

Maintain proper clearance around grain bins

Iowa law requires specific clearances for electric lines around grain bins, with **different standards** for those filled by **portable** augers, conveyors and elevators, and **permanent** equipment.

In fact, the Iowa Electrical Safety Code found in Iowa Administrative Code Chapter 199 -- 25.2(3) b. states: *An electric utility may refuse to provide electric service to any grain bin built near an existing electric line which does not provide the clearances required by the American National Standards Institute (ANSI) C2-2012 "National Electrical Safety Code," Rule 234F. This paragraph "b" shall apply only to grain bins loaded by portable augers, conveyors or elevators and built after September 9, 1992, or to grain bins loaded by permanently installed augers, conveyors or elevators installed after December 24, 1997.* This language has been adopted by the Iowa Utilities Board.

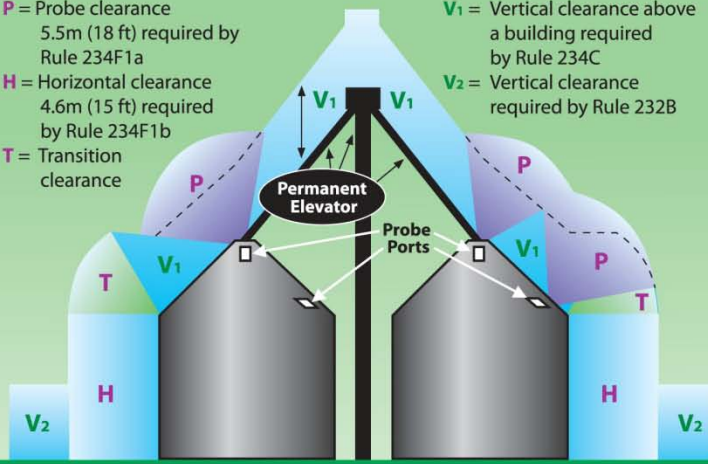
If you have any questions concerning these regulations – or what needs to be done before you begin placing a new grain bin or moving an existing one – please call us for help.

Allamakee-Clayton Electric Cooperative. Ph. (563) 864-7611 or toll free (888) 788-1551.

(See next page for drawings)

Clearance envelope for grain bins filled by permanently installed augers, conveyors or elevators

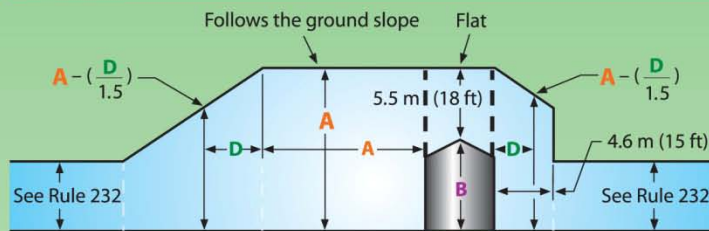
- P** = Probe clearance
5.5m (18 ft) required by Rule 234F1a
- H** = Horizontal clearance
4.6m (15 ft) required by Rule 234F1b
- T** = Transition clearance
- V₁** = Vertical clearance above a building required by Rule 234C
- V₂** = Vertical clearance required by Rule 232B



From IEEE Std. C2-2012, "National Electrical Safety Code."

Clearance envelope for grain bins filled by portable augers, conveyors or elevators

ELEVATION

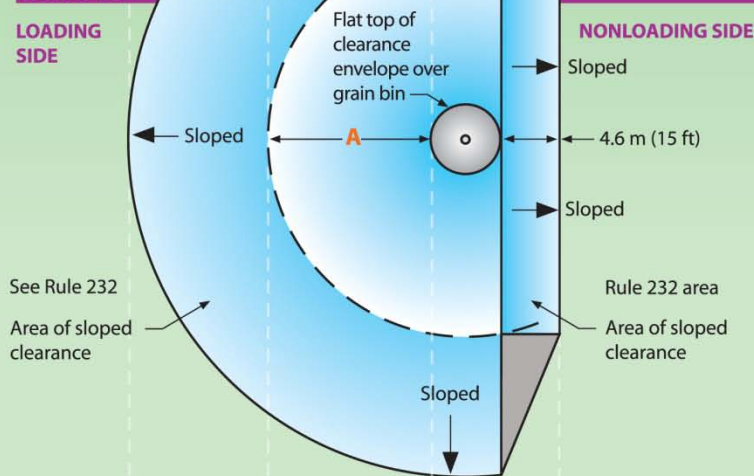


- B** = Height of highest filling or probing port on grain bin
- A** = B + 5.5m (18 ft)
- D** = Variable horizontal dimension

In the area of sloped clearance, the vertical clearance is reduced by 300mm (1 ft) for each additional 450mm (1.5 ft) of horizontal distance from the grain bin.

PLAN VIEW

LOADING SIDE



NONLOADING SIDE

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