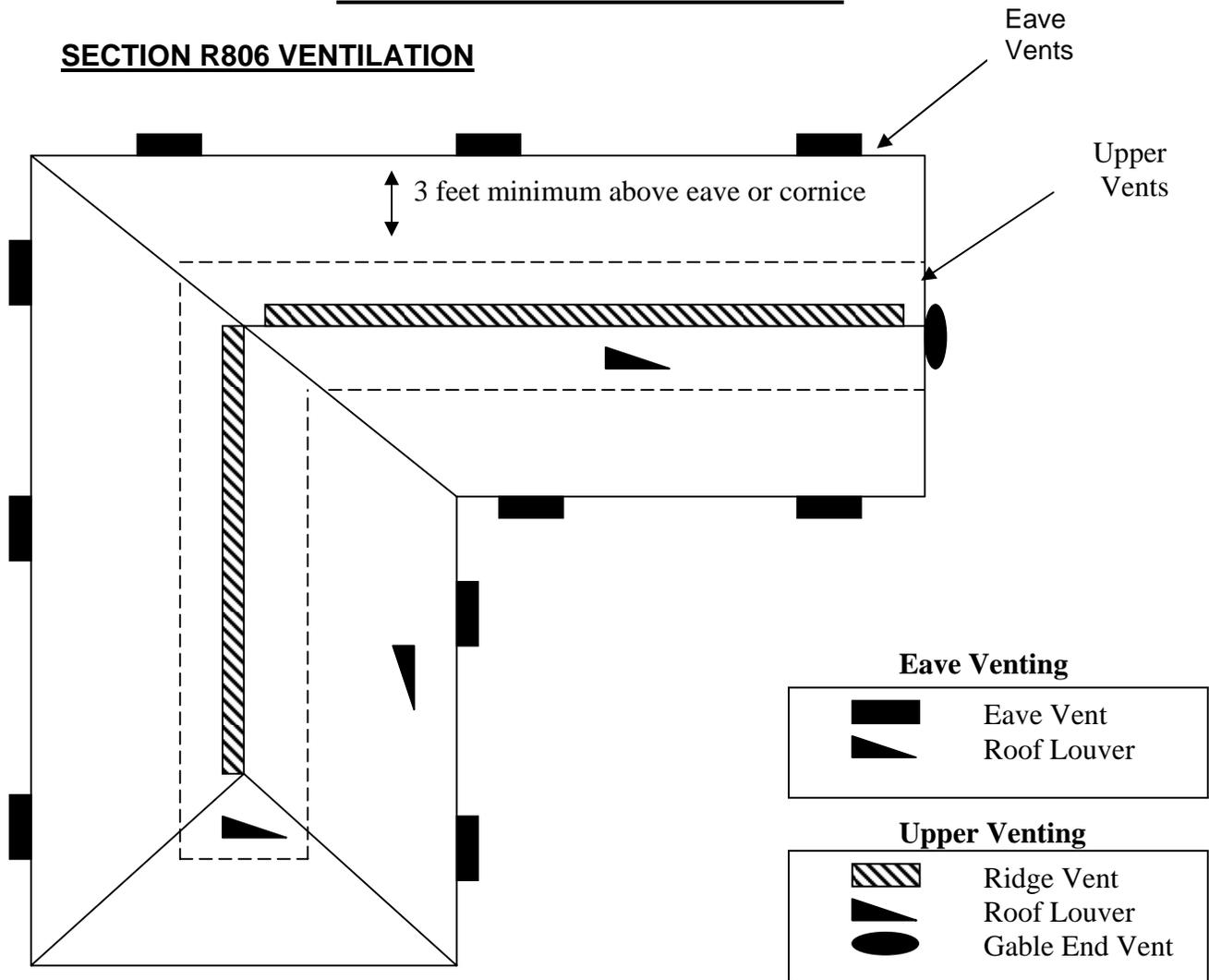




**COMMUNITY DEVELOPMENT DEPARTMENT**  
**Building & Safety Division**  
221 West Pine St./PO Box 3006, Lodi, CA 95241-1910  
(209) 333-6714

