



## **NEW HOUSING**

### **Permit Application Checklist**

- 1. Completed Application Form**
- 2. Schedule 1 (Designer Information) Development**
- 3. Review Forms**
- 4. Lot Grading Exemption Request or Grading Plan**
- 5. Building Plans (Electronic Submissions Preferred)**
  - Floor Plans (foundation, 1st floor, 2nd floor)
  - Exterior Elevations (front, side, rear)
  - Cross Section
  - Air Barrier Details
  - Building Area and Spatial Separation Calculations
- 7. Engineered Truss Plans and Engineered Floor Plans (if applicable)**
- 8. Heat Loss Calculations and Duct Design**
- 9. Soil Gas Control Form**
- 10. Energy Efficiency Design Summary**
- 11. Conservation Authority Approval (Catfish Creek or Kettle Creek where applicable)**

\*\* If Septic System is present, a report from a qualified Septic Installer is required to ensure the system is capable of handling the increased loading of the system





## SUBMISSION REQUIREMENTS

When submitting for a building permit the following items are required:

- **Application to Construct or Demolish with Schedule 1 (Designer Information)**
- **Development Review Form** completed with all other authorities having jurisdiction approval
- **A Set of Building Plans** to scale, legible and include:
  - **Site Plan** - lot lines and dimensions, new and existing building sizes and locations, building setbacks, street names, municipal address and north arrow. (Plans submitted for development approval may also be re-submitted for building permit)
  - **Foundation Plan** showing; scale, dimensions, size type and location of all walls and partitions, width locations and lintel sizes for all openings, material specifications or notes.
  - **Floor Plans** showing; scale, dimensions, use of rooms and spaces, size type and location of all walls and partitions, width locations and lintel sizes for all openings, material specifications or notes, location and direction of stairs, references to details.
  - **Elevations** showing; scale, vertical dimensions, grade level, exterior finishes, overhang dimension, roof shape slope and finish, references to details.
  - **Sections and Details** showing; scale, details of footings foundation, walls, floors and roof, distance from grade to floors, roof and underside of footing, material specifications or notes.
  - **All drawings** to be done by a qualified designer with a valid BCIN (Except for exemptions as outlined under sections 2.17.4.1.(3) (4) and 2.17.5.1.(2) of the OBC)
  - **Engineered Truss Drawing** (with Engineers stamp) required prior to framing inspection. To avoid any problems it is recommended the stamped truss drawing be submitted with the permit application.
- **General Review Commitment Certificate** completed by engineer/architect for aspects of the building designed outside of part 9 of the OBC.

Incomplete applications will be rejected prior to review and will need to be resubmitted for issuance of permit.

As of August 22, 2016, By-Law 2029, being a by-law respecting the implementation of the Building Code Act, S.O. 1992, c.23. and cited as the "Building Permit By-Law":

**9.11 Building Permit Security Deposit:** With respect to the issuance of a building permit, a refundable security deposit will be paid to the Municipality to assure total completion of work authorized by the permit. The amount will be based on five (5) percent of the permit value to a maximum of \$1,000.00. The deposit will be held without interest until completion certificate is issued. The deposit will be returned in full, less any additional required inspection fees. If an extension for completion of the permitted work is not requested in writing and granted, then the deposit will be forfeited at the end of one year after the date of issuance of the permit. The fee contemplated by this section shall be forfeited in full if the building for which the permit was issued has been occupied prior to the issuance of a completion certificate.

# 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				
Application number:		Permit number (if different):		
Date received:		Roll number:		
Application submitted to: _____ (Name of municipality, upper-tier municipality, board of health or conservation authority)				
A. Project information				
Building number, street name		Unit number	Lot/con.	
Municipality	Postal code	Plan number/other description		
Project value est. \$		Area of work (m <sup>2</sup> )		
B. Purpose of application				
<input type="checkbox"/> New construction	<input type="checkbox"/> Addition to an existing building	<input type="checkbox"/> Alteration/repair	<input type="checkbox"/> Demolition	<input type="checkbox"/> Conditional Permit
Proposed use of building		Current use of building		
Description of proposed work				
C. Applicant				
Applicant is: <input type="checkbox"/> Owner or <input type="checkbox"/> Authorized agent of owner				
Last name		First name	Corporation or partnership	
Street address		Unit number	Lot/con.	
Municipality	Postal code	Province	E-mail	
Telephone number	Fax	Cell number		
D. Owner (if different from applicant)				
Last name		First name	Corporation or partnership	
Street address		Unit number	Lot/con.	
Municipality	Postal code	Province	E-mail	
Telephone number	Fax	Cell number		

