

RESIDENTIAL MEASURES SUMMARY							RMS-1	
Project Name Resendiz Addition	Building Type Single Family	Completion Date 4/8/2017	Total Cond. Floor Area 2,472		Addition 757		# of Units 1	
INSULATION								
Construction Type	Cavity (ft ²)	Special Features	Status					
Floor Wood Framed w/Crawl Space	no insulation 1,733		Existing					
Wall Wood Framed	R 11 1,007		Existing					
Door Opaque Door	no insulation 38		Existing					
Floor Wood Framed Attc	R 19 1,735		Existing					
Demising Wood Framed	no insulation 150		New					
Floor Wood Framed w/Crawl Space	R 19 139		New					
Wall Wood Framed	R 13 1,102		New					
Door Opaque Door	no insulation 30		New					
FENESTRATION								
Orientation	Area(ft ²)	U-Fac	SHGC	Overhang	Sidelins	Exterior Shades	Status	
Front (NW)	15.0	0.320	0.25	2.0	none	Bug Screen	Altered	
Front (NE)	9.7	1.280	0.80	none	none	Bug Screen	Existing	
Left (NE)	63.0	1.280	0.80	none	none	Bug Screen	Existing	
Rear (SE)	22.0	1.280	0.80	none	none	Bug Screen	Existing	
Right (SW)	165.9	1.280	0.80	none	none	Bug Screen	Existing	
Right (SW)	24.0	0.320	0.25	2.0	none	Bug Screen	Altered	
Front (NW)	27.0	0.320	0.25	2.0	none	Bug Screen	New	
Left (NE)	19.0	0.320	0.25	2.0	none	Bug Screen	New	
Rear (SE)	9.0	0.320	0.25	2.0	none	Bug Screen	New	
Right (SW)	15.0	0.320	0.25	2.0	none	Bug Screen	New	
HVAC SYSTEMS								
Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status		
1	Central Furnace	90% AFUE	Split Air Conditioner	14.0 SEER	Setback	New		
HVAC DISTRIBUTION								
Location	Heating	Cooling	Duct Location	Duct R-Value	Status			
HVAC System	Ducted	Ducted	Conditioned	6.0	New			
WATER HEATING								
Qty.	Type	Gallons	Min. Eff	Distribution	Status			
1	Small WaterHeaterless Gas	0	0.99	Standard	New			

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Floor Wood Framed Attc	R 30 873	Cool Roof	New					
Floor Wood Framed w/Crawl Space	R 19 557		New					
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2016 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. *Exceptions may apply. (Original 06/2016)

Building Envelope Measures:	
§ 110.6(a)(1)	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 dm ³ /m ² or less when tested per 197C, ASHRAE 279 or ASHRAE 279C or ASHRAE 279C-1. (Original 06/2016)
§ 110.6(a)(5)	Labeling. Fenestration products must have a label meeting the requirements of § 110.11(a).
§ 110.6(a)(7)	Field Fabricated Exterior Doors and Fenestration Products must use U-factors and solar heat gain coefficient (SHGC) values from TABLES 110.6.A and 110.6.B for compliance and must be caulked and/or weatherstripped.*
§ 110.7	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stopped.
§ 110.8(a)	Insulation Certification by Manufacturers. Insulation gasketed or installed must meet Standards for Insulating Material.
§ 110.8(a)	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(b)	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) when the installation of a cool roof is specified on the CP 19.
§ 110.8(j)	Ballast Barriers. A radiant barrier must have an emittance of 0.05 or less and be certified by the Department of Consumer Affairs.
§ 110.8(j)	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood frame ceiling or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.*
§ 150.0(a)	Loose-Fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(b)	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or less in a U-factor of 0.102 or less (R-19 in 2x6 or U-factor of 0.074 or less). Certain non-framed assemblies must have an overall assembly U-factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly.*
§ 150.0(d)	Raised-Floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*
§ 150.0(f)	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 2%, have a water vapor permeance no greater than 2.0 perm-inch, be protected from physical damage and UV light deterioration, and when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)(1)	Vapor Retarder. In Climate Zones 1-9, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to conditioned ventilation crawl spaces for buildings complying with the exception in § 150.0(g).
