CALIFORNIA ENERGY COMMISSION

CALIFORNIA NATURAL RESOURCES AGENCY

California Energy Commission

STAFF REPORT

Appendix A: Special Features

FOR THE 2025 BUILDING ENERGY EFFICIENCY STANDARDS

Energy Conservation Manual

October 2025 |CEC-400-2025-007-AP-A

APPENDIX A – SPECIAL FEATURES

Measure, CF1R Documentation Requirement

General

Battery System kWh, Special feature

Community Solar: kWdc of [utility and project name], Special feature

Controlled-Ventilation Crawlspace (CVC), Not yet implemented

PV System kWdc, Special feature

PV module type: Premium, Special feature

PV module type: Thin Film, Special feature

PV array type: Tracking (one axis), Special feature

PV array type: Tracking (two axis), Special feature

PV power electronics: Microinverters, Special feature

PV power electronics: DC power optimizers, Special feature

PV exception 1: Effective solar access < 80 ft2, Special feature

PV exception 2: Smaller of solar access and home area-based size (CZ 15 only), Special feature

PV exception 3: 2 habitable stories, Special feature

PV exception 4: 3 habitable stories, Special feature

PV exception 5: 80-200 ft2 solar ready zone approved before 1/1/20, Special feature

PV exception 6: AB 178 Declared emergency area, Special feature

Self-utilization credit, Special feature

Zonal heating controls, Special feature

Envelope

Insulation above roof deck, Special feature

Advanced wall framing (see opaque surface constructions), Special feature

Insulation below roof deck, Special feature

Building air leakage/reduced infiltration, Energy Code Compliance (ECC) verification of reported ACH50 value

Ceiling has high level of insulation, Special feature

Cool roof, Special feature

Dynamic glazing, Not yet implemented

Exterior shading device, Not yet implemented

Exposed slab floor in conditioned zone, Special feature

Metal-framed assembly, Special feature

Window overhangs and sidefins, Special feature

Quality insulation installation (QII), ECC verification

High R-value Spray Foam Insulation, ECC verification

Raised heel truss (height above top plate), Special feature

Structurally insulated panel (SIP) assembly, Special feature

Mechanical

Fan Efficacy Watts/CFM, ECC verification

Minimum Airflow, ECC verification

Central fan ventilation cooling, fixed speed, ECC verification

Central fan ventilation cooling, variable speed, ECC verification

Verified EER, ECC verification

Evaporatively-cooled condenser, ECC verification

Evaporative cooling, indirect, indirect/direct, Not yet implemented

Verified heat pump rated heating capacity, ECC verification

Verified HSPF, ECC verification

Verified SEER, ECC verification

Indoor air quality mechanical ventilation, ECC verification

Indoor air quality, balanced fan, Special feature

Kitchen range hood, ECC verificationNo cooling system installed, Special feature

Pre-cooling credit, Special feature

Verified Refrigerant Charge), ECC verification

Refrigerant charge verification required if a refrigerant containing component is altered, ECC verification

Whole house fan airflow and fan efficacy, ECC verification

Whole house fan, Special feature

Ducts

Duct design specifies buried duct, ECC verification

Bypass duct conditions in zonal system(s), ECC verification

Duct design specifies deeply buried duct, ECC verification

Duct leakage testing, ECC verification

Ducts located entirely in conditioned space confirmed by duct leakage testing, ECC verification

Ducts in crawl space, Special feature

Duct sealing required if a duct system component, plenum, or air handling unit is altered, ECC verification

Ducts with high level of insulation, Special feature

Low leakage air handling unit, ECC verification

Verified low leakage ducts in conditioned space must meet maximum 25 cfm leakage to outside (RA3.1.4.3.8), ECC verification

New ductwork added is less than 40 ft. in length, Special feature

Non-standard duct leakage target, ECC verification

Non-standard duct location (any location other than attic), Special feature

Verified duct design (RA3.1.4.1.1), ECC verification

Water Heating

Compact distribution system basic credit, Special feature

Compact distribution system expanded credit, ECC verification

Drain water heat recovery system, ECC verification

Multifamily: Drain water heat recovery system, ECC verification

Multifamily: Recirculating demand control, Special feature

Multifamily: No loops or recirc pump, Special feature

Multifamily: Recirculating with no control (continuous pumping), Special feature

Multifamily: Recirculating with temperature modulation, Special feature

Multifamily: Recirculating with temperature modulation and monitoring, Special feature

Solar water heating credit, Multi-family, Special feature

Central parallel piping, Special feature

Central parallel piping, ECC verification

Pipe Insulation, All Lines, ECC verification

Point of use, Special feature

Recirculating with demand control, occupancy/ motion sensor, Special feature

Recirculation, demand control occupancy/motion, ECC verification

Recirculating with demand control, push button, Special feature

Recirculation, demand control push button, ECC verification

Recirculating with non-demand control (continuous pumping), Special feature

Solar water heating credit, single family, Special feature

Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed, Special feature

Additions/Alterations

Verified existing conditions, ECC verification