

Everyone that has a Certificate of Registration or a Concern License should know Title 19 Chapter 3. In reality everyone who services fire extinguishers in the State of California should have more than just a working knowledge of this chapter. These are the State Fire Marshal's "fire extinguisher regulations". We have been including a section in the CALSAFE newsletter entitled "How well do you know Title 19". It is meant to be a fun and informative way of getting everyone back into the document. While everyone should be familiar with Title 19 Chapter 3 and some are even "experts" in it, there may be far less who are familiar with the California Fire Code. The California Fire Code is a document you also need to be intimately familiar with. The Fire Code is found in California Title 24 and the Fire Code is Part 9. Fire extinguishers are generally addressed in Section 906 of Part 9 but there are many other references to extinguisher requirements throughout the document. The following is an outline what you will find there.

Section 906.1 addresses where portable fire extinguishers are required.

- #1 states that extinguishers are required in both new and existing occupancies. These include Groups, A,B, E, F,H, I, L, M, R-1, R-2, R-4 and S. The following is what those occupancies are:

A- Assemblies	M- Mercantile
B- Business Group	R-1 Transient Residential
E- Education	R-2 Multi-Residential (more than 2 units, ie apartments)
F- Factory	R-4 Residential care/assisted living with 5-16 occupants
H- High Hazards	S- Storage
I – Institutional	

- #2 States that an extinguisher is to be installed within 30 feet of commercial cooking equipment.
- #3 States that extinguishers are required everywhere flammable or combustible liquid is stored used or dispensed.
- #4 States that extinguishers are required on each of the floors of structures under construction. *R3 residential (one and two family houses) are exempted*
- #5 Refers to Table 906.1 which references other sections throughout the fire code where extinguishers are specifically called out. Be sure to become familiar with what the different requirements are and where they are found.

The following are references from Table 906.1 and a summary of those requirements:

Application	Section	Requirement
Asphalt Kettles	303.5	40B:C within 25 feet also 3A 40B:C on a roof being covered
Open Burning and Recreational Fires	307.5	4A rated fire extinguisher or other fire-extinguishing equipment such as sand, dirt, water barrel, garden hose or water truck.
Torches for removing paint	308.4	4A rated or 2 ea 2A rated or water hose
Fork Lift Battery Charging Area	309.4	4A 20 B:C within 20 feet
Aviation Facilities	1105.2	20 B:C on Towing Vehicles
Aviation Facilities	1105.3	2A 20B:C on Welding Apparatus
Aviation Facilities	1105.4	2ea 20 B:C on Aircraft Fuel Tank Vehicles
Aviation Facilities	1105.5	20 B:C on Hydrant Fuel Vehicles
Aviation Facilities	1105.6	Must be located within 75' of Pump or Dispensers at Fuel Dispensing Stations

