Growth & Community Services
(506)658-4455

ENERGY EFFICIENCY DESIGN SUBMITTAL

2020 National Building Code – 9.36. – Prescriptive Path - Tier 2

Project Information

Address:

Energy Efficiency Design Submittal for the Proposed New Construction

The energy package must include:

- ☐ The completed table below demonstrating how a minimum of 10 points is achieved.
- ☐ Details of the materials used in each building assembly (e.g., foundation walls, above-grade walls, ceilings), along with their effective RSI values or R-values. These are typically found in the building plans or can be provided as separate documents.
- ☐ Window and door specifications indicating ER or U-values, usually available on the supplier's quote sheet.
- ☐ Specifications for the air exchanger(s), including details on equipment performance.
- ☐ Specifications for all heating and cooling systems, including details on equipment performance.

Table – Energy Values and Tier 2 Points

	Proposed Effective Values* (RSI or R)	Minimum Effective Values			
		RSI	R		
Ceiling Below Attic		8.67	49.2		
Ceiling Without Attic		4.67	26.5		
Above Grade Walls Section 1.1		2.97	16.9		Points
Below Grade Walls Section 1.2		2.98	16.9		Points
Slab Above Frost Line		1.96	11.1		
Heated Slab		2.32	13.2		
Exposed Floors		4.67	26.5		

*As per Article 9.36.2.4. of the 2020 National Building Code

Windows and Doors Section 1.3		1.6 U or 25 ER			Points
Skylights		2.75 U			

HRV Section 1.4	Make:		Model:		
	Efficiency at 0°C		60% Min.		Points
	Efficiency at -25°C		55% Min.		
Heating and Cooling	Make:		Model:		
	Efficiency:				
	☐ Oil	☐ Gas	☐ Pellet	☐ Electric	
	☐ Furnace	☐ Boiler	☐ Air Source Heat Pump		
	☐ Ground Source Heat Pump		☐ Electric Baseboard		
Water Heater Section 1.5	Make:		Model:		
	Efficiency:		☐ NB Power Rental		Points
	☐ Conserver		☐ Condensing		
	☐ Instantaneous		☐ Solar		
	☐ Indirect Fired		☐ Desuperheater		
Building Volume Section 1.6					Points
Air Tightness Section 1.7					Points

Refer to Appendix A for the explanatory information of each section referenced above.

Total Points | | **10 minimum**

Appendix A

Explanatory Material for the Prescriptive Path Points

This section provides details on how points can be achieved in the prescriptive path of the 2020 National Building Code. Improved building components must reach a minimum of **10 total points**.

1.1 Above Grade Walls

The RSI (or R-values) for above-grade walls represent the effective insulation value of the wall, considering the impact of thermal bridging from repetitive framing members and the contributions of other non-insulation materials. The wall components and their effective thermal values are usually indicated on the building plans.
Pre-calculated values for common assemblies can be found in Appendix B.

Minimum Effective Values		Points
RSI	R	
3.08	17.5	1.6
3.69	21.0	6.2
3.85	21.9	6.9
3.96	22.5	7.7
4.29	24.4	9.2
4.40	25.0	9.9
4.57	26.0	10.6
4.73	26.9	11.1
4.84	27.5	11.6
5.01	28.4	12.2
5.45	31.0	13.6

1.2 Below Grade Walls

The RSI values (or R-values) for below grade walls represent the effective insulation value of the wall, considering the impact of thermal bridging from repetitive framing members (if any) and the contributions of other non-insulation materials. The wall components and their effective thermal values are usually indicated on the building plans.

Minimum Effective Values		Points
RSI	R	
3.09	17.5	0.2
3.46	19.6	0.8
3.90	22.1	1.4

1.3 Windows and Doors

Windows and doors are eligible for points in accordance with the following table. In cases where units perform at different levels, the unit with the lowest performance will determine the points achieved.

Maximum U-Value		Minimum Energy Rating (ER)	Points
1.44		29	1.6
1.22	O	34	4.6
1.05	R	40	8.8
0.94		42	10.5
0.82		44	12.4

1.4 HRVs

Points may be awarded for higher performing heat recover ventilators in accordance with the following table.
The performance points awarded for some HRV units are listed in Appendix C.

