

R.M. of Pense No. 160

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R.M. of Pense No. 160, Saskatchewan

APPLICATION FOR BUILDING PERMIT

I hereby make application for a permit to _____ construct
_____ alter a building according to
_____ reconstruct
the information below and to the plans and documents attached to this application.

Civic address or location of work _____
Legal description - Lot _____ Block _____ Plan _____
Owner _____ **Address** _____
Telephone _____ **Fax** _____ **Email** _____
Designer _____ Address _____ Telephone _____
Contractor _____ Address _____ Telephone _____
Nature of work _____
Intended use of building _____
Size of building _____ Length _____ Width _____ Height _____
Number of storeys _____ Fire escapes _____
Number of stairways _____ Width of stairway _____
Number of exits _____ Width of exits _____

Foundation Soil Classification and Type

Footings _____	Material _____	Size _____
Foundations _____	Material _____	Size _____
Exterior Walls _____	Material _____	Size _____
Roof _____	Material _____	Size _____
Studs _____	Material _____	Spacing _____
Floor Joists _____	Material _____	Spacing _____
Girders _____	Material _____	Spacing _____
Rafters _____	Material _____	Spacing _____
Chimneys _____	Number _____	Size _____
Heating _____	Material _____	Thickness _____
	Lighting _____	Plumbing _____

Estimated value of construction (excluding site) \$ _____
Building area (area of largest storey) _____ square metres
Fee for building permit \$ _____

I hereby agree to comply with the Building Bylaw of the local authority and acknowledge that it is my responsibility to ensure compliance with the Building Bylaw of the local authority and with any other applicable bylaws, acts and regulations regardless of any plan review or inspections that may or may not be carried out by the local authority or its authorized representative.

Date

Signature of Owner or Owner's Agent

- Force Air Equipment** **Radiant** **No Combustion**
(Subsection 9.32.3. NBC 2020)

- Carbon Monoxide Alarms**
(Article 9.32.3.9; see also the [Government of Saskatchewan advisory](#))

Conditions:

- Is spillage susceptible equipment present in house? Yes No
- Is solid fuel equipment present in house? Yes No
- Is soil gas a problem & no mitigation system present? Yes No
- Are carbon monoxide alarms required?
(Article 9.32.3.9; see also the [Government of Saskatchewan advisory](#)) Yes No

If you answered “**No**” to all of the above, you **can** select any type of ventilation system.

If you answered “**Yes**” to one of more, you **cannot** have an exhaust only system.

Type of Ventilation System Designed: (choose type for use under this permit)

- A** Ventilation coupled with forced air, ventilation supply air and supplemental fans.
(Mixed-air calculation as per Table 9.32.3.4.(2) NBC 2020)
- B** Ventilation coupled with forced air, heat recovery (HRV) ventilation supply air and supplemental fans.
- C** Ventilation not coupled with forced air, with ventilation supply air and supplemental fans.
(May require heating of supply air)
- D** Ventilation not coupled with forced air, heat recovery (HRV) ventilation supply air and supplemental fans.
- E** Dual capacity ventilation coupled with forced air ventilation supply air and no supplemental fans – no HRV. (Mixed-air calculation as per Table 9.32.3.4.(2) NBC 2020)
- F** Ventilation coupled with forced air, heat recovery (HRV) ventilation supply air and no supplemental fans HRV must be capable of 2.5 times the principal fan speed and have a pick- up in kitchen. Grease filter required if within 10 feet of stove, switch to turn on HRV to high speed in kitchen.
- G** Exhaust only ventilation no ventilation supply air requires a forced air circulation system either stand alone or blower on forced air system. This system cannot be used if house has solid fuel, spillage susceptible appliances or soil gas problems. (Article 9.32.3.6. NBC 2020)
- H** System designed to CSA F-326 and any house with six bedrooms or more. (Clause 9.32.3.1.(1)(a) NBC 2020)

Principal Ventilation System Information:

Number of bedrooms: _____

Principal fan exhaust speed range: _____ to _____

- One: 32-48 cfm
- Two: 36-56 cfm
- Three: 44-64 cfm
- Four: 52-76 cfm
- Five: 60-92 cfm
- Six bedrooms and over is required to comply with System K (Article 9.32.3.3. and Table 9.32.3.3. NBC 2020)

