

2018 WA State Energy Code: Residential code review priorities:

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

(It's mostly about the R406 additional energy credits the builder selected)		
	Plan Review Requirements	Inspection
1. R406 Credits R406.1	Note on plans listing 6 credits for medium house, 3 for small, 7 for large. See sample selection below	Check that each credit was installed
2. Fuel normalization R406.2	Adds or subtracts from energy credit total	Did they use the fuel type shown on plans?
3. Certificate R401.3	Note on plans to post certificate	Check certificate information against what's shown on plans
4. Air leakage R402.4, R406.3 items 2.1 – 2.4	Note saying air barrier test is required, plus maximum air change rate for R406 credits	Test results showing they passed at required rate
5. HRV R406.3 items 2.2 – 2.4	Required with some air tightness credits	Check that HRV is installed if required
6. Heating system type R406.3 items 3.1 – 3.6	Show system type (check R406 credits)	Installed system type and efficiency matches plans
7. Hot water system R406.3 items 5.2 – 5.6	Show system type (check R406 credits)	Installed system type and efficiency matches plans
8. Window U-factor Table R402.1.1	Max U-factor 0.30 (or lower if they picked R406 envelope credits 1.1 – 1.7)	Check window sticker U-factors vs. plans
9. Typ wall insulation Table R402.1.1	R-values for each assembly. R-21 in (or higher if they picked R406 credits 1.4 – 1.7)	At cover inspection: Check insulation and continuous insulation in a typical wall
10. Ducts & Pipes R403.3, R403.4, R403.5	Note saying ducts will be pressure tested. R-8 insulation if in attic or crawl space. Hot water pipes R-3, hydronic pipes R-6 (first 200' of hydronic pipe only needs ½")	Check duct test certificate At cover inspection: Check duct & pipe insulation thickness

Sample (most common) credit package:

No.	Credits	Description
2	1.0	Fuel normalization (for heat pump heating)
3.4 or 3.5	1.5	Central heat pump or ductless mini-splits
5.5	2.0	NEEA Tier III HPWH
2.1	0.5	3.0 ACH air barrier sealing & efficient fan
1.1	0.5	U-0.24 windows
4.1	0.5	Ducts and air handler in conditioned space
	6.0	Total