

DECRA Roofing Systems: California Title 24 Compliance for 2016 Building Energy Efficiency Standards

Installation of DECRA Shake, Shake XD, Shingle Plus, Tile and Villa Tile roof panels, either direct to the roof deck or on a batten system, meet the 2016 California Title 24 Energy Code for low-rise residential buildings with steep-sloped roofs – Climate Zones 10 through 15. This is due to the air space engineered into these DECRA roof panel profiles, creating air ventilation between the roof panel and the roof deck that is commonly referred to as Above Sheathing Ventilation (ASV).

DECRA Shake, Shake XD, Shingle Plus, Tile and Villa Tile roof panels have design patterns that create an air-space of 1 inch, per the 2016 Title 24 exception to SECTION 150.2(b)1Hi: The following shall be considered equivalent to Subsection i:

- a. Air-space of 1.0 inch (25mm) is provided between the top of the roof deck to the bottom of the roofing product; or*
- b. The installed roofing product has a profile ratio of rise to width of 1 to 5 for 50 percent or greater of the width of the roofing product; or*
- c. Existing ducts in the attic are insulated and sealed according to Section 150.1(c)9; or*
- d. Buildings with at least R-38 ceiling insulation; or*
- e. Buildings with a radiant barrier in the attic meeting the requirements of Section 150.1(c)2; or*
- f. Buildings that have no ducts in the attic; or*
- g. In Climate Zones 10-15, R-2 or greater insulation above the roof deck.*

Reference: Building Energy Efficiency Standards for Residential and Nonresidential Buildings / For the 2016 Building Energy Efficiency Standards; Title 24, Part 6, and Associated Administrative Regulations in Part 1. CEC-400-2015-037-CMF; California Energy Commission; June 2015. (<http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf>)