2014 ABC Section 9.36 Specifications for Building Permit Application

QualiSTAT BUILDINGPERFORMANCECONSULTANTS

Please forward to plans@qualistat.com

FOR REVIEW ☐ FOR PERMIT ☐

9.36 Performance Energy Compliance – WE WILL USE THE MINIMUM VALUE FOR COMPLIANCE
YOU MAY EXCEED THE MINIMUM VALUE, BUT YOU CANNOT GO BELOW

Builder:		**Press To Email Form**
Proposed Address:		
Permit Applicant:		
Applicant Address:		
Plot (Site) plan must be included		

PART 1 - ENVELOPE SPECIFICATIONS Required for permit

ocSPF = Open Cell foam = Light Density = ½ pound **ccSPF** = Closed Cell foam = Medium Density = 2 pound
SHGC = Solar Heat Gain Coefficient **DHW** = Domestic Hot Water **HRV** = Heat Recovery Ventilator **EF=** Energy Factor
AFUE = Annual Fuel Utilization Efficiency **SEER** = Seasonal Energy Efficiency Ratio **SL=** Standby Loss (in Watts)

NOTE: Leave items unmarked to be modeled using defaults

Stud spacing – Above grade Exterior Walls:	As per plan ☐ 16" ☐(Default) 24" ☐	
Above Grade Wall Insulation:	R-20 ☐ (Default) R-22 ☐ Closed Cell Spray Foam ☐ Thickness:	
	other:	
Stud spacing – Below grade Bsmt Frost Walls:	As per plan☐ 16"☐ 24"☐ (Default)	
Frost Wall Insulation:	R-12 ☐(Default) R-20 ☐ other:	
Attic Insulation:	R-40 ☐(Default) R-50 ☐ R-60 ☐ other:	
Rim Joist Insulation:	R-20 ☐ R-22 ☐ 3" ccSPF ☐(Default) 4" ccSPF ☐ 6" ocSPF ☐	
	Other:	
Cantilever Insulation:	R-20 ☐ R-22 ☐ 3" ccSPF ☐ 4" ccSPF ☐(Default) 6" ocSPF ☐	
	Other:	
Bonus Room Floor Insulation:	R-20 ☐ R-22 ☐ 3" ccSPF ☐ 4" ccSPF ☐ 8" ocSPF ☐(Default)	
	Other:	
Windows:	Double Glaze☐ (Default) Triple Glaze☐ Please suggest ☐	If Known: (Default U-1.7 0.42 SHGC)
		Metric U-value:
		SHGC: (between 0.3 -0.65)
Underslab Radiant Heating:	RI Only ☐NOTE: RI requires insulation below slab Full System Install YES☐ NO☐	
	R-10 Rigid (extruded XPS)☐(Default) R-8 Rigid (expanded EPS)☐ Other:	
Air Tightness Construction:	**2.5 ACH** ☐ (Default) **3.2 ACH** ☐ **Test** ☐	

PART 2 - MECHANICAL Required for permit

Furnace AFUE:	AFUE Rating: % AFUE		(92% Default)	Please suggest ☐		
	Electric☐ Natural Gas ☐(Default) Propane☐ AFUE Rating: %					
Boiler:	Electric☐ Natural Gas ☐(Default) Propane☐ AFUE Rating: %					
Ventilation Type:	**Heat Recovery** ☐(Default) **NO Heat Recovery** ☐	**Efficiency** (Default 70% & 64%)	%	@ 0^0 C	%	@ -25^0 C
DHW Type: US Gallons	40 Gal☐ 50 Gal☐(Default) 65 Gal☐ 75 Gal☐ 80 Gal☐ Tankless ☐					
	Electric☐ Natural Gas ☐ Propane☐					
DHW Efficiency:	EF rating or Standby Loss	Defaults -(Natural Gas 67% EF - Electric Standby Loss 95 Watts				
A/C:	RI Only ☐ **YES** ☐ **NO**☐(Default)					
A/C Efficiency:	SEER (higher is better)	% SEER	(14.5 SEER Default)			