E. Builder (optional)				
Last name		First name	Corporation or partnership (if applicable)	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number	Fax		Cell number	
F. Tarion Warranty Corporation (Ontario New Home Warranty Program)				
i. Is proposed construction for a new home as defined in the <i>Ontario New Home Warranties Plan Act</i> ? If no, go to section G.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Is registration required under the <i>Ontario New Home Warranties Plan Act</i> ?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. If yes to (ii) provide registration number(s): _____				
G. Required Schedules				
i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.				
ii) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system.				
H. Completeness and compliance with applicable law				
i) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted). Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when the application is made.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> .			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii) This application is accompanied by the information and documents prescribed by the applicable by-law, 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.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv) The proposed building, construction or demolition will not contravene any applicable law.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
I. Declaration of applicant				
<p>I _____ declare that:</p> <p>(print name)</p> <ol style="list-style-type: none"> <li>The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.</li> <li>If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.</li> </ol> <p>_____</p> <p>Date Signature of applicant</p>				

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.

<b>A. Project Information</b>				
Building number, street name			Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other description		
<b>B. Individual who reviews and takes responsibility for design activities</b>				
Name		Firm		
Street address			Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number	Fax number		Cell number	
<b>C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]</b>				
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> House  <input type="checkbox"/> Small Buildings  <input type="checkbox"/> Large Buildings  <input type="checkbox"/> Complex Buildings         </div> <div style="width: 30%;"> <input type="checkbox"/> HVAC – House  <input type="checkbox"/> Building Services  <input type="checkbox"/> Detection, Lighting and Power  <input type="checkbox"/> Fire Protection         </div> <div style="width: 30%;"> <input type="checkbox"/> Building Structural  <input type="checkbox"/> Plumbing – House  <input type="checkbox"/> Plumbing – All Buildings  <input type="checkbox"/> On-site Sewage Systems         </div> </div>				
Description of designer's work				
<b>D. Declaration of Designer</b>				
<p>I _____ declare that (choose one as appropriate):</p> <p style="text-align: center;">(print name)</p> <p>I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories.</p> <p>Individual BCIN: _____</p> <p>Firm BCIN: _____</p> <p>I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code.</p> <p>Individual BCIN: _____</p> <p>Basis for exemption from registration: _____</p> <p>The design work is exempt from the registration and qualification requirements of the Building Code.</p> <p>Basis for exemption from registration and qualification: _____</p> <p>I certify that:</p> <ol style="list-style-type: none"> <li>1. The information contained in this schedule is true to the best of my knowledge.</li> <li>2. I have submitted this application with the knowledge and consent of the firm.</li> </ol> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 30%;"> <p>_____</p> <p style="text-align: center;">Date</p> </div> <div style="width: 60%;"> <p>_____</p> <p style="text-align: center;">Signature of Designer</p> </div> </div>				

**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

<b>A. Project Information</b>			
Building number, street name		Unit number	Lot/con.
Municipality	Postal code	Plan number/ other description	
<b>B. Sewage system installer</b>			
Is the installer of the sewage system engaged in the business of constructing on-site, installing, repairing, servicing, cleaning or emptying sewage systems, in accordance with Building Code Article 3.3.1.1, Division C?			
<input type="checkbox"/> Yes (Continue to Section C)		<input type="checkbox"/> No (Continue to Section E)	
		<input type="checkbox"/> Installer unknown at time of application (Continue to Section E)	
<b>C. Registered installer information (where answer to B is “Yes”)</b>			
Name		BCIN	
Street address		Unit number	Lot/con.
Municipality	Postal code	Province	E-mail
Telephone number	Fax	Cell number	
<b>D. Qualified supervisor information (where answer to section B is “Yes”)</b>			
Name of qualified supervisor(s)		Building Code Identification Number (BCIN)	
<b>E. Declaration of Applicant:</b>			
<p>I _____ declare that:</p> <p style="text-align: center;">(print name)</p> <p>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;</p> <p><u>OR</u></p> <p>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.</p> <p>I certify that:</p> <ol style="list-style-type: none"> <li>The information contained in this schedule is true to the best of my knowledge.</li> <li>If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.</li> </ol> <p>_____</p> <p style="text-align: center;">Date</p> <p style="text-align: center;">Signature of applicant</p>			



## DEVELOPMENT REVIEW FORM

The Building Code Act requires compliance to other applicable law and items identified under the Municipal Building By-law prior to issuance of a building permit.

