

July 1, 2010	<b>SANTA ROSA FIRE DEPARTMENT FIRE PREVENTION BUREAU STANDARD</b>
	<b>REPAIR GARAGE</b>

## **PURPOSE**

This standard outlines the general requirements for a repair garage. Information contained herein applies to typical instances and may not address all circumstances.

## **CODE REFERENCES**

2007 California Building Code (CBC)  
2007 California Fire Code (CFC) Chapter 9 and Chapter 22

## **PERMIT(S) REQUIRED**

A permit for Repair Garage is required.

Additional required permits (depending on scope of work) may include:

- Hazardous Materials Storage, Use, Handling of
- Hazardous Waste
- High-piled Combustible Storage
- Spraying or dipping

Categories and fee amounts are found at: <http://ci.santa-rosa.ca.us/doclib/Documents/IB%20018.pdf>

## **ATTACHMENTS**

- 1) Plan Review Checklist
- 2) Inspection Checklist

## **REQUIRED INSPECTIONS**

Inspections shall be scheduled a minimum of 48 hours in advance. Directions for scheduling are found at: <http://ci.santa-rosa.ca.us/news/Pages/AutomatedFireInspectionRequestSystem.aspx>

## **DOCUMENTS**

**CONSTRUCTION DOCUMENTS.** *CFC 2201.3* Construction documents shall be submitted for review and approval prior to the installation or construction of automotive, marine or fleet vehicle motor fuel-dispensing facilities and repair garages in accordance with Appendix Chapter 1, Section 105.4.

**SCALED SITE PLAN** Property lines, existing/proposed structures, slopes/grades, road widths, turnarounds and hydrant locations.

Standard  
Garage Repair

**FIRE HYDRANTS** – *SRCC 18-44. 903.3.1*. Fire hydrants shall be spaced along City streets at 500 ft and along both sides of divided streets. Fire hydrant design and installation is a separate permit.

**FIRE SPRINKLERS** – *CFC 903.2.8.1* An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with the *California Building Code*, as follows:

1. Buildings two or more stories in height, including basements, with a fire area containing a repair garage exceeding 10,000 square feet (929 m<sup>2</sup>).
2. One-story buildings with a fire area containing a repair garage exceeding 12,000 square feet (1115 m<sup>2</sup>).
3. Buildings with a repair garage servicing vehicles parked in the basement.

Fire Sprinkler design and installation is a separate permit.

**ALARM** *CFC 908.5*. A flammable-gas detection system shall be provided in repair garages for vehicles fueled by nonodorized gases in accordance with Section 2211.7.2.

**BUILDING ADDRESSING** *CFC 901.4.4*. Four (4) inches in height, illuminated, affixed on the building, contrasting background, plainly visible and legible from the road. Located at highest elevation of building. See Fire Prevention Standard 015 on "Addressing".

**FIRE DEPARTMENT ACCESS** *CFC 902 and Information Bulletin 002*. Twenty foot (20) paved access road provided to within 150 feet of exterior portions of building, as measured by an approved route around the exterior of the building. Surface constructed per City Design Standards.

**TURNING RADIUS** *CFC 901*. Access roads require a minimum 20' inside turning radius and a 40' outside turning radius.

**VERTICAL CLEARANCE** *CFC 901*. Unobstructed vertical clearance of 13' 6" feet.

**GRADE** *City Street Design Standards*. Maximum grade of 15 percent.

**TURNAROUNDS** *CFC 901*. Approved turnaround provided where drive exceeds 150 feet in length.

**FIRE LANES** *CFC 902.2.4.3* Fire apparatus access roads noted as fire lanes in accordance with CVC22658.

**BRIDGES** *CFC 902.2.2.5* Load = HS 20. Structure capability, weight/vertical clearance signs. Vertical clearance 13' 6".

**TURNOUTS** *CFC 902*. One-way drives in excess of 500 feet. Emergency/additional turnouts may be required as dedicated by site-specific conditions.

**SECONDARY ACCESS** – City Street Design Standards. Access road greater than 500 ft in length or more than 50 units served by access.

**GATES** Manual gates shall have a Knox Company key lock provided, Powered gates shall have a Knox access override system provided. Gate(s) shall open inward and shall be the same width as the access way. Gates shall be located 20 feet from the roadway to allow a vehicle to stop without obstructing traffic.

### **GENERAL INFORMATION**

**STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.** *CFC 2211.2* The storage and use of flammable and combustible liquids in repair garages shall comply with Chapter 34 and Sections 2211.2.1 through 2211.2.4.

Standard  
Garage Repair

**CLEANING OF PARTS.** *CFC 2211.2.1* Cleaning of parts shall be conducted in listed and approved parts-cleaning machines in accordance with Chapter 34.

**WASTE OIL, MOTOR OIL AND OTHER CLASS IIIB LIQUIDS.** *CFC 2211.2.2* Waste oil, motor oil and other Class IIIB liquids shall be stored in approved tanks or containers, which are allowed to be stored and dispensed from inside repair garages.

**TANK LOCATION.** *CFC 2211.2.2.1* Tanks storing Class IIIB liquids in repair garages are allowed to be located at, below or above grade, provided that adequate drainage or containment is provided.

**LIQUID CLASSIFICATION.** *CFC 2211.2.2.2* Crankcase drainings shall be classified as Class IIIB liquids unless otherwise determined by testing.

**DRAINAGE AND DISPOSAL OF LIQUIDS AND OIL-SOAKED WASTE.** *CFC 2211.2.3* Garage floor drains, where provided, shall drain to approved oil separators or traps discharging to a sewer in accordance with the California Plumbing Code. Contents of oil separators, traps and floor drainage systems shall be collected at sufficiently frequent intervals and removed from the premises to prevent oil from being carried into the sewers.

**DISPOSAL OF LIQUIDS.** *CFC 2211.2.3.1* Crankcase drainings and liquids shall not be dumped into sewers, streams or on the ground, but shall be stored in approved tanks or containers in accordance with Chapter 34 until removed from the premises.

**DISPOSAL OF OILY WASTE.** *CFC 2211.2.3.2* Self-closing metal cans shall be used for oily waste.

**SOURCES OF IGNITION.** *CFC 2211.3.* Sources of ignition shall not be located within 18 inches (457 mm) of the floor and shall comply with Chapters 3 and 26.

**EQUIPMENT.** *CFC 2211.3.1* Appliances and equipment installed in a repair garage shall comply with the provisions of the California Building Code, the California Mechanical Code and the California Electrical Code.

**SMOKING** *CFC 2211.3.2.* Smoking shall not be allowed in repair garages except in approved locations.

**FIRE EXTINGUISHERS.** *CFC 2211.6* Fire extinguishers shall be provided in accordance with Section 906.

**HEATING EQUIPMENT.** *CBC 406.6.5* Heating equipment shall be installed in accordance with the California Mechanical Code.