Principal Ventilation System Exhaust Information:

Manufacturer/Model: _____

Principal fan exhaust speed range: _____ cfm low/cfm high _____

System F high ventilation rate 2.5 times: _____

Principal Ventilation Supply Information: (choose type for use under this permit)

- Supply side of HRV balanced within 10% (Systems B,D,F)
- Fresh air to furnace sized and mixed air circulation (Table 9.32.3.11.-A & Table 9.32.3.11.-B NBC 2020)
- Exhaust only with circulation system (System G)

Supplemental Fans Information:

Bathroom HRV provided: Yes No

Bathroom fan (50 cfm minimum) manufacturer/model: _____

Kitchen range hood or exhaust fan (100 cfm minimum) with grease filter when required: Yes No

Manufacturer/Model: _____ HVI

HRV provided with grease filter if within 3 m of cooktop (Article 9.32.3.11. NBC 2020) Yes No

Makeup Air Information:

Is spillage susceptible equipment being installed/present (Sentences 9.32.3.8.(2)-(8) NBC 2020): Yes No
If "Yes", the manufacturer/model is required

Manufacturer/Model: _____

Other Exhaust Devices Information:

Dryer cfm: _____

Other: _____ Manufacturer/Model: _____

Mixed Air Required (Calculations as per Table 9.32.3.4. NBC 2020) Yes NoThe system is designed to Subsection 9.32. NBC 2020: Yes No

- Duct work to be set out in Tables 9.32.3.11.-A & 9.32.3.11.-B or HRAI ventilation digests
- HRV Balancing is required within 10% and results visually posted on HRV unit

Property Information:

Owner/Project Name: _____

Project Address/Land Location: _____

Municipality: _____

Mechanical Contractor Information:

Company Name: _____

Address: _____

Phone: _____

Email: _____

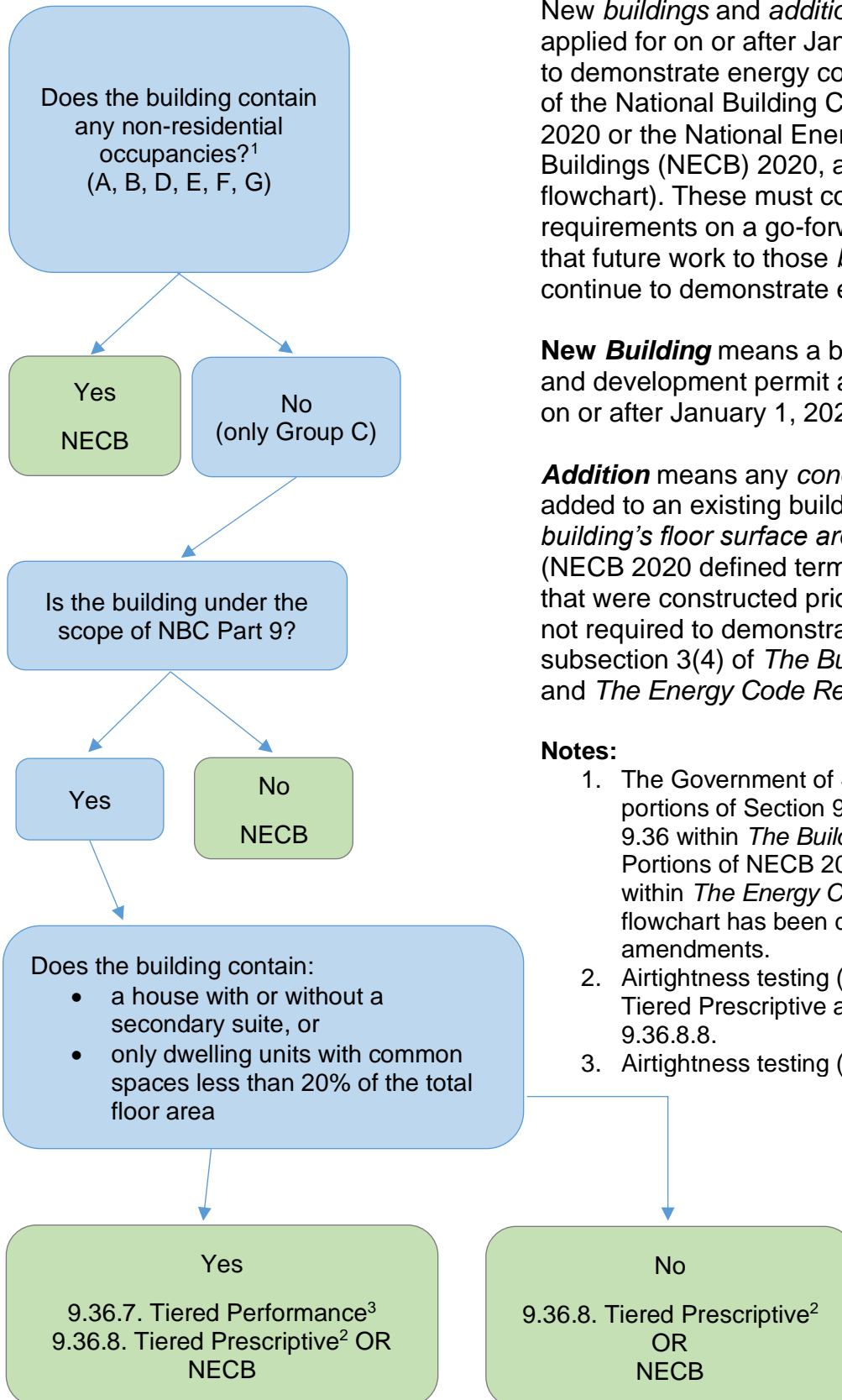
Designer: _____ HRAI Number (if applicable): _____

