

<b>Building Element</b>	<b>Minimum Rated Feature</b>
General Project Info	Total number of buildings, Dwelling Units, and total number of Bedrooms in the project.
1. Floor/Foundation Assembly	Construction type (slab-on-grade, crawlspace, basement), boundary condition (adiabatic, above unconditioned space, above Non-Freezing Space), dimensions, insulation type, value, and location (edge, under slab, cavity, sheathing), framing material and on-center spacing, insulation installation (Grade I, II, or III), vented or unvented (crawlspace), capacitance (if slab or basement receives appreciable solar gain).
2.Walls Assembly	Construction type, boundary condition (adiabatic, ambient, Multifamily Buffer Boundary), insulation value (cavity, sheathing), framing material and on-center spacing, insulation installation (Grade I, II, or III), capacitance, exterior color (light, medium, or dark).
3.Roof/Ceiling Assembly	Construction type, insulation value (cavity, sheathing), framing material and on-center spacing, insulation installation (Grade I, II, or III), framing covered by insulation or exposed, roof color (light, medium, or dark).
4.Rim/Band Joists or Floor Perimeters	Insulation value (cavity, sheathing).
5.Doors	Construction type, insulation value.
6.Windows	Construction type, orientation, U-value (of complete assembly), solar heat gain coefficient (of complete assembly), operable/inoperable, shading due to permanent, fixed shading devices attached to the building such as fins and overhangs. Window screens, security bars, balcony railings, movable awnings, roller shades, and shade from adjacent buildings, trees and shrubs shall not be included.
7.Skylights	Construction type, orientation, tilt, U-value (of complete assembly), solar heat gain coefficient (of complete assembly), shading.
8.Passive Solar System (Direct Gain System)	Solar type, collector type and area, orientation, tilt, efficiency, storage tank size, and pipe insulation value.
9. Air Leakage	Air leakage measurement and type (default estimate, blower door test), Infiltration Volume, Conditioned Space Volume.
10. Distribution System	System type, location, insulation value (duct and pipe), air leakage measurement and type (default estimate, duct pressurization).
11. Heating Equipment	Equipment type, location, capacity, efficiency (AFUE, HSPF, COP), Electric Auxiliary Energy (Eae), power rating of ground fluid circulating pump(s) for ground-loop and ground-water Heat Pumps, power rating of pumping system for shared boiler distribution.

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12. Cooling Equipment	Equipment type, location, capacity, efficiency (SEER, COP, kW/ton), power ratings for the following: Cooling Tower (sprayer pump(s) and fan motor), outdoor system circulation loop pump, indoor system circulation loop pump and Cooling Tower fan/blower and circulation pump.
13. Control Systems	Thermostat type.
14. Service Hot Water Equipment	<p>For Residential Equipment - Equipment type, location, Energy Factor or Uniform Energy Factor, extra tank insulation R-value, flow rates of showers and faucets.</p> <p>For Commercial Equipment - Equipment type, location, Uniform Energy Factor or Thermal Efficiency and Standby Loss, extra tank insulation value, flow rates of showers and faucets.</p> <p>Distribution Related: Distribution System Type (standard, recirculation), Recirculation System controls [none, timer, temperature, demand (manual) or demand (sensor)], pipe insulation R-value, pipe length for standard distribution, branch length for recirculation, supply + return loop length, pump power (Watts, HP).</p>
15. Solar Domestic Hot Water Equipment	System type, collector type and area, orientation, tilt, efficiency, storage tank size, pipe insulation value.
16. Light Fixtures	Number of Qualifying Tier I, Tier II, and non-Qualifying Light Fixtures in Qualifying Light Fixture Locations within the contiguous area that is for the sole use of the Rated Home occupants, including kitchens, dining rooms, living rooms, family rooms/dens, bathrooms, hallways, stairways, entrances, Bedrooms, garage, utility rooms, home offices, and all outdoor fixtures mounted on a building or pole. This excludes plug-in lamps, closets, unconditioned basements, lighting for common spaces, parking lot lighting, and landscape lighting.
17. Refrigerator(s)	Total annual energy consumption (kWh) for all refrigerators located within the Rated Home and any refrigerators outside the Rated Home for daily use by the Rated Home occupants as determined from either the refrigerator Energy Guide label or from age-based defaults as defined in Section 4.2.2.5.2.5.
18. Dishwasher(s)	Labeled Energy Factor (cycles/kWh) or labeled energy consumption (kWh/y) for all dishwashers located within the Rated Home and any dishwashers outside the Rated Home intended for daily use by the Rated Home occupants as defined in Section 4.2.2.5.2.9.
19. Range/Oven	Burner Energy Factor (BEF) and Oven Energy Factor (OEF) as defined in Section 4.2.2.5.2.7.

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20. Clothes Washer	Location, source of hot water, type (residential or commercial); Labeled Energy Rating (kWh/y), electric rate (\$/kWh), annual gas cost (AGC), and gas rate (\$/therm) from Energy Guide label; and washer capacity (cubic feet) from manufacturer's data or the CEC Appliance Efficiency Database or the EPA ENERGY STAR website, for all clothes washers located within the Rated Home or any clothes washers in the building intended for use by the Rated Home occupants, as defined in Section 4.2.2.5.2.10.
21. Clothes Dryer	Location, clothes washer Modified Energy Factor(MEF) or Integrated Modified Energy Factor (IMEF) and clothes washer Labeled Energy Rating (kWh/y) from Energy Guide label; clothes washer capacity from manufacturer's data or CEC Appliance Efficiency Database or EPA ENERGY STAR website; and clothes dryer Efficiency Factor (EF) or Combined Efficiency Factor (CEF) from CEC Appliance Efficiency Database or EPA ENERGY STAR website, for all clothes dryers located in the Rated Home or any clothes dryers in the building intended for use by the Rated Home occupants, as defined in Section 4.2.2.5.2.8.
22. Ceiling Fans	Total number of ceiling fans in the Dwelling Unit, Labeled cfm, Watts, and cfm/Watt at medium fan speed from each ceiling fan label.
23. Dwelling-Unit Mechanical Ventilation System(s)	Ventilation strategy (Supply, Exhaust, or Balanced), equipment type (individual or shared), daily run hours, measured exhaust airflow, measured supply airflow, system rated airflow, and fan wattage <sup>52</sup> . Where shared systems occur, include percentage of outdoor air in supply air, rated exhaust airflow and rated supply airflow of the shared systems. Fan motor efficiency and horsepower are acceptable substitutes for fan wattage.
24. Systems pre-conditioning Ventilation Air	System type (heating, cooling, both), efficiency, fan power, system rated airflow.
25. On-site Power Production	System type, total annual kWh generation, and total site fuel used in the On-Site Power Production as derived from manufacturer's performance ratings.

<sup>52</sup> (Informative Note) A source for fan wattage is the Certified Home Ventilating Products Directory available from the Heating and Ventilation Institute (HVI).