

Building Permit Requirements

New Industrial, Commercial or Institutional Projects or High-Rise Residential Buildings

Building Permit Application

The following is required at submission. Incomplete applications **cannot** be accepted.

1. COMPLETED APPLICATION FORMS.

- Application for a Permit to Construct or Demolish (No longer required. Will be part of your Brampton Portal submission.)
- Schedule 1: Designer Information
- Applicable Law Checklist
- General Review Commitment Certificate
- Detailed Letter of Use describing the nature of the operation or business, the number of employees and the occupant load. Industrial storage or manufacturing uses shall include a detailed description of the processes and materials or chemicals used or stored and the method of storage
- Completed Financial Contribution Form (provided by Building Division or available on the website www.brampton.ca)

2. PLANS AND SPECIFICATIONS

- Legal Property Survey
- 2 sets of site plan approved drawings. Building Permit Applications will not be accepted without site plan approval
- 2 complete sets of drawings – architectural, structural, HVAC, plumbing, electrical (sprinkler system complete with hydraulic calculations and fire alarm system, where applicable)
- 2 copies of BMEC authorization (where applicable)
- 1 copy of HVAC calculations
- 1 copy of soil engineer's report
- 2 sets of specifications (where applicable)
- 1 copy of Supplementary Standard SB-10 forms (where applicable)
- 1 copy of Proposal for Alternative Solution (where applicable)

3. BUILDING PERMIT FEE

- The building permit fee is based on the service index for the classification of the work proposed and the floor area in m² of the work involved
- (Fee = Service Index X Area)
- Refer to Building By-law 387-2006 as amended for Fee Schedule

Building Permit Issuance

The following items must be completed prior to issuance of a building permit:

1. Outstanding balance of permit fees is due and payable at the time of permit issuance. The applicant will be contacted upon completion of the plans review and advised of permit fees and any outstanding issues.
2. Provide proof of other statutory requirements (applicable law) where it applies in accordance with O.B.C. Div A, 1.4.1.3 for example;
 - Finance Department – payment of development charges and parkland contribution
 - Conservation Authority – permit from Toronto Region Conservation Authority or Credit Valley Conservation Authority
 - Ministry of Transportation – land use or building permit
 - Proof of Filing of Record of Site Conditions
 - Proposal for Alternative Solution requires a deposit of \$444.85 at time of application plus \$100.59 per hour review time.
3. Where a permit is to be issued for construction within a common element of a registered condominium a Notice of Permission to Construct form, signed by an authorized agent of the condominium corporation, shall be submitted for the authorization of work to be undertaken within the common element of the building or property.
4. Residential buildings intended for condominium registration must be registered with TARION and have an Ontario New Home Warranty program reference number.

Other Telephone Numbers

Credit Valley Conservation Authority	1-800-668-5557
Toronto and Region Conservation Authority	(416) 661-6600

Schedule 1: Designer Information

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

All personal information on this form is collected under the authority of the Building Code Act, S.O. 1992, c.23 and City of Brampton By-Law 387-2006. The information collected on this form be used for Building-related information requests and/or applications. Questions about the collection of personal information should be directed to the Manager, Administration and Information Services at 905-874-2401.

☐ I have read, understood, and agree with the City Collection Statement.

A. Project Information			
Building number, street name		Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other description	
B. Individual who reviews and takes responsibility 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 individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]			
☐ House	☐ HVAC – House	☐ Building Structural	
☐ Small Buildings	☐ Building Services	☐ Plumbing – House	
☐ Large Buildings	☐ Detection, Lighting and Power	☐ Plumbing – All Buildings	
☐ Complex Buildings	☐ Fire Protection	☐ On-site Sewage Systems	
Description of designer's work			
D. Declaration of Designer			
I _____ declare that (choose one as appropriate): (print name)			
☐ 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. Individual BCIN: _____ Firm BCIN: _____			
☐ 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. Individual BCIN: _____ 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:			
1. The information contained in this schedule is true to the best of my knowledge.			
2. I have submitted this application with the knowledge and consent of the firm.			
_____		_____	
Date		Signature of Designer	

NOTE:

- 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.
- 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.

CITY OF BRAMPTON - BUILDING DIVISION

SECTION G. DOCUMENTS ESTABLISHING COMPLIANCE WITH APPLICABLE LAW (OBC Div. A - 1.4.1.3.)

Permit Application No. 	Permit Location _____ street _____ unit/suite
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Explanation:
Applicable Law - Applicable law is other regulations for which approval must be obtained before a building permit can issue. A complete list of Acts and Regulations that are "Applicable Law" is set out in Article 1.4.1.3 of Division A of the Ontario Building Code.

Instructions:
The most common Acts and Regulations are listed below with the documentation that must be provided before a building permit can issue. Check those that apply to your permit application and complete the declaration. The customer service plans examiner will assist you with any questions you may have about the regulations listed. The documents noted must be provided before a building permit can issue.

Details and Contact Information
A list of agencies and contact information is available at the Building Division or on the City of Brampton website

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APPLICABLE LAWS (Note: This list provides only the most common approvals)

ACT	Description	REQUIRED DOCUMENTS (Provide copy)	Required Yes/No	Received
Planning Act s.41	(Site Plan Control)	Site plan approved drawings		
Planning Act s.34	(Zoning By-law)	Final & binding amendment		
Planning Act Pt. V1	(Division of Land)	Registered Plan or Deed		
Planning Act s.45	(Minor Variance)	Final Decision from City Clerk		
Planning Act s.33	(Demolition of Residential Property)	Council Approval		
Ontario Heritage Act ss.27 (3), 30(2), 33, ss.34.40.1 & 40.2		Heritage Permit		
Ontario Heritage Act s.34.5 and s. 34.7.(2)		Ministry of Culture approval		
Development Charges Act, 1997 s.28(a) and s.53, Education Act s.257.83 & 257.93	(Financial Contribution)	Confirmation of payment from City of Brampton Finance Department		
Planning Act s.42(6)	(Cash in Lieu of Parkland)	Confirmation of payment from City of Brampton Finance Department		
Conservation Authorities Act	(Flood plain or fill regulated area)	Construction and Fill Permit		
Day Nurseries Act, Reg. 262 s.5	(Daycare centre with more than 5 children)	Approval from Ministry of Children and Youth Services		
Education Act s.194	(Demolition of all or part of a school)	Approval from Ministry of Education		
Environmental Protection Act s.168.3.1 & 168.6(1) change of use of land	(Industrial or commercial to agricultural, residential or park)	File Record of Site Condition (RSC) and/or provide Certification of Property use (CPU)		
Public Transportation Act s.34 and s. 38 10	(Construction within 45m of the road or within 395m of an intersection of Hwys, 410 or 407)	Building and Land Use Permit issued by MTO		
Other:				

APPLICANT'S DECLARATION

I, _____ certify that the applicable laws designated on the above noted chart are, to the best of my
print name
knowledge, all of the "applicable law" for which this application for a permit must comply before a permit is issued.