Please attach any designs to this summary if applicable.

Date: _____

Name: _____

Signature: _____



New *buildings* and *additions* where permits are applied for on or after January 1, 2024, are required to demonstrate energy compliance to Section 9.36. of the National Building Code of Canada (NBC) 2020 or the National Energy Code of Canada for Buildings (NECB) 2020, as applicable (see flowchart). These must continue to meet energy requirements on a go-forward basis. This means that future work to those *buildings* or *additions* must continue to demonstrate energy compliance.

New Building means a building for which a building and development permit application was submitted on or after January 1, 2024.

Addition means any *conditioned space* that is added to an existing building and that increases the *building's floor surface area* by more than 10 m² (NECB 2020 defined term). Additions to buildings that were constructed prior to January 1, 2019, are not required to demonstrate energy compliance (see subsection 3(4) of *The Building Code Regulations* and *The Energy Code Regulations*).

Notes:

1. The Government of Saskatchewan has amended portions of Section 9.36. of the NBC 2020 Section 9.36 within *The Building Code Regulations*. Portions of NECB 2020 have also been amended within *The Energy Code Regulations*. This flowchart has been developed to align with those amendments.
2. Airtightness testing (blower door) required when Tiered Prescriptive achieves points through Table 9.36.8.8.
3. Airtightness testing (blower door) required when

Complete this form when the chosen energy efficiency design compliance path requires a verified post construction airtightness test:

- Tiered Prescriptive Path achieves points through Table 9.36.8.8., or
- Tiered Performance Path has an air-leakage rate of less than 3.2 ACH@50 Pa.

Building Address/Land Location	
Municipality	
Owner's Name	

Airtightness Declaration:

Input Parameters:	Reference Value	Proposed Value	Actual
Airtightness (air changes per hour @ 50 Pa)			
Airtightness Design Units (check one)	<input type="checkbox"/> ACH ₅₀	<input type="checkbox"/> NLA ₁₀	<input type="checkbox"/> NLR ₅₀
Zone Method (check one)	<input type="checkbox"/> Guarded	<input type="checkbox"/> Unguarded	
Airtightness Performer information:			
Name:	Company:		
Phone:	Email:		

I certify that I am knowledgeable, experienced, and trained in the airtightness testing equipment and methodology. Testing has been completed in accordance with CAN/CGSB-149.10-M and meets or exceeds the expected results of the proposed model or design.

