

**459.307 Construction design standards — formed manure storage structures.**

The department shall adopt rules establishing construction design standards for formed manure storage structures that are part of confinement feeding operations other than small animal feeding operations. However, the construction design standards shall apply to a formed manure storage structure that is part of a small animal feeding operation as provided in [section 459.310](#).

1. The department may provide for different standards based on criteria developed by the department, which may include any of the following:

a. The animal unit capacity of the manure storage structure’s confinement feeding operation or the manure storage structure’s manure volume capacity.

b. Whether the manure storage structure stores only dry manure.

c. Whether the manure storage structure is part of a confinement feeding operation building.

d. The use of concrete, including its use for the structure’s footings, walls, or floor.

2. The construction design standards shall be based, to every extent possible, on uniform standards such as available standards promulgated by ASTM (American society for testing and materials) international. The department may require that all or any part of a formed manure storage structure be constructed of concrete.

3. The construction design standards for concrete shall provide for all of the following:

a. The concrete’s minimum compressive strength calculated on a pounds-per-square-inch basis.

b. The use of reinforcement, including but not limited to the grade, amount, and location of steel rebar or fiberglass, wire mesh or fabric, or similar materials set in the concrete, or the use of exterior braces to support joints.

c. The depth of footings.

d. The thickness of the footings, the floor, and walls.

4. A person shall only construct a formed manure storage structure on karst terrain or an area which drains into a known sinkhole pursuant to upgraded construction design standards necessary to ensure that the structure does not pollute groundwater sources.

[2002 Acts, ch 1137, §50, 71; 2002 Acts, 2nd Ex, ch 1003, §259, 260, 262; 2003 Acts, ch 84, §1, 6; 2004 Acts, ch 1086, §106; 2009 Acts, ch 38, §7, 16](#)

Referred to in [§459.310, §459A.205](#)