§ 150.0(g)(2)	Vapor Retarder. In Climate Zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vertical soffits, and unvented attics, and unvented attics, and unvented attics.
§ 150.0(i)	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58 or the weighted average U-factor of all fenestration must not exceed 0.58.*
Fenestration, Decorative Gas Appliances, and Gas Loss Measures:	
§ 150.0(a)(3)	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(a)(8)	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and light filtering damper or combustion air control device.*
§ 150.0(a)(9)	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
§ 150.0(a)(2)	Pilot Light. Continuous burning pilot lights and the use of indoor air for cooling a flueless jacket, when that indoor air is vented to the outside of the building, are prohibited.
Space Conditioning, Water Heating, and Plumbing System Measures:	
§ 110.0-110.3	Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the Energy Commission.*
§ 110.2(a)	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in TABLE 110.2-A through TABLE 110.2-K.*
§ 110.2(b)	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump, and in which the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.*
§ 110.2(c)	Thermostats. All unitary heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*
§ 110.2(d)	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(6).
§ 110.3(a)	Insulation Valves. Instantaneous water heaters with an input rating greater than 8.8 MBTU/hr (2.6 kW) must have insulation valves with hose bibbs or other fittings on both cold water and hot water lines of water heating systems to allow for water leak shut-off when the valves are closed.
§ 110.3	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type combustion furnaces, household cooking appliances (appliance without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.*
§ 150.0(b)(1)	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume, SMACNA Residential Comfort System Installation Standards Manual, or ACCA Manual J using design conditions specified in § 150.0(b)(2).



2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(a)(3)	Ceiling. Installed air conditioner and heat pump outdoor condensing units must have a clearance of at least 5 feet from the ceiling of any dry wall.
§ 150.0(a)(3)	Liquid Line Drain. Installed air conditioner and heat pump systems must be equipped with liquid line filter driers if required, as specified by manufacturer's instructions.
§ 150.0(a)(1)	Storage Tank Insulation. Unvented hot water tanks, such as storage tanks and backup storage tanks for solar water heating systems, must have R-12 external insulation or R-18 external insulation when the external insulation R-value is indicated on the exterior of the tank.
§ 150.0(a)(2)	Water piping and cooling system line insulation. For domestic hot water systems piping, whether buried or unburied, all of the following must be insulated according to the requirements of TABLE 120.3-A: the first 5 feet of hot and cold water pipes from the storage tank, all piping with a nominal diameter of 3/4 inch or larger, all piping associated with a domestic hot water recirculation system regardless of the pipe diameter, piping from the heating source to storage tank or between tanks, piping buried below grade, and all hot water pipes from the heating source to kitchen fixtures.*
§ 150.0(a)(2)	Water piping and cooling system line insulation. All domestic hot water pipes that are buried below grade must be installed in a water proof and non-combustible casing or other approved enclosure.
§ 150.0(a)(2)	Water piping and cooling system line insulation. Pipe for cooling system lines must be insulated as specified in § 150.0(a)(2). Distribution piping for steam and hydronic heating systems or hot water systems must meet the requirements in TABLE 120.3-A.*
§ 150.0(a)(2)	Insulation Protection. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.
§ 150.0(a)(3)	Insulation Protection. Insulation applied to exterior walls must be covered suitable for outdoor service. For example, protection by stucco, metal siding, painted canvas, or plastic cover. The cover must be water resistant and provide shielding from solar radiation that can cause degradation of the material.
§ 150.0(a)(3)	Insulation Protection. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must have a Class I or Class II vapor retarder.
§ 150.0(a)(1)	Gas or Propane Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: a 1/2" electrical receptacle within 3 feet of the water heater, a Category II or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed, a condensate drain that is no more than 2 inches higher than the base of the water heater, and above natural draught without pump assistance, and a gas supply line with a capacity of at least 200,000 Btu/hr.
§ 150.0(a)(2)	Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(6).
§ 150.0(a)(3)	Solar Water-Heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC) or by a listing agency that is approved by the Insurance Director.
