

## **Efficient Duct Systems**

### **Just One of the Energy-Saving Features Built Into Fred Williams' ENERGY STAR Qualified Home.**

Ducts carry air from your central heater or air conditioner to each part of your home and back again. In a typical home, about 20% of the air that moves through the duct system is lost due to leaks, holes, and poorly connected ducts. To minimize these problems, the duct systems in Fred Williams' ENERGY STAR qualified homes are properly installed for maximum efficiency, and then third-party tested to ensure performance.

#### **Benefits of Efficient Duct Systems:**

##### ■ **LOWER UTILITY BILLS**

On average, homeowners spend nearly \$1,000 on heating and cooling each year. The tightly sealed, well insulated ducts installed in our ENERGY STAR qualified homes can reduce your annual utility bill by \$120 or more.

##### ■ **IMPROVED INDOOR AIR QUALITY**

In a typical home, leaky ducts in attics, unfinished basements, crawl spaces, and garages can let in dirt, dust, moisture, pollen, pests, and fumes. By properly sealing the ducts in our ENERGY STAR qualified homes, we can minimize these problems and help improve your home's indoor air quality.

##### ■ **LOWER MAINTENANCE COSTS**

When ducts are leaky, the heating and cooling equipment has to work harder to keep the home comfortable. The sealed duct systems we install in our ENERGY STAR qualified homes helps to reduce the workload so your system should last longer.

## **Efficient Duct Systems**

**Just One of the Energy-Saving Features Built Into  
Fred Williams' ENERGY STAR Qualified Home.**

### **Building Efficient Duct Systems**

Choosing energy-efficient heating and cooling equipment is only half the story. To ensure that your system operates at peak efficiency, a properly installed duct system is essential. That's why Fred Williams uses installation procedures recommended by the U.S. Environmental Protection Agency's (EPA's) ENERGY STAR program, including:

#### ■ **DUCTS IN CONDITIONED SPACES**

We ensure that ductwork is located inside the conditioned space of your home (not in an unconditioned garage or attic) to minimize exposure to harsh conditions, which can make your system use more energy to keep the home comfortable.

#### ■ **INSULATED DUCTS**

Where it is not possible to install ducts in conditioned spaces, we make sure that they are well-insulated to minimize energy loss.

#### ■ **SEALED DUCTS**

We use a special sealant called "duct mastic" and long-lasting foil tapes to ensure that the duct system does not leak the air you have paid to heat and cool.

#### ■ **RIGHT-SIZED DUCTS**

Our ENERGY STAR qualified homes use properly sized ducts, which helps ensure that the ducts deliver the right amount of conditioned air throughout your home.