Date

Signature

COMMITMENT TO PROVIDE GENERAL REVIEW

Pursuant to OBC DIVISION C - Part 1 Subsection 1.2.2.

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PROJECT INFORMATION

PROJECT DESCRIPTION	
PROJECT LOCATION	_____ # Street Unit/Suite
PROPERTY OWNER	Name: _____ Address: _____ # Street Unit/Suite City e-mail address: _____ If the Owner is a corporation provide the authorized corporate contact name and contact information: Name: _____ Address: _____ # Street Unit/Suite City e-mail address: _____ Telephone: _____

COMMITMENT TO PROVIDE GENERAL REVIEW

Consultant Name:					
Company:					
Address:					
	#	Street	Unit/suite	City	Postal Code
e-mail address:			Telephone : ()		
			Fax: ()		

1. The undersigned architect or professional engineer warrants that I have been retained by the Owner and/or authorized agent named on this document to provide general review of the construction of the building referenced to determine whether the construction is in general conformity with the plans and other documents that form the basis for the issuance of a building permit, in accordance with the performance standards of the Ontario Association of Architects (OAA) and/or Professional Engineers of Ontario (PEO);
2. All general review reports by the architect or professional engineer will be forwarded promptly to the attention of the applicable Inspector at: inspections.scheduling@brampton.ca
3. Should I cease to provide general review for any reason during construction, the Chief Building Official will be notified in writing immediately.

Professional Discipline	☐ ARCHITECTURAL ☐ STRUCTURAL ☐ MECHANICAL HVAC ☐ MECHANICAL PLUMBING ☐ MECHANICAL- CIVIL ☐ ELECTRICAL ☐ SITE SERVICES ☐ OTHER (SPECIFY): _____
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DESCRIBE THE SCOPE OF WORK FOR WHICH GENERAL REVIEW IS BEING PROVIDED

Signature: _____

Date: _____

 mth day year

Print Name: _____

FOR OFFICE USE ONLY

PERMIT APPLICATION # _____			
Review By: (Bldg) _____	BCIN# _____	Date: _____	
(Plmbg) _____	_____	_____	_____
(HVAC) _____	_____	_____	_____



FINANCIAL CONTRIBUTION FORM (Form A-1)

New Building:
Non-Residential or Multi-Residential

FOR OFFICE USE ONLY:
Permit Application #

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Property Location

Municipal Address:

#StreetUnit

Legal Description of Lands:

Part of Lot, Block, Concession, Designated Parts, Reference Plan Description, Municipality

2

Site Plan #

3

Property Owner:

Contact (Applicant/Agent):

Address:

#StreetUnitTown/CityProvincePostal Code

Telephone:Fax:

Email:

4

Intended Use (check one):

☐ Industrial☐ Office☐ Non-Industrial/Non-office☐ Residential☐ Mixed-Use*

* Please fill out a separate form for each respective use in a mixed-use building

If the building is non-residential, please provide a more detailed description of the intended use on the back of this form [Section 6], or attach a detailed letter of intended use. See definitions on reverse.

5

Floor Area Verification - Applicable to the City of Brampton, the Region of Peel and School Board By-laws

A. "Total Floor Area" / "Gross Floor Area"

[SEE DEFINITIONS ON REVERSE]

B. Deductible Area:

City, Region & School Board By-laws

B-1. Any part of the building or structure used for mechanical equipment related to the operation or maintenance of the building or structure, stairwells, elevators and washrooms

City, Region & School Board By-laws

B-2. Any part of the building or structure above or below grade, used exclusively for the temporary parking of a motor vehicle or used for the provision of loading spaces

City, Region & School Board By-laws

B-3. The area of any self contained structural shelf and rack storage system as defined in the *Building Code Act*

School Board By-laws

B-4. Parts of the building below established grade **other** than that used for retail, commercial, office, industrial, institutional or warehousing purposes.

City, Region & School Board By-laws

B-5. Parts of the building above or below grade used for non-commercial parking

C. Multiple Unit Residential Buildings (# of dwelling units):

Small Apt < = 750 sq.ft.

Large Apt > 750 sq.ft.

6

Declaration:

I hereby declare that I have verified this information and certify that the statements made herein are correct to the best of my knowledge.

Signature of Applicant:

Name (Please print):

Date (yyyy/mm/dd):

Revised: April 2026

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DESCRIPTION OF INTENDED USE [Please fill out if building is non-residential as selected in Section 4]:
NOTE: IF THIS IS A SPECULATIVE INDUSTRIAL BUILDING, THE CITY AND/OR REGION MAY REQUIRE A LETTER OF CREDIT TO SECURE THE DIFFERENCE BETWEEN THE INDUSTRIAL & COMMERCIAL RATES.

DEFINITIONS:
THE FOLLOWING DEFINITIONS APPLY TO THE CITY OF BRAMPTON BY-LAWS ONLY. For greater clarification on any definitions pertaining to development charges, please reference the prevailing DC by-laws for the City of Brampton, Region of Peel, Peel District School Board and the Dufferin-Peel Catholic District School Board.

"Total Floor Area"/"Gross Floor Area" means the total of the areas of the floors in a building or structure, whether at, above or below grade measured between the exterior faces of the exterior walls of the building or structure or from the centre line of a common wall separating two uses, or from the outside edge of a floor where the outside edge of the floor does not meet an exterior or common wall.

Where a building or structure does not have any walls, the total floor area shall be the sum total of the area of land directly beneath the roof of the building or structure and the total areas of the floors in the building or structure.

Also includes:

- a) Floor area of a mezzanine and air supported structure and space occupied by interior walls and partitions. (City, Region and School Board By-laws).
- b) Below grade, only that floor area used for retail, commercial, office, industrial or warehousing purposes (Region and School Board By-laws).
- c) Any part of a building or structure above or below grade used as a commercial parking garage (City).

Less the deductible areas noted in Section 5B of this form.

"Building or Structure" means a building or structure occupying an area greater than 10 square metres consisting of a wall, roof, and floor or any of them or a structural system servicing the function thereof. Includes: air-supported structure, mezzanine, and exterior storage tank. Does not include: farm building, canopy, exterior storage tank where such exterior storage tank constitutes an accessory use.

"Dwelling Unit" means one or more habitable rooms designed or intended to be occupied as living quarters as a self-contained unit and shall contain sanitary facilities, accommodation for sleeping and one kitchen.

