MNSPECT LLC
HELPING YOU COMPLY WITH THE CODE

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RESIDENTIAL IN-FLOOR HYDRONIC HEATING SYSTEMS

- Residential in-floor heat (mechanical) permits are issued over the counter at the municipality office. Commercial projects require plan review – please request a Commercial Mechanical Permit Application from your municipality office.
- All hydronic heating systems will require manufacturer's installation specifications and/or design professional's instructions.
- All materials and the installation of all materials must comply with the Minnesota State Building Code and the manufacturers' installation specifications for each product.

PERMIT CARD AND APPROVED PLANS (throughout the project) shall be:

POSTED prior to start of work - **VISIBLE** from street or driveway - **ACCESSIBLE** to the inspector

INSPECTION REQUIREMENTS:

- **MUST** schedule during office hours **AT LEAST** one business day prior to required inspection. If a specific date and/or time will be required, more notice may be needed – please plan ahead. A re-inspection fee may be charged for failure to cancel an inspection for which you are not ready, or for failure to pass an inspection.
- Office Hours: Monday - Friday • 8:00 a.m. - 4:30 p.m.
- Phone: (952) 442-7520 or (888) 446-1801

Inspection: The following inspections are required. Someone 18 years or older must be present.

- **Rough In:** After the vapor retarder/soil gas membrane, rigid foam insulation, and tubing is installed, prior to concrete placement. During the rough-in inspection, a hydrostatic pressure test shall be placed on the entire system, reading 1.5 times the operating pressure, but not less than 100 psi.
- **Final:** After the tubes are attached to the manifold, the manifold is connected to the heating system, and the system is in operation.

Warning: The inspector may issue an order to remove materials to verify compliance with the MN State Building Code and manufacturer's installation requirements.
If a re-inspection is required, a re-inspection fee will apply. The permit holder (the signing applicant) or the permit holder's representative must meet the inspector at the site to provide access. The re-inspection will not be conducted if the re-inspection fee is not paid.

Note: The State of Minnesota requires that all residential building contractors, remodelers, roofers, plumbers, and electricians obtain a state license unless they qualify for a specific exemption from the licensing requirements. Any person claiming an exemption must provide a copy of a Certificate of Exemption from the Department of Labor & Industry to the Municipality before a permit can be issued. To determine whether a particular contractor is required to be licensed or to check on the licensing status of individual contractors, please call the Minnesota Department of Labor & Industry at 651-284-5065 or toll free 1-800-342-5354.

Note: For specific code requirements, please contact the Building Inspection Department at 952-442-7520 or 888-446-1801 or e-mail: info@mnspect.com.

PROJECT CHECKLIST:

- ☐ Tubing is approved for the design water temperature.
- ☐ Tubing is spaced according to manufacturer's or design professional's specifications.
- ☐ Tubing is secured in place by attaching it to the reinforcement, or by the use of staples into the under-slab rigid foam insulation.
- ☐ Sleeves are in place at the transition from the concrete slab to the manifold.
- ☐ Pressure test is established and holding prior, during, and after the placement of concrete.
- ☐ All tubing associated with this system shall be insulated including where it enters and exits the concreted slab. (MN Energy Code 1322. R403.3).

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