



**CITY OF ENCINITAS**  
**Residential Building Energy Efficiency Regulations**  
Encinitas Municipal Code Section 23.12.080.C



### What projects are affected?

City Council Ordinance 2022-13, adopted by City Council on October 26, 2022 affects **existing low-rise multifamily residential building additions or alterations with a permit value of \$50,000 or higher.** The ordinance is effective as of January 1, 2023 as part of EMC Section 23.12.080.E.

### What are the requirements?

Applicable projects shall include any one of the measures identified in the following Table 180.5-A. The measures shall be installed to the specifications in Table 180.5-B located on the following page.

Table 180.5-A: Multifamily Requirements			
	Building Vintage		
Measures	Pre-1978	1978-1991	Post-1991
LED Lamps, Vacancy Sensors and Exterior Photocells	Available	Available	Available
Water Heating Package	Available	Available	Available
Cool Roof	Available	Available	Available
R-38 Attic Insulation and Air Sealing	Available	Available	Available
Duct Sealing	Available	Available	Not applicable
New Ducts + Duct Sealing	Available	Available	Available
Windows	Available	Available	Available
R-13 Wall Insulation	Available	Not applicable	Not applicable
Floor Insulation	Available	Not applicable	Not applicable
Heat Pump Water Heater (HPWH)	Available	Available	Available
Heat Pump HVAC	Available	Available	Available
Heat Pump Clothes Dryer	Available	Available	Available
Induction Cooktop	Available	Available	Available
PV + Electric Ready Pre-Wire	Available	Available	Available

### Are there any exceptions?

The multifamily energy efficiency requirement applies to projects that trigger square footage or permit value requirements. Where a project does not trigger requirements, this requirement does not apply.



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## Measurement Specifications:

**Table 180.5-B: Multifamily Measure Specifications**

**LED lamps, Vacancy Sensors and Exterior Photocells:** Replace all interior and exterior screw-in incandescent, halogen, and compact fluorescent lamps with LED lamps. Install manual-on automatic-off vacancy sensors that meet Title 24 Section 110.9(b)4 in all bathrooms, bedrooms, offices, laundry rooms, utility rooms, and garages. Spaces which already include vacancy sensors, motion sensors, or dimmers do not need to install new Title 24 Section 110.9(b)4 sensors. Install photocell controls on all exterior lighting luminaires.

**Water Heating Package:** Add exterior insulation meeting a minimum of R-6 to existing storage water heaters. Insulate all accessible hot water pipes with pipe insulation a minimum of ¾ inch thick. This includes insulating the supply pipe leaving the water heater, piping to faucets underneath sinks, and accessible pipes in attic spaces or crawlspaces. Upgrade fittings in sinks and showers to meet current California Green Building Standards Code (Title 24, Part 11) Section 4.303 water efficiency requirements.

**Cool Roof:** Install a cool roof. For steep-sloped roofs (ratio of rise to run greater than 2:12) install a roofing product rated by the Cool Roof Rating Council to have an aged solar reflectance equal to or greater than 0.25, and a thermal emittance equal to or greater than 0.75. Low slope roofs (ratio of rise to run of 2:12 or less) shall meet the requirements of Section 180.2(b)1li of 2019 Title 24, Part 6. All exceptions as stated in 2022 Title 24 Section 180.2(b)1li for low slope roofs and 180.2(b)1lii for steep slope roofs are allowed.

### **R-38 Attic Insulation and Air Sealing**

**Attic Insulation:** Attic insulation shall be installed to achieve a weighted assembly U-factor of 0.026 or insulation installed at the ceiling level shall have a thermal resistance of R-38 or greater for the insulation alone. Recessed downlight luminaires in the ceiling shall be covered with insulation to the same depth as the rest of the ceiling. Luminaires not rated for insulation contact must be replaced or fitted with a fire-proof cover that allows for insulation to be installed directly over the cover. Existing R-19 insulation satisfies this requirement.

**Air Sealing:** Seal all accessible cracks, holes, and gaps in the building envelope at walls, floors, and ceilings. Pay special attention to penetrations including plumbing, electrical, and mechanical vents, recessed can light luminaires, and windows. Weather-strip doors if not already present. Testing shall be conducted by a certified HERS Rater no more than three years prior to the permit application date that either: a) shows at least a 30 percent reduction from pre-retrofit conditions; or b) shows that the number of air changes per hour at 50 Pascals pressure difference (ACH50) does not exceed ten for Pre-1978 vintage buildings, seven for 1978 to 1991 vintage buildings and five for post 1991 vintage buildings. If combustion appliances are located within the pressure boundary of the building, conduct a combustion safety test by a professional certified by the Building Performance Institute in accordance with the ANSI/BPI-1200-S-2017 Standard Practice for Basic Analysis of Buildings, the Whole House Combustion Appliance Safety Test Procedure for the Comfortable Home Rebates Program 2020 or the California Community Services and Development Combustion Appliance Safety Testing Protocol.

**Duct Sealing:** Air seal all space conditioning ductwork to meet the requirements of 2022 Title 24 Section 180.2(b)2Aiii. The duct system must be tested by a HERS Rater no more than three years prior to the Low-Rise Multifamily Covered Project permit application date to verify the duct sealing and confirm that the requirements have been met.



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**New Ducts + Duct Sealing:** Replace existing space conditioning ductwork with new R-8 ducts that meet the requirements of 2022 Title 24, Part 6 Section 160.3(b)5.K, with the exception that the maximum duct leakage be reduced from the current code requirement of 12 percent to five percent. To qualify, a preexisting measure must have been installed no more than three years before the Low-Rise Multifamily Covered Project permit application date.

**Windows:** Replace all existing windows with high performance windows with an area-weighted average U-factor no greater than 0.32.

**R-13 Wall Insulation:** Install wall insulation in all exterior walls to achieve a weighted U-factor of 0.102 or install wall insulation in all exterior wall cavities that shall result in an installed thermal resistance of R-13 or greater for the insulation alone.

**Floor Insulation:** Install floor insulation in the floor cavity of all exterior raised floors to achieve a weighted U-factor of 0.037 or an installed thermal resistance of R-19 or greater for the insulation alone.

**PV+ Electric Ready Pre-Wire:** Install a solar PV system that meets the prescriptive requirements in Section 170.2(f). The system shall be sized such that the estimated annual kWh production shall not exceed the projected annual kWh demand. Upgrade the panelboard serving the individual dwelling to provide circuit breaker spaces for a heat pump water heater, heat pump space heater, electric cooktop and electric clothes dryer with the capacities specified in California Energy Code Section 150.0 (n), (t), (u) and (v); or, provide electrical load calculations and appliance specifications for serving all of these end-uses with a minimum 100-amp panel. Install any two circuits for electric appliances from the list below:

1. Heat Pump Water Heater Ready, as otherwise specified for Single Family buildings in Section 150.0(n)1
2. Heat Pump Space Heater Ready, as specified in Section 160.9(a)
3. Electric Clothes Dryer Ready, as specified in Section 160.9(b)
4. Electric Cooktop Ready, as specified in Section 160.9(b)
5. Energy Storage Systems (ESS) Ready, as otherwise specified for Single Family buildings in Section 150.0(s)
6. EV Charger Ready. Install a dedicated 208/240-volt branch circuit as specified in the California Green Building Code, Title 24, Part 11, Section A4.106.8.1, which otherwise applies to single family new construction

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