"Industrial Use" land, buildings or structures used or designed or intended for use for or in connection with: manufacturing, producing, processing, warehousing or bulk storage of goods; a distribution centre or truck terminal; research or development in connection with manufacturing, producing, processing or storage of goods; office uses and the sale of commodities to the general public where such uses are accessory to an industrial use; and the growing, processing and production of Cannabis or a controlled substance under the Controlled Substance Act, but does not include: a building used exclusively for office or administrative purposes unless it is attached to an industrial building or structure as defined above; and a retail warehouse.

"Large Apartment Dwelling Unit" means:

- i.) a dwelling unit in a building containing six or more dwelling units which have a common entrance from the street level, and the occupants of which have the right to use common elements;
- ii.) a dwelling unit in a duplex, triplex, or double duplex;
- iii.) a dwelling unit in a mixed used building;
- iv.) a dwelling unit having a floor area of more than 750 square feet; and
- v.) a unit in a stacked townhouse dwelling having a floor area of more than 750 square feet.

"Non-Industrial/Non-Office Use" means the use of land, buildings or structures or parts thereof, used, designed or intended to be used for any use other than for residential use, industrial use, or office use, , and a non-industrial/non-office use includes retail, service, hospitality, motor vehicle service, entertainment and recreational uses and commercial parking lot uses.

"Non-Residential Use" means the use of land, buildings or structures or portions thereof used, designed or intended to be used for any use other than for residential use.

"Office Use" means the use of land, buildings or structures used primarily for, or designed or intended for use primarily for or in connection with conducting the affairs of businesses, professions, services, industries, governments, or like activities, and where the chief product of labour within that use is the processing and/or storage of information rather than the production and distribution of a good or service.

"Residential Use" means land, buildings or structures or portions thereof used, designed, or intended to be used as living accommodation within a dwelling unit, for one or more individuals.

"Small Apartment Dwelling Unit" notwithstanding the definition of a "large apartment", means any residential unit having a floor area equal to or less than 750 square feet

"Speculative Building" means any building or structure where the ultimate use or occupancy could not be determined to the satisfaction of the City at the time that a development charge became due and payable.

"Stacked Townhouse Dwelling" means a building that contains four or more dwelling units where each dwelling unit is separated horizontally or vertically from another dwelling unit by a common wall, each with an entrance that is independent or through a shared landing and/or external stairwell, and that has been developed on a block approved for development at a minimum density of sixty (60) units per hectare pursuant to plans and drawings approved under section 41 of the *Planning Act* .

"Temporary Building or Structure" means a building or structure constructed or erected or placed on land for a continuous period not exceeding eight months, or an addition or alteration to a building or structure that has the effect of increasing the total floor area thereof for a continuous period not exceeding eight months.

ONTARIO BUILDING CODE SUPPLEMENTARY STANDARD SB-10

PROJECT INFORMATION

Project:	Location:
Building Permit Application No.:	Date:

Architectural Designer Information*	Mechanical Designer Information*	Electrical Designer Information*
Name	Name	Name
Address	Address	Address
City Province	City Province	City Province
Signature Date(YY/MM/DD)	Signature Date(YY/MM/DD)	Signature Date(YY/MM/DD)

*IF MORE DESIGNERS ARE INVOLVED, PROVIDE ADDITIONAL COPIES OF THIS FORM.

THIS CHECKLIST IS A CONVENIENCE DOCUMENT ONLY AND IS BASED ON THE ENERGY EFFICIENCY REQUIREMENTS DESCRIBED IN THE ONTARIO BUILDING CODE SUPPLEMENTARY STANDARD SB-10 DIVISION 3. THIS CHECKLIST IS NOT A SUBSTITUTE FOR COMPLYING WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE. WHILE CARE HAS BEEN TAKEN TO ENSURE ACCURACY OF THIS CHECKLIST, DESIGNERS AND BUILDING OFFICIALS MUST REFER TO THE ACTUAL WORDING AND REQUIREMENTS OF THE ONTARIO BUILDING CODE (O.REG. 350/06 AND AMENDMENTS UP TO AMENDING O.REG. 315/12).

THIS CHECKLIST IS MADE AVAILABLE FOR CODE USERS BY THE MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING. USERS SHOULD ALWAYS CONSULT WITH THE AUTHORITY HAVING JURISDICTION, IF THE CHECKLIST IS GOING TO BE SUBMITTED TO THAT AUTHORITY. THE MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OVERSIGHTS RESULTING FROM THE INFORMATION CONTAINED HEREIN.

PLEASE FILL IN THE ACTUAL VALUES INSTALLED AND CHECK BOXES AS THEY APPLY.

OBC SB-10 COMPLIANCE SUMMARY

Energy Efficiency Design:

There are three energy compliance options to meet the requirements of OBC SB-10 Division 3. Please select the compliance option selected for this project. The energy efficiency of all buildings must be designed to:

Compliance Path		Forms to Complete
(A) Achieve the energy efficiency levels attained by conforming to the ASHRAE 90.1-2013, "Energy Standard for Buildings Except Low-Rise Residential Buildings" and Chapter 2 of SB-10 (Division 3). <i>This compliance path includes both prescriptive and performance path options. Please proceed to Form A.</i>	☐ YES	FORM A
(B) Achieve the energy efficiency levels attained by conforming to the National Energy Code of Canada for Buildings 2015 and Chapter 3 of SB-10 (Division 3). <i>This compliance path includes both prescriptive and performance path options. Please proceed to Form B.</i>	☐ YES	NECB
(C) Section 7 "Energy Efficiency" of 2014 ANSI/ASHRAE/USGBC/IES 189.1, excluding Sections 7.2.b, 7.4.7.3, 7.4.8 and 7.5	☐ YES	

**ONTARIO BUILDING CODE SUPPLEMENTARY STANDARD SB-10
PROJECT INFORMATION – ADDITIONAL DESIGNER SIGNATURES**

Project:	Location:
Building Permit Application No.:	Date:

Designer Information (Other)*:	Designer Information (Other)*:	Designer Information (Other)*:
Specialty	Specialty	Specialty
Name	Name	Name
Address	Address	Address
City Province	City Province	City Province
Signature Date(YY/MM/DD)	Signature Date(YY/MM/DD)	Signature Date(YY/MM/DD)

*AS APPLICABLE TO SB-10 2017 PROVISIONS AND REQUIREMENTS.