		Located Open Hose Discharge Capacity 2ea 20B:C if <200 g/m 1ea Wheeled Unit at least 125#s and min 80B:C rating if > 200 g/m but < 350 g/m 2ea Wheeled Units of at least 125#s and min 80B:C rating if > 350 g/m
Aviation Facilities	1107.7	min 80 B:C at permanent takeoff & landing area as well as aircraft parking area of Helistops & Heliports
Dry Cleaning	1208.4	Two 2A 10B:C mounted near doors Inside rooms containing Type II Type III-A & Type III-B dry cleaning systems
Construction/Demolition	1415.1	Extinguishers appropriate for "Ordinary Hazard" located at each stairway on each floor where combustibles are accumulated, in storage sheds, and such as is necessary where special hazards exist.
Roofing Operations	1417.3	Not less than one ABC extinguisher 3A 40B:C on the Roof
Spray-Finishing Operations	1504.4.1	Spraying Areas to be covered as "Extra High Hazard"
Spray-Finishing Operations	1505.4.2	Dip Tanks to be covered as "Extra High Hazard"
Spray-Finishing Operations	1506.4.2	Powder Coating to be covered as "Extra High Hazard"
Lumberyards and Woodworking Facilities	1904.3	Sawdust/Saving producing machines covered as "Extra High Hazard"
Recycling Facilities	1908.8	A minimum 4A 60B:C ON Vehicles & Equipment operating on "Piles" and at all processing equipment
Exterior Lumber Storage	1909.5	Extinguishers must be within 75' and be "Appropriate" for the fire hazard as an Alternate to hydrant hose assembly
Organic Coating Area	2003.5	Coating areas to be covered as "Extra High Hazard"
Industrial Ovens	2106.3	Appropriate extinguisher must be no closer than 15' no greater than 50'
Motor Fuel Dispensing Facilities	2205.5	2A 20B:C no greater than 75" from pumps, dispensers and tank fill pipe openings
Marine Motor Fuel Dispensing Facilities	2210.6.4	20 B:C on each float, on the pier or wharf, within 25' of the head of the gangway to the float, unless the office is within 25' where an extinguisher is provided
Repair Garages	2211.6	According to 906 (which refers back to Title19 Ch3)
Rack Storage	2306.10	According to 906 (which refers back to Title19 Ch3)
Tents and Membrane Structures	2404.12	Ref to T19 319 (a)-(c) A 2A rated for Tents 500-1000 sqft, and one in every adjacent auxiliary tent. An additional one for ever additional 2,000 sqft or fraction. One 10B for every generator, or transformer. One 10B for every kitchen, dining area, or where flammable or combustible liquids or gasses are used, stored or dispensed.
Tire Rebuilding/Storage	2508.2	Buildings are to be according to 906, a 4A 40B:C on fuel fired vehicles operating in storage yard
Welding & Hot Work	2604.2.6	2A 20B:C within 30 feet of Hot Work
Combustible Fibers	2903.6	To be protected as an "Extra High Hazzard"
Flammable/Combustible Liquids General	3403.2.1	In accordance with 906 (which refers back to Title19 Ch3)

Indoor storage of Flammable/Combustible Liquids	3404.3.3.1	In accordance with 906 (which refers back to Title19 Ch3)
Liquid Storage Rooms for Flamm/Comb Liquids	3404.3.7.5.2	Min 20B not less than 10' nor more than 50' from door opening of a liquid storage room or from a Class I or Class II liquid storage area located outside of a liquid storage room.
Solvent Distillation Unit	3405.4.9	Min 40B not less than 10' nor more than 30' from unit
Flamm Liq Storage Farms Construction Sites	3406.2.7	20 B:C <i>where</i> required by the code official
Flamm Liq Storage: Bulk Plants and Terminals	3406.4.10.1	Min 20B within 75' of hose connections, pumps and separator tanks
Comm., Ind., Gov't or Manf. Fuel Dispensing	3406.5.4.5	A 40B on the fuel tank truck that is dispensing Class II or Class III motor vehicle fuel of other vehicles. Must have with clear extinguisher location signage.
Tank Vehicles	3406.6.4	2A 10B:C (During unloading of the tank, extinguisher must be removed from mount and placed 15' from valve)
Flammable Solids	3606.5.7	Proper extinguishing materials for Magnesium fires to be placed within 30' for container with scoop or shovel and 75' if in a portable fire extinguisher
LP Gas	3808.2	As required in NFPA58
Marinas	4504.4	Proper Extinguisher for "Ordinary Hazard" located at each required standpipe hose connection. Additional extinguishers suitable for hazards involved.

- #6 Special Hazard areas are referred back to the code official's determination.
Places like Labs, IT rooms, generator rooms etc.
- #7 Day care facilities including large and small family homes require a minimum 2A 10B:C.
- #8 has a general reference to areas required under Title 19 which includes not only a reference to chapter 3 but also section 3.29 (c) which spells out specific requirements for Group A occupancies.
 - Additional 2A
 - On each side of a stage or platform
 - On each side of every fly gallery
 - In basements under the state or platform
 - In each hallway or passageway leading to dressing rooms
 - In property rooms, carpenter shops and workrooms
 - 10B:C
 - In motor and fan rooms
 - Adjacent to switchboards on stage or platforms
 - Each motion picture machine in projection room

Know the Code, Know the Requirement