

SCALE INSTALLATION USING A CONCRETE FLOATING SLAB FOUNDATION

Installation and operation of a fixed pitless scale with a concrete floating slab foundation **for commercial use** is prohibited under N.D. Admin. Code § 69-10-02-05.1. The Weights and Measures Division is working on a rulemaking package that will add the option of a concrete floating slab foundation for a fixed pitless scale installation.

In the interim, the Commission has been issuing a variance for the installation of a fixed pitless scale using a concrete floating slab foundation with the stipulation that within 90 days from the date of the variance permit, supporting documentation showing the requirements listed below have been met.

- The foundation of the scale must be constructed on soil that has a uniform natural or engineered soil bearing of at least 1,500 pounds per square foot.
- A base of uniform, compacted, permeable aggregate, at least 24 inches deep must be installed. The concrete slab foundation must be poured on top of this base.
- The scale weighing element or elements must be supported on a monolithic, steel reinforced 12" thick concrete slab and must conform to the scale manufacturer's installation and reinforcing requirements.
- The top surface of the foundation slab must be installed above the surrounding grade level so that water will flow away from the foundation and away from the permeable aggregate base that supports the foundation.

The variance permit also requires:

- The scale, if used commercially, must be tested and approved by a North Dakota Registered Service Company.
- All other applicable North Dakota Laws and Rules must be followed.
- Additional testing.
- The scale must maintain acceptance tolerance during the temporary variance period.

A variance permit must be applied for and received before a concrete floating slab foundation is legal for commercial use in North Dakota.

The variance permit request rule is found in N.D. Admin. Code Chapter 69-10-01, specifically Section 69-10-01-04.1.

<http://www.legis.nd.gov/information/acdata/html/69-10.html>

Please contact the Commission at 701-328-2400 if you have any questions.