HRV Sensible Recovery Efficiency	Points
60%	3.6
70%	4.2
80%	4.8
85%	5.1

1.5 Water Heaters

Points for water heaters are available for high performing oil, gas, and heat pump water heaters as follows:

Type of Equipment	Efficiency	Points
Oil or Gas Tankless	EF ≥ 0.95 or UEF ≥ 0.92	4.9
Oil or Gas Storage	EF ≥ 0.80 or UEF ≥ 0.83	4.9
Heat Pump Water Heater	EF ≥ 2.35	3.8

1.6 Building Volume

Smaller buildings and units are also awarded points simply due to their smaller size. Multiple dwelling unit buildings with no suite exceeding 230 m^2 are awarded 10 points. Single dwelling unit buildings are awarded points based on the following table:

Building Volume (8' high ceiling)		Points
m^3	ft^2	
≤ 390	≤ 1721	1
≤ 380	≤ 1677	2
≤ 370	≤ 1633	3
≤ 360	≤ 1589	4
≤ 350	≤ 1545	5
≤ 340	≤ 1501	6
≤ 330	≤ 1457	7
≤ 320	≤ 1412	8
≤ 310	≤ 1368	9
≤ 300	≤ 1324	10

1.7 Air Tightness

Caution: Air tightness can only be tested and confirmed upon project completion, after nearly all the items listed above have been installed. Relying on achieving points in this category is risky, as failing to meet the air tightness target would require finding alternative ways to earn points. Adding points in other categories at this stage can result in significant additional costs. This approach is best suited for experienced builders who routinely have their projects air tested.

To earn points in this category, a qualified technician must perform a blower door test at the end of construction. The points are awarded based on the level of air tightness as shown in the following table:

Guarded ACH	Points
2.0	3.5
1.5	7.0
1.0	10.5
0.6	13.4

ABOVE GRADE WALL ENERGY CONSERVATION POINTS: ZONE 6

Appendix B

Energy Conservation Points for 2020 National Building Code of Canada
Tiered Energy Performance Compliance: Prescriptive Path

The table below provides general energy conservation points for various above grade wall construction types. The points are generated from the insulation value of the components and uses generic values. In addition to the elements stated below, the insulation value assumes the inclusion of ½" gypsum board, 7/16" OSB, and siding.

How to use: Energy conservation points can be quickly calculated by selecting the appropriate cavity insulation, framing member spacing, and board insulation type and thickness. This guide is to calculate the energy conservation points only and is not intended as a design guide.

		CAVITY INSULATION														
		R20			R22			R24			1/2lb Foam			2lb Foam (3" Min.)		
		FRAMING MEMBER SPACING														
BOARD INSULATION		16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers
Expanded Polystyrene (EPS)	1"	5.8	5.8	5.9	6.1	6.2	6.3	6.3	6.8	6.9	5.9	6.0	6.1	1.7	1.7	1.7
	1.5"	6.3	6.8	6.9	7.7	7.8	7.9	7.9	8.9	9.0	6.9	7.0	7.7	6.0	6.0	6.1
	2"	7.9	8.0	8.9	9.2	9.3	9.9	9.9	10.0	10.5	8.9	9.0	9.2	7.0	7.6	7.7
Extruded Polystyrene (XPS)	1"	6.1	6.2	6.3	6.9	7.6	7.7	7.7	7.8	8.0	6.3	6.8	6.9	5.8	5.9	5.9
	1.5"	7.9	7.9	8.9	9.1	9.2	9.8	9.3	9.9	10.1	8.9	9.0	9.1	6.9	7.0	7.6
	2"	10.0	10.4	10.6	10.8	11.1	11.2	11.2	11.6	11.7	10.6	10.7	10.8	9.2	9.2	9.3
Polyisocyanurate	1"	6.3	6.8	6.9	7.7	7.8	7.9	7.9	8.0	9.0	6.9	7.0	7.7	6.0	6.0	6.1
	1.5"	8.9	8.9	9.1	9.3	9.9	10.0	10.0	10.4	10.6	9.0	9.2	9.3	7.7	7.7	7.8
	2"	10.6	10.7	11.0	11.2	11.6	11.7	11.7	12.1	12.2	11.0	11.1	11.2	9.9	9.9	10.0