Ducts and Fans Measures:	
§ 110.8(a)(3)	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(a)(1)	CMC Compliance. All air-distribution system ducts and plenums must be installed, sealed, and insulated to meet the requirements of CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSICMCA2016-2016 HVAC Duct Distribution Standards Make and Flexible Ducts. Portions of supply-air and return-air ducts and plenums must be insulated to a minimum installed level of R-6.0 (or higher if required by CMC § 605.0) or a minimum installed level of R-4.2 when entries in conditioned space as confirmed through field verification and diagnostic testing (R4.1 & 3.8). Connections of metal ducts and enter core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B (if an approved sealant that meets the requirements of UL 723 if mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and other mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or controlled with materials other than rigid sheet metal, duct board or flexible duct must not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area of the ducts.*
§ 150.0(a)(2)	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures, parts and name of duct systems and their components must be coated with clean back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(a)(3)	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for pressure-sensitive tapes, mastics, sealants, and other materials specified for duct construction.
§ 150.0(a)(7)	Backdraft Dampers. All fan systems that exchange air between the conditioned space and the outside of the building must have backdraft or automatic dampers.*
§ 150.0(a)(6)	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, normally operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(a)(1)	Protection of Insulation. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protection by stucco, metal siding, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water resistant and provides shielding from solar radiation.
§ 150.0(a)(1)	Perimeter Inner Core Flux Duct. Perimeter inner core flux duct must have a non-porous layer between the inner core and outer vapor barrier.
§ 150.0(a)(1)	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with § 150.0(a)(1) and Reference Appendix RA3.
§ 150.0(a)(2)	Air Filtration. Mechanical systems that supply air to an occupiable space through ductwork exceeding 10 feet in length and through a thermal conditioning component, except evaporative coolers, must be provided with all the devices that meet the design, installation, efficiency, pressure-drop, and labeling requirements of § 150.0(a)(2).



2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(a)(3)	Duct System Sealing and Air Filter Gasket Sealing. Space conditioning systems that use forced air ducts to supply cooling to an occupiable space must have a test for the presence of a static pressure probe (HSPDP), or a permanently installed static pressure probe (PSDP), in the supply plenum. The space conditioning system must also demonstrate airflow at 350 CFM per fan of nominal cooling capacity through the return grilles, and an air-handling unit efficiency of 0.93 WECU as confirmed by field verification and diagnostic testing, in accordance with Reference Appendix RA3.3. This applies to both single zone central forced air systems and every zone for zoned centrally controlled forced air systems.*
§ 150.0(a)	Ventilation for Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2. Neither window operation nor continuous operation of central forced air system or handsets used in central fan integrated ventilation systems are permissible methods of providing whole-building ventilation.
§ 150.0(a)(1)	Field Verification and Diagnostic Testing. Whole-building ventilation airflow must be confirmed through field verification and diagnostic testing, in accordance with Reference Appendix RA3.7.
Pool and Spa Systems and Equipment Measures:	
§ 110.4(a)	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to list all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions, and must not use electric resistance heating.*
§ 110.4(b)(1)	Piping. Any pool or spa heating equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)(2)	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)(3)	Directional Inlets and Line Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a line switch that will allow all pumps to be shut or programmed to run only during off-peak electric demand periods.
§ 110.5	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(a)	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, pump filters, and valves.*
Lighting Measures:	
§ 110.9	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 110.9(a)	JAB High Efficacy Light Sources. To qualify as a JAB high efficacy light source for compliance with § 150.0(a), a residential light source must be certified to the Energy Commission according to Reference Joint Appendix JAB.
§ 150.0(a)(1)	Luminaire Efficiency. All installed luminaires must be high efficacy in accordance with TABLE 150.0-A.
§ 150.0(a)(1)	Blank Electrical Boxes. The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.*
§ 150.0(a)(1)	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for induction contact (IC) labeling, air leakage, sealing, maintenance, and socket and light source as described in § 150.0(a)(1). A JAB 2016-E light source rated for recessed temperature must be installed by field inspection at all recessed downlight luminaires in ceilings.