In order to determine compliance, the Municipality of Central Elgin has developed the attached "Development Review Form (DRF)" as a general guideline for residential and small construction projects. Failure to complete this form and submission of all required approvals as noted on the DRF will leave the municipal staff unable to determine compliance to other applicable law and, therefore, a building permit **will not** be reviewed or issued.

Building permit application time frames as set out in the Building Code Act will not commence until such time as the DRF is complete and all approvals have been received.

Drawings are required to be to scale, legible and include:

- **Zoning Compliance**

Site plan showing lot lines and dimensions, new and existing building sizes and locations, building height, building set backs, street names, municipal address and north arrow, reference to legal survey or note stating survey stakes located and confirmed on site.

- **Lot Grading**

Site plan showing lot lines and dimensions, new and existing building sizes and locations, building setbacks, location or paved surfaces, street names, municipal address and north arrow, location of septic field, reference to legal survey or note stating survey stakes located and confirmed on site, (geodetic elevations) and drainage arrows. Lot grading plans must bear the signature and deal of a Professional Engineer, Landscape Architect, or Ontario Land Surveyor.

- **Access Permit**

Site plan showing lot lines and dimensions driveway location and width.

- **Service Permit**

Site plan showing lot lines and dimensions, building setbacks, street names, municipal address and north arrow, location or service lines, location of driveways and sidewalks.

- **Proximity to Overhead Power Lines**

Site plan identifying and confirming by the Local Utility Company the proximity to overhead power lines.

Sections outlined below deal with applicable law as outlined in section 1.1.3.3. of the O.B.C, and the Municipal Building By-law as per section 7 of the BCA. Prior to the acceptance of a building permit application, all sections must be fully completed and approved by the appropriate authorities. Time frames for issuance of permits under the BCA, due not commence until all items below are completed and submitted with a complete building permit application to the municipality. This form is only a guideline for residential and small development in our area, additional reviews and approvals may be required.

### Full Address of Project

Building Number	Street Name	Unit Number	Lot/Con.
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### A) Zoning Compliance

To obtain property zoning, you **must** contact the Municipality of Central Elgin's Planning Staff at 519.631.4860

Property Zoning			
Building Size			
Width	Length	Height	Area
Setbacks Provided			
Side Yard	Side Yard	Front Yard	Rear Yard
Is this application conditional to Site Plan Control or Zoning Amendment?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, attach copies of approvals			

### B) Lot Grading Approval

Does the proposed development include a roofed structure greater than 10 m <sup>2</sup> (108 ft <sup>2</sup> )?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, one of the following is required.		
Have you provided a Lot Grading Plan or Lot Grading Exemption Form for approval?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

### C) Overhead Power Lines

Does the development deal with a historical designated building?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, please provide a letter of approval from the Municipal Council.		

### D) Conservation Authority

Is the proposed development in a flood, erosion or dynamic beaches controlled area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<ul style="list-style-type: none"> <li>Kettle Creek Conservation Authority</li> <li>Catfish Creek Conservation Authority</li> </ul>		
Does the proposed construction require Conservation Authority review?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, please provide a copy or permit issued.		



E. Builder (optional)				
Last name		First name	Corporation or partnership (if applicable)	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number	Fax		Cell number	
F. Tarion Warranty Corporation (Ontario New Home Warranty Program)				
i. Is proposed construction for a new home as defined in the <i>Ontario New Home Warranties Plan Act</i> ? If no, go to section G.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Is registration required under the <i>Ontario New Home Warranties Plan Act</i> ?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. If yes to (ii) provide registration number(s): _____				
G. Required Schedules				
i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.				
ii) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system.				
H. Completeness and compliance with applicable law				
i) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted). Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when the application is made.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> .			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii) This application is accompanied by the information and documents prescribed by the applicable by-law, 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.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv) The proposed building, construction or demolition will not contravene any applicable law.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
I. Declaration of applicant				
<p>I _____ declare that:</p> <p>(print name)</p> <ol style="list-style-type: none"> <li>The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.</li> <li>If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.</li> </ol> <p>_____</p> <p>Date Signature of applicant</p>				

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.