Signature: _____ Date: _____

This form is intended to clarify the compliance with Section 9.36. Tier 2 Performance Path.

Must be completed by a competent person who is knowledgeable, experienced, and trained in building design under Section 9.36 of the NBC and acceptable to the Authority Having Jurisdiction.

Building Address/Land Location	
Municipality	
Owner's Name	
Conditioned Space Volume (m³)	

Performance Compliance Path 9.36.5. & 9.36.7.

Available only to houses with or without secondary suites, buildings that contain only dwelling units and common spaces whose total floor area does not exceed 20% of the total floor area of the building.

Input parameters (not required for EnerGuide compliance)		Reference Model	Proposed Model
Airtightness Level (air exchanges per hour @ 50 Pa)			
Heat Loss/Heat Gain			
HRV efficiency			
Thermal mass (MJ/m ² •°C)			
Ventilation rate (l/s)			
Fenestration and door to wall ratio (FDWR) – reference (%)			
Direction of front elevation (clearly circle one)		N NE E SE S SW W NW	N NE E SE S SW W NW
Area of windows and doors	Front elevation (m ²)		
	Rear elevation (m ²)		
	Left elevation (m ²)		
	Right elevation (m ²)		
	Total area of windows (m ²)		
Total area of opaque doors (m ²)			
Energy use (GJ)			
Software Information			
Software Title		Version	
Is software Hot2000 or ANSI/ASHRAE 140 compliant? Modelling summary reports generated for both the reference and proposed houses are required to be attached.			Yes No

Compliance via Tiered Performance Results (9.36.7.)

Energy Performance Metrics (not required for Energuide Compliance)	Reference Model	Proposed Model	Target Energy Performance
Total volume of conditioned space within the building or house > 300m³ and where volume is not determined			
Percent heat loss reduction (Required: ≥ 5%) (calculated by subtracting the annual gross space heat loss of the proposed house from the annual gross space heat loss of the reference house and dividing the result by annual gross space heat loss of the reference house)			Achieved:

Percent improvement (Required: ≥ 10%) (calculated by subtracting the annual energy consumption of the proposed house from the house energy target of the reference house and dividing the result by the house energy target of the reference house), <i>or</i>			Achieved:
			or
Percent house energy target (Required: ≤ 90%) (calculated by dividing the annual energy consumption of the proposed house by the house energy target of the reference house)			Achieved:
Peak cooling load (≤ reference house)			<input type="checkbox"/> Yes <input type="checkbox"/> No
Total volume of conditioned space within the building or house ≤ 300m³ and where volume is not determined			
Percent house energy target (Required: ≤ 100%) (calculated by dividing the annual energy consumption of the proposed house by the house energy target of the reference house)			Achieved:

Declaration			
Name		Company	
Email		Phone	
<p><i>I hereby certify that the design parameters and/or calculations submitted were prepared in full accordance with the operation procedures of the software and:</i></p> <p><input type="checkbox"/> <i>Subsection 9.36.5 of the 2020 NBC.</i></p> <p><input type="checkbox"/> <i>Alternative Solution (attach supporting documents)</i></p> <p><input type="checkbox"/> <i>EnerGuide Rating System, v15. I am a qualified Energy Advisor and the submitted design achieves the minimum 10% annual energy improvement target of 2020 NBC, Tier 2. (a compliance summary will be submitted prior to full occupancy)</i></p> <p><i>Signature: _____ Date: _____</i></p>			

Where the air-leakage rate is a value less than 3.2 ACH@50 Pa, an airtightness test is required to be conducted. Provide the Airtightness Certificate to *MuniCode Services Ltd.* (service@municode.ca) once complete but required prior to occupancy.

This form is intended to clarify the compliance with Section 9.36. Tier 2 Prescriptive Path. Available only to houses with or without secondary suites, buildings that contain only dwelling units and common spaces whose total floor area does not exceed 20% of the total floor area of the building.

Must be completed by a competent person who is knowledgeable, experienced, and trained in building design under Section 9.36 of the NBC and acceptable to the Authority Having Jurisdiction.

