

You may not think of your home as a system that works together, but it is. Like your body's skin, a well-built home envelope is a home's 1st line of defense against the elements of heat, cold, moisture & air leakage. Similarly, a correctly constructed attic system that has the right amount of intake & exhaust venting (50% / 50%) that inhales air through the eave vents and/or gable vents & exhales out of the roof & ridge vents, coupled with proper air sealing, the right amount of insulation, eave vent baffles, recessed light covers, attic fans & even radiant barrier, work together to keep hot, stagnant air from building up & entering into your interior living space during the summer & cold air from entering during the winter. The combination of these properly installed & applied energy efficiency components is what we refer to as **The Optimal Energy Efficient Attic Insulation System**.



Did You Know: Air sealing in the attic is a challenging project, but the benefits can be substantial. Proper air sealing can significantly reduce heating and cooling costs, improve building durability, and create a healthier indoor environment. (Energy.gov)

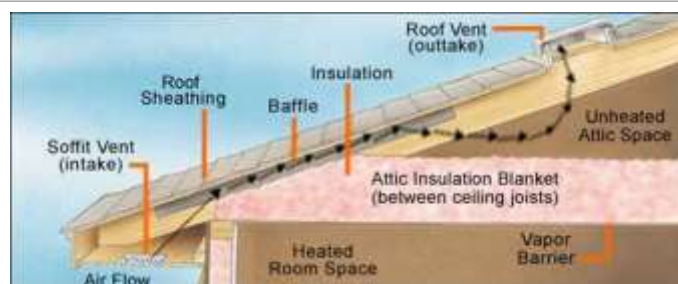
In addition to CA's insulation code requirements, the CEC (CA Title 24 Energy Code) now mandates the envelope air sealing of all newly constructed homes & commercial buildings. This means that the top & bottom plates, all exterior penetrations & attic penetrations need to be sealed. Radiant barrier OSB roof decking is also required.

For many homes, these energy efficiency components are lacking. When we do a home insulation assessment we find out exactly what your home needs to become optimally energy efficient. This could be a combination of removing the old, ineffective insulation, air sealing all attic penetrations & recessed lights, adding an attic fan to optimize ventilation, installing radiant barrier along the rafter joists, installing eave vent baffles so that air continues to flow once the insulation has been installed, & lastly, installing the proper amount of insulation. The goal is to reduce your long-term energy costs. **The Optimal Energy Efficient Attic Insulation System** is designed to do exactly that!

For more information on cost-savings energy efficiency solutions visit energy.ca.gov, energy.gov, energystar.gov, smud.org and/or pge.com.

Did You Know: Most homes in the United States don't have enough insulation and have significant air leaks. In fact, if you added up all the leaks, holes and gaps in a typical home's envelope, it would be the equivalent of having a window open every day of the year! (EnergyStar.gov)

Did You Know: Radiant barriers are installed in a home's attic primarily to reduce summer heat gain and reduce cooling costs. Radiant heat from the sun heats roof material, which then radiates its gained heat energy onto the cooler attic surfaces, including the air ducts and the attic floor. A radiant barrier reduces the radiant heat transfer from the underside of the roof to the other surfaces in the attic. (Energy.gov)



Did You Know: The most common mistake made when installing insulation is to block the flow of air at the eaves. NEVER COVER ATTIC EAVE OR SOFFIT VENTS WITH INSULATION — use vent baffles and soffit vents to maintain airflow. In the summer, natural air flow in a well-vented attic moves super-heated air out of the attic, protecting roof shingles and removing moisture. During the winter, well air sealed, insulated & ventilated attics will keep the heat in the home & prevent moisture build-up in the attic space. (EnergyStar.gov)

Did You Know: Attic fans are intended to cool hot attics by drawing in cooler outside air from attic vents (soffit and gable) and pushing hot air to the outside. However, if your attic has blocked soffit vents and is not well-sealed from the rest of the house, attic fans will suck cool conditioned air up out of the house and into the attic. This will use more energy and make your air conditioner work harder, which will increase your summer utility bill. (EnergyStar.gov)

