

## CHAPTER 29

# COMBUSTIBLE FIBERS

### SECTION 2901 GENERAL

**2901.1 Scope.** The equipment, processes and operations involving combustible fibers shall comply with this chapter.

**2901.2 Applicability.** Storage of combustible fibers in any quantity shall comply with this section.

### SECTION 2902 DEFINITIONS

**2902.1 Definition.** The following word and term shall, for the purposes of this chapter and as used elsewhere in this code, have the meaning shown herein.

**COMBUSTIBLE FIBERS.** Readily ignitable and free-burning fibers, such as cocoa fiber, cloth, cotton, excelsior, hay, hemp, henequen, istle, jute, kapok, oakum, rags, sisal, Spanish moss, straw, tow, wastepaper, certain synthetic fibers or other like materials.

### SECTION 2903 GENERAL PRECAUTIONS

**2903.1 Use of combustible receptacles.** Ashes, waste, rubbish or sweepings shall not be placed in wood or other combustible receptacles and shall be removed daily from the structure.

**2903.2 Vegetation.** Grass or weeds shall not be allowed to accumulate at any point on the premises.

**2903.3 Clearances.** A minimum clearance of 3 feet (914 mm) shall be maintained between automatic sprinklers and the top of piles. Combustible fibers shall be stored with adequate clearance from adjacent construction to allow for expansion when wet.

**2903.4 Agricultural products.** Hay, straw or similar agricultural products shall not be stored adjacent to structures or combustible materials unless a clear horizontal distance equal to the height of a pile is maintained between such storage and structures or combustible materials. Storage shall be limited to stacks of 100 tons (91 metric tons) each. Stacks shall be separated by a minimum of 20 feet (6096 mm) of clear space. Quantities of hay, straw and other agricultural products shall not be limited where stored in or near farm structures located outside closely built areas. A permit shall not be required for agricultural storage.

**2903.5 Dust collection.** Where located within a building, equipment or machinery which generates or emits combustible fibers shall be provided with an approved dust-collecting and exhaust system. Such systems shall comply with Chapter 13 and Section 511 of the *Mechanical Code of New York State*.

**2903.6 Portable fire extinguishers.** Portable fire extinguishers shall be provided in accordance with Section 906

as required for extra-hazard occupancy protection as indicated in Table 906.3(1).

**2903.7 Fire-safety safeguards.** Smoking and/or the carrying of lighted cigarettes, pipes, cigars or other smoking materials shall be prohibited in areas containing combustible fibers.

**2903.8 Automotive equipment.** Trucks or automobiles other than approved industrial tractors and mechanical handling equipment shall not enter any combustible fiber storage room or building, but may be used at exterior loading platforms.

### SECTION 2904 LOOSE FIBER STORAGE

**2904.1 General.** Loose combustible fibers, not in suitable bales or packages and whether housed or in the open, shall not be stored within 100 feet (30 480 mm) of any structure, except as indicated in this chapter.

**2904.2 Storage of 100 cubic feet or less.** Loose combustible fibers in quantities of not more than 100 cubic feet (3 m<sup>3</sup>) located in a structure shall be stored in a metal or metal-lined bin equipped with a self-closing cover.

**2904.3 Storage of more than 100 cubic feet to 500 cubic feet.** Loose combustible fibers in quantities exceeding 100 cubic feet (3 m<sup>3</sup>) but not exceeding 500 cubic feet (14 m<sup>3</sup>) shall be stored in rooms enclosed with 1-hour fire-resistance-rated fire barriers, with openings protected by an approved opening protective assembly having a fire protection rating of  $\frac{3}{4}$ -hour, constructed in accordance with the *Building Code of New York State*.

**2904.4 Storage of more than 500 cubic feet to 1,000 cubic feet.** Loose combustible fibers in quantities exceeding 500 cubic feet (14 m<sup>3</sup>) but not exceeding 1,000 cubic feet (28 m<sup>3</sup>) shall be stored in rooms enclosed with 2-hour fire-resistance-rated fire barriers, with openings protected by an approved opening protective assembly having a fire protection rating of 1 $\frac{1}{2}$  hours, and constructed in accordance with the *Building Code of New York State*.

**2904.5 Storage of more than 1,000 cubic feet.** Loose combustible fibers in quantities exceeding 1,000 cubic feet (28 m<sup>3</sup>) shall be stored in rooms enclosed with 2-hour fire-resistance-rated fire barriers, with openings protected by an approved opening protective assembly having a fire protection rating of 1 $\frac{1}{2}$  hours, and constructed in accordance with the *Building Code of New York State*. The storage room shall be protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1.

**2904.6 Detached storage structure.** A maximum of 2,500 cubic feet (70 m<sup>3</sup>) of loose combustible fibers shall be stored in a detached structure suitably located, with openings protected against entrance of sparks. The structure shall not be occupied for any other purpose.

**SECTION 2905  
BALED STORAGE**

**2905.1 Bale size and separation.** Baled combustible fibers shall be limited to single blocks or piles not more than 25,000 cubic feet (700 m<sup>3</sup>) in volume, not including aisles or clearances. Blocks or piles of baled fiber shall be separated from adjacent storage by aisles not less than 5 feet (1524 mm) wide, or by flash-fire barriers constructed of continuous sheets of noncombustible material extending from the floor to a minimum height of 1 foot (305 mm) above the highest point of the piles and projecting not less than 1 foot (305 mm) beyond the sides of the piles.

**2905.2 Special baling conditions.** Sisal and other fibers in bales bound with combustible tie ropes, jute and other fibers that swell when wet, shall be stored to allow for expansion in any direction without affecting building walls, ceilings or columns. A minimum clearance of 3 feet (914 mm) shall be required between walls and sides of piles, except that where the storage compartment is not more than 30 feet (9144 mm) wide, the minimum clearance at side walls shall be 1 foot (305 mm), provided that a center aisle not less than 5 feet (1524 mm) wide is maintained.

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