

Project Information	
Project Address _____	Permit No. _____
Path: <input type="checkbox"/> Prescriptive <input type="checkbox"/> Trade-off <input type="checkbox"/> Performance	

This is a general list for potential spot check of components of construction during site visits in conformance with the approved plans.

	CATEGORY	ENERGY REQUIREMENT	CODE REFERENCE	CHECK
BUILDING ENVELOPE	INSULATION	Installed as per approved plans. U-value of building envelope where mechanical or electrical components are placed within and parallel to the building envelope shall not be increased. Also, joints between components shall be insulated to provide continuity (e.g., Wall to fenestration joint).	3.2.1.2.	<input type="checkbox"/>
	DOORS & FENESTRATION	Number and size of doors and windows, skylights, and doors installed as per plans. Look for stickers on windows and doors to confirm: <input type="checkbox"/> U-Values of fenestration meet Table 3.2.2.3. <input type="checkbox"/> U-values doors meet Table 3.2.2.4. <input type="checkbox"/> Leakage rates for fixed fenestration $\leq 0.2 \text{ L/(s}\cdot\text{m}^2)$ <input type="checkbox"/> Leakage rates for operation doors & fenestration $\leq 0.5 \text{ L/(s}\cdot\text{m}^2)$ <input type="checkbox"/> Leakage rates for OH, revolving, auto sliding doors $\leq 5 \text{ L/(s}\cdot\text{m}^2)$	3.2.1.4., 3.2.2.3., 3.2.2.4., 3.2.4.3., 3.2.4.4.	<input type="checkbox"/>
	DOORS	Exterior doors protected by vestibules as per approved plans.	3.2.2.1.	<input type="checkbox"/>
	ABOVE-GROUND OPAQUE BUILDING ASSEMBLIES	Above-ground wall, roof and floor assemblies as per plans.	3.2.2.2.	<input type="checkbox"/>
	HATCHES	Access hatches assemblies that are part of the envelope constructed as per plans.	3.2.2.4.	<input type="checkbox"/>
	BELOW-GROUND OPAQUE BUILDING ASSEMBLIES	Below-ground wall, roof and floor assemblies as per plans.	3.2.3.1. to 3.2.3.3.	<input type="checkbox"/>
	AIR BARRIER	Continuous air-barrier provided.	3.2.4.1. to 3.2.4.2.	<input type="checkbox"/>
	FIREPLACES	Fireplaces to restrict air movement when not in use.	3.2.4.5.	<input type="checkbox"/>

	CATEGORY	ENERGY REQUIREMENT	CODE REFERENCE	CHECK
ELECTRICAL	INTERIOR CONTROLS	Interior lighting controls as per plans? Check items such as: <input type="checkbox"/> Spacing for manual devices (max area) <input type="checkbox"/> Manual On <input type="checkbox"/> 50% Auto Partial ON <input type="checkbox"/> Bi-level <input type="checkbox"/> Photocontrols in sidelighted areas <input type="checkbox"/> 50% Auto Partial Off <input type="checkbox"/> Auto Full Off <input type="checkbox"/> Scheduled Shut Off <input type="checkbox"/> Storage Garage Controls	4.2.2.1. to 4.2.2.2.	<input type="checkbox"/>
	EXTERIOR LIGHTING APPLICATIONS	Exterior lighting applications and controls as per plans.	4.2.3.1.	<input type="checkbox"/>

