

Insulation

When evaluating the performance of insulation it is important to keep in mind how insulation works and the way that it is rated. The job of insulation is not to stop air flow. This is a common misconception. The job of insulation is to slow the transfer of heat across a surface such as a wall or ceiling. It does this by providing air spaces that trap the heat as it moves across a surface. Insulation performance is referred to as R-value or (resistance to heat transfer). The higher the R-value the better the ability of the insulation material to slow heat transfer. These numbers are established in laboratory settings so insulation must be installed in the same fashion in order to give the rated results. The performance is hindered greatly by any gaps, voids or compression. Heat moves in the path of least resistance. Poorly installed insulation is like an open door. In the past insulation performance was based on guess work, the comfort of the occupants or destructive testing. Using our state-of-the-art infrared thermography equipment we can detect any excess thermal loss or gain through your buildings wall, floors or ceilings.