Schedule 1: Designer Information

unicipality Hamilton Ontario Individual who reviews and takes rame Eric Canton reet address 17 King Street unicipality Dundas elephone number 905) 481 1153 Design activities undertaken by indivision CJ House Small Buildings	Postal code East Postal code L9H 1B7 Fax number (905) 481	Province Ontario 1 3643 led in Section B. [Building	Unit no. 205 E-mail eric@ Cell number ()	Lot/con.	
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Design activities undertaken by inc vision C] House	dividual identifi	ed in Section B. [Building	Code Table 3.5.2	1 of	
vision C] A House			Code Table 3.3.2.		
■ House	D HVAC			12.01	
		- House	Building S	Structural	
THE STREET PROPERTY OF THE STREET		ding Services Plumbing - House			
□ Large Buildings				mbing - All Buildings	
Complex Buildings	☐ Fire P	Protection		sewage Systems	
escription of designer's work		DWELLING.			
Eric Canto	on		declare that (choose	one as appropriate	
(print n	iame)				
I review and take responsibil C, of the Building Code. I ar Individual BCIN:	m qualified, and the	work on behalf of a firm reg the firm is registered, in the a	gistered under subse appropriate classes/c	ection 3.2.4.of Divisi categories.	
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FIRM BCIN:					
I review and take responsibil under subsection 3.2.5 of D Individual BCIN:	vivision C, of the b	ouilding Code.	ropriate category as	an "other designe	
I review and take responsibil under subsection 3.2.5 of D Individual BCIN: Basis for exemption from	wivision C, of the b m registration:	ouilding Code.			
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C, of the Building Code. I ar Individual BCIN:	m qualified, and the 25135	work on behalf of a firm reg he firm is registered, in the a	gistered under subse appropriate classes/c	ction 3.2.4.of Divategories.	

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, issues 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 (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 precriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where 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%.

		With the Control of the Control	For use by Prin	ncipal Authority			
Application No:				Model/Certification Number			
A DESCRIPTION OF THE PARTY OF THE PARTY	errete manife						12.11(1.18 <u>)</u>
A. Project Information					Unit number	Lot/Con	
Building number, street name 970 Be	ach Blv	rd.					
Municipality Hamilton Ontario	0	Postal Cod	le	Reg. Plan number / other desc	cription		
B. Prescriptive Complian	Contraction (Contraction)			liance option being emplo			
☑ SB-12 Perspective (inp	out desig	in package): Package:	A1	Table: 3.1.1.2	A (IP)	
C. Project Design Cond	itions						
Climactic Zone (SB-1)	g Equipment Efficiency		Space Heating Fu	Space Heating Fuel Source			
Zone 1 (< 5000 degree days)	_ ≥ 92	≥ 92% AFUE		□ Gas	□ Propane		lid Fuel
☐ Zone 2 (≥ 5000 degree days)		1% < 92% AF		Oil	□ Electric	□ Ea	rth Energy
Ratio of Windows, Skylights & G	ilass (W, S	6 & G) to Wal	Area	Other Building Co		de nic	Basement
Area of walls = 2927.13 SQ. F	T v	N, S & G % =	9.66 %	□ Log/Post&Beam □ Slab-on-ground □ Air Conditioning	□ Walkout Basen □ Combo Unit		basement
Area of W, S & G = 235.85 SQ. F	Utilize v	vindow avera	ging: 🗖 Yes 🗖	No Ground Sourced	at Pump (ASHP) I Heat Pump (GSHP)		
D. Building Specification	IS [prov	vide values and	ratings of the	energy efficiency compon	ents proposed, or attach	Energy Star	BOP form]
Energy Efficiency Subs							
□ ICF (3.1.1.2.(5) & (6) / 3.1.1.							
■ Combined space heating and	domestic	water heating	systems (3.1	1.1.2.(7) / 3.1.1.3.(7))			
■ Airtightness substitution(s)	rtightness substitution(s) Table 3.1.1.4.B Required:		Required:	Permitted Substitution:			
Airtightness test required							
(Refer to Design Guide Attached)	• rable	3.1.1.4.C R	Required:		remitted Substitution		
			Required:	B. d -+ C	Permitted Substitution		n. Datings
Building Component	- Process	Minimum RS	Required: SI / R values m U value ⁽¹⁾	Building Cor	Permitted Substitution mponent		cy Ratings
Building Component Thermal Insulation		Minimum RS	SI / R values			Efficience	
		Minimum RS or Maximur	o I / R values on U value ⁽¹⁾		Provide U-Value ⁽¹⁾ in W/m ²	Efficience	
Thermal Insulation		Minimum RS or Maximur Nominal	o I / R values on U value ⁽¹⁾	Windows & Doors	mponent Provide U-Value ⁽¹⁾ in W/m ² s Doors	Efficience 2.K, or ER ratio	9
Thermal Insulation Ceiling with Attic Space	19 14 CT	Minimum RS or Maximur Nominal R60	o I / R values on U value ⁽¹⁾	Windows & Doors Windows/Sliding Glass	mponent Provide U-Value ⁽¹⁾ in W/m ² s Doors	Efficience	9 25er 49
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space		or Maximur Nominal R60	o I / R values on U value ⁽¹⁾	Windows & Doors Windows/Sliding Glass Skylights/Glazed Roof	Provide U-Value ⁽¹⁾ in W/m ² s Doors s	Efficience	9 25er
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor		or Maximur Nominal R60 R31	o I / R values on U value ⁽¹⁾	Windows & Doors Windows/Sliding Glass Skylights/Glazed Roof Mechanicals Heating Equip. (AFUE	Provide U-Value ⁽¹⁾ in W/m ² s Doors s	Efficience	9 25er 49
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade		Minimum RS or Maximur Nominal R60 R31 R31 R22	o I / R values on U value ⁽¹⁾	Windows & Doors Windows/Sliding Glass Skylights/Glazed Roof Mechanicals Heating Equip. (AFUE	Provide U-Value ⁽¹⁾ in W/m ² s Doors s or condensing type)	*.K, or ER ratin	9 25er 49 96% 75%
Thermal Insulation Ceiling with Attic Space Ceiling without Attic Space Exposed Floor Walls Above Grade Basement Walls	grade)	or Maximur Nominal R60 R31 R31 R22 R20 ci	o I / R values on U value ⁽¹⁾	Windows & Doors Windows/Sliding Glass Skylights/Glazed Roof Mechanicals Heating Equip. (AFUE HRV Efficiency (SRE	Provide U-Value ⁽¹⁾ in W/m ² is Doors is or condensing type) % at 0°C)	*.K, or ER ratin	9 25er 49 96% 75%