	CATEGORY	ENERGY REQUIREMENT	CODE REFERENCE	CHECK
Heating, Ventilation and Air conditioning	Duct Sealing	Air-handling ducts and plenums sealed? (Note: sealing tape shall not be the primary sealant.)	5.2.2.3. to 5.2.2.4.	<input type="checkbox"/>
	Duct Insulation	Duct insulation meets requirements of Table 5.2.2.5.? See NECB for additional details (e.g., Exemptions, and ducts outside envelope to be insulated to same requirements as wall insulation). Duct insulation protected with vapour barrier or from mechanical damage, as needed.	5.2.2.5., 5.2.2.6.	<input type="checkbox"/>
	Fan Systems	Fans installed as per plans	5.2.3.	<input type="checkbox"/>
	Dampers	Motorized dampers for openings to discharge air from conditioned to unconditioned space AND for outdoor air intakes. See NECB for exceptions.	5.2.4.1. to 5.2.4.2.	<input type="checkbox"/>
	HVAC Piping Insulation	Piping forming part of HVAC system must be insulated to meet Table 5.2.5.3. See NECB for exceptions. Duct insulation protected with vapour barrier or from mechanical damage, as needed.	5.2.5.3.	<input type="checkbox"/>
	Pumping Systems	Pumps installed as per plans	5.2.6.3.	<input type="checkbox"/>
	HVAC Controls	At least one automatic control provided and accurate to 1. Dwelling units to have control devices for each room. Guest rooms and suites have auto temperature setback within 15 min. Vestibules between conditions space and the outdoors limited to 15 °C.	5.2.8.1. - 5.2.8.6.	<input type="checkbox"/>
	Energy Recovery	Energy recovery system(s) installed as per plans. Check efficiency.	5.2.10.	<input type="checkbox"/>
	Heat Recovery for Dwelling Units	For single dwelling unit, principal exhaust must be equipped with heat recovery that meets performance requirements?	5.2.10.4.	<input type="checkbox"/>
	Off-hours Controls	Systems serving area not intended for continuous use (capacity ≥ 5 kW) must have controls for setting back the system during non-use.	5.2.11.1.	<input type="checkbox"/>
	Airflow Control Areas	Airflow control areas as per plans (≤ 2500 m ² and span not more than 1 storey. Zones shall be independently temperature controlled.).	5.2.11.2.	<input type="checkbox"/>
	Multiple Boilers	Multiple boilers installed as per plans.	5.2.11.4.	<input type="checkbox"/>
	Loop Temperature Reset	For chilled- or hot-water systems with capacity > 88 kW, automatic controls are to be provided to reset supply water loop temperatures. Installed as per plans.	5.2.11.5.	<input type="checkbox"/>
	Equipment Efficiency	Check all equipment installed as per plans and meets efficiency	5.2.12.	<input type="checkbox"/>
	Duct Sealing	Air-handling ducts and plenums sealed? (Note: sealing tape shall not be the primary sealant.)	5.2.2.3. to 5.2.2.4.	<input type="checkbox"/>
Duct Insulation	Duct insulation meets requirements of Table 5.2.2.5.? See NECB for additional details (e.g., Exemptions, and ducts outside envelope to be insulated to same requirements as wall insulation). Duct insulation protected with vapour barrier or from mechanical damage, as needed.	5.2.2.5., 5.2.2.6.	<input type="checkbox"/>	

	CATEGORY	ENERGY REQUIREMENT	CODE REFERENCE	CHECK
Service Water	Equipment Efficiency	Service water heaters and pool heaters installed as per plans (meet requirements of Table 6.2.2.1.).	6.2.2.1.	<input type="checkbox"/>
	Equipment Insulation	Service water storage tanks to be covered by insulation having a max U-value of 0.45 W/(m ² ·K) (except for tanks covered by Article 6.2.2.1.).	6.2.2.2.	<input type="checkbox"/>
	Piping Insulation	Hot service water piping to be insulated to Table 6.2.3.1. For non-circulating systems with heat traps, piping between vessel and heat trap to be insulated, along with 2.4 m of piping downstream of heat trap.	6.2.3.1.	<input type="checkbox"/>
	Service Water Heating Controls	Systems (e.g., Tanks, heating elements along pipes) shall have automatic temperature controls to keep temperature within acceptable range. Systems over 100 L shall have a clear shut-off device.	6.2.4.	<input type="checkbox"/>
	Remote Heaters	Where only a small portion of service water (< 50%) has a design temperature of >60 °C, remote heaters shall be provided for those portions of the system (so as to avoid heating all water beyond what is required). Installed as per approved plans.	6.2.5.1.	<input type="checkbox"/>
	Shower Flow Rates	Shower heads limited to max flow rate of 7.6 L/min. Public shower heads controlled by one temperature device must be capable of being shut off individual when not in use.	6.2.6.1.	<input type="checkbox"/>
	Lavatory Flow Rates	Private individual lavatories limited to 5.7 L/min, and public lavatories limited to 1.9 L/min. Public washrooms in assembly occupancy must be able to automatically shut off when not in use.	6.2.6.2.	<input type="checkbox"/>
	Pool Heaters and Pumps	Pool heaters shall have a device to allow for shut off without adjusting thermostat, and for restarting heater without manually lighting pilot light. Pool pumps and heaters must have controls to automatically turn off when not in use.	6.2.7.1.	<input type="checkbox"/>
	Pool and Hot Tub Covers	Heated outdoor pools/tub must have cover for 90% of water surface. If water temperature is > 32 °C, the cover's U-value must be ≤ 0.48 W/m ² ·C.	6.2.7.2.	<input type="checkbox"/>
	Pressure Booster Systems	Constant-speed pressure booster systems shall be provided with a hydro-pneumatic tanks that provides at least 1 min of operation at design flow and pressure. Variable-speed systems must provide 1 min of operation at 10% of design flow and pressure. At least one pressure sensor required to maintain system pressure, and no pressure-reducing devices allowed (except for safety).	6.2.8.	<input type="checkbox"/>

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ELECTRICAL POWER SYSTEMS & MOTORS	Monitoring	For systems > 250 kVA, the system must monitor energy consumption of HVAC, interior lighting & exterior lighting. This shall be done for both the whole building and for each individual tenant or dwelling unit.	7.2.1.1.	<input type="checkbox"/>