DATE:			
PROJECT DESCRIPTION:						
PROPERTY ADDRESS:	Street No. an	d Name	City			Postal Code
OWNER NAME:	First					Last
TELEPHONE NUMBER:			EMAIL:			
Fixture Information						
Fixture or Device	Fixture Units	Basement	1st Floor	2nd Floor	3rd Floor	Total
Bathroom group with 6 LPF flush tank (3 fixtures)	3.6					0
Bathroom group with > 6 LPF flush tank	6.0					0
Bathroom group with 4 fixtures	5.0					0
Bathroom group with 5 fixtures	6.4					0
Bathroom group with 6 fixtures	7.8					0
Bathtub with or without shower head	1.4					0
Bathtub with ¾ in. spout	10.0					0
Bidet	2.0					0
Clothes washer, 3.5kg	1.4					0
Dishwasher, domestic	1.4					0
Hose bibb (½ inch supply)	2.5					0
Hose bibb (3/4 inch supply)	3.0					0
Hose bibb, combination hot and cold	50 100					
1	2.5					0
Lavatory (wash sink), 8.3 L/min or less	0.7					0
Lavatory (wash sink), greater than 8.3 L/min	1.0					0
Shower head, 9.5 L/min or less per head	1.4					0
Shower head, greater than 9.5 L/min per head	2.0					0
Shower, spray, multi-head, fixture unit per head	1.4					0
Sink, bar	1.0					0
Sink, kitchen, domestic, 8.3 L/min or less	1.4					0
Sink, kitchen, domestic, greater than 8.3 L/min	2.0					0
Sink, laundry (1 or 2 compartments)	1.4					0
Urinal, with flush tank	3.0					0
Urinal, with self-closing metering valve	2.0					0
Water closet, 6 LPF or less with flush tank	2.2					0
Water closet, greater than 6 LPF with flush tank	3.0					0
Total Fixture Units =	•					0
I hereby certify that the information supplied a Name (please print)	above is accur	ate to the best of Signature	my knowledge.		Date	
(produce printy)		Signature			24.0	

Personal information collected on this form is under the authority of the Municipal Act, s. 11. The purpose of this collection is to administer the Service Connection Permit Application Process. Personal information provided on this form is protected in accordance with Municipal Freedom of Information and Protection of Privacy Act (MFIPPA) Part II. Should you have any questions or concerns regarding the collection of personal information, please contact the Building Division, King Township, 2585 King Road, King City, ON L7B 1A1 (905) 833-4078.

Building DivisionLetter of Authorization



Information	
Property Address:	
Legal Description:	
Roll Number:	
Personal Information	
Name:	
Phone No.:	
Address:	
Email:	
Authorizing Letter	
To Whom it May Concern:	
I/We, the above, do give permiss our agent in applying to the Township of King for a building permit for the following	sion to act as projects:
(check all that apply)	
 □ Demolition of Accessory Structure □ Demolition of Residential Building □ Demolition of Commercial/Industrial Building □ Construction of Dwelling □ Addition to Dwelling □ Construction of Accessory Structure □ Construction of a Deck □ Construction of Commercial/Industrial Building □ Renovation to Existing Building □ Other: (please specify) 	
Property Owner Signature: Date:	
Property Owner Signature: Date:	
Authorized Agent Signature: Date:	

Building Division Zoning Review Declaration



General Information

Zoning review is a detailed review of proposed construction, demolition and/or development intended to support a building permit application. This review determines zoning compliance and confirms compliance with other applicable law and by-laws. Zoning review is completed by the Planning Department.

Project Information:	AGENT/ APPLICANT	OWNER	
OWNER NAME:			
	First		Last
APPLICANT NAME:			
(IF DIFFERENT THAN ABOVE)	First		Last
PROPERTY ADDRESS:			
LEGAL DESCRIPTION:	Street No. and Name	City	Postal Code
LEGAL DESCRIPTION.	Lot No.	Plan No.	Concession
MAILING ADDRESS			
(IF DIFFERENT THAN ABOVE)	Street No. and Name	City	Postal Code
TELEPHONE NUMBER:		EMAIL A	DDRESS:
Declaration and Acknow	wledgement of Appl	licant	
I hereby declare and acknowled	dge the following:		
l a	am, 🗖 the owner as state	d above	
	the owner's author		
	an officer/employe	e of	which is an authorized agent of the owner
			rt 1, Division C, cannot be established until all required iments are returned to the Building Division.
The Building Code Act prohibits defined in the Building Code.	the issuance of a buildin	g permit if proposed cons	truction or demolition will contravene applicable law as
This review does not relieve the c	owner from complying with	the Ontario Building Code,	the Act, all applicable by-laws and regulations.
I hereby certify that I have read	and agree to the informa	tion presented on this pa	ge.

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