

**2018 WA State Energy Code: Commercial code review priorities:**

*Spend the same amount of time you already spend on energy code issues but try to prioritize these.*

<b>Energy Top Ten</b>		
	<b>Plan Review Requirements</b>	<b>Inspection</b>
<b>GENERAL</b>		
<b>1. Commissioning</b> C403.13, C408	Note that all required commissioning will be done	Collect signed checklist showing commissioning was completed
<b>2. Metering</b> C409	Shown on plans.	Contractor demonstrates the metering display operating
<b>3. C406 credits</b>	List which credits were selected	Check each claimed credit
<b>ENVELOPE</b>		
<b>4. Air leakage testing</b> C402.5	Note on that air leakage will be pressure-tested and won't exceed the limit	Collect signed testing report and check that they passed
<b>5. Windows, curtain wall, storefront...</b> Table C402.4	U-factors for each type	<b>At cover inspection:</b> Check window stickers for punched openings, NFRC "Label Certificate" for storefront & curtain wall
<b>6. Typ wall insulation</b> Table C402.1.3 or 1.4	R-values for each assembly	<b>At cover inspection:</b> Check insulation and continuous insulation in a typical wall
<b>MECHANICAL</b>		
<b>7. TSPR</b> C403.1.1	TSPR calculation shown, ratio is >1.0 (or meet exception)	(none)
<b>8. Economizers</b> C403.5, C403.5.5	Economizer, with Fault Detection (or meet one of the exceptions)	
<b>9. DOAS</b> C403.3.5	DOAS with energy recovery, if office, retail, education, library, fire station, assembly	Equipment & controls per plan. OSA flow decoupled from heating/cooling
<b>10. Energy recovery</b> C403.7.6	Heat recovery on exhaust air, 60% efficient	Heat recovery operational

<b>Special Occupancies: One additional review item for each of these use types</b>		
	<b>Plan Review</b>	<b>Inspection</b>
<b>Comm Kitchen</b> C403.7.7	Exhaust fan controls, check UL 710 hood listing, max flow rate, energy star equip	See system working
<b>Data Center cooling</b> C403.1.3	See ASHRAE 90.4 - 2019 calcs	Match plans
<b>Cold storage</b> C410	Meet the list of requirements in C410	Match plans
<b>Multifamily</b> C403.3.6, C403.8.4	Check for "balanced ventilation" with 60% effective heat recovery. Fan efficacy	Is balanced ventilation really balanced?
<b>Garage/loading dock</b> C403.7.5	Check sensor type	Demonstrate function
<b>Outdoor café</b> C403.11	Radiant heater controls	See if they shut off in 20 minutes
<b>Laboratory exhaust</b> C403.7.7.2	Check heat recovery	Match plans
<b>Hotel guestrooms</b> C403.7.4	Temperature set point controls	Match plans
<b>Grocery</b> C403.9.2	Heat recovery from refrigeration condenser	Match plans