

**Top Ten for Mechanical:** They're all important, but since you can't check everything, check these. *Spend only the amount of time you already spend on energy code issues but prioritize these in this order.*

<b>Mechanical Top Ten</b>		
	<b>Plan Review</b>	<b>Inspection</b>
1. <b>Commissioning</b> C403.13, C408	Requirement shown on plans	Proof that Cx was completed before final mech inspection
2. <b>Metering</b> C409	Shown on plans.	See the metering display operating
3. <b>Heat system type</b> C403.1.4	Heat pump, not gas or elec resistance (or meet an exception)	See heat pumps installed
4. <b>TSPR</b> C403.1.1	TSPR calculation shown, ratio is >1.0 (or meet exception)	(none)
5. <b>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
6. <b>Economizers</b> C403.5, C403.5.5	Economizer, with Fault Detection (or meet exception)	
7. <b>Energy recovery</b> C403.7.6	Heat recovery on exhaust air, 60% efficient	Heat recovery operational
8. <b>Controls</b> C403.4, C403.4.1.6	Thermostats, HP supplementary heat, deadband, door switch	Contractor demonstrate controls & settings. Door switch, off-hour setback
9. <b>Ducts &amp; pipes</b> C403.10	Duct & pipe insulation, sealing & testing required, refrigerant piping insulation	Proper duct & pipe insulation, report for duct testing of high-pressure & exterior
10. <b>DDC</b> C403.4.11.1	DDC installed, unless below thresholds	Contractor demonstrate DDC settings

<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

These almost made the cut: DCV C403.7.1, Fan power C403.8.1, Fan controls C403.8.5