



# CITY OF DANA POINT

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## 2005 BUILDING ENERGY EFFICIENCY STANDARDS

*PERSCRIPTIVE ENERGY COMPLIANCE (PACKAGE "D")  
FOR RESIDENTIAL ADDITIONS, ALTERATIONS, RENOVATIONS, AND NEW CONSTRUCTION*

### NEW TITLE 24 REQUIREMENTS - CLIMATE ZONE 6 ONLY

#### FENESTRATIONS GUIDELINES

Retrofit and replacement windows require U-Factor of 0.67 minimum

#### Additions up to 100 square feet

1. Fenestrations shall not have more than 50 square feet of fenestration area
2. Shall meet the U-factor and solar heat gain coefficient requirements of Package D (Table 151-B)
3. U-Factor of 0.67 minimum
4. All other Package D components apply

#### Additions up to 1000 square feet

1. Limited to the total glazing area allowed in Package D plus the glazing area that was removed by the addition
2. Wall insulation value need not exceed R-13
3. U-Factor of 0.67 minimum
4. All other Package D components apply

#### Additions of more than 1000 sq. Feet

1. Shall meet all the requirements of new construction
2. U-factor of 0.42

#### Minimum requirements for renovations not adding additional square footage

1. Mandatory measures Summary MF-1R
2. Residential Kitchen Lighting Worksheet WS-5R
3. Insulation required per table 151-C

#### Mandatory measures - Residential lighting shall comply with section 150(K)

1. Kitchen lighting shall be high efficacy luminaries (40 lumens per watt). Provide worksheet WS-5R. 50% of kitchen lighting to comply. (based on wattage)
2. Bathrooms, Garages, Laundry Rooms, and Utility Rooms shall be high efficacy luminaries (40 lumens per watt) or controlled by an occupancy sensor certified to comply with sec.119(d)
3. General residential Lighting shall be high efficacy luminaries (40 lumens per watt) or controlled by a dimmer switch certified to comply with sec.119(d)
4. Recessed luminaries installed in insulated ceiling shall be IC rated (zero clearance) and AT rated (air tight) and shall be sealed and/or gasketed between ceiling and housing.
5. Outdoor lighting shall be high efficacy luminaries (40 lumens per watt) or controlled by a motion sensor with integral photo-control certified to comply with sec.119(d)
6. The maximum flow rate standards set by the California Energy Commission:
  - a. Water Closets: 1.6 GPM
  - b. Showerheads: 2.5 GPM
  - c. Laundry Faucets: 2.2 GPM
  - d. Sink Faucets: 2.5 GPM

FOR FURTHER INFORMATION CONTACT THE CALIFORNIA ENERGY COMMISSION [WWW.ENERGY.CA.GOV](http://WWW.ENERGY.CA.GOV)

**PERSCRIPTIVE ENERGY COMPLIANCE (PACKAGE "D")**  
**MINIMUM SUBMITTAL REQUIREMENTS**

Effective Oct.1, 2005, the following will apply to all submittals received after the effective date (plan check submittal date will determine the compliance)

Residential additions without kitchen using "Package D" will require the following:

- |  |       |         |
|--|-------|---------|
| 1. Certificate of compliance             | CF-1R | 4 pages |
| 2. Mandatory measures summary            | MF-1R | 2 pages |
| 3. Fenestrations – max allowed worksheet | WS-4R | 1 page  |

Residential additions with kitchen using "Package D" will require the following:

- |   |       |         |
|---|-------|---------|
| 1. Certificate of compliance              | CF-1R | 4 pages |
| 2. Mandatory measures summary             | MF-1R | 2 pages |
| 3. Fenestrations – max allowed worksheet  | WS-4R | 1 page  |
| 4. Residential Kitchen Lighting Worksheet | WS-5R | 1 page  |

Residential new construction, Residential Additions of more than 1,000 square feet, and/or Renovations modifying 50% or more of the existing square footage using "Package D" will require the following:

- |  |       |          |
|--|-------|----------|
| 1. Certificate of compliance                     | CF-1R | 4 pages  |
| 2. Mandatory measures summary                    | MF-1R | 2 pages  |
| 3. Fenestrations – max allowed worksheet         | WS-4R | 1 page   |
| 4. Residential Kitchen Lighting Worksheet        | WS-5R | 1 page   |
| 5. Certificate of Field Verification and Testing | CF-4R | 8 pages  |
| 6. Installation Certificate**                    | CF-6R | 12 pages |

New Construction or Additions using Solar Water Heating add to package

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|---|-------|--------|
| 1. Solar Water Heating Calculating Form | CF-SR | 3pages |
|---|-------|--------|

New HVAC installations will require 13 SEER rating minimum, Mandatory Measures Summary (MF-1R)

Any addition or renovation area will require compliance with the mandatory measures requirements for the portion of area where the new work occurs. Removal of drywall constitutes a renovation and will require compliance with the new measures.

This does not cover all the requirements for compliance with the 2005 California Energy Efficiency Standards. For complete details contact your energy design professional or the California Energy Commission @ [WWW.ENERGY.CA.GOV](http://WWW.ENERGY.CA.GOV)