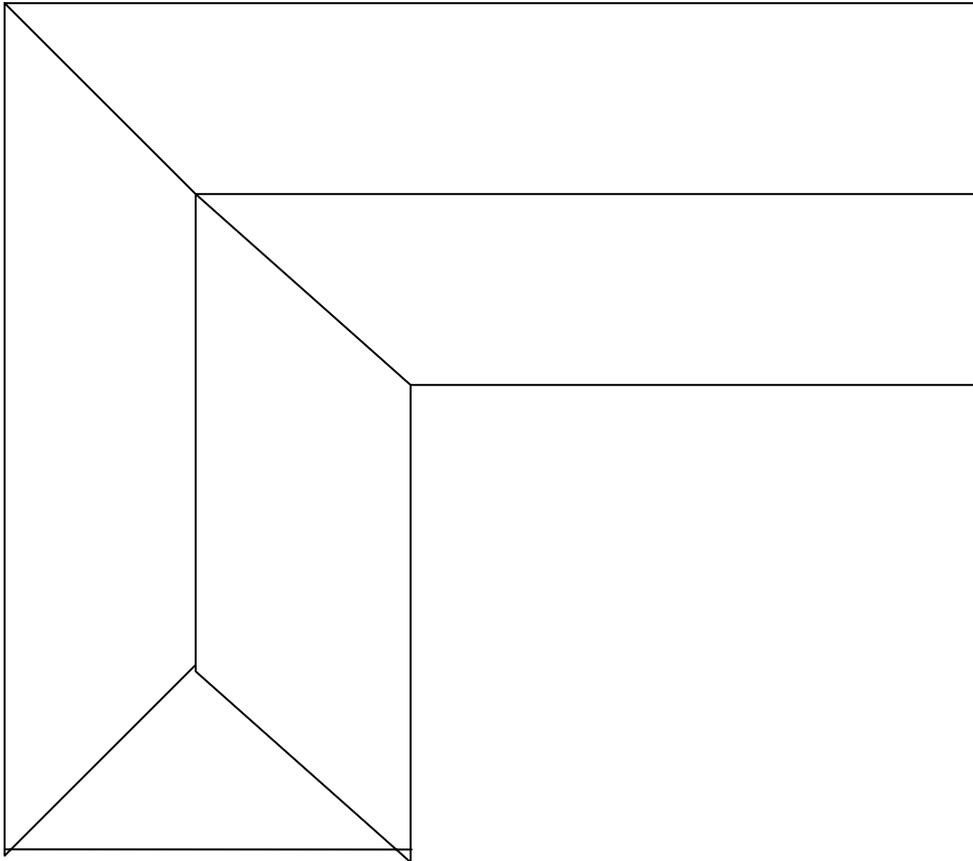
**RE-ROOF ATTIC VENTILATION**

**SECTION R806 VENTILATION**



- The above diagram is meant to illustrate typical types of venting. Any combination of vents can be used as long as minimum ventilation requirements are met.
- No ventilation is required for garages or patio covers without ceilings.

**ATTIC VENTILATION EXAMPLE (Required for Re-roofs/Tear-offs)**



**Sample Calculation:  $\frac{1}{300}$**

- Building Area = 2000 ft<sup>2</sup>
- Required Ventilation (from attached table) = 960 in<sup>2</sup>
  - MAXIMUM**
    - Ventilation at 3 ft min above eave/cornice = 768 in<sup>2</sup> (80% Maximum)
    - Remainder Ventilation at Eaves = 192 in<sup>2</sup>
  - MINIMUM**
    - Ventilation at least 3 ft above eaves/cornice = 480 in<sup>2</sup> (50% Minimum)
    - Remainder Ventilation at Eaves = 480 in<sup>2</sup>
- Specify type, location, and size (in sq in) of vents to be used

**Sample Calculation:  $\frac{1}{150}$**

- Calculation may be used to meet Alternative 3 to Cool Roof Requirements of California Energy Code
- Building Area = 2000 ft<sup>2</sup>
- Required Ventilation = 1920 in<sup>2</sup>
  - Ventilation within 2 ft vertical distance of ridge = 576 in<sup>2</sup> (30% Minimum)
  - Remainder Ventilation at Eaves = 1344 in<sup>2</sup>
- Specify type, location, and size (in sq in) of vents to be used

**Attic Access and Ventilation (CRC R806.2)**  
**Ventilation  $\frac{1}{300}$  of the area served<sup>1</sup>**

Square Footage	Vent Area (in <sup>2</sup> )	Max 80% of Free Ventilation Area (at least 3 ft above eave or cornice vents) <sup>1</sup>	Remainder of Ventilation Area located at Eaves or cornice
1000	480	384	96
1100	528	423	106
1200	576	461	116
1300	624	500	125
1400	672	538	135
1500	720	576	144
1600	768	615	154
1700	816	653	164
1800	864	692	173
1900	912	730	183
2000	960	768	192
2100	1008	807	202
2200	1056	845	212
2300	1104	884	221
2400	1152	922	231
2500	1200	960	240
2600	1248	999	250
2700	1296	1037	260
2800	1344	1076	269
2900	1392	1114	279

**1. The total net free ventilating area shall not be less than  $\frac{1}{150}$  of the area of the space ventilated except that reduction of the total area to  $\frac{1}{300}$  is permitted provided at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. The table above reflects the max of 80 percent. 2010 CRC, Section R806.**

# Typical Types of Vents

## Ridge Vents

### Venting Ridge Cap Shingles



### Pitch Filter Vent



### Shingle Vent



## Eave Attic Intake Vents

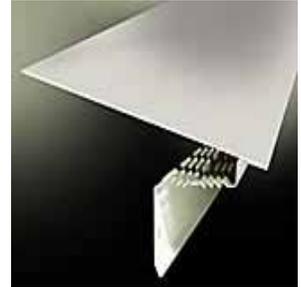
### Continuous Soffit Vents



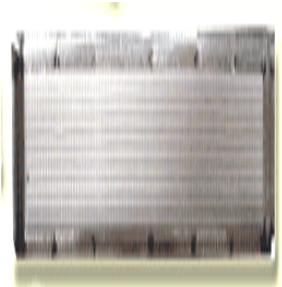
### Undereave Vents



### Vented Drip Edge



## Truss or Rafter Vents

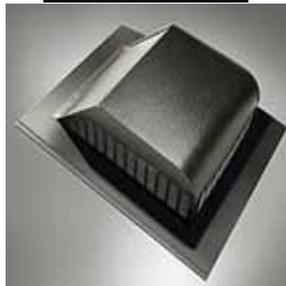


## Static Vents

### Wind Turbines



### Roof Louvers



### Wall Louvers

