



Attic Knee Walls

Many homes have walls that are partially buffered by unconditioned attic spaces. These walls are typically referred to as knee walls. Usually found in a closet or a Cape Cod style home, these knee walls can cause discomfort in the rooms in which they are found. The discomfort is usually caused by the under insulated or in some cases completely un insulated knee walls. Fiberglass in these knee walls is usually not properly installed and inadequate to keep in the comfortable air and keep out the uncomfortable temperatures. We have found two approaches to these areas which are quite effective.

Closed Cell Spray Foam

Closed cell spray foam when properly applied at 2 to 3 inches in the knee wall areas will air seal the conditioned space from the un conditioned space. First the fiberglass is removed and then the spray foam is applied. The superior R-value of the closed cell spray foam results in much more comfortable rooms in all seasons of the year.

Dense Packed Cellulose and 2" Polyiso Foam Board

Another approach to the knee wall area is to remove the existing fiberglass insulation and install 2" polyiso foam board to the 2X4 framing. We would then dense pack cellulose insulation behind the foam board. The combined R-value is greater than the fiberglass and in turn the living space buffering the knee walls are much more comfortable.

