

Appendix C- Required Energy Analysis Forms

Project Name:	QAP Year:
Address:	

MECHANICAL EQUIPMENT	MINIMUM REQUIREMENT	PROJECT USE Y - N - N/A	WHERE DOCUMENTED? PLANS PAGE # OR OTHER
ACCA Manual J/S or equivalent Sizing Report	Required		
Return Air Balancing System	In dwelling units with ≥ 2 BRs, pressure difference with BR door closed and air handler running is ≤ 3 pascals.		
Conventional Forced Air Furnace	≥ 90 AFUE		
Split System Central A/C and Air source heat pumps up to 135,000 Btuh	≥ 13 SEER or ≥ 8.0 HSPF and 11 EER		
Thermostatic Expansion Valves in AC	Required		
HVAC System Leakage	≤ 6 cfm or less/100 sq ft living space		
Combination Space Heating/Water Heater	$\geq 79\%$ Recovery Efficiency and 0.61 Energy Factor		
Water Heater Only	≥ 0.61 Energy Factor Or ≥ 0.58 Energy Factor with R 12 blanket		
Mechanical Fresh Air Ventilation System	Provide 15 CFM fresh air per occupant, operable windows do NOT qualify		
Combustion Appliances inside conditioned space	Power vented or direct-power vented unit.		

Hot Water Conservation Requirements – please check to verify use in project

- Showerheads - Use ≤ 2.5 gallons per minute
- Faucets - Use ≤ 2.0 gallons per minute

**** Note where in submittal information is located.**

If information is on a plan sheet, note page number, if on Audit Form Sheets, note AF, if in separate report, note (Title) Report.

BUILDING ENVELOPE	NORTHERN , RURAL	SOUTHERN	PROJECT USE Y - N - N/A	WHERE SUBMITTED PAGE # OR AUDIT FORM
ATTIC /CEILING	R38	R30		
WALLS	R19/ R21 L. Tahoe	R15		
BAND JOISTS	R19/ R21 L. Tahoe	R15		
FLOORS OVER CRAWL SPACES	R19	R15		
SLAB FOUNDATIONS	R10 Perimeter	NA		
WINDOWS	U-Factor 0.31 SHGC 0.35	U Factor 0.35 SHGC 0.30		
<p>Note on Prescriptive Building Envelope Efficiency Minimums In order to complete the energy use analysis please provide information as it pertains to this project. Efficiency must be equal to or greater than required minimums, unless an energy use analysis using an approved method demonstrates that the building and individual unit energy performance is equal to or greater than the EPA Energy Star Home program.</p>				

LIGHTS APPLIANCES	REQUIREMENT	PROJECT USE IN DWELLING UNITS Y - N - N/A	MAKE & MODEL # (IF KNOWN)
Ceiling Fans	Reversible, Energy Star Qualified		
Light Fixtures	Energy Star Qualified		
Refrigerators	Energy Star Labeled		
Dishwashers	Energy Star Labeled		
Clothes Washers	Energy Star Labeled		

**Please include on a disk or email as pdf's:
site plan, building and unit floor plans, elevations, mechanical plans, window**

and door schedules, plumbing plans

Please answer these questions for units / dwellings in the project.

Total Number of Unit Types:			
1st Floor _____	1 BR _____	2 BR _____	3 BR _____
2nd Floor _____	1 BR _____	2 BR _____	3 BR _____
3rd Floor _____	1 BR _____	2 BR _____	3 BR _____
4th Floor _____	1 BR _____	2 BR _____	3 BR _____

Flat Ceiling Height () 8 Ft () 10 Ft () Other _____ ft
--

Floor Area Over Garage? () No () Yes _____ R Value _____
Any Cantilever Floor area? () No () Yes _____ R Value _____

Crawlspace Foundations Only

Is Crawl Space Vented () Operable vents () Unvented () Open
Total Crawl Height _____ ft Height below grade only _____ ft

Slab Foundations Only

Type of Insulation if applicable _____

Ceiling Type & Insulation

Roof Type () Tile () Asphalt () Other _____ Framing 2x____: ____oc

Roof Pitch () 4 in 12 () 5 in 12 () Other _____

Where is insulation located? () on ceiling () under roof sheathing

Vault Ceilings on top floor () No () Yes

Roof Exterior Color () Light () Medium () Dark **Radiant Barrier** () Yes () No

Wall Type & Insulation

() Standard Stud Frame () Other _____ () 2x4 () 2x6 () Other _____

Will foam board be applied as exterior sheathing? () Yes () No

Mechanical Systems – Dwelling Units

Heating Systems

Type () Furnace () Combo w/Water Heater () Other _____

Size (s) _____ kBtu

Fuel Type () Natural gas () Propane _____ **Location** _____

Cooling Systems

Size (s) _____ ton

Hot Water Heaters

Energy Factor _____ **Size** _____gal

Type () Natural gas () Propane **Location** _____

Return Air System

() Transfer Grilles () Jump Ducts () Other _____

Heating and Cooling System Ducts

Supply Ducts Location _____ R _____

Type () Flex duct () Other _____

Return Ducts Location _____

Type () Flex duct () Other _____

Indoor Air Quality Fresh Air Ventilation Equipment

Manufacturer _____ **Model #** _____