

WAC 296-52-70010 Building construction for Type 1 magazines.

- (1) All building-type storage facilities must:
 - (a) Be constructed of masonry, wood, metal, or a combination of these materials;
 - (b) Have no openings except for entrances and ventilation;
 - (c) Have the ground around the facility slope away for drainage.
- (2) **Wall construction.**
 - (a) **Masonry wall construction.** Masonry wall construction must:
 - (i) Consist of brick, concrete, tile, cement block, or cinder block;
 - (ii) Be at least eight inches thick.
 - (b) **Hollow masonry construction.** Hollow masonry construction must:
 - (i) Have all hollow spaces filled with well tamped coarse dry sand; or
 - (ii) Have weak concrete (a mixture of one part cement to eight parts sand with enough water to dampen the mixture) while tamping in place; and
 - (iii) Have interior walls covered with a nonsparking material.
 - (c) **Fabricated metal wall construction.**
 - (i) Metal wall construction must be securely fastened to a metal framework and consist of one of the following types of metal:
 - (A) Sectional sheets of steel (at least number 14 gauge); or
 - (B) Aluminum (at least number 14 gauge).
 - (ii) Metal wall construction must:
 - (A) Be lined with brick, solid cement blocks, and hardwood at least four inches thick or material of equivalent strength;
 - (B) Have a minimum of six-inch sand fill between interior and exterior walls;
 - (C) Have interior walls constructed of or covered with a non-sparking material.
 - (d) **Wood frame wall construction.**
 - (i) Exterior wood walls must be covered with iron or aluminum at least number 26 gauge;
 - (ii) Inner walls, made of nonsparking materials must be constructed with a space:
 - (A) A minimum of six inches between the outer and inner walls; and
 - (B) Filled with coarse dry sand or weak concrete.
- (3) **Floors.** Floors must be:
 - (a) Constructed of a nonsparking material.
 - (b) Strong enough to hold the weight of the maximum quantity to be stored.
- (4) **Foundation.**
 - (a) Foundations must be constructed of brick, concrete, cement block, stone, or wood posts.
 - (b) If piers or posts are used instead of a continuous foundation, the space under the building must be enclosed with metal.
- (5) **Roof.**
 - (a) Roofs must be covered with no less than number 26 gauge iron or aluminum fastened to a 7/8-inch sheathing, except for buildings with fabricated metal roofs.
 - (b) If it is possible for a bullet to be fired directly through the roof at such an angle that it would strike a point below the top of the inner walls, storage facilities must be protected by one of the following two methods:
 - (i) A sand tray must be:

- (A) Located at the top of the inner wall covering the entire ceiling area, except the area necessary for ventilation;
- (B) Lined with a layer of building paper;
- (C) Filled with at least four inches of coarse dry sand.
- (ii) A fabricated metal roof must be constructed of 3/16-inch plate steel lined with four inches of hardwood or material of equivalent strength. For each additional 1/16-inch of plate steel, the hardwood or material of equivalent strength lining may be decreased one inch.

(6) **Doors and hinges.**

(a) All doors must be constructed of 1/4-inch plate steel and lined with three inches of hardwood or material of equivalent strength.

(b) Hinges and hasps must be installed so they cannot be removed when the doors are closed and locked by:

- (i) Welding;
- (ii) Riveting; or
- (iii) Bolting nuts on the inside of the door.

(7) **Locks.**

(a) Each door must be equipped with:

- (i) Two mortise locks;
- (ii) Two padlocks fastened in separate hasps and staples;
- (iii) A combination of a mortise lock and a padlock;
- (iv) A mortise lock that requires two keys to open; or
- (v) A three-point lock.

(b) Padlocks must:

(i) Have a minimum of five tumblers;

(ii) Have a case hardened shackle at least 3/8 inches in diameter;

(iii) Be protected with a minimum of 1/4-inch steel hoods, constructed to prevent sawing or lever action on the locks, hasps, and staples.

Note: These requirements do not apply to magazine doors that are adequately secured on the inside by means of a bolt, lock, or bar that cannot be operated from the outside.

(8) **Ventilation.**

(a) A two-inch air space must be left around ceilings and the perimeter of floors, except in doorways;

(b) Foundation ventilators must be at least four inches by six inches;

(c) Vents in the foundation, roof, or gables must be screened and offset.

(9) **Exposed metal.**

(a) Sparking metal construction cannot be exposed below the tops of walls in storage facilities;

(b) All nails must be blind nailed, countersunk, or nonsparking.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-16-132, § 296-52-70010, filed 8/1/17, effective 9/1/17; WSR 06-19-074, § 296-52-70010, filed 9/19/06, effective 12/1/06; WSR 05-08-110, § 296-52-70010, filed 4/5/05, effective 6/1/05; WSR 03-06-073, § 296-52-70010, filed 3/4/03, effective 8/1/03. Statutory Authority: RCW 49.17.010, [49.17].040, and [49.17].050. WSR 02-03-125, § 296-52-70010, filed 1/23/02, effective 3/1/02.]