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OBC SB-10 AND ASHRAE 90.1 - 2013 – COMPLIANCE SUMMARY**Form A**

Project:	Location of Project:
Building Permit Application No.:	Climatic Zone (SB-10 Division 3 Section 1.3):

ASHRAE 90.1 – 2013 COMPLIANCE AS MODIFIED BY OBC SB-10 DIVISION 3

The building design complies with the mandatory provisions of the following sections regardless of the compliance path:

ASHRAE 90.1-2013 Standard Section	Compliance Column	Form
5.4 BUILDING ENVELOPE AND SB-10 DIVISION 3	☐ YES	FORM 5.4
6.4 HEATING, VENTILATING AND AIR CONDITIONING	☐ YES	FORM 6.3 or FORM 6.4
7.4 SERVICE WATER HEATING SYSTEMS AND EQUIPMENT	☐ YES	FORM 7.4
8.4 POWER	☐ YES	FORM 8.4
9.4 LIGHTING	☐ YES	FORM 9.4
10.4 OTHER EQUIPMENT AND SB-10 DIVISION 3	☐ YES	FORM 10.4

METHOD OF COMPLIANCE

Building Design must comply with either the Prescriptive Requirements or the Energy Cost Budget Method. Indicate which method was selected.

Compliance Method	Compliance Column	Form
PREScriptive COMPLIANCE	☐ YES	COMPLETE SECTION A-1
ENERGY COST BUDGET METHOD	☐ YES	COMPLETE SECTION A-2

A-1: PRESCRIPTIVE COMPLIANCE – ASHRAE 90.1-2013 AND OBC SB-10

The building design complies with the Prescriptive Compliance requirements of the following sections:

Standard Section Reference		Compliance Column	Form
Sec 5 BUILDING ENVELOPE	Prescriptive Requirements (5.5 of 90.1)	☐ YES	FORM 5.5 or
	Building Envelope Trade-Off (5.6 of 90.1)	☐ YES	FORM 5.6
Sec 6 HVAC SYSTEMS	Simplified Approach for HVAC Systems	☐ YES	FORM 6.3 or
	Mandatory + Prescriptive Path Option	☐ YES	FORM 6.4
Sec 7 SERVICE WATER HEATING	Prescriptive Path Option	☐ YES	FORM 7.4
Sec 9 LIGHTING	Prescriptive Requirements	☐ YES	FORM 9.5

A-2: ENERGY COST BUDGET METHOD – ASHRAE 90.1-2013 AND OBC SB-10

	Compliance Column	Form
The building design complies with the provisions of Section 11 of ASHRAE 90.1-2013, based on Division 3 of SB-10.	☐ YES	FORM 11

SECTION 5.4 MANDATORY PROVISIONS

Building insulation has been designed to comply with section 5.4.1 of ASHRAE 90.1-2013 as modified by Chapter 2 of OBC SB-10.

☐ YES

Building fenestration and doors have been designed to comply with section 5.4.2 of ASHRAE 90.1-2013 as modified by Chapter 2 of OBC SB-10.

☐ YES

Building air leakage has been designed to comply with section 5.4.3 of ASHRAE 90.1-2013 as modified by Chapter 2 of OBC SB-10.

☐ YES

Section 5.5 Overall Building Design Requirements

The building design must comply with the following general requirements. If any of these requirements are not met, the prescriptive path cannot be pursued. Consider the building envelope trade-off compliance or the Energy Cost Budget Method Described in Chapter 11 of ASHRAE 90.1-2013:

Gross Wall Area: _____ m ² Vertical Fenestration Area: _____ m ² Vertical fenestration area is less than 40% of the gross wall area	☐ YES
Gross Roof Area: _____ m ² Skylight Area: _____ m ² Total skylight area does not exceed 3% of the gross roof area	☐ YES
Where the main entrance is located on the south orientation and the south-oriented wall area is larger than west-oriented wall area, and where the south-oriented wall area is larger than east-oriented wall area, per ASHRAE 90.1-2013 5.5.4.5, either: (a) total east and west vertical fenestration areas are each less than 25% of total vertical fenestration area for the whole building, or (b) east and west area-weighted SHGC is less than area-weighted SHGC for total fenestration Exception (from ASHRAE 90.1-2013 Section 5.5.4.5): _____	☐ YES ☐ N/A ☐ YES ☐ N/A
Where electric space heating provides more than 10 per cent of the heating capacity, the building envelope shall comply with the requirements of Table SB 5.5-7 of SB-10, regardless of its climatic location	☐ YES ☐ N/A
For Climate Zone 5, minimum skylight fenestration area conforms to the requirements of ASHRAE 90.1-2013 5.5.4.2.3.	☐ YES ☐ N/A
Identify SB-10 Table used for maximum U-Factors or minimum RSI-Values : _____	

Complete the table on Form 5.5-2 to show compliance for all envelope components. Attach as many copies of this form as required to ensure that all envelope components are represented.

For all opaque surfaces, compliance must be demonstrated by meeting either:

1. The minimum R-values of insulation added in framing cavities and continuous insulation as specified in Tables SB5.5-5 to SB5.5-7.
2. The maximum U-factor, C-factor, or F-factor for the entire assembly as specified in Tables SB5.5-5 to SB5.5-7. U-factor is to be determined from tables in Appendix A of ASHRAE 90.1-2013 or through calculation methods described in ASHRAE 90.1-2013 Appendix Section A9.

For all fenestration products, compliance with U-factors, SHGC and VT must be determined for the overall fenestration product.

1. Fenestration shall have a U-factor and SHGC not greater than those specified in SB-10 Tables SB5.5-5 to SB5.5-7.
2. Where automatic daylighting controls are required in accordance with Section 9.4.1.1(e) or (f), fenestration shall have a ratio of VT divided by SHGC not less than that specified in Tables SB5.5-5 through SB5.5-7 for the appropriate fenestration area.
3. U-factor to be determined through CSA or NFRC rating or by using ASHRAE 90.1-2013 Appendix A default values.

Please complete the following table to include information on all walls, roofs, doors, and floors used in the design.

OPAQUE BUILDING ENVELOPE COMPONENTS					
Opaque Element - Description ⁽¹⁾	Space Conditioning Category ⁽²⁾	Class of Construction ⁽³⁾	Criteria Max. U-Value ⁽⁴⁾ or Min RSI	Design U-Value ⁽⁴⁾ or RSI	Area Weighted Avg. Used ^{(5)?}
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N
	☐ NR ☐ R ☐ SH				☐ Y ☐ N

Please complete the following table to include information on all fenestration products used in the design.