Building Address/Land Location	
Municipality	
Owner's Name	
Conditioned Space Volume (m³)	

Prescriptive Compliance Calculations and Information (9.36.2. – 9.36.4.)

All calculations and specifications must be attached to this form to be considered complete and be accepted for review.

HRV / ERV: Yes No

<u>Conversions:</u>	
R = 5.678 x RSI	U = 1 / RSI

Effective Thermal Resistance of Above Ground Opaque Building Assemblies (RSI)			
Assembly	w/ HRV	w/o HRV	Proposed
Ceilings below attics	8.67	10.43	
Cathedral / Flat roofs	5.02	5.02	
Walls & Rim joists	2.97	3.08	
Floors over unheated spaces	5.02		
Floors within garage	4.86		
Thermal Characteristics of Fenestration, Doors and Skylights (U)			
Assembly	Efficiency		Proposed
Windows & Doors	Maximum U-Value 1.61 or Minimum Energy Rating \geq 25		
One door exception	Maximum U-Value 2.60		
Attic hatch	Minimum RSI _{nom} 2.60		
Skylights	Maximum U-Value 2.75		
Effective Thermal Resistance of Below-Grade or In-Contact-With-Ground Opaque Buildings Assemblies (RSI)			
Assembly	w/ HRV	w/o HRV	Proposed
Foundation Walls	2.98	3.46	
Slab On Grade With Integral Footing	2.84	3.72	
Unheated Floor Below Frost Line	uninsulated	uninsulated	
Unheated Floor Above Frost Line	1.96	1.96	
Heated Floors	2.84	2.84	

Trade Off (9.36.2.11.): Yes No

Should trade off be proposed, all calculations must be attached to this form to be considered complete and be accepted for review. The location and extent of assemblies used in the calculations shall be clearly identified on the drawings by hatch or note.

HVAC Equipment Performance Requirements				
Equipment	Capacity KW	Standard	Min. Efficiency	Proposed
Electric Heat Pump (split & single package)	≥ 19	See Tables 5.2.12.1.-A to -P of Division B of the NECB		
Gas Fired Furnace w or w/o A/C	≤ 66 using single-phase electric current	CAN/CSA-P.2	AFUE ≥ 95% and must be equipped with a high-efficiency constant torque or constant airflow fan motor	
	≤ 66, through the wall furnace		E _t ≥ 78.5% AFUE ≥ 90%	
	≤ 66 using three-phase electric current	ANSI Z21.47/CSA 2.3	AFUE ≥ 78% or E _t ≥ 80%	
	> 66 and ≤ 117.23		E _t ≥ 80%	
Electric Boiler	< 88	(1)		
Gas Fired Boiler	< 88	CAN/SCA-P.2	AFUE ≥ 90%	
	≥ 88 & < 733	ANSI/AHRI 1500 or DOE 10 CFR, Part 431, Subpart E, Appendix A	E _t ≥ 83%	
Other				
Heat Loss/Heat Gain Calculation	<input type="checkbox"/> Calculations were prepared in conformance with CSA F280-12			BTU
Nomenclature	AFUE= annual fuel utilization efficiency, E _t = thermal efficiency			
Water Heaters Performance Requirements				
Equipment	Capacity KW	Standard	Min. Efficiency	Proposed
Tank Storage Electric	≤ 12 kW (>50 L to ≤ 270 L capacity)	CAN/CSA-C191	SL ≤ 35 + 0.20V (top inlet)	
			SL ≤ 40 + 0.20V (bottom inlet)	
	≤ 12 kW (>270 L to ≤ 454 L capacity)		SL ≤ (0.472V) - 38.5 (top inlet)	
	SL ≤ (0.472V) - 33.5 (bottom inlet)			
>12 kW	ANSI Z21.10.3/CSA 4.3 or DOE 10 CFR, Part 431, Subpart G App B	SL ≤ 0.30 + (102.2 V _s)		
Tank Storage Gas Fired	≤ 22 kW and first-hour rating < 68 L	CAN/CSA-P.3	UEF ≥ 0.3456 – (0.00053 V _s)	
	≤ 22 kW and first-hour rating ≥ 68 L but < 193 L		UEF ≥ 0.5982 – (0.00050 V _s)	
	≤ 22 kW and first-hour rating ≥ 193 L but < 284 L		UEF ≥ 0.6483 – (0.00045 V _s)	
	≤ 22 kW and first-hour rating ≥ 284 L		UEF ≥ 0.6920 – (0.00034 V _s)	
	> 22 kW but ≤ 30.5kW and V _r < 454 L		UEF ≥ 0.8107 – (0.00021 V _s)	
	> 22 kW	DOE 10 CFR, Part 431, Subpart G, Appendix A	E _t ≥ 90% and SL ≤ 0.84 [(1.25 Q) + (16.57 √V _r)]	

