# Roofs 1

roof frame

Water that enters a building through the roof can cause significant damage. The roof frame, the roof deck, insulation, and personal property can all be damaged. Serving as an effective vapor barrier is thus a roof's most important job.

Leaks often occur near flashings that penetrate the roof membrane. Inspect the seals at the locations frequently. Rain that flows over a drain's seal can also lead to

Roofing Guide: Domoge Preventing Water Domoge problems. Drains should be wide enough to handle a heavy rainfall and should be cleaned often. An increased slope around the drain can help avoid pooling of water in the area.

> Roof leaks also typically occur at roof edges, such as along parapet walls and walks. Custom-made components can be installed to seal a roof perimeter. Scuppers in parapets and gutters along edges should be cleaned regularly. Otherwise, water is unable to flow away from the roof. A properly installed gravel stop can prevent gravel from clogging gutters and other drains.

A roof must protect a building against the full variety of elements

experienced in its climate. For example, roofs in cold climates need to withstand the weight of snow and be sloped sufficiently to reduce

## Get ready!

parapet

13

### Before you read the passage, talk about these questions.

- 1 What carries rainwater off a roof?
- 2 What is the main structural support of a roof called?

## Reading

### 2 Read the troubleshooting article on roofs. Then, choose the correct answers.

scupper

gutter

- 1 According to the passage, what is the most important job of a roof?
  - A preventing heat loss
  - B stopping moisture leaks
  - C supporting the building frame
  - D withstanding the weight of elements
- 2 Which of the following is NOT listed as a place where roof leaks occur?
  - A a roof deck C a drain's seal
  - B a parapet wall D a flashing
- 3 How can a roof perimeter be protected from water leaks?
  - A increasing the roof slope
  - B increasing the width of drains
  - C inspecting flashing seals
  - D installing custom components

## Vocabulary

accumulation.

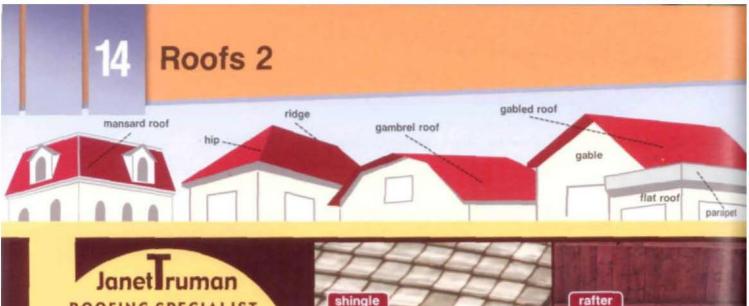
### 3 Match the words (1-8) with the definitions (A-H).

- 1 \_\_\_\_ gutter
- 5 \_\_\_\_ vapor barrier 6 \_\_\_\_ roof membrane
- 2 \_ parapet

3 \_ roof deck

4 \_\_\_\_\_flashing

- 7 \_ scupper
- 8 \_\_ gravel stop
- A an opening in a wall that allows water to drain off of a roof
- B a layer of roofing material in between the structural parts and insulating or waterproofing lavers
- C a roof component used to seal roof edges where the roof covering is interrupted
- D a piece of metal placed at the edge of a roof to prevent gravel from falling off
- E a part of a building's edge, such as a wall, that extends above the roof
- F a layer of rubber or bitumen placed typically over a flat roof to prevent water leakage
- G a channel at the edge of a roof that collects rainwater and carries it away
- H a material that prevents moisture from entering a wall, roof, or floor



# **ROOFING SPECIALIST**

With over twenty-five years of experience in the roofing industry. I have the skills to make your roofing project a success. I can work with you to design and build the roof of any structure. Need proof? Check out my work around town.

My crew installed the low slope roof on the new Super Save store. The gambrel roofs of the Anderson and Mayfield farms are my work. And I led the team building the mansard roof for the City Living apartment complex.

I can build and design a roof with multiple elements. It could have eye-catching gables or slopes that join at hips. A simple shed roof can have a rake or be designed with decorative eaves to enhance appearance. Besides looks, I also install functional roofs. Even a flat roof will have an effective slope for water drainage.

Additionally, I specialize in the repair of existing roofs. A regular attic inspection to check for damage to rafters and purlins is always a good idea. My crew and I lay and repair various types of shingles, including shakes, fiberglass asphalt, and slate. We also check roof vents for leaks and proper functioning.

Come to Truman Roofing for a free consultation about your roofing design, installation, or repair needs.

## Get ready!

 Before you read the passage, talk about these questions.

- What are some different types of roof?
- 2 What type of roof has a parapet?

## Reading

shinale

Read the ad for a roof specialist. Then, mark the following statements as true (T) or false (F).

- The roofer designed mansard roofs for farmhouses.
- Decorative eaves can be added to shed roofs.
- 3 \_ The roofer can repair damaged shakes.

## Vocabulary

3 \_\_\_\_ shed

#### 3 Match the words (1-7) with the definitions (A-G