§ 150.0(a)(1)	Electronic Ballasts. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic, and must have an output frequency no less than 20 kHz.
§ 150.0(a)(1)	Night Lights. Permanently installed night lights and night lights integral to installed luminaires or exhaust fans must be rated to consume no more than 5 watts of power per luminaire or exhaust fan as determined in accordance with § 130.0(c). Night lights do not need to be controlled by vacancy sensors.
§ 150.0(a)(1)	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hood) must meet the applicable requirements of § 150.0(a).
§ 150.0(a)(1)	Scene Based Luminaires. Scene based luminaires must be recessed downlight luminaires in ceilings and must contain lamps that comply with Reference Joint Appendix JAB. Installed lamps must be marked with "JAB-2016" or "JAB-2016-E" as specified in Reference Joint Appendix JAB.
§ 150.0(a)(1)	Enclosed Luminaires. Light sources installed in enclosed luminaires must be JAB compliant and must be marked with "JAB-2016-E."
§ 150.0(a)(2)	Interior Switches and Controls. All in-wall phase out dimmers used with LED light sources must comply with NECA 99L.7A.
§ 150.0(a)(2)	Interior Switches and Controls. Exhaust fans must be switched separately from lighting systems.*
§ 150.0(a)(2)	Interior Switches and Controls. Luminaires must be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.
§ 150.0(a)(2)	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(a)(2)	Interior Switches and Controls. No control must bypass a dimmer or vacancy sensor function of the control as installed to comply with § 150.0(a).
§ 150.0(a)(2)	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(a)(2)	Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with dimmer requirements if it functions as a dimmer according to § 110.9, meets the Installation Certificate requirements of § 130.4, meets the EMCS requirements of § 130.5(a), and meets all other requirements in § 150.0(a)(2).
§ 150.0(a)(2)	Interior Switches and Controls. An EMCS may be used to comply with vacancy sensor requirements in § 150.0(a) if it meets all of the following: it functions as a vacancy sensor according to § 110.9, the Installation Certificate requirements of § 130.4, the EMCS requirements of § 130.5(a), and all other requirements in § 150.0(a)(2).
§ 150.0(a)(2)	Interior Switches and Controls. A multibeam programmable controller may be used to comply with dimmer requirements in § 130.5(a) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(a)(2).



2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(a)(2)	Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by a vacancy sensor.
§ 150.0(a)(2)	Interior Switches and Controls. Dimmers or vacancy sensors must control all luminaires required to have light sources compliant with Reference Joint Appendix JAB, except luminaires in closets less than 70 square feet and luminaires in hallways.*
§ 150.0(a)(2)	Interior Switches and Controls. Occupancy lighting must be switched separately from other lighting systems.
§ 150.0(a)(3)	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirements in Annex 150.0(a)(3), ON and OFF switches and the requirements in either Item § 150.0(a)(3)(a) (photocell and motion sensor) or Item § 150.0(a)(3)(b) (photo control and automatic time switch control, astronomical time clock, or EMCS).*
§ 150.0(a)(3)	Residential Outdoor Lighting. For low-rise multifamily residential buildings, outdoor lighting for private patios, entrances, balconies, and porches, and outdoor lighting for residential parking lots and residential carports with less than eight vehicles per site must comply with either § 150.0(a)(3) or with the applicable requirements in §§ 110.9, 130.2, 130.2, 130.2, 140.7, and 141.9.
§ 150.0(a)(3)	Residential Outdoor Lighting. Outdoor lighting for residential parking lots and residential carports with a total of eight or more vehicles per site must comply with the applicable requirements in §§ 110.9, 130.2, 130.2, 130.2, 140.7, and 141.9.
§ 150.0(a)(4)	Internally Illuminated Address Signs. Internally illuminated address signs must comply with § 140.8, or must consume no more than 5 watts of power as determined according to § 130.0(a).
§ 150.0(a)(5)	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for recreational garages in §§ 110.9, 130.2, 130.2, 130.4, 140.8, and 141.9.
§ 150.0(a)(6)	Interior Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior common areas in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be high efficacy luminaires and controlled by an occupied sensor.*