FENESTRATION ENVELOPE COMPONENTS									
Fenestration - Description ⁽¹⁾	Space Conditioning Category ⁽²⁾	Class of Construction ⁽³⁾	U-Value ⁽⁴⁾		SHGC ⁽⁶⁾		VT/SHGC		Area Weighted Average Used ^{(5)?}
			Crit.	Des.	Crit.	Des.	Crit.	Des.	
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N
	☐ NR ☐ R ☐ SH								☐ Y ☐ N

- (1) Indicate if Element is a Wall, Roof, Floor, Door, Window or Skylight and a Tag or Description (eg Wall – W1).
- (2) Select from Non-residential (NR), Residential (R), or Semiheated (SH).
- (3) Select from the subclasses of roofs, walls, floors, doors and fenestration provided in Tables SB5.5-5 to SB5.5-7 (eg. Steel Framed for walls). Note that curtain wall systems are considered a steel framed wall.
- (4) F-Factors can be used for floors and C-Factors for below Grade Walls as applicable.
- (5) Elements of the same type, space category, and class of construction can be averaged using area weighting to show compliance only if U-Values are used.
- (6) Design SHGC may be higher than the criteria if one of the exceptions from ASHRAE 90.1-2013 5.5.4.4.1 or 5.5.4.4.2 is applicable. Please use the space below to identify the fenestration elements (if any) which an exception for SHGC is being claimed.
- (7) Design VT/SHGC ratio may be lower than the criteria if one of the exceptions from ASHRAE 90.1-2013 5.5.4.6 is applicable. Please use the space below to identify the fenestration elements (if any) which an exception for VT/SHGC is being claimed.

SHGC and VT/SHGC EXCEPTIONS	
Fenestration Element	SHGC or VT/SHGC exception from ASHRAE 90.1-2013 5.5.4.4.1, 5.5.4.4.2, or 5.5.4.6

Note that this option may only be pursued using the procedure described in ASHRAE 90.1-2013 Section 5.6 as modified by the requirements of Chapter 2 of SB-10

Calculated EPF for proposed building*: _____

Calculated EPF for budget building*: _____

Envelope performance factor (EPF) for proposed building is less than or equal to the envelope performance factor of the budget building.	☐ YES
All components of the building envelope shown on architectural drawings or installed in existing buildings have been separately described and modeled in the proposed building design, with exception for envelope assemblies that cover less than 5% of the total area of its corresponding assembly type, and whose area can be included with another similar assembly (based on thermal properties and orientation) as noted in Section 5.6.1.1.	☐ YES
A software program* incorporating the requirements of ASHRAE 90.1-2013 as modified by SB-10 has been used to calculate the EPF. A report from this software is attached. Name of software: _____	☐ YES

****Note that the EPF must be calculated by a simulation program which includes the requirements of ASHRAE 90.1-2013 as modified by SB-10.***

If simplified HVAC method is used complete this form, otherwise proceed to Form 6.4.

Number of Stories:	Gross floor area: m ²
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Reference		Standard Compliance
6.3.1	The building is 2 stories or less in height and has a gross floor area less than 2,300 m ² .	☐ YES
6.3.2	All of the requirements in Section 6.3 as outlined below must be met by each HVAC system in the facility.	
6.3.2.a	System serves a single HVAC zone.	☐ YES
6.3.2.b	The equipment meets the variable flow requirements of Section 6.5.3.2.1.	☐ YES ☐ N/A
6.3.2.c	If a cooling is installed, it is provided by a unitary packaged or split-system air conditioner that is either air-cooled or evaporatively cooled and meets the efficiency requirements shown in Tables 6.8.1-1, 6.8.1-2, and 6.8.1-4.	☐ YES ☐ N/A
6.3.2.d	The system has an air economizer with outside airflow capacity and controls as required per Section 6.5.1., unless exempt.	☐ YES ☐ N/A
6.3.2.e	Heating is provided by a unitary packaged or split-system heat pump, a fuel-fired furnace, an electric resistance heater or a baseboard system connected to a boiler. All heating equipment meets the efficiency requirements shown in Table 6.8.1-2, 6.8.1-4, 6.8.1-5, and 6.8.1-6 as modified by SB-10 Table SB 6.8.1-2017.	☐ YES ☐ N/A
6.3.2.f	System meets the exhaust air energy recovery requirements of Section 6.5.6.1 as modified by SB-10, unless exempt.	☐ YES ☐ N/A
6.3.2.g	The system is controlled by a manual changeover or dual setpoint thermostat.	☐ YES
6.3.2.h	Heat pumps equipped with auxiliary internal electric resistance heaters (if any) have controls to prevent supplemental heater operation when the heating load can be met by the heat pump alone, unless exempt.	☐ YES ☐ N/A
6.3.2.i	The system controls do not permit reheat or any other form of simultaneous heating and cooling for humidity control.	☐ YES ☐ N/A
6.3.2.j	Systems are provided with a time switch that (1) can start and stop the system under different schedules for seven different day-types per week; (2) is capable of retaining programming and time setting during a loss of power for a period of at least 10 h; (3) includes an accessible manual override that allows temporary operation of the system for up to 2 h; (4) is capable of temperature setback down to 13° C during off hours; and (5) is capable of temperature setup to 32° C during off hours unless exempt.	☐ YES ☐ N/A
6.3.2.k	Piping is insulated in accordance with values given in Table 6.8.3A and 6.8.3B. Insulation exposed to weather is suitable for outdoor service (i.e. protected by aluminum, sheet metal, etc. or painted with a coating that is water retardant and provides shielding from solar radiation).	☐ YES ☐ N/A
6.3.2.l	Ductwork and plenums are insulated in accordance with Tables 6.8.2A and 6.8.2B and sealed in accordance with Section 6.4.4.2.1.	☐ YES ☐ N/A
6.3.2.m	Specifications call for ducted air systems to be balanced.	☐ YES ☐ N/A
6.3.2.n	Outdoor air intake and exhaust systems meet the controls requirements of Section 6.4.3.4.	☐ YES ☐ N/A
6.3.2.o	Where separate heating and cooling equipment serve the same temperature zone, thermostats are interlocked to prevent simultaneous heating and cooling.	☐ YES ☐ N/A
6.3.2.p	Systems with a design supply air capacity greater than 5,000 L/s have optimum start controls.	☐ YES ☐ N/A
6.3.2.q	In spaces larger than 50m ² and with design occupancy ≥ 25 people per 100m ² , the system complies with the demand control ventilation requirements in Section 6.4.3.8, unless exempt.	☐ YES ☐ N/A
6.3.2.r	The system complies with the door switch requirements of Section 6.5.10.	☐ YES ☐ N/A