Tankless Gas Fired	< 58.56 kW, $V_r \leq 7.6$ L and max. flow rate < 6.4 L/min	CAN/CSA-P.3	UEF ≥ 0.86	
	< 58.56 kW, $V_r \leq 7.6$ L and max. flow rate ≥ 6.4 L/min		UEF ≥ 0.87	
	≥ 58.56 kW, $V_r \leq 37.85$ L and input rate to V_r ratio ≥ 309 W/L	DOE 10 CFR, Part 431, Subpart G, Appendix C	$E_t \geq 94\%$	
Tankless, Electric	No standard addresses the performance efficiency; however, their efficiency typically approaches 100%			
Other				
Nomenclature	EF = energy factor difference Q = nameplate input rate, in kW V_r = rated nominal storage volume, in L E_t = thermal efficiency with a 38.9°C (70°F) water temp difference SL = standby loss, in W V_s = measured storage volume, in L			

(1) Must be equipped with automatic water temperature control. No standard addresses the performance efficiency; however their efficiency typically approaches 100%

Tiered Prescriptive Results (9.36.8.)

Energy Performance Measures	Minimum Energy Conservation Points (Zone 7A)
Above-Ground Walls	
Fenestration and Doors	
Below-Grade or In Contact with Ground	
Airtightness	
Ventilation Systems	
Service Water Heating Equipment	
Building Volume	
Total Energy Conservation Points Achieved: (Tier 2 requires at least 10 points)	

Where points are achieved through Table 9.36.8.8., an airtightness test is required to be conducted. Provide the Airtightness Certificate to *MuniCode Services Ltd.* (service@municode.ca) once complete but required prior to occupancy.

File Number _____

Date (YY MM DD) _____

To: _____

Municipality Name

Re: _____

Name of Project

Description of Project

Civic Address or Land Location of Project Site

Section A: Letter of Commitment

The undersigned hereby undertakes to be responsible for design and field reviews of the following components by confirming, through documentation, that any registered professionals delegated design and field reviews are competent to perform their responsibilities. **(initial items listed below that apply to this registered professional)**

National Building Code of Canada & National Plumbing Code of Canada

Architecture Structural Engineering Mechanical Engineering

Electrical Engineering Geotechnical Engineering Alternative solution

National Energy Code of Canada for Buildings

Part 3 Part 4 Part 5

Part 6 Part 7 Part 8

Other (specify)

The undersigned also undertakes to notify the authority having jurisdiction in writing as soon as possible if the undersigned's contract for field review is terminated at any time during construction.

I certify that I am an architect or engineer, as defined in *The Construction Codes Act*, and am licensed to practice in Saskatchewan.

(Affix Professional Seal Below)

Professional's Name & Discipline (Print)

Company Name (If the registered professional is a member of a firm)

Address (Mail, City/Town, Province, Postal Code)

Phone Email

Signature of Registered Professional Date

Section B: Field Review

I hereby give assurance that:

- a) I have fulfilled my obligations for field review as initialed in Section A:
 - i. Subsection 15(1) of *The Building Code Regulations*, and/or
 - ii. Section 6 of *The Energy Code Regulations*,
- b) Those components initialed in Section A substantially comply with the plans and supporting documents submitted in support of the application for the building permit; and as modified by subsequent site instruction and/or change orders; and
- c) I certify that I am an architect or engineer, as defined in *The Construction Codes Act*, and am licensed to practice in Saskatchewan.