ICF ABOVE GRADE WALL ENERGY CONSERVATION POINTS: ZONE 6

Energy Conservation Points for 2020 National Building Code of Canada
Tiered Energy Performance Compliance: Prescriptive Path

The table below provides general energy conservation points for various above grade wall ICF systems. The points are generated from the insulation value of the components and uses generic values. In addition to the elements stated below, the insulation value assumes the inclusion of ½" gypsum board and siding.

How to use: Energy conservation points can be quickly calculated by selecting the appropriate system manufacturer (note Amvic and Quadlock have multiple product lines) and the appropriate concrete core size. This guide is to calculate the energy conservation points only and is not intended as a design guide.

	CORE THICKNESS				
	4"	6"	8"	10"	12"
5" EPS Thickness Amvic Buildblock Quadlock Superform	6.0	6.1	6.1	6.1	6.2
5.25" EPS Thickness Nudura	6.3	6.8	6.8	6.9	6.9
5.5" EPS Thickness Element ICF Fox Block	7.7	7.7	7.8	7.8	7.8
6.25" EPS Thickness Amvic Quadlock	10.1	10.4	10.5	10.5	10.6
8" EPS Thickness Nudura Quadlock	13.6	13.6	13.6	13.6	13.6

Appendix C

HRV Points

Brand Name	Model	Energy Conservation Points Zone 6	Energy Conservation Points Zone 7A
Fantech	FIT 120E	4.4	4.4
Fantech	FIT 120E-D	4.4	4.4
Fantech	FIT 120E-D-EC	4.6	4.6
Fantech	FIT 120E-D-EC-HC	4.6	4.6
Fantech	FIT 120E-D-EC-M	4.6	4.6
Fantech	FIT 120E-D-EC-M-HC	4.6	4.6
Fantech	FIT 120E-D-HC	4.4	4.4
Fantech	FIT 120E-D-M	4.4	4.4
Fantech	FIT 120E-D-M-HC	4.4	4.4
Fantech	FIT 120E-HC	4.4	4.4
Fantech	FIT 120E-M	4.4	4.4
Fantech	FIT 120E-M-HC	4.4	4.4
Fantech	FIT 70E	4.2	4.2
Fantech	FIT 80E	4.2	4.2
Fantech	FIT 80E-D	4.2	4.2
Fantech	FIT 80E-D-HC	4.2	4.2
Fantech	FIT 80E-D-M	4.2	4.2
Fantech	FIT 80E-D-M-HC	4.2	4.2
Fantech	FIT 80E-HC	4.2	4.2
Fantech	FIT 80E-M	4.2	4.2
Fantech	FIT 80E-M-HC	4.2	4.2
Fantech	FLEX100H	3.6	3.7
Fantech	HERO 120H	4.8	4.8
Fantech	HERO 150H	4.8	4.8
Fantech	HERO 150H-EC	4.7	4.7
Fantech	HERO 200H	4.8	4.8
Fantech	HERO 250H-EC	4.9	4.9
Fantech	VHR150	3.9	3.9
Fantech	VHR70	3.8	3.9
Fantech	VHR70R-ES	3.9	3.9
Greentek	PREMIER 0.7H	3.8	3.9
Greentek	PREMIER 1.5E	4.5	4.5
Greentek	PREMIER 1.5H	4.4	4.4
Greentek	PREMIER 2.0E	4.5	4.5
Greentek	PREMIER 2.0H	4.5	4.5
Greentek	PREMIER 3.0E-EC	4.6	4.6
Greentek	PROFILE 0.7E	4.2	4.2
Greentek	PROFILE 0.8E	4.2	4.2
Greentek	PROFILE 0.8E-D	4.2	4.2
Greentek	PROFILE 0.8E-D-HC	4.2	4.2
Greentek	PROFILE 0.8E-D-M	4.2	4.2
Greentek	PROFILE 0.8E-D-M-HC	4.2	4.2
Greentek	PROFILE 0.8E-HC	4.2	4.2
Greentek	PROFILE 0.8E-M	4.2	4.2
Greentek	PROFILE 0.8E-M-HC	4.2	4.2
Greentek	PROFILE 1.2E	4.4	4.4
Greentek	PROFILE 1.2E-D	4.4	4.4
Greentek	PROFILE 1.2E-D-EC	4.6	4.6
Greentek	PROFILE 1.2E-D-EC-HC	4.6	4.6
Greentek	PROFILE 1.2E-D-EC-M	4.6	4.6
Greentek	PROFILE 1.2E-D-EC-M-HC	4.6	4.6
Greentek	PROFILE 1.2E-D-HC	4.4	4.4
Greentek	PROFILE 1.2E-D-M	4.4	4.4
Greentek	PROFILE 1.2E-D-M-HC	4.4	4.4
Greentek	PROFILE 1.2E-HC	4.4	4.4
Greentek	PROFILE 1.2E-M	4.4	4.4
Greentek	PROFILE 1.2E-M-HC	4.4	4.4
Greentek	PROFILER 1.2E-M-HC	4.4	4.4
Greentek	SOLACE 1.2H	4.9	4.9
Greentek	SOLACE 1.5H	4.8	4.8
Greentek	SOLACE 1.5H-EC	5.0	4.9
Greentek	SOLACE 2.0H	4.8	4.8
Greentek	SOLACE 2.5H-EC	4.9	4.9
Lifebreath	130ERVD	4.5	4.5
Lifebreath	155MAX	4.5	4.5
Lifebreath	170ERVD	4.6	4.6
Lifebreath	180ERVD	4.6	4.6
Lifebreath	195DCS	4.8	4.8

