 <p>THE CITY OF <b>COLUMBUS</b> ANDREW J. GINTHER, MAYOR</p> <hr/> <p>DIVISION OF FIRE</p>	<b>Code Compliance Guideline</b>	
	<b>Tire Storage</b>	
	<b>Fire Prevention Bureau</b> 3639 Parsons Ave Columbus, Ohio 43207 (614)645-7641 Ext. 7-5604 www.columbus.gov	Issued: 6/17/2020 Revised: 11/21/2023  <b>**Permit Required**</b>

I. **PURPOSE:** This publication outlines the City of Columbus and State of Ohio Fire Code, fire safety requirements and prohibitions related to indoor tire storage in sprinklered and non-sprinklered buildings.

II. **OVERVIEW:** This is to serve as a guideline for businesses to obtain compliance with the Ohio Fire Code for rubber tire storage. Rubber tire storage consists of tires covering any area of a structure. This pertains to tire shops, tire distributors, tire shredders/remanufacturers and any building that contains tires. This will cover the requirements for sprinklers, aisle ways, pile sizes, storage and quantities.

### III. **FIRE SAFETY REQUIREMENTS:**

#### Interior tire storage

**Piles:** (OFC3409.1)

- Tire storage adjacent to or along a wall cannot be more than 50 ft. wide or extend more than 25 ft. out from the wall. See figure 1 on page 3.
- Other tire piles cannot be more than 50 ft. in width. See figure 2 on page 3.
- All piles must maintain aisle ways.

**Height:**

- Cannot store tires over 6 ft. high without a High Piled Storage Permit.
- With a High Piled Storage permit and adequate fire suppression and/or detection systems tires may be stored on the floor, on their sidewalls up to 12 ft. high, no more than 2000 sq. ft. (See NFPA13 3.9.4.4 and table 18.4 for more info and storage arrays.)

**Aisles:**

**Interior tire storage over 6 ft. high:** (OFC3206.9.1)

- Aisle ways must be at least 44 inches wide.
- Aisle ways must be at least 96 inches if greater than 2,500 sq. ft. of tire storage and accessible to the public, or in a non sprinklered building.

**Interior tire storage height 6 ft. or under:** (OFC1020.2)

- If the occupant load is less than 50, aisle ways must be at least 36 inches wide.
- If the occupant load is 50 or more, aisle ways must be at least 44 inches wide.

### **Sprinkler and Alarm Requirements:**

#### Interior tire storage over 6 ft. high: (OFC3206.2)

- Less than 500 sq. ft. sprinkler is not required.
- 501-2,500 sq. ft. of tire storage requires fire detection and/or sprinkler protection (*see OFC*).
- 2,501 sq. ft. of tire storage or greater requires sprinkler protection.

#### Interior tire storage height 6 ft. or under:

- Sprinklers are required if the tire storage area exceeds 20,000 cf. (3,333 sq. ft., 6 ft. high) (OFC903.2.9.2)
- Fire alarm required if the aggregate floor area exceeds 100,000 sq. ft., and has no sprinkler. (NFPA101)

### **Outside Tire Storage** (OFC3405.4)

- The tire storage shall not exceed 2,500 sq. ft. of continuous area or 8 ft. in height.
- The pile shall be located at least 56 ft. from lot lines, buildings, and other combustibles.
- If the pile has 500 or less tires, the pile shall be located at least 25 ft. from lot lines, buildings, and other combustibles.

### **PERMITS**

2501.05.6.44 - Storage of tires, scrap tires and tire byproducts.

2501.05.6.46 - Tire rebuilding (possible).

102.3.2 MUST HAVE CORRECT CERTIFICATE OF OCCUPANCY, REFER OWNER TO BUILDING DEPARTMENT IF IT'S NOT CORRECT. BUSINESS CAN'T CHANGE WITHOUT UPDATING CERTIFICATE OF OCCUPANCY.

Figure 1. Example of tire storage adjacent to or along a wall, tire pile is 50 ft. wide and extends 25 ft. out from the wall. Corner tire storage cannot extend more than 25 ft. from either wall.

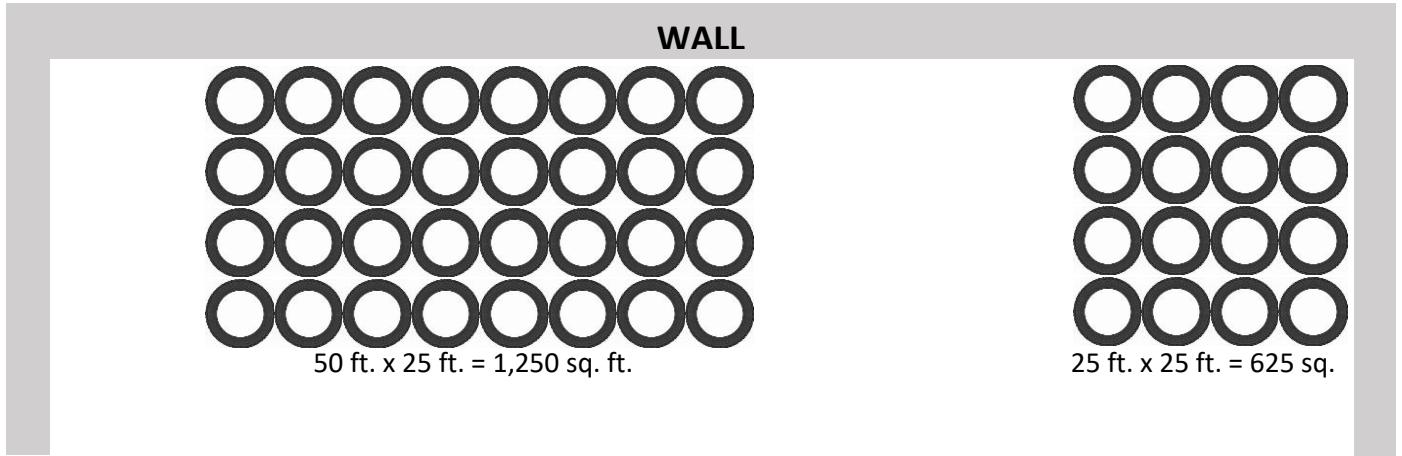


Figure 2. Example of tire storage that is not adjacent to or along a wall, tire pile is 50 ft. by 50 ft.

