

**CHAPTER 25
TIRE REBUILDING AND TIRE STORAGE**

**SECTION FC 2501
GENERAL**

2501.1 Scope. This chapter shall govern the design, operation and maintenance of tire rebuilding plants, tire storage and tire byproduct facilities.

2501.2 Permits. Permits shall be required as set forth in FC105.6.

2501.3 General. Tire rebuilding plants, tire storage and tire byproduct facilities shall be designed, operated and maintained in accordance with this chapter, NFPA 13, as modified by FC Appendix B, and if applicable, FC Chapter 23.

**SECTION FC 2502
DEFINITIONS**

2502.1 Terms defined in FC Chapter 2. Terms used in this chapter and defined in FC Chapter 2 shall have the meanings defined therein.

**SECTION FC 2503
TIRE REBUILDING**

2503.1 Construction. Tire rebuilding plants shall comply with the requirements of the construction codes, including the Building Code.

2503.2 Location. Buffing operations shall be conducted in a room separated from the remainder of the building housing the tire rebuilding or tire recapping operations by a 1-hour fire barrier.

Exception: Buffing operations are not required to be separated where the following requirements are complied with:

1. Buffing operations are protected throughout by a continuous water-spray fire protection system directed at the point of cutting action.
2. Buffing machines are connected to particle-collecting systems providing a minimum air movement of 1,500 cubic feet per minute (cfm) (0.71m³/s) in volume and 4,500 feet per minute (fpm) (23 m/s) in-line velocity.
3. The collecting system shall discharge the rubber particles to an approved outdoor noncombustible or noncombustible container, which is emptied at frequent intervals to prevent overflow.

2503.3 Cleaning. The buffing area shall be cleaned and combustible waste regularly removed and disposed of to prevent the accumulation of rubber particles.

2503.4 Spray rooms and booths. Spray rooms or spray booths wherein flammable or combustible solvents are applied shall comply with the requirements of FC Chapter 15.

SECTION FC 2504 PRECAUTIONS AGAINST FIRE

2504.1 Open fires and flames prohibited. It shall be unlawful in a tire storage yard to ignite or maintain an open fire or open flame.

2504.2 Hot work prohibited. It shall be unlawful in a tire storage yard to conduct hot work operations.

2504.3 Smoking prohibited. It shall be unlawful in a tire storage yard to smoke.

2504.4 Power lines. Tire storage piles shall not be located beneath electrical power lines having a voltage in excess of 750 volts or near lines supplying power to fire emergency systems where a fire in such storage piles would damage such lines.

2504.5 Reserved.

2504.6 Emergency telephone. A telephone not requiring a coin to operate, or another approved, clearly identified means to notify the department, shall be provided at the facility in an approved location. A sign shall be conspicuously posted at or near the telephone indicating that all fires shall be immediately reported to the department, and setting forth the facility's address with cross-street reference and the fire department telephone number.

SECTION FC 2505 OUTDOOR STORAGE

2505.1 Individual piles. Tire storage shall be restricted to individual piles not exceeding 5,000 square feet (464.5 m²) of continuous area. Piles shall not exceed 50,000 cubic feet (1416 m³) in volume or 10 feet (3048 mm) in height.

2505.2 Separation of piles. Individual tire storage piles shall be separated from other piles by a clear space of at least 40 feet (12 192 mm).

2505.3 Distance between piles of other stored products. Tire storage piles shall be separated by a clear space of at least 40 feet (12 192 mm) from piles of other stored product.

2505.4 Distance from lot lines and buildings. Tire storage piles shall be located at least 50 feet (15 240 mm) from lot lines and buildings unless the commissioner approves a lesser separation distance of tire storage piles in accordance with the criteria set forth in NFPA 13.

2505.5 Fire breaks. Storage yards shall be maintained free from combustible grass and weeds for a distance of 40 feet (12 192 mm) from the stored tires; and for a distance of 100 feet (30 480 mm) from the stored tires to brush and forested areas.

2505.6 Volume more than 150,000 cubic feet. Where the bulk volume of stored material is more than 150,000 cubic feet (4248 m³), fire breaks shall be provided around the perimeter of each group of storage piles in accordance with the following:

1. Individual storage piles shall be arranged so that there are not more than 16 individual storage piles per group.
2. Fire breaks shall at least be 75 feet (22 860 mm) wide.

2505.7 Location. Outdoor tire storage shall not be located under bridges, elevated trestles, elevated roadways or elevated railroads.

SECTION FC 2506 FIRE DEPARTMENT ACCESS

2506.1 Required access. New and existing tire storage yards shall be provided with fire apparatus access roads in accordance with FC503 and this section.

2506.2 Location. Fire apparatus access roads shall be located within all pile clearances identified in FC2505.4 and within all fire breaks required in FC 2505.5 and 2505.6. Access roadways shall be within 150 feet (45 720 mm) of any point in the storage yard where storage piles are located, at least 20 feet (6096 mm) from any storage pile.

SECTION FC 2507 FENCING

2507.1 Where required. Where the bulk volume of stored material is more than 20,000 cubic feet (566 m³), a firmly anchored fence or other approved method of security that controls unauthorized access to the storage yard shall surround the storage yard.

2507.2 Construction. The fence shall be constructed of approved materials and shall be at least 6 feet (1829 mm) high and provided with gates at least 20 feet (6096 mm) wide. Where gates are constructed, they shall comply with the vertical clearance requirements of FC503.6.

2507.3 Security. All gates to the storage yard shall be locked when the storage yard is not staffed.

SECTION FC 2508 FIRE PROTECTION

2508.1 Water supply. A public or private fire protection water supply shall be provided in accordance with FC508. The water supply shall be arranged such that any part of the storage yard can be reached by using not more than 300 feet (91 m) of hose.

2508.2 Portable fire extinguishers. Buildings or structures shall be provided with portable fire extinguishers in accordance with FC906. Fuel-fired vehicles operating in the storage yard shall be equipped with a minimum 2-A:20-B:C rated portable fire extinguisher.

SECTION FC 2509
INDOOR STORAGE ARRANGEMENT

2509.1 Pile dimensions. Where tires are stored on-tread, the dimension of the pile in the direction of the wheel hole shall not be more than 50 feet (15 240 mm). Tires stored adjacent to or along one wall shall not extend more than 25 feet (7620 mm) from that wall. Other piles shall not be more than 50 feet (15 240 mm) in width.