

Helena Area Habitat for Humanity (HAHH) and Montana Department of Environmental will be conducting a home energy efficiency investigation to confirm the newly constructed HAHH home is properly air sealed and insulated. Attendees will be able to use the thermal/infrared (IR) camera and see how well the house is sealed and insulated.

Paul Tschida with the Montana Department of Environmental Quality and Mark Leland with HAHH will be demonstrating a blower door test and thermal/infrared camera analysis of the new house.

**Location:** 2880 Twilight Street in Mountain View Meadows

**Date:** October 25, 2018

**Time:** 6-7:30 PM

**Open to the Public - Free of Charge**

### [Blower Door and Air Tightness Testing](#)

The blower door test consists of a large fan assembly temporarily placed in an exterior doorway. With all windows and doors closed, the fan is turned on, drawing air out of the building. By measuring the air flow required to hold a slight vacuum in the house, an air tightness rating can be obtained and used to evaluate the effectiveness of the air sealing measures. A blower door test is a requirement of the Montana energy code. All new house regardless of location (both inside and outside city limits) must be blower door tested.

### [Thermal and Infrared Camera Analysis](#)

The thermal/infrared camera will show the surface temperatures inside of the house. The thermal/infrared camera can reveal under and improperly insulated areas and air leakage sites. With the blower door fan operating, colder outdoor air is being pulled into the house through air leakage sites which can be detected with the IR camera. Typically, these areas include recessed lights, exterior wall/floor junction, electrical boxes on exterior walls, rough opening of windows and doors.

For further information contact Paul Tschida at 406-444-6464 or by e-mail at [ptschida@mt.gov](mailto:ptschida@mt.gov).