

# Spark Arrester Requirements



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# SPARK ARRESTER REQUIREMENTS

The City of Daly City Municipal Ordinance 15.08.200 requires that at the time of re-roofing, all existing operational chimneys shall terminate in a substantially constructed spark arrester.

The spark arrester must be installed at the start of the project. The Building Inspector will need to see such spark arrester in place at the time of inspection.

Spark arresters must comply with the **California Building Code** as adopted by the City, specifically Section 3102.3.8, the **total area of the arrester shall be at least four (4) times the total area of the chimney area.** The chart below indicates minimum arrester screen dimensions, which will comply with the code.

**The spark arrester shall be tight fitting to the chimney to prevent sparks or embers from reentering the building.**

## 2010 California Residential Code Section R1003.9.1

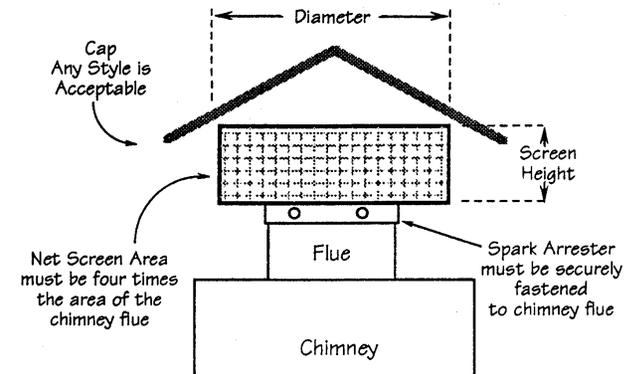
Where determined necessary by the building official due to local climatic conditions or where sparks escaping from the chimney would create a hazard, chimneys attached to any appliance or fireplace that burns solid fuel shall be equipped with an approved spark arrester. **The net free area of the spark arrester shall not be less than four (4) times the net free area of the outlet of the chimney.**

The spark arrester screen shall have heat and corrosion resistance equivalent to 12-gauge wire, 19-gauge galvanized wire or 24-gauge stainless steel wire.

**Openings shall not permit passage of spheres having a diameter larger than 1/2" and shall not block the passage of spheres having a diameter of less than 3/8".**

*Chimneys used with fireplaces or heating appliances in which solid or liquid fuel is used shall be provided with a spark arrester as required in the fire code.*

**Minimum Spark Arrester Construction**



Minimum Spark Arrester Requirements					
	Chimney Dimension	Chimney Area	Minimum Screen Area	Screen Height	Minimum Arrester Diameter
<b>Circular Chimneys (Inches)</b>	8	50.24	200.96	4.00	16.00
	8	50.24	200.96	6.00	10.67
	10	78.50	314.00	6.00	16.67
	10	78.50	314.00	8.00	12.50
	12	113.04	452.16	8.00	18.00
	12	113.04	452.16	10.00	14.40
	14	153.86	615.44	10.00	19.60
	14	153.86	615.44	12.00	16.33
<b>Square Chimneys (Inches)</b>	8	64	256.00	6.00	13.59
	8	64	256.00	8.00	10.19
	10	100	400.00	8.00	15.92
	10	100	400.00	10.00	12.74
	12	144	576.00	10.00	18.34
	12	144	576.00	12.00	15.29
	14	196	784.00	12.00	20.81
	14	196	784.00	14.00	17.83