



City of Loveland

City of Loveland
Development Services Department

Building Division - 410 E. 5th Street - Loveland, CO 80537
General Information (970) 962-2505
Inspection Line (970) 962-2100

Vapor Barrier / Concrete Slab Affidavit

This form must be signed by the contractor or homeowner performing the work and then emailed to buildinginspectionletters@cityofloveland.org. Once e-mailed, call in for the inspections (affidavits are not saved if inspections are not called in).

Building Permit Number _____

Job Address _____

Company Name _____

Company Address _____

The design and construction of the concrete on the ground floor complies with the following provisions of the 2024 International Residential Code:

• **R506.1 General.**

Concrete slab-on-ground floors shall be designed and constructed in accordance with the provisions of this section or ACI 332. Floors shall be a minimum 3 1/2 inches (89 mm) thick (for expansive soil, see Section R403.1.8). The specified compressive strength of concrete shall be as set forth in Section R402.2.

Thickness: _____

Concrete Compressive Strength: _____

• **R506.3 Site preparation.**

The area within the foundation walls shall have all vegetation, topsoil, and foreign material removed.

• **R506.3.1 Fill.**

Fill material shall be free of vegetation and foreign material. The fill shall be compacted to ensure uniform support of the slab, and except where approved, the fill depths shall not exceed 24 inches (610 mm) for clean sand or gravel and 8 inches (203 mm) for earth.

Fill material: _____

Fill depth: _____

- **R506.3.2 Base.**

A 4-inch-thick (102 mm) base course consisting of clean graded sand, gravel, crushed stone, crushed concrete or crushed blast-furnace slag passing a 2-inch (51 mm) sieve shall be placed on the prepared subgrade where the slab is below grade.

- **R506.3.3 Vapor retarder.** A minimum 6 mil (0.006 inch; 152 mm) polyethylene or approved vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the concrete floor slab and the base course or the prepared subgrade where a base course does not exist.

Vapor Retarder material: _____

Vapor Retarder thickness: _____

Exceptions: The vapor retarder is not required for the following:

1. Garages, utility buildings, and other unheated accessory structures.
2. For unheated storage rooms having an area of less than 70 square feet (6.5 m²) and carports.
3. Driveways, walks, patios, and other flatwork that will not be enclosed and heated later.
4. Where approved by the building official, based on local site conditions.

- **R506.3.4 Reinforcement support.**

Where provided in slabs-on-ground, reinforcement shall be supported to remain in place from the center to the upper one-third of the slab for the duration of the concrete placement.

Reinforcement size and spacing: _____

- **A photo showing the completed vapor retarder installation is required as part of this affidavit.**

Certification: *I hereby certify that the information above is accurate and the installation of the vapor barrier conforms to the 2024 International Residential Code requirements.*

Print Name of Owner or Vapor Barrier Installer:

Signature of Owner or Vapor Barrier Installer:
