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Building & Plumbing Permit Application - Residential

A. Time Frame for Building Permit Issuance

This table is for information only to explain the time allowed for review of a building permit application for a permit to be issued or refused.

B. Declaration of Applicant

The Declaration of Applicant must be completed to obtain a permit.

C. Checklist for Building Permit Applications

Please ensure that the Checklist For Building Permit Applications is reviewed, completed & signed.

D. Application for a Permit to Construct or Demolish

The Application for a Permit to Construct or Demolish must be completed. Also required is a site plan, lot grading plan & two copies of blueprints and/or plans.

E. <u>Schedule 1: Designer Information</u>

Schedule 1 – Designer Information must be completed by every person engaged in the business of providing design activities unless exempt from the requirement under Section. 2.17.4.1 (3).

F. Energy Efficiency Design Summary

Please complete either the Prescriptive Method or the Performance & Other Acceptable Compliance Methods, depending on your construction plans.

G. Schedule A: Plumbing Permit Application

This schedule, as well as the Application for a Permit to Construct or Demolish, must be completed to obtain a plumbing permit.

January, 2017



TIME FRAME FOR THE ISSUANCE OF BUILDING PERMITS

A building permit shall be issued in accordance with Table 2.4.1.1B of the Building Code unless:

- (a). the proposed building, construction or demolition will contravene the Building Code Act, the Building Code, or any other applicable law;
- (b). the applicant is a builder or vendor as defined in the Ontario New Home Warranties Plan Act and is not registered under that Act;
- (c). a person who prepared drawings, plans, specifications or other documents or gave an opinion concerning the compliance of the proposed building or construction with the building code does not have the applicable qualifications, if any, set out in the building code or does not have the insurance, if any, required by the building code;
- (d). the plans review certificate, if any, required for the application does not contain the prescribed information;
- (e). the application for the permit is not complete; or
- (f). any fees due have not been paid.

Table 2.4.1.1B

The period within which a building permit shall be issued or refused.

Row	Class of Building	Time Period
Number		
1	(a). A detached house, semi-detached house, townhouse or row house where no dwelling unit is located above another dwelling unit.	10 days
	(b). A detached structure that serves a building described in Clause (a) and does not exceed 50 m ² in building area.	•
	(c). A tent to which Section 3.13 of the building code applies.	
	(d). A sign to which Section 3.14 of the building code applies.	
2	(a). Buildings described in Clauses 2.1.1.3.(1)(a),(b) and (c) (Part 9 buildings) other than buildings described in Column 2 of any of Rows 1 and 4 of this table.	15 days
	(b). Farm buildings that do not exceed 600 m ² in building area.	
3	(a). Buildings described in Clause 2.1.1.2.(1)(a) or (b) (Part 3 buildings), other than buildings in Column 2 of any of Rows 1 and 4 of this table.	20 days
	(b). Farm buildings exceeding 600 m ² in building area.	
4	(a) Post-disaster buildings.	30 days
	(b). Buildings to which Subsection 3.2.6. (high buildings and Group B buildings) or any provision in articles 3.2.8.2 to 3.2.8.11 applies.	
Column 1	Column 2	Column 3

The time period above begins on the day on which a permit for the construction of a sewage system serving the building (if required) is issued as per 2.4.1.1B. (9)(c). The period within which a permit for a septic system shall be issued or refused is based on the class of building in the above table as per 2.4.1.1B. (8)(b).

Declaration of Applicant

Section A	Voo	No				
Is this project a commercial, agricultural, or industrial application?	Yes	No				
Does the proposal involve fuel handling/storage ≥15,000 litres?	Yes	No				
Section B						
Are there any hydro poles/hydro easements on this property?	Yes	No				
Is there any gas or oil or any other utility easement on this property?	Yes	No				
Are there any Right-of-Way accesses on this property?	Yes	No				
Are there any easements (of any nature) on this property?	Yes	No				
Are there any closed private/municipal drains on this property?	Yes	No				
Are there any agreements/leases attached to title (i.e. wind, gas/oil etc.)-	Yes	No				
If you answered <u>YES</u> to any of the questions in <u>Section B</u> - you are require site/plot/lot diagram the location of such items and provide sufficient documents applicable/requested.						
Section C I understand that property locates are my sole responsibility. I understand it is my sole responsibility to ensure all substantial completion the issued permit) are requested with 48 hours' notice, carried out and applicate next stage of construction. I understand that I will be responsible to remit all applicable fees prior to missued and further I may be subject to the said fees if my application is demyself), as per the applicable building permit by-law.	oroved p Yes ny permi	nrior to proceeding to No it being officially				
I,	_ certify	y that:				
 (Print name) The information contained in this declaration, application, attached plans and specifications, and other attached documentation is true to the best of my knowledge. As the Owner/Agent/Contractor I take responsibility to ensure compliance to all federal, provincial and municipal legislation and or regulations prior to, during and after construction. 						
 I will not hold The County of Lambton or its employees liable for any actions by myself resulting in; non-issuance of a permit, revoking of a permit, civil action and or possible fine. I have authority to bind the corporation or partnership (if applicable). 						

Personal information contained in this form and schedules is collected under the authority of Section 7 Subsections 8(2) of the Building Code Act, 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 to which this application is being made.

(Date)

Please Note: This declaration must be completed in its entirety prior to the issuance of a building/plumbing/septic permit, no exceptions.

(Signature of Applicant)

Building Permit Application Checklist

- Completed Building Permit Application, including plumbing and septic (as applicable), this includes all Designer Schedules and Energy Efficiency Design summary
- Completed Declaration
- Site/Lot/Plot Plan/Diagram (2 copies) clearly demonstrating the following:
 - Location of proposed building
 - All other buildings on the property (including dimensions)
 - Setbacks to property lines
 - Include all easements, right-of-way, septic, wells, hydro wires (overhead and underground) etc.
 - Driveway location and dimensions
- Construction Plans including all structural/architectural/design details (2 copies)
 - Foundation plan, showing type, wall height and height of backfill
 - Footing size and location
 - o Elevations including top of finished ground to highest point on building
 - Floor plan of each floor
 - Finished basement plan if applicable
 - Typical wall cross section
 - Longitudinal cross section, if applicable
 - o Beam and lintel sizes and span, joist sizes, rafters, headers etc
 - Professional Engineered components (i.e. roof truss, joists) layouts submitted, reviewed and signed off by your designer
 - Heat loss and design summary calculations and layout (applies to all methods of heat: infloor, electric, forced air, etc.)
- Proposed Grading Plan (new construction, infill lots etc.) as required (2 copies)
- External Approvals
 - Minor Variance Approval 1 copy
 - Conservation Authority Approval 1 copy
 - Driveway/Access Approval 1 copy
 - Any other applicable law approval documents 1 copy

Please Note: Incomplete applications will be subject to delay and prescribed time frames for the issuance of said permits will not be applicable.

Exception: Permit fees will be calculated by staff and will be applicable at time of permit issuance and are not required to be attached to the application.

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

	For us	e by F	Principa	Authority			
Application number:			Permit r	number (if diffe	rent):		
Date received:			Roll nun	nber:			
Application submitted to:(Name of municipal	ity, upper-tie	er muni	cipality, bo	ard of health or o	conservatio	on authority)	
A. Project information							
Building number, street name						Unit number	Lot/con.
Municipality	Postal c	ode		Plan number		scription	
Project value est. \$				Area of work	(m ²)		
B. Purpose of application							
☐ New construction ☐ Addition to existing b				tion/repair		Demolition	Conditional Permit
Proposed use of building		Curre	ent use of	building			
Description of proposed work							
C. Applicant Applicant is:							
Last name	First nar	me		Corporation of	or partners	•	
Street address						Unit number	Lot/con.
Municipality	Postal c	ode		Province		E-mail	
Telephone number ()	Fax ()					Cell number	
D. Owner (if different from applicant)							
Last name	First nar	me		Corporation of	or partners	ship	
Street address						Unit number	Lot/con.
Municipality	Postal c	ode		Province		E-mail	
Telephone number ()	Fax ()					Cell number	

E. Builder (optional)								
Last name	First name	Corporation or partnersh	nip (if applicabl	e)				
Street address Unit number Lot/con								
Municipality	Postal code	Province	E-mail					
Walterpairty	1 ostar code	Trovince	Linaii					
Telephone number	Fax		Cell number					
()	()		()					
F. Tarion Warranty Corporation (Ontario	New Home Warra	nty Program)						
 i. Is proposed construction for a new hom Plan Act? If no, go to section G. 	e as defined in the <i>On</i>	tario New Home Warranties		Yes		No		
ii. Is registration required under the Ontar	io New Home Warranti	es Plan Act?		Yes		No		
			Į.					
iii. If yes to (ii) provide registration number	(s):							
G. Required Schedules								
i) Attach Schedule 1 for each individual who rev	iews and takes respon	sibility for design activities.						
ii) Attach Schedule 2 where application is to con-	struct on-site, install or	repair a sewage system.						
H. Completeness and compliance with a	applicable law							
i) This application meets all the requirements of				Yes		No		
Building Code (the application is made in the applicable fields have been completed on the								
schedules are submitted).	application and require	ed sorieddies, and an require	54					
Payment has been made of all fees that are r				Yes		No		
regulation made under clause $7(1)(c)$ of the <i>E</i> application is made.	sullaing Code Act, 1992	2, to be paid when the						
ii) This application is accompanied by the plans			·law,	Yes		No		
resolution or regulation made under clause 7			L —					
iii) This application is accompanied by the inform law, resolution or regulation made under clau				Yes		No		
the chief building official to determine whethe	r the proposed building	, construction or demolition	will					
contravene any applicable law.	ition will not continue	- any angliaghla law						
iv) The proposed building, construction or demol	illon will not contravend	e any applicable law.		Yes		No		
I. Declaration of applicant								
				حاء حاء				
(print name)				_uecia	re that:			
1. The information contained in this applic								
documentation is true to the best of my 2. If the owner is a corporation or partners		v to bind the corporation or r	partnership.					
	,	,						
Date	Signature o	of applicant						
	0.9α.α.σ							

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 descript	ion				
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. [Bui	Iding Code Table	3.5.2.1. of			
☐ House	☐ HVAC -	- House	☐ Building Stru				
☐ Small Buildings		g Services	☐ Plumbing – I				
☐ Large Buildings		on, Lighting and Power	☐ Plumbing – /	O .			
Complex Buildings	☐ Fire Pro	otection	☐ On-site Sew	age Systems			
Description of designer's work							
D. Declaration of Designer							
		de	clare that (choose o	ne as appropriate):			
(print name	•)	0	olaro triat (oriocco o	no do appropriato).			
(print name	,						
☐ I review and take responsibility C, of the Building Code. I am of Individual BCIN:	qualified, and the	e firm is registered, in the app					
Firm BCIN:							
☐ I review and take responsibility under subsection 3.2.5.of Division Individual BCIN:	sion C, of the Bu	uilding Code.	priate category as a	n "other designer"			
maividuai Boliv.							
Basis for exemption from registration:							
· ·	☐ The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification:						
I certify that:							
-							
2. I have submitted this application wi							
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.

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/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

		For u	use by P	rincipal Au			
Application No:				Model/0	Certification Number		
A. Project Informat	ion						
Building number, street name						Unit number	Lot/Con
Municipality		Postal code		Reg. Pl	an number / other descrip	tion	
B. Prescriptive C	ompliance	[indicate the build	ding cod	le complia	nce package being e	mployed in this hou	se design]
SB-12 Prescriptive (ii						able:	
C. Project Design C	Conditions						
Climatic Zone (SB-1):	He	eating Equipme	nt Effic	ciency	Space Heating	Fuel Source	
☐ Zone 1 (< 5000 degree day	,	≥ 92% AFUE			□ Gas	□ Propane	□ Solid Fuel
☐ Zone 2 (≥ 5000 degree day	-,	≥ 84% < 92% Al			□ Oil	□ Electric	□ Earth Energy
Ratio of Windows, Skylight	s & Glass (W,	S & G) to Wall	Area		Other Building		Grade □ ICF Basement
Area of walls =m² orft² Area of W, S & G =m² orft²	Utili	W, S & G % = _ ze window averag		∕es □No	□ Slab-on-groun□ Air Conditionir□ Air Sourced H	d □ Walkout Bang □ Combo Unieat Pump (ASHPed Heat Pump (G	sement t)
D. Building Specific		vide values and ra	tings of	the energy	y efficiency compone	ents proposed]	
□ ICF (3.1.1.2.(5) & (6) / 3.1.							
□ Combined space heating a		vater heating sv	stems	(3112)	(7) / 3 1 1 3 (7))		
· · · · · · · · · · · · · · · · · · ·	I	vator ricating by	Otomo	(0.11.1.2.)	(7) / 0.11.1.0.(7))		
□ Airtightness substitution(s)		.4.B Required:			Permi	tted Substitution:	
Airtightness test required (Refer to Design Guide Attached)	□ Table 3.1.1	4.C. Required:		Permitted Substitution:			
(Ticle to besign duide Attached)	Table 6.1.1						
Building Compone	nt Mir	Required: nimum RSI / R v	values	Permitted Substitution: Building Component Efficiency Ratings			
		Maximum U-Va	alue ⁽¹⁾				
Thermal Insulation	No	ominal Effec	ctive	Windo	ws & Doors Pro	vide U-Value ⁽¹⁾ or EF	rating
Ceiling with Attic Space					ws/Sliding Glass		
Ceiling without Attic Space)			Skylights/Glazed Roofs			
Exposed Floor				Mechanicals			
Walls Above Grade				Heating	g Equip.(AFUE)		
Basement Walls					fficiency (SRE% a	t 0°C)	
Slab (all >600mm below grade)				DHW Heater (EF)			
Slab (edge only ≤600mm below	arade)			DWHR (CSA B55.1 (min. 42% efficiency))			#
Slab (edge only ≤600mm below grade) Slab (all ≤600mm below grade, or heated)				Combined Heating System			<u> "</u>
	,	- 44 42 - 1			iod i lodding Oyste	,,,,	
(1) U value to be provided in eith	, ,	, ,					
E. Designer(s) [name(s)							meets the building code]
Qualified Designer Declarate	on of designer to	o have reviewed a	nd take	responsib	ility for the design wo	ork.	
Name				BCIN		Signature	

Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 2016.

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 <u>SB-12 Prescriptive</u> 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 of Terror	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.

Form authorized by OHBA, OBOA, LMCBO. Revised November 30, 2016.

Energy Efficiency Design Summary: Performance & Other Acceptable Compliance Methods

(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 Performance or Other Acceptable Compliance Methods described in Subsections 3.1.2. and 3.1.3. of SB-12,

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.

	For use by Principa	Authority				
Application No:	N.	Iodel/Certification Number				
A. Project Information						
Building number, street name			Unit number	Lot/Con		
Municipality	Postal code F	eg. Plan number / other descript	ion			
	L					
B. Compliance Option [indicate	the building code compliance op	tion being employed in this	house design]			
☐ SB-12 Performance* [SB-12 -	* Attach energy perfor	mance results using	an approved softwa	are (see guide)		
☐ ENERGY STAR®* [SB-12 - 3.1.	3.] * Attach Builder Optio	n Package [BOP] for	m			
☐ R-2000 ® *[SB-12 - 3.1.3.]	* Attach R-2000 HOT	2000 Report	000 Report			
C. Project Building Design (Conditions					
Climatic Zone (SB-1):	Heating Equipment Efficien	cy Space Heating Fu	el Source			
☐ Zone 1 (< 5000 degree days)	□ ≥ 92% AFUE	□ Gas □	Propane	Solid Fuel		
□ Zone 2 (≥ 5000 degree days)	□ ≥ 84% < 92% AFUE	□ Oil □	Electric	Earth Energy		
Ratio of Windows, Skylights & Glass (V	V, S & G) to Wall Area	Other Building Ch	aracteristics			
Area of walls =m ²		□ Log/Post&Beam	□ ICF Above Grade	□ ICF Basement		
orft²		•	□ Walkout Basemen			
		□ Air Conditioning		.,		
A 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W, S & G % =	☐ Air Source Heat				
Area of W, S & G = $\underline{\hspace{1cm}}$ m ² orft ²						
οιπ		☐ Ground Source H	Heat Pump (GSHP)			
SB-12 Performance Reference Building	SB-12 Performance Reference Building Design Package indicating the prescriptive package to be compared for compliance					
SB-12 Referenced Building Package	(input dosign packago): P	ackado:	Table:			
	HIDULUESIUH DAUKAUE). F	aunaut.	i abie.			

D. Building Specifications [provide values and ratings of the energy efficiency components proposed, or attach *ENERGY STAR* BOP form

Building Component	Minimum RSI / R values or Maximum U-Value ⁽¹⁾		Building Component	Efficiency Ratings
Thermal Insulation	Nominal	Effective	Windows & Doors Provide U-Value ⁽¹⁾ or ER	rating
Ceiling with Attic Space			Windows/Sliding Glass Doors	
Ceiling without Attic Space			Skylights/Glazed Roofs	
Exposed Floor			Mechanicals	
Walls Above Grade			Heating Equip.(AFUE)	
Basement Walls			HRV Efficiency (SRE% at 0°C)	
Slab (all >600mm below grade)			DHW Heater (EF)	
Slab (edge only ≤600mm below grade)			DWHR (CSA B55.1 (min. 42% efficiency))	#
Slab (all ≤600mm below grade, or heated)			Combined Space / Dom. Water Heating	

⁽¹⁾ U value to be provided in either W/($m^2 \cdot K$) or Btu/($h \cdot ft^2 \cdot F$) but not both.

E. Performance Design Verification [Subsection 3.1.2. Performance Compliance]								
The annual energy consumption using Subsection 3.1.1. Sl	3-12 Reference Building	Package isGJ (1 GJ =1000MJ)						
The annual energy consumption of this house as designed	isGJ							
The software used to simulate the annual energy use of the	building is:							
The building is being designed using an air tightness baseli	ne of:							
☐ OBC reference ACH, NLA or NLR default values (no	depressurization test re	equired)						
☐ Targeted ACH, NLA or NLR. Depressurization test to	meetAC	CH50 or NLR or NLA						
☐ Reduction of overall thermal performance of the proposed building envelope is not more than 25% of the envelope of the compliance package it is compared against (3.1.2.1.(6)).								
☐ Standard Operating Conditions Applied (A-3.1.2.1 - 4	1.6.2)							
☐ Reduced Operating Conditions for Zero-rated homes	Applied (A-3.1.2.1 - 4.0	6.2.5)						
☐ On Site Renewable(s): Solar:								
Other Types:								
F. ENERGY STAR or R-2000 Performance Des	ign Verification [Sul	osection 3.1.3. Other Acceptable Compliance						
☐ The NRCan "ENERGY STAR for New Homes Standa design result in the building performance meeting or e Supplementary Standard SB12 (A-3.1.3.1).								
☐ The NRCan, "2012 R-2000 Standard" technical requirements, applied to this building design result in the building performance meeting or exceeding the prescriptive performance requirements of the Supplementary Standard SB12 (A-3.1.3.1).								
Performance Energy Modeling Professional								
Energy Evaluator/Advisor/Rater/CEM Name and company:	Accreditation or Evaluator	/Advisor/Rater License #						
ENERGY STAR or R-2000								
Energy Evaluator/Advisor/Rater/ Name and company:	Evaluator/Advisor/Rater L	icense #						
G. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) p	G. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets the building code]							
Qualified Designer: Declaration of designer to have reviewed and take responsibility for the design work.								
Name	BCIN	Signature						

Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 2016

Guide to the Energy Efficiency Design Summary Form for Performance & Other Acceptable Compliance Methods

COMPLETING THE FORM

B. Compliance Options

Indicate the compliance option being used.

- <u>SB-12 Performance</u> refers to the method of compliance in Subsection 3.1.2. of SB-12. Using this approach the designer must use recognized energy simulation software (such as HOT2000 V10.51 or newer), and submit documents which show that the annual energy use of the proposed building is equal to or less than a prescriptive (referenced) building package.
- <u>ENERGY STAR</u> houses must be designed to <u>ENERGY STAR</u> requirements and verified on completion by a licensed energy evaluator and/or service organization. The <u>ENERGY STAR</u> BOP form must be submitted with the permit documents.
- *R-2000* houses must be designed to the *R-2000 Standard* and verified on completion by a licensed energy evaluator and/or service organization. The HOT2000 report must be submitted with the permit documents.

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. 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 <u>SB-12 Prescriptive</u> compliance package table applies. Other Building Conditions: These construction conditions affect <u>SB-12 Prescriptive</u> compliance requirements.

D. Building Specifications

Thermal Insulation: Indicate the RSI or R-value being proposed where they apply to the house design. Refer to SB-12 for further details.

E. Performance Design Summary

A summary of the performance design applicable only to the SB-12 Performance option.

F. ENERGY STAR or R-2000 Performance Method

Design to ENERGY STAR or R-2000 Standards.

G. 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 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 3.1.2.1. are not requirements. The Table is not intended to require or suggest that the building meet those airtightness targets. They are provided only as default or reference values for the purpose of annual energy simulations, should the builder/owner decide to perform such simulations. They are given in three different metrics; ACH, NLA, NLR. Any one of them can be used. They can be used as a default values for both a reference and proposed building or, where an air leakage test is conducted and credit for airtightness is claimed, the airtightness values in Table 3.1.2.1. can be used for the reference building and the actual leakage rates obtained from the air leakage test can be used as inputs for the proposed building.

OBC Reference Default Air Leakage Rates (Table 3.1.2.1.)

Γ	Detached dwelling	3.0 ACH50	NLA 2.12 cm ² /m ²	NLR 1.32 L/s/m ²
Ī	Attached dwelling	3.5 ACH50	NLA 2.27 cm ² /m ²	NLR 1.44 L/s/m 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 Performance</u> option is used and an air tightness of less than 3.0 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of detached houses, or 3.5 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of attached houses is necessary to meet the required energy efficiency standard.

ENERGY EFFICIENCY LABELING FOR NEW HOUSES

ENERGY STAR and R-2000 may issue labels for new homes constructed under their energy efficiency programs. The building code does not currently regulate or require new home labeling.

Form authorized by OHBA, OBOA, LMCBO. Revised December 1, 2016

SCHEDULE 'A'

Plumbing Information

Owner Name:	<u>-</u>		۸۸	dress of I	Proposo	d Mark:	
					-	J WOIK.	
Plumber:			Mu	ınicipality	:		
Please list the number of fixtur	es per floor on t	he follo	owin	g chart.	(new or	relocated)
FLOOR	Basement	1		2	3	4	Total Number
Toilet							
Bath tub							
Wash basin							
Kitchen sink							
Laundry tubs							
Floor drain							
Showers							
Urinal							
Clothes washer							
Dish washer - domestic							
Other sinks							
Drinking fountain							
Hot water heater							
Sewage Pump							
Grease Interceptor							
TOTAL							
No. of Dwelling Units	R.W.L.				W	ater Lines	
Soil Vent Stacks Sanitary Lateral		ateral				Oil Interceptor	
Catch Basin	Storm Late	eral			Ba	ackflow Pro	eventer
Lawn Sprinkler System							
Signature					_	Da	te