Marque nominative	Modèle	Points pour la conservation de l'énergie Zone 6	Points pour la conservation de l'énergie Zone 7A
Fantech	FIT 120E	4.4	4.4
Fantech	FIT 120E-D	4.4	4.4
Fantech	FIT 120E-D-EC	4.6	4.6
Fantech	FIT 120E-D-EC-HC	4.6	4.6
Fantech	FIT 120E-D-EC-M	4.6	4.6
Fantech	FIT 120E-D-EC-M-HC	4.6	4.6
Fantech	FIT 120E-D-HC	4.4	4.4
Fantech	FIT 120E-D-M	4.4	4.4
Fantech	FIT 120E-D-M-HC	4.4	4.4
Fantech	FIT 120E-HC	4.4	4.4
Fantech	FIT 120E-M	4.4	4.4
Fantech	FIT 120E-M-HC	4.4	4.4
Fantech	FIT 70E	4.2	4.2
Fantech	FIT 80E	4.2	4.2
Fantech	FIT 80E-D	4.2	4.2
Fantech	FIT 80E-D-HC	4.2	4.2
Fantech	FIT 80E-D-M	4.2	4.2
Fantech	FIT 80E-D-M-HC	4.2	4.2
Fantech	FIT 80E-HC	4.2	4.2
Fantech	FIT 80E-M	4.2	4.2
Fantech	FIT 80E-M-HC	4.2	4.2
Fantech	FLEX100H	3.6	3.7
Fantech	HERO 120H	4.8	4.8
Fantech	HERO 150H	4.8	4.8
Fantech	HERO 150H-EC	4.7	4.7
Fantech	HERO 200H	4.8	4.8
Fantech	HERO 250H-EC	4.9	4.9
Fantech	VHR150	3.9	3.9
Fantech	VHR70	3.8	3.9
Fantech	VHR70R-ES	3.9	3.9
Greentek	PREMIER 0.7H	3.8	3.9
Greentek	PREMIER 1.5E	4.5	4.5
Greentek	PREMIER 1.5H	4.4	4.4
Greentek	PREMIER 2.0E	4.5	4.5
Greentek	PREMIER 2.0H	4.5	4.5
Greentek	PREMIER 3.0E-EC	4.6	4.6
Greentek	PROFILE 0.7E	4.2	4.2
Greentek	PROFILE 0.8E	4.2	4.2
Greentek	PROFILE 0.8E-D	4.2	4.2
Greentek	PROFILE 0.8E-D-HC	4.2	4.2
Greentek	PROFILE 0.8E-D-M	4.2	4.2
Greentek	PROFILE 0.8E-D-M-HC	4.2	4.2
Greentek	PROFILE 0.8E-HC	4.2	4.2
Greentek	PROFILE 0.8E-M	4.2	4.2
Greentek	PROFILE 0.8E-M-HC	4.2	4.2
Greentek	PROFILE 1.2E	4.4	4.4
Greentek	PROFILE 1.2E-D	4.4	4.4
Greentek	PROFILE 1.2E-D-EC	4.6	4.6
Greentek	PROFILE 1.2E-D-EC-HC	4.6	4.6
Greentek	PROFILE 1.2E-D-EC-M	4.6	4.6
Greentek	PROFILE 1.2E-D-EC-M-HC	4.6	4.6
Greentek	PROFILE 1.2E-D-HC	4.4	4.4
Greentek	PROFILE 1.2E-D-M	4.4	4.4
Greentek	PROFILE 1.2E-D-M-HC	4.4	4.4
Greentek	PROFILE 1.2E-HC	4.4	4.4
Greentek	PROFILE 1.2E-M	4.4	4.4
Greentek	PROFILE 1.2E-M-HC	4.4	4.4
Greentek	PROFILER 1.2E-M-HC	4.4	4.4
Greentek	SOLACE 1.2H	4.9	4.9
Greentek	SOLACE 1.5H	4.8	4.8
Greentek	SOLACE 1.5H-EC	5.0	4.9
Greentek	SOLACE 2.0H	4.8	4.8
Greentek	SOLACE 2.5H-EC	4.9	4.9
Lifebreath	130ERVD	4.5	4.5
Lifebreath	155MAX	4.5	4.5
Lifebreath	170ERVD	4.6	4.6
Lifebreath	180ERVD	4.6	4.6
Lifebreath	195DCS	4.8	4.8

Brand Name	Model	Energy Conservation Points Zone 6	Zone 7A
Lifebreath	205MAX	4.6	4.6
Lifebreath	267MAX	4.5	4.5
Lifebreath	267MAX-ERV	4.6	4.6
Lifebreath	MAX-XTR	5.0	4.9
Lifebreath	MAX-XTR PLUS	5.0	4.9
Lifebreath	METRO 120 ERV	4.1	4.1
Lifebreath	METRO 120 ERV ECM	4.3	4.3
Lifebreath	METRO-120D	4.1	4.1
Lifebreath	METRO-120ERV-M	4.1	4.1
Lifebreath	METRO-120ERVD-ECM-M	4.4	4.4
Lifebreath	METRO-120ERVD-M	4.3	4.3
Lifebreath	METRO-XTR	4.6	4.6
Lifebreath	METRO120DECM	4.1	4.1
Lifebreath	METRO120ERVD	4.3	4.3
Lifebreath	METRO120ERVDECM	4.4	4.4
Lifebreath	METRO120F	4.3	4.3
Lifebreath	METRO120FECM	4.3	4.3
Lifebreath	RNC155	4.5	4.5
Lifebreath	RNC200	3.9	3.9
Lifebreath	RNC205	4.6	4.6
Lifebreath	RNC205 PLUS	5.3	5.2
Lifebreath	RNC4-TPD	3.8	3.9
Lifebreath	RNC4TPF	4.0	4.0
Lifebreath	RNC5HEXTPF	4.5	4.5
Lifebreath	RNC5TPD	3.5	3.6
Lifebreath	RNC5TPF	3.9	3.9
Lifebreath	RNC6 HEX TPD	4.5	4.5
Lifebreath	RNC6-ES	3.9	3.9
Lifebreath	RNC88	3.6	3.7
Nu-Air	NU145H	4.3	4.3
Nu-Air	SE135E	4.8	4.8
Nu-Air	SE182E	4.8	4.8
vanEE	40E	4.0	4.0
vanEE	70E	4.0	4.0
vanEE	70E ERV-R	4.0	4.0
vanEE	70E+	4.0	4.0
vanEE	G2400E ECM	5.0	4.9
vanEE	G2400H ECM	4.9	4.9
vanEE	G3000E ECM	4.5	4.5
vanEE	G3000H ECM	4.5	4.5
vanEE	K10 - 50H HRV (TP)	4.0	4.0
vanEE	V110H65RT	4.1	4.1
vanEE	V130E65RT	4.0	4.0
vanEE	V130H65RS	4.1	4.1
vanEE	V130H65RT	4.1	4.1
vanEE	V150E75NS	4.9	4.9
vanEE	V150E75NT	4.9	4.9
vanEE	V150H75NS	4.9	4.9
vanEE	V150H75NT	4.9	4.9
vanEE	V160E65RT	4.6	4.6
vanEE	V160E75RT	4.9	4.9
vanEE	V160H65RS	4.1	4.1
vanEE	V160H65RT	4.1	4.1
vanEE	V160H75RS	4.6	4.6
vanEE	V160H75RT	4.6	4.6
vanEE	V160H80RT	4.9	4.9
vanEE	V180E75RT	4.9	4.9
vanEE	V180H75RT	4.7	4.7
vanEE	V210E75RS	4.9	4.9
vanEE	V210E75RT	4.9	4.9
vanEE	V230H75RS	4.7	4.7
vanEE	V230H75RT	4.7	4.7
Venmar	A110H65RT	4.1	4.1
Venmar	A130E65RT	4.0	4.0
Venmar	A130H65RS	4.1	4.1
Venmar	A130H65RT	4.1	4.1
Venmar	A150E75NS	4.9	4.9
Venmar	A150E75NT	4.9	4.9
Venmar	A150H75NS	4.9	4.9

Marque nominative	Modèle	Points pour la conservation de l'énergie Zone 6	Zone 7A
Lifebreath	205MAX	4.6	4.6
Lifebreath	267MAX	4.5	4.5
Lifebreath	267MAX-ERV	4.6	4.6
Lifebreath	MAX-XTR	5.0	4.9
Lifebreath	MAX-XTR PLUS	5.0	4.9
Lifebreath	METRO 120 ERV	4.1	4.1
Lifebreath	METRO 120 ERV ECM	4.3	4.3
Lifebreath	METRO-120D	4.1	4.1
Lifebreath	METRO-120ERV-M	4.1	4.1
Lifebreath	METRO-120ERVD-ECM-M	4.4	4.4
Lifebreath	METRO-120ERVD-M	4.3	4.3
Lifebreath	METRO-XTR	4.6	4.6
Lifebreath	METRO120DECM	4.1	4.1
Lifebreath	METRO120ERVD	4.3	4.3
Lifebreath	METRO120ERVDECM	4.4	4.4
Lifebreath	METRO120F	4.3	4.3
Lifebreath	METRO120FECM	4.3	4.3
Lifebreath	RNC155	4.5	4.5
Lifebreath	RNC200	3.9	3.9
Lifebreath	RNC205	4.6	4.6
Lifebreath	RNC205 PLUS	5.3	5.2
Lifebreath	RNC4-TPD	3.8	3.9
Lifebreath	RNC4TPF	4.0	4.0
Lifebreath	RNC5HEXTPF	4.5	4.5
Lifebreath	RNC5TPD	3.5	3.6
Lifebreath	RNC5TPF	3.9	3.9
Lifebreath	RNC6 HEX TPD	4.5	4.5
Lifebreath	RNC6-ES	3.9	3.9
Lifebreath	RNC88	3.6	3.7
Nu-Air	NU145H	4.3	4.3
Nu-Air	SE135E	4.8	4.8
Nu-Air	SE182E	4.8	4.8
vanEE	40E	4.0	4.0
vanEE	70E	4.0	4.0
vanEE	70E ERV-R	4.0	4.0
vanEE	70E+	4.0	4.0
vanEE	G2400E ECM	5.0	4.9
vanEE	G2400H ECM	4.9	4.9
vanEE	G3000E ECM	4.5	4.5
vanEE	G3000H ECM	4.5	4.5
vanEE	K10 - 50H HRV (TP)	4.0	4.0
vanEE	V110H65RT	4.1	4.1
vanEE	V130E65RT	4.0	4.0
vanEE	V130H65RS	4.1	4.1
vanEE	V130H65RT	4.1	4.1
vanEE	V150E75NS	4.9	4.9
vanEE	V150E75NT	4.9	4.9
vanEE	V150H75NS	4.9	4.9
vanEE	V150H75NT	4.9	4.9
vanEE	V160E65RT	4.6	4.6
vanEE	V160E75RT	4.9	4.9
vanEE	V160H65RS	4.1	4.1
vanEE	V160H65RT	4.1	4.1
vanEE	V160H75RS	4.6	4.6
vanEE	V160H75RT	4.6	4.6
vanEE	V160H80RT	4.9	4.9
vanEE	V180E75RT	4.9	4.9
vanEE	V180H75RT	4.7	4.7
vanEE	V210E75RS	4.9	4.9
vanEE	V210E75RT	4.9	4.9
vanEE	V230H75RS	4.7	4.7
vanEE	V230H75RT	4.7	4.7
Venmar	A110H65RT	4.1	4.1
Venmar	A130E65RT	4.0	4.0
Venmar	A130H65RS	4.1	4.1
Venmar	A130H65RT	4.1	4.1
Venmar	A150E75NS	4.9	4.9
Venmar	A150E75NT	4.9	4.9
Venmar	A150H75NS	4.9	4.9

Brand Name	Model	Energy Conservation Points Zone 6	Zone 7A
Venmar	A150H75NT	4.9	4.9
Venmar	A160E65RT	4.6	4.6
Venmar	A160E75RT	4.9	4.9
Venmar	A160H65RS	4.1	4.1
Venmar	A160H65RT	4.1	4.1
Venmar	A160H75RS	4.6	4.6
Venmar	A160H75RT	4.6	4.6
Venmar	A160H80RT	4.9	4.9
Venmar	A180E75RT	4.9	4.9
Venmar	A180H75RT	4.7	4.7
Venmar	A210E75RS	4.9	4.9
Venmar	A210E75RT	4.9	4.9
Venmar	A230H75RS	4.7	4.7
Venmar	A230H75RT	4.7	4.7
Venmar	HRV110	4.1	4.1
Venmar	K10 - 50H HRV (TP)	4.0	4.0
Venmar	K7 ERV	4.0	4.0
Venmar	S10 ERV-R	4.0	4.0
Venmar	S10ERV	4.0	4.0
Venmar	S10ERV+	4.0	4.0
Venmar	V110H65RT	4.1	4.1
Venmar	V130E65RT	4.0	4.0
Venmar	V130H65RT	4.1	4.1
Venmar	V150E75NS	4.9	4.9
Venmar	V150E75NT	4.9	4.9
Venmar	V150H75NS	4.9	4.9
Venmar	V150H75NT	4.9	4.9
Venmar	V160E75RT	4.9	4.9
Venmar	V160H65RT	4.1	4.1
Venmar	V160H75RS	4.9	4.9
Venmar	V160H75RT	4.9	4.9
Venmar	V160H80RT	4.9	4.9
Venmar	V180E75RT	4.9	4.9
Venmar	V180H75RT	4.7	4.7
Venmar	V210E75RS	4.9	4.9
Venmar	V210E75RT	4.9	4.9
Venmar	V230H75RS	4.7	4.7
Venmar	V230H75RT	4.7	4.7
Venmar AVS	X24ERV ECM	5.0	4.9
Venmar AVS	X24HRV ECM	4.9	4.9
Venmar AVS	X30ERV ECM	4.5	4.5
Venmar AVS	X30HRV ECM	4.5	4.5

Marque nominative	Modèle	Points pour la conservation de l'énergie Zone 6	Zone 7A
Venmar	A150H75NT	4.9	4.9
Venmar	A160E65RT	4.6	4.6
Venmar	A160E75RT	4.9	4.9
Venmar	A160H65RS	4.1	4.1
Venmar	A160H65RT	4.1	4.1
Venmar	A160H75RS	4.6	4.6
Venmar	A160H75RT	4.6	4.6
Venmar	A160H80RT	4.9	4.9
Venmar	A180E75RT	4.9	4.9
Venmar	A180H75RT	4.7	4.7
Venmar	A210E75RS	4.9	4.9
Venmar	A210E75RT	4.9	4.9
Venmar	A230H75RS	4.7	4.7
Venmar	A230H75RT	4.7	4.7
Venmar	HRV110	4.1	4.1
Venmar	K10 - 50H HRV (TP)	4.0	4.0
Venmar	K7 ERV	4.0	4.0
Venmar	S10 ERV-R	4.0	4.0
Venmar	S10ERV	4.0	4.0
Venmar	S10ERV+	4.0	4.0
Venmar	V110H65RT	4.1	4.1
Venmar	V130E65RT	4.0	4.0
Venmar	V130H65RT	4.1	4.1
Venmar	V150E75NS	4.9	4.9
Venmar	V150E75NT	4.9	4.9
Venmar	V150H75NS	4.9	4.9
Venmar	V150H75NT	4.9	4.9
Venmar	V160E75RT	4.9	4.9
Venmar	V160H65RT	4.1	4.1
Venmar	V160H75RS	4.9	4.9
Venmar	V160H75RT	4.9	4.9
Venmar	V160H80RT	4.9	4.9
Venmar	V180E75RT	4.9	4.9
Venmar	V180H75RT	4.7	4.7
Venmar	V210E75RS	4.9	4.9
Venmar	V210E75RT	4.9	4.9
Venmar	V230H75RS	4.7	4.7
Venmar	V230H75RT	4.7	4.7
Venmar AVS	X24ERV ECM	5.0	4.9
Venmar AVS	X24HRV ECM	4.9	4.9
Venmar AVS	X30ERV ECM	4.5	4.5
Venmar AVS	X30HRV ECM	4.5	4.5

SAINT JOHN

Growth & Community Services
(506)658-4455

ENERGY EFFICIENCY DESIGN SUBMITTAL

2020 National Building Code – 9.36. – Performance Path - Tier 2

Project Information

Address:

Performance Path

The performance path involves hiring an energy modeler to perform electronic modeling of the proposed building to demonstrate compliance with the minimum level of efficiency performance.

Energy Efficiency Design Submittal for the Proposed New Construction

The energy package must include:

- ☐ This completed form, signed by the energy modeler.
- ☐ A performance path energy report, prepared by an energy modeler.
- ☐ Details of the materials used in each building assembly (e.g., foundation walls, above-grade walls, ceilings), along with their effective RSI values or R-values. These are typically found in the building plans or can be provided as separate documents.
- ☐ Window and door specifications indicating ER or U-values, usually available on the supplier's quote sheet.
- ☐ Specifications for the air exchanger(s), including details on equipment performance.
- ☐ Specifications for all heating and cooling systems, including details on equipment performance.

Modelling Report Summary

System Type	Minimums		Difference (Y/N)	System Type	Difference (Y/N)
Ceilings below attic spaces	8.67 RSI	R50		Lighting power	
Ceilings without attic spaces	4.67 RSI	R27		Heating efficiency	
Walls above grade	2.97 RSI	R17		Cooling efficiency	
Basement walls	2.98 RSI	R17		Ventilation efficiency	
Exposed floors	4.67 RSI	R27		Service water efficiency	
Slabs above frost line	1.96 RSI	R11			
Window-Door performance	1.60 U	25 ER			

Other Areas of Note:

Performance

Reference House Energy Use		GJ/year
Proposed House Energy Use		GJ/year
		% Improvement (min. 10%)

Reference House Heat Loss		GJ/year
Proposed House Heat Loss		GJ/year
		% Improvement (min. 5%)

The calculations for the performance and reference buildings were completed in accordance with subsection 9.36.5. of the 2020 National Building Code of Canada.

Energy Modeler Signature: _____ Date: _____