

## WHAT TO KNOW

### About the Home Inspection

Some items should always be examined.

#### **Structure**

The home's "skeleton" should be able to stand up to weather, gravity, and the earth that surrounds it. Structural components include items such as the foundation and the framing.

#### **Exterior**

The inspector should look at sidewalks, driveways, steps, windows, doors, siding, trim, and surface drainage. They should also examine any attached porches, decks, and balconies.

#### **Roofing**

A good inspector will provide very important information about your roof, including its age, roof draining systems, buckled shingles, and loose gutters and downspouts. They should also inform you of the condition of any skylights and chimneys as well as the potential for pooling water.

#### **Plumbing**

They should thoroughly examine the water supply and drainage systems, water heating equipment, and fuel storage systems. Drainage pumps and sump pumps also fall under this category. Poor water pressure, banging pipes, rust spots, or corrosion can indicate larger problems.

#### **Electrical**

You should be informed of the condition of service entrance wires, service panels, breakers and fuses, and disconnects. Also take note of the number of outlets in each room.

#### **Heating and air conditioning**

The home's vents, flues, and chimneys should be inspected. The inspector should be able to tell you the water heater's age, its energy rating, and whether the size is adequate for the house. They should also describe and inspect all the central air and through-wall cooling equipment.

#### **Interiors**

Your inspector should take a close look at walls, ceilings and floors; steps, stairways, and railings; countertops and cabinets; and garage systems. These areas can reveal leaks, insect damage, rot, construction defects, and more.

#### **Ventilation/insulation**

Inspectors should check for adequate insulation and ventilation in the attic and in unfinished areas such as crawl spaces. Insulation should be appropriate for the climate. Without proper ventilation, excess moisture can lead to mold and water damage.

#### **Fireplaces**

They're charming, but fireplaces can be dangerous if they're not properly installed. Inspectors should examine the vent and flue and describe solid fuel-burning appliances.

## WHAT TO KNOW

### About Home Hazards

#### **Radon**

A colorless, odorless gas that can seep into your home from the ground, radon is often referred to as the second most common cause of lung cancer behind smoking.

**What to look for:** Basements or any area with protrusions into the ground offer entry points for radon. The Environmental Protection Agency publishes a map of high-prevalence areas. A radon test can determine if high levels are present.

#### **Asbestos**

A fibrous material once popular as fire-resistant insulation, asbestos was banned in 1985. However, it's often found in the building materials, floor tiles, roof coverings, and siding of older. If disturbed or damaged, it can enter the air and cause severe illness.

**What to look for:** Homes built prior to 1985 are at risk of having asbestos in their construction materials. Home owners should be careful when remodeling because disturbing insulation and other materials may cause the asbestos to become airborne.

#### **Lead**

This toxic metal used in home products for decades can contribute to several health problems, especially among children. Exposure can occur from deteriorating lead-based paint, pipes, or lead-contaminated dust or soil.

**What to look for:** Homes built prior to 1978 may have lead present. Look for peeling paint and check old pipes. To get a HUD-insured loan, buyers must show a certificate that their older home is lead-safe.

#### **Other hazardous products**

Stockpiles of hazardous household items — such as paint solvents, pesticides, fertilizers, or motor oils — can create a dangerous situation if not properly stored. They can easily spark fires and can cause illness or even death if ingested, even in small amounts.

**What to look for:** Check all the corners, crawl spaces, garages, or garden sheds in the home. If these products are found, make sure you ask for their removal and get a disposal certificate prior to closing.

#### **Groundwater contamination**

When hazardous chemicals are disposed of improperly, they can seep through the soil and enter water supplies. A leaking underground oil tank or septic system can contribute to this.

**What to look for:** Homes near light industrial areas or facilities may be at risk, as are areas once used for industry that are now residential.

## VOCABULARY

### Green Home Terms

Whether you're building the home of your dreams or looking for an existing unit, there's a lot of data involved in finding the right environmentally friendly dwelling. Here's a breakdown of the different certification systems for energy-efficient homes.

#### **RESNET**

The **Residential Energy Services Network** is a not-for-profit corporation that develops industry-wide standards and rules for energy efficiency ratings and certification systems for buildings. In addition to overseeing the HERS index (see below), RESNET certifies contractors of all types, including builders, roofing and siding professionals, and remodeling contractors.

#### **HERS index**

The **Home Energy Rating System** is an index measuring a home's energy efficiency. An average home built to current industry standards for energy efficiency will have an index of 100. A lower score indicates higher levels of efficiency (for example, a home with a score of 70 is using 30 percent less energy than the average home). The opposite is true with homes that score higher than 100. This index is overseen by RESNET.

#### **LEED**

The United States Green Building Council is the agency that bestows **Leadership in Energy and Environmental Design** certifications on environmentally friendly buildings and projects. The highest certification a building can earn is "LEED platinum." Projects earn points based on numerous categories such as indoor air quality and water efficiency. More points add up to a higher certification level.

#### **Energy Star**

The Energy Star program is overseen by the U.S. Environmental Protection Agency. Products such as refrigerators, light bulbs, and furnaces can earn Energy Star certifications. Separately, homes can be Energy Star-certified through an independent inspection.

#### **Indoor airPLUS:**

This program is also administered by the EPA. Homes that go above and beyond the Energy Star requirements by incorporating additional features to combat moisture, mold, pests, and pollutants can earn this label.

#### **National Green Building Certification**

Overseen by the National Association of Home Builders, this program helps residential building professionals develop and build sustainable projects. Buildings can earn bronze, silver, gold, or emerald certifications. At the Emerald level — which is the highest certification a project can earn — a building "must incorporate energy savings of 60 percent or more."