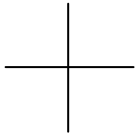


## LOT GRADING EXEMPTION REQUEST

Property Owner Name \_\_\_\_\_ Permit \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_ Email \_\_\_\_\_  
Description of Work \_\_\_\_\_

### SKETCH/PLAN (Indicate Location of Proposed Work)

Municipal Drain On Property? ☐ ☐ Name: \_\_\_\_\_



Indicate North

On the approval of this exemption you are hereby advised that you will be responsible for any flooding or drainage disputes which may arise as a result of this construction

Signature of Applicant	Date
Comments	
Signature of Senior Engineering Technologist	Date



THE MUNICIPALITY OF CENTRAL ELGIN

SOIL GAS CONTROL / FLOOR SLAB AIR BARRIER

Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

Address: \_\_\_\_\_ Permit Number: \_\_\_\_\_

Required: ☐

- Provide minimum 100mm (4") of granular fill below the basement floor slab
- Rough-in 100mm (4") soil gas pipe as per Ontario Building Code article 9.13.4.3
- Provide soil gas barrier/air barrier on exterior foundation walls and below the basement floor slab as per Supplementary Standard SB-9 and OBC articles 9.13.4.3 & 9.25.3.3.
- Voluntary Radon Gas testing

# 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 use by Principal Authority	
Application No:	Model/Certification Number

## A. Project Information

Building number, street name		Unit number	Lot/Con
Municipality	Postal code	Reg. Plan number / other description	

## B. Prescriptive Compliance [indicate the building code compliance package being employed in this house design]

SB-12 Prescriptive (input design package):	Package: _____	Table: _____
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## C. Project Design Conditions

Climatic Zone (SB-1):	Heating Equipment Efficiency	Space Heating Fuel Source
<input type="checkbox"/> Zone 1 (< 5000 degree days)	<input type="checkbox"/> ≥ 92% AFUE	<input type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel
<input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input type="checkbox"/> ≥ 84% < 92% AFUE	<input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area		Other Building Characteristics
Area of walls = _____m <sup>2</sup> or _____ft <sup>2</sup>	W, S & G % = _____	<input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement
Area of W, S & G = _____m <sup>2</sup> or _____ft <sup>2</sup>	Utilize window averaging: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement
		<input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit
		<input type="checkbox"/> Air Sourced Heat Pump (ASHP)
		<input type="checkbox"/> Ground Sourced Heat Pump (GSHP)

## D. Building Specifications [provide values and ratings of the energy efficiency components proposed]

Energy Efficiency Substitutions			
<input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6))			
<input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7))			
<input type="checkbox"/> Airtightness substitution(s)	<input type="checkbox"/> Table 3.1.1.4.B Required: _____ Permitted Substitution: _____		
Airtightness test required (Refer to Design Guide Attached)	<input type="checkbox"/> Table 3.1.1.4.C Required: _____ Permitted Substitution: _____		
	Required: _____ Permitted Substitution: _____		
Building Component	Minimum RSI / R values or Maximum U-Value <sup>(1)</sup>	Building Component	Efficiency Ratings
<b>Thermal Insulation</b>	Nominal    Effective	<b>Windows &amp; Doors</b> Provide U-Value <sup>(1)</sup> or ER rating	
Ceiling with Attic Space		Windows/Sliding Glass Doors	
Ceiling without Attic Space		Skylights/Glazed Roofs	
Exposed Floor		<b>Mechanicals</b>	
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))	# Showers_____
Slab (all ≤600mm below grade, or heated)		Combined Heating System	

(1) U value to be provided in either W/(m<sup>2</sup>•K) or Btu/(h•ft<sup>2</sup>•F) but not both.

## E. 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

# 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 SB-12 Performance 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.

- SB-12 Prescriptive 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 SB-12 Prescriptive 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)

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

The building code requires that a blower door test be conducted to verify the air tightness of the house during construction if the SB-12 Prescriptive 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.