(Affix Professional Seal Below)

Professional's Name & Discipline (Print)

Company Name (If the registered professional is a member of a firm)

Signature of Registered Professional Date

Comments or Occupancy limitations

Note: The above letters must be signed by a registered professional. An Architect or Engineer is defined as:

- a) a person who is registered or licensed to practice as a professional engineer under *The Engineering and Geoscience Professions Act*, or
- b) a person who is registered or licensed to practice as an architect under *The Architects Act*.

Municipality	ZONE	HDD		FDWR		FDD	Frost Depth		Meet Fire Response Time?
		18	15	18	15		(m)	(in)	
City of Estevan	7A	5380	4450	30.8	37.0	1448	2.35	93	Yes
City of Humboldt	7B	6000	5080	26.7	32.8	1841	2.85	112	Yes
City of Melfort	7B	6050	5130	26.3	32.5	1866	2.85	112	Yes
City of Melville	7A	5880	4970	27.5	33.5	1713	2.60	102	Yes
City of Moose Jaw	7A	5270	4390	31.5	37.4	1333	2.25	89	Yes
City of Warman	7A	5700	4800	28.7	34.7	1525	2.35	93	No
District of Lakeland	7B	6100	5180	26.0	32.1	1898	2.90	114	No
R.M. of Cana No. 214	7A	5840	4929	27.7	33.8	1714	2.60	102	No
R.M. of Corman Park No. 344	7A	5700	4800	28.7	34.7	1525	2.35	93	No - Some Areas Yes
R.M. of Coteau No. 255	7A	5311	4432	31.3	37.1	1379	2.30	91	No - Some Areas Yes
R.M. of Enniskillen No. 3	7A	5431	4542	30.5	36.4	1503	2.35	93	Yes
R.M. of Estevan No. 5	7A	5380	4450	30.8	37.0	1448	2.35	93	No
R.M. of Grassy Creek No. 78	6	4846	3967	34.4	40.2	1065	2.35	93	No
R.M. of Humboldt No. 370	7B	6000	5080	26.7	32.8	1841	2.85	112	No
R.M. of LeRoy No. 339	7A	5941	5025	27.1	33.2	1811	2.75	108	No
R.M. of Loreburn No. 254	7A	5311	4432	31.3	37.1	1379	2.30	91	No - Some Areas Yes
R.M. of Moose Jaw No. 161	7A	5270	4390	31.5	37.4	1333	2.25	89	No
R.M. of Moosomin No. 121	7A	5690	4490	28.7	36.7	1593	2.40	94	Yes
R.M. of Pense No. 160	7A	5440	4550	30.4	36.3	1453	2.35	93	No
R.M. of Prairie Rose No. 309	7A	5851	4941	27.7	33.7	1743	2.70	106	No
R.M. of Redburn No. 130	7A	5270	4390	31.5	37.4	1333	2.25	89	Yes
R.M. of Rosthern No. 403	7A	5857	4943	27.6	33.7	1714	2.60	102	No
R.M. of St. Andrews No. 287	7A	5620	4720	29.2	35.2	1607	2.40	94	No
R.M. of Swift Current No. 137	7A	5150	4270	32.3	38.2	1205	2.10	83	No
R.M. of Vanscoy No. 345	7A	5710	4630	28.6	35.8	1519	2.35	93	No
R.M. of Webb No. 138	6	4970	3990	33.5	40.1	1026	1.88	74	No
Town of Aberdeen	7A	5700	4800	28.7	34.7	1525	2.35	93	Yes
Town of Arborfield	7B	6166	5250	25.6	31.7	1993	3.05	120	Yes
Town of Biggar	7A	5720	4280	28.5	38.1	1597	2.40	94	Yes
Town of Bruno	7A	5914	4997	27.2	33.4	1797	2.75	108	Yes
Town of Carlyle	7A	5570	4676	29.5	35.5	1561	2.40	94	Yes
Town of Central Butte	7A	5335	4455	31.1	37.0	1390	2.30	91	Yes