



Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

| For use by Principal Authority | |
|--------------------------------|----------------------------|
| Application No: | Model/Certification Number |

A. Project Information Bayview Wellington 32-3-12 Elevation A

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

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

SB-12 Prescriptive (input design package): Package: **A1** Table: _____

C. Project Design Conditions

| Climatic Zone (SB-1): | Heating Equipment Efficiency | Space Heating Fuel Source |
|---|---|---|
| <input checked="" type="checkbox"/> Zone 1 (< 5000 degree days) | <input checked="" type="checkbox"/> ≥ 92% AFUE | <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel |
| <input type="checkbox"/> Zone 2 (≥ 5000 degree days) | <input type="checkbox"/> ≥ 84% < 92% AFUE | <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy |
| Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area | | Other Building Characteristics |
| Area of walls = 298.59 m ² or 3214.00 ft ² | W, S & G % = 10.07 | <input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement |
| Area of W, S & G = 30.07 m ² or 323.72 ft ² | Utilize window averaging: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement |
| | | <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit |
| | | <input type="checkbox"/> Air Sourced Heat Pump (ASHP) |
| | | <input type="checkbox"/> Ground Sourced Heat Pump (GSHP) |

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

| Energy Efficiency Substitutions | | | | |
|--|---|--|--|--------------------|
| <input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6)) | | | | |
| <input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7)) | | | | |
| <input type="checkbox"/> Airtightness substitution(s) | | | | |
| Airtightness test required (Refer to Design Guide Attached) | | <input type="checkbox"/> Table 3.1.1.4.B Required: _____ Permitted Substitution: _____ | | |
| | | <input type="checkbox"/> Table 3.1.1.4.C Required: _____ Permitted Substitution: _____ | | |
| | | Required: _____ Permitted Substitution: _____ | | |
| Building Component | Minimum RSI / R values or Maximum U-Value ⁽¹⁾ | | Building Component | Efficiency Ratings |
| Thermal Insulation | Nominal | Effective | Windows & Doors Provide U-Value ⁽¹⁾ or ER rating | |
| Ceiling with Attic Space | 60 | | Windows/Sliding Glass Doors | 1.6 |
| Ceiling without Attic Space | 31 | | Skylights/Glazed Roofs | 0.49 |
| Exposed Floor | 31 | | Mechanicals | |
| Walls Above Grade | 22 | | Heating Equip.(AFUE) | 96% |
| Basement Walls | 20 ci | | HRV Efficiency (SRE% at 0° C) | 75% |
| Slab (all >600mm below grade) | N/A | | DHW Heater (EF) | 0.80 |
| Slab (edge only ≤600mm below grade) | 10 | | DWHR (CSA B55.1 (min. 42% efficiency)) | 2 # Showers 3 |
| Slab (all ≤600mm below grade, or heated) | 10 | | Combined Heating System | |

(1) U value to be provided in either W/(m²•K) or Btu/(h•ft²•F) but not both.

E. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets the building code]

| Qualified Designer Declaration of designer to have reviewed and take responsibility for the design work. | | |
|--|----------------------|---------------|
| Name VA3 DESIGN INC | BCIN 25591 | Signature |