SECTION 6 HVAC – 6.4 MANDATORY PROVISIONS AND 6.5 PRESCRIPTIVE REQUIREMENTS Form 6.4		
Reference		Standard Compliance
	Mandatory Provisions – Complete only if simplified HVAC method is not used.	
6.4.1	Equipment shown in 6.8.1-1 through 6.8.1-13 meets the minimum performance (as modified by SB-10 Table SB 6.8.1-2017) at the specified rating conditions in accordance with the test procedures in the tables or those in SB-10 Section 6.4.1.A.	☐ YES
6.4.2.1	Load calculations for heating and cooling systems are done as per ASHRAE Standard 183-2007 for selection of all equipment and systems.	☐ YES
6.4.2.2	Pressure drop through each device and pipe segment in the critical circuit at design conditions has been calculated in accordance with generally accepted engineering standards and handbooks.	☐ YES
6.4.3	Mandatory controls requirements are met by all the equipment in the building as outlined in Section 6.4.3.	☐ YES
6.4.4.1	Ductwork, piping, and equipment insulation meets the requirements of Section 6.4.4.1.	☐ YES
6.4.4.2	Construction documents specify sealing and pressure testing of ductworks and plenums as per Section 6.4.4.2.	☐ YES
6.4.5	Site-assembled or site-constructed walk-in coolers and freezers shall conform to the requirements of Section 6.4.5.	☐ YES
6.4.6	All refrigerated display cases shall conform to the requirements of Section 6.4.6., including Section 6.4.1.1 and Tables 6.8.1-1 through 6.8.1-13 as modified by SB-10.	☐ YES
	Prescriptive Requirements – Complete this section if not using Energy Cost Budget Method.	
6.5.1	Each cooling system that has a fan employs either airside or waterside economizer unless exempt.	☐ YES ☐ N/A
6.5.1.1	Airside economizers are capable of modulating outdoor air dampers to provide up to 100% design airflow for cooling and the system provides relief capacity for such airflow.	☐ YES ☐ N/A
6.5.1.2.1	Waterside economizers are capable of cooling supply air up to 100% of the expected system cooling load at the conditions listed under Section 6.5.1.2.1, unless exempt.	☐ YES ☐ N/A
6.5.1.2.2	Waterside economizer systems with pressure drop greater than 45kPa are isolated from main cooling loop to reduce pumping input in the normal cooling mode.	☐ YES ☐ N/A
6.5.1.3	Economizer systems incorporate integrated economizer controls per ASHRAE 90.1-2013 6.5.1.3	☐ YES ☐ N/A
6.5.1.4	Economizer operation does not increase the building heating energy use during normal operation, except as allowed under ASHRAE 90.1-2013 6.5.1.4	☐ YES ☐ N/A
6.5.1.5	Systems with hydronic cooling and humidification systems designed to maintain inside humidity at a dew-point temperature greater than 2°C use a water economizer if required by ASHRAE 90.1-2013 6.5.1.	☐ YES ☐ N/A
6.5.2	Simultaneous heating and cooling is limited with compliant zone, hydronic system, dehumidification, and humidification controls as per Section 6.5.2.	☐ YES ☐ N/A
6.5.3	Cooling system fan controls comply with the requirements of 6.5.3.2 and 6.5.3.3.	☐ YES ☐ N/A
6.5.3.1	Fan systems exceeding 4kW nameplate power have fan power limitations 10% below limitations specified in ASHRAE 90.1-2013 Table 6.5.3.1.1-1 and Section 6.5.3.1.2.	☐ YES ☐ N/A
6.5.4.1	Boiler systems with design input of ≥ 293 kW comply with the turndown ratio specified in Table 6.5.4.1.	☐ YES ☐ N/A
6.5.4.2	Pumping systems greater than 7.5 kW employ compliant variable flow controls, unless exempt	
6.5.4.3	Chilled water plants with more than one chiller and boiler plants with more than one boiler reduce loop water flow automatically whenever a chiller or boiler is shut down and isolated.	☐ YES ☐ N/A
6.5.4.4	Hydronic systems exceeding design capacity of 88 kW include controls to reset supply water temperature based on building loads or outdoor air temperature, unless exempt.	☐ YES ☐ N/A
6.5.4.5	Hydronic heat pumps and unitary air-conditioners include automatic water shutoff when the compressor is off (unless units are employing water economizer) and those having total pump system power greater than 3.7 kW have variable speed control.	☐ YES ☐ N/A
6.5.4.6	Chilled water and condenser water pipe is sized according to Table 6.5.4.6.	☐ YES ☐ N/A
6.5.5	Open-circuit cooling towers have fans meeting the energy efficiency requirements of Section 6.5.5.3 and have flow turndown in compliance with 6.5.5.4.	☐ YES ☐ N/A

SECTION 6 HVAC – 6.4 MANDATORY PROVISIONS AND 6.5 PRESCRIPTIVE REQUIREMENTS Form 6.4		
6.5.5.2	All heat rejection equipment provide fan controls that comply with Section 6.5.5.2, with variable speed drives on fan motors ≥ 5.6 kW.	☐ YES ☐ N/A
6.5.6.1	Exhaust air energy recovery is provided for fan systems meeting the conditions listed on Table 6.5.6.1. Energy recovery is at least 55% effective and bypass is available to permit air economizer operation as per Section 6.5.1.1.	☐ YES ☐ N/A
6.5.6.2	Condenser heat recovery system for heating or preheating hot water is provided, unless exempt.	☐ YES ☐ N/A
6.5.7.1	Kitchen exhaust systems are designed as per Section 6.5.7.1.	☐ YES ☐ N/A
6.5.7.1.5	Specifications call for performance testing of kitchen exhaust systems.	☐ YES ☐ N/A
6.5.7.2	Laboratory fume hoods with a total exhaust system flow $> 2,360$ L/S comply with the variable air volume control requirements of 6.5.7.2.	☐ YES ☐ N/A
6.5.8.1	Heating of unenclosed spaces is done by radiant heating, except loading docks with air curtains.	☐ YES ☐ N/A
6.5.9	Cooling equipment with hot-gas bypass controls is designed with multiple steps of unloading or continuous capacity modulation, with capacity limits as indicated in Table 6.5.9 for VAV systems. Constant volume units do not have hot gas bypass.	☐ YES ☐ N/A
6.5.10	All conditioned spaces with a door to the exterior have door switches interlocked with heating and cooling controls per Section 6.5.10, unless exempt.	☐ YES ☐ N/A
6.5.11	Refrigeration systems that are comprised of refrigerated display cases, walk-in coolers, or walk-in freezers connected to remote compressors, remote condensers, or remote condensing units meet the requirements of Sections 6.5.11.1 through 6.5.11.2.	☐ YES ☐ N/A

SECTION 7 SERVICE WATER HEATING – 7.4 MANDATORY PROVISIONS AND 7.5 PRESCRIPTIVE REQUIREMENTS		
Reference	Item	Standard Compliance
7.4.1	Load calculations for heating and cooling systems are done in accordance with manufacturer's published sizing guidelines or generally accepted engineering standards and handbooks for selection of all equipment and systems.	☐ YES
7.4.2	All equipment used solely for the following purposes meets or exceeds the efficiency requirements and testing criteria of Table 7.8, as modified by SB-10 7.4.2.A, unless exempt.: • heating potable water • pool heaters • hot water storage tanks Exemptions:	☐ YES ☐ N/A
7.4.3	The following service hot water piping is insulated to levels shown in Table 6.8.3-1: - Recirculating system piping, including piping of a circulating tank type water heater. - The first 2.4m of outlet piping for a constant temperature non-recirculating storage system. - Inlet pipe between storage tank and heat trap in a non-recirculating storage system. - Pipes that are externally heated (e.g. heat tracing).	☐ YES ☐ N/A
7.4.4.1	All water-heating systems have temperature controls that are adjustable down to 49°C or lower. • Exception: Equipment that must be protected from corrosion, as per manufacturer's installation instructions.	☐ YES ☐ N/A
7.4.4.2	Systems designed with pipe heating systems such as heat trace have temperature or time controls to disable during extended periods without hot water demand.	☐ YES ☐ N/A
7.4.4.3	Public lavatories have outlet temperature controls that limit the discharge temperature to 43°C.	☐ YES ☐ N/A
7.4.4.4	Tanks with remote heaters have circulation pump controls to limit operation of circulation pumps to a maximum of five minutes after the end of the heating cycle.	☐ YES ☐ N/A
7.4.5.1	Pool heaters have readily accessible ON/OFF switch without adjusting the thermostat setting. Gas-fired heaters do not have standing pilot lights.	☐ YES ☐ N/A
7.4.5.2	Per SB-10 7.4.5.2, heated exterior public pools and public spas shall be equipped with pool covers, unless over 60% of their energy for heating (computed over an annual operating season) is derived from site-recovered or site-solar energy.	☐ YES ☐ N/A
7.4.5.3	Pool heaters and circulation pumps have time switches, unless exempt.	☐ YES ☐ N/A
7.4.6	Heat traps are provided to all vertical risers serving storage water heaters and storage tanks.	☐ YES ☐ N/A
Prescriptive Requirement – Complete this section if not using Energy Cost Budget Method.		
7.5	Boiler systems that provide space heating as well as service water heating meet the conditions of Sections 7.5.1 and 7.5.2.	☐ YES ☐ N/A
7.5.3	Gas service hot-water systems with a total installed gas water-heating input capacity of 293 kW or greater, shall have a minimum input capacity-weighted average thermal efficiency of 90%, unless exempt.	☐ YES ☐ N/A

ASHRAE 90.1 & SB-10- SECTION 8,9 &10 POWER, LIGHTING AND OTHER EQUIPMENT

SECTION 8 POWER – 8.4 MANDATORY PROVISIONS		Form 8.4
Reference	Item	Standard Compliance
8.4.1	Feeder conductors and branch conductors are sized as per Section 8.4.1.	☐ YES
8.4.2	At least 50% of all 125 volt 15- and 20-Ampere receptacles (installed in conference rooms, rooms used primarily for printing and/or copying functions, breakrooms, classrooms, and individual workstations), and at least 25% of branch circuit feeders (installed for modular furniture not shown on the construction documents), are provided with automatic receptacle controls that function on a) time-of-day schedule or b) occupant sensor or c) occupancy signal from another control or alarm system, with exceptions as listed, as modified by SB-10.	☐ YES ☐ N/A
8.4.3	Unless exempted, measurement devices are shown in design documents to monitor the total electrical energy, as well as the electrical energy use separately for HVAC systems, interior lighting, exterior lighting, and receptacle circuits. For buildings with tenants, these systems are separately monitored for the total building and (excluding shared systems) for each individual tenant. Data recording and storage capabilities meet the requirements of 8.4.3.2.	☐ YES ☐ N/A
8.4.4	Low Voltage Dry-Type Distribution Transformers meet nominal efficiencies shown in Table 8.4.4, unless exempt.	☐ YES ☐ N/A

SECTION 9 LIGHTING– MANDATORY PROVISIONS CHECKLIST		Detailed Form 9.4-1
Reference	Item	Standard Compliance
9.4.1.1	For each space in the building, all of the lighting control functions indicated in ASHRAE 90.1-2013 Table 9.6.1, for the appropriate space type in column A, have been implemented, as described by Section 9.4.1.1: a. Local Control b. Restricted to manual ON c. Restricted to partial automatic ON d. Bilevel lighting control e. Automatic daylight responsive controls for sidelighting f. Automatic daylight responsive controls for toplighting g. Automatic partial OFF (full OFF complies) h. Automatic full OFF i. Scheduled shutoff	☐ YES
9.4.1.2	Lighting for parking garages is controlled by automatic shutoff controls meeting the requirements outlined in Section 9.4.1.2.	☐ YES ☐ N/A
	Lighting for parking garages is controlled by one or more devices that reduce lighting power of each luminaire by at least 30% when there is no activity within a zone for at most 30 minutes. Each lighting zone for this requirement cannot exceed 334 m ² , except daylight transition zones and ramps without parking.	☐ YES ☐ N/A
	Daylight transition zones in parking garages are controlled separately. These are automatically controlled to reduce by at least 50% from sunset to sunrise.	☐ YES ☐ N/A
	Parking garage luminaires within 6m of perimeter walls that have a net opening-to-wall ratio of at least 40% automatically reduce power in response to daylight, except daylight transition zones and ramps without parking.	☐ YES ☐ N/A
9.4.1.3	Additional control is provided to the special applications listed in Section 9.4.1.3	☐ YES ☐ N/A
9.4.1.4	Exterior lights are shut off by an automatic photosensor when available daylight is sufficient, unless exempt.	☐ YES ☐ N/A
	All building façade and landscape lighting is automatically shut off overnight as per 9.4.1.4.	☐ YES
	Exterior lighting not for façade or landscape, including for signage, is automatically controlled to reduce lighting power by at least 30% overnight or during inactive periods as per 9.4.1.4. (Uncovered parking areas are exempt per SB-10)	☐ YES
9.4.2	Exterior building lighting power complies with ASHRAE 90.1-2013 9.4.2 as modified by SB-10. Form 9.4.2 may be used to demonstrate compliance.	☐ YES
9.4.3	Third party functional testing of all lighting control devices and systems is specified in the construction documents.	☐ YES

SECTION 9.4 LIGHTING – EXTERIOR LIGHTING POWER MANDATORY COMPLIANCE		Form 9.4-2
Reference		Standard Compliance
9.4.3	Exterior Lighting Zone _____ (Table SB 9.4.2-2–2017) Total Installed Exterior Lighting Power _____ W ≤ value of exterior LPA _____ W * List any exemptions that apply:	☐ YES ☐ N/A

* Calculation worksheet (FORM 9.4-3) is required.

SECTION 9.5 LIGHTING – INSTALLED LIGHTING POWER PRESCRIPTIVE COMPLIANCE		Form 9.5-1
Prescriptive Requirements – Complete if not using Energy Cost Budget Method		
Reference		Standard Compliance
9.5 9.6	9.5 INTERIOR LIGHTING POWER ALLOWANCE BY BUILDING TYPE Calculation of Interior Lighting Power Allowance (ILPA) by Building Type based on Table SB 9.5.1–2017 * Building Type _____ Gross Lighted Area _____ m² Lighting Power Density _____ W/m² Total Installed Interior Lighting Power _____ W ≤ value of Interior LPA _____ W *	☐ YES ☐ N/A
	9.6 INTERIOR LIGHTING POWER ALLOWANCE BY SPACE FUNCTION Calculation of Interior Lighting Power Allowance (ILPA) for each space based on Table SB 9.6.1–2017 * Total Installed Interior Lighting Power _____ W ≤ value of Interior LPA _____ W * List any exemptions that apply:	☐ YES ☐ N/A

* Calculation worksheet (FORM 9.5-2) is required.

ASHRAE 90.1 & SB-10 - SECTION 9 – LIGHTING COMPLIANCE WORKSHEET
FORM 9.4-3

Project:

Designer Name:

Exterior Building Lighting Power Allowance - refer to Table SB 9.4.2-2-2017

Location / Application	Allowance	Area or Length (m ² or m)	Tradable Power Allowance
Exterior Lighting Zone		Base Site Allowance	
Tradable Power Allowance			

Exterior Installed Lighting Power

ID	Luminaire description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Number of Luminaires	Watts/Luminaire	Total Watts
Total Exterior Lighting Power				

* If additional space is required to provide further information, please attach a separate sheet(s) of paper.

** If trade-offs or exceptions are used attach calculations.

ASHRAE 90.1 & SB-10 - SECTION 9 – LIGHTING COMPLIANCE WORKSHEET
FORM 9.5-2

Project:

Designer Name:

Interior Power Allowance (Building Area Method) -refer to Table SB 9.5.1–2017

Building Type	Lighting Power Density Allowance (W/m ²)	Gross Lighted Floor Area (m ²)	Lighting Power Allowance (W) (LPD×GLFA)
Total Power Allowance			

Interior Lighting Power Allowance (Space by Space Method) - refer to Table SB 9.6.1–2017

Building Type	Common/Specific Space Type	Lighting Power Density Allowance (W/m ²)	Space Area (m ²)	Lighting Power Allowance (W)
Total Power Allowance				

Interior Connected Lighting Power

Space ID	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Number of Luminaires	Watts/ Luminaire	Total Watts
Total Interior Lighting Power				

* If additional space is required to provide further information, please attach a separate sheet(s) of paper.

** If additional interior lighting power, trade-offs or exceptions are used attach calculations.

SECTION 10 OTHER EQUIPMENT - MANDATORY PROVISIONS		Form 10.4
Reference	Item	Standard Compliance
10.4.1	Electric motors are in compliance with Table SB-10 Table 10.4.1.A where applicable; otherwise, they comply with ASHRAE 90.1-2013 Tables 10.8-1, 10.8-2, 10.8-3 and 10.8-6, as applicable.	☐ YES
10.4.2	Service water pressure booster pumps have pressure sensors to vary pump speed and/or start and stop pumps.	☐ YES ☐ N/A
	No devices are installed to reduce the pressure of all of the water supplied by any booster system or pump, except for safety devices.	☐ YES ☐ N/A
	Booster pumps shut off when there is no service water flow.	☐ YES ☐ N/A
10.4.3	All elevator cab lighting systems have efficacy of not less than 35 lumens per Watt.	☐ YES ☐ N/A
	Elevator cab ventilation fans for elevators without air conditioning consume less than 0.7 W·s/L at maximum speed.	☐ YES ☐ N/A
	Cab interior light and ventilation is de-energized when elevators are stopped and unoccupied with doors closed for over 15 minutes.	☐ YES ☐ N/A
10.4.4	Escalators and moving walks automatically slow to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ YES ☐ N/A
10.4.5	The building is designed to facilitate future installation of means to measure and monitor energy use by each energy type described in Section 10.4.5.1, per SB-10 10.4.5.3.	☐ YES ☐ N/A

Project:		Designer Name:				
Occupancies ☐ Assembly ☐ Health/Institutional ☐ Hotel/Motel ☐ Light Manufacturing ☐ Multifamily ☐ Office ☐ Restaurant ☐ Retail ☐ School ☐ Warehouse ☐ Other Total	Floor Area 	Annual Consumption Summary⁽¹⁾		Reference Building Energy	Proposed Building Energy	Units
		Space Heating				
		Space Cooling				
		HVAC Fans				
		Pumps				
		Service Hot Water				
		Interior Lighting				
		Other				
		Other				
		Total Annual Energy				
Total Annual Energy Cost		\$	>	\$		
Total Annual CO2e Emissions			>			
Peak Electric Demand*			>			
*OR Building components specified in SB-10 Division 3 Chapter 1 Clause 1.1.2.3(5) comply with the prescriptive requirements of ASHRAE 90.1-2013 ☐ YES Reference and Proposed Building Energy Consumptions are calculated by: Please specify modelling software: _____						
HVAC System Descriptions		Energy Efficiency Features in Proposed Building Design ⁽²⁾				
Reference Building Design						
Proposed Building Design						
Building is in compliance with mandatory requirements of sections 5.4, 6.4, 7.4, 8.4, 9.4, and 10.4.		☐ YES				

Compliance Result

The design detailed in the above referenced plans complies with the mandatory requirements of the ASHRAE 90.1-2013 Standard and the additional requirements of Supplementary Standard SB-10. The calculated proposed building energy cost (design energy cost), CO₂ emissions and peak electric demand do not exceed the calculated reference building energy cost (energy cost budget) CO₂ emissions and peak electric demand. Therefore, this design **DOES COMPLY** with the ASHRAE 90.1-2013 ECB compliance methodology and the additional requirements of Supplementary Standard SB-10.

Individual certifying authenticity of the data provided in this analysis:

Signature:	Name/Title:
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Notes: (1) Verify with building official whether full modelling report is required to be submitted
(2) Explain major energy saving features utilized to achieve modelled savings