Please update my blueprints for code compliance - I understand I will be charged $25 for this service ☐

Please forward to plans@qualistat.com - INSTRUCTIONS see Page 2 ➔

Other Instructions:

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INSTRUCTIONS

NOTE: Although the new building code refers to energy efficiency it is not an energy efficiency model that the municipalities are looking for, but rather a code compliance value. Therefore, the models we provide ARE NOT for Energy efficiency, but rather code compliance. Qualistat will model to a combination of your specifications and the lowest values you can build to and maintain compliance. This is done to reduce re-work and returns from municipalities, who do not accept energy models completed using Natural Resources Canada standard modeling procedures and requirements for energy advisors. These models must be revised for use as energy models and additional fees will apply to produce EnerGuide or Built green acceptable energy models.

First section: **This information is used for filling out the permit documents and is required**

Builder - is the company (or homeowner) doing the work
Permit Applicant - is the company (or homeowner) applying for the permit
Applicant address is required

Plot (site) plan is required and must show both direction building faces – (NORTH Arrow) and building area – These are required for both energy modeling and permitting. We can model without, but we must have as a **minimum** direction front of house faces and building area.

Second section (Part 1 envelope specs): **Include Window specifications from Manufacturer**

Supplied Blueprints – if your blueprints are not accurate to what you are building please note what is different on the bottom of the page under "Other Instruction" – **Qualistat can revise your blueprints and update them to meet code requirements for a onetime $25 fee** – Just check the box at the bottom of the form of page 1.

- You must indicate on your blueprints details such as on center stud spacing and nominal insulation values
- You are permitted to exceed efficiency values but not reduce i.e. if you model to R-20, you can use R-22, but not reverse

Windows are a key component – please provide us with the window manufactures documents, otherwise we will automatically use the lowest values – any required revisions to update after will be chargeable.

Tall Walls are a key component – please provide us with tall wall engineering prior to energy modeling. Standard tall walls are anything over 11'-6" and will be modeled as a standard 8" on center. Any walls requiring engineering should be provided prior to completion of our code compliance documents – any required revisions to update after will be chargeable.

Missing information on Blueprints will be assumed as per the default values on page 1. Many blueprints are missing details related to rim joist and bonus room information. – any required revisions to update after will be chargeable.

Third section (Part 2 Mechanical specs): **Include Fuel Source (Natural Gas, Electric, etc.)**

FURNACE please type in the AFUE value you plan to use or we can use the default 92%

DHW – NATURAL GAS please type in the EF value for the unit you plan to use as well as tank volume – (Default is 67% 50 US Gallon)
DHW – ELECTRIC please provide the standby loss value in watts – Canada requires this (US products are converted to an EF rating, however that is not compatible with code.) We will default to the lowest value if no SL is provided

BOILER – Please indicate if the boiler is used solely for in floor heating, an air handler and or with an indirect hot water storage tank

HRV (Heat Recovery Ventilator) provides pre-warmed air through exchange of heat from exhaust air. A simple system is all that is required by code. Only active units comply – passive HRV's are NON-COMPLIANT. We require the efficiency at 0 C and at -25C.

RADIANT HYDRONIC HEATING – We need to know if there is radiant in floor heating and if it is RI only or full system – if the system is not completed prior to occupancy it will be modeled as RI only.

A/C – We need to know if there is A/C and if it is RI only or full system – if the system is not completed prior to occupancy it will NOT be included in the energy model as per code.

Final Note for Code Compliance
Blueprints must show RSI Calculations – Qualistat can provide a full set of RSI calculations for a small fee
Builder must show how you are achieving air tightness – Qualistat can provide a full set of compliance detail documents for a small fee

PAYMENT: for new customers, we require payment prior to release of documents

Qualistat will ensure that you receive your building permit and will consult with the local municipality to ensure compliance.