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Signature

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

Eric Canton

Virtual Creations Inc

Name

Sizing of Water Service Pipe

Size and capacity of potable water system pipe shall be designed in accordance with 7.6.3.1.of Division B, of the Ontario Building Code (OBC). Where both hot and cold water is supplied to fixtures in residential buildings containing one or two dwelling units, the water system may be sized with tables in Part 1 and Part 2 of this form, provided, the minimum water pressure at the entry to the building is not 200 kPa, the total maximum length of the water system is 90 m, and the hydraulic loads for maximum separate demands on water distribution system piping are not less than 100% of the total hydraulic load of the fixture units given in OBC Division B, Tables 7.6.3.2.A., 7.6.3.2.B., 7.6.3.2.C., and 7.6.3.2.D. for private use.

970 Beach Blvd. Date: 2017-05-16

Part 1 - Hydraulic Load, Fixture Unit Calculation

nodification of OSC, Table 7.6.3.2.A.)

Item	Fixture or Device	Minimum Size of Supply Pipe, (inches)	Private Use Hydraulic Load, (Fixture units)	Quantity	Total Hydraulic Load (Fixture units x Quantity)
1	Bathroom group* with 6 LPF flush tank	N/A	3.6	2	7.2
2	Bathroom group* with greater than 6 LPF flush	N/A	6		
3	Bathtub with or without shower head	1/2	1.4	2 2.8	
4	Clothes washer	1/2	1.4		
5	Dishwasher, domestic	3/8	1.4		
6	Hose bibb (1/2")	1/2	2.5	2	5
7	Lavatory	3/8	0.7	2	1.4
	Shower head	1/2	1.4		
	Shower, spray, multi-head, fixture unit per head	**	1.4		
10	Sink, bar	3/8	1		
11	Sink, kitchen, domestic	3/8	1.4		1.4
12	Sink, laundry (1 or 2 compartments)	3/8	1.4	1	1.4
13	Water closet, 6 LPF or less with flush tank	3/8	2.2	1	2.2
16	Other:				

Total Hydraulic Load:

Bathroom group means a group of plumbing fixtures installed in the same room, consisting of one domestic-type lavatory, one water closet and either one ½ inch size bathtub, with or without a shower, or one ½ inch size one-headed shower. For additional fixtures in the same room add the additional fixture to the appropriate fixture count.

** Refer to manufacturer's recommendations.

Part 2 - Sizing of Water Service Pipe

nodification of OBC, Table 7.6.3.4.)

		Water Velocity, m/s				
Item	Size of Water Pipe	2.4 (copper piping, cold water)	Other Pipe Material*, specify:			
		Hydraulic Load, (Fixture Units)				
i	1/2"	Up to 7				
2	3/4"	7.1 - 16				
3	1"	16.1 - 31	21.4			
4	1-1/4"	31.1 - 57				

^{*} If a water velocity of other than 2.4 m/s is proposed (i.e. other than copper piping), provide documentation showing maximum permitted water velocity with maximum hydraulic loads for each water pipe size as recommended by the pipe and fitting manufacturer

Part 3 - Design of Water Service Pipe

Total Hydraulic Load (fixture units): 21.4

Water Service Pipe size (inches): 1"

Water Meter Size

3/4 Water Service Pipe = 5/8" (16 mm) Water Meter 1" Water Service Pipe = 3/4" (20 mm) Water Meter 1-1/4" Water Service Pipe = 1" (25 mm) Water Meter

Designer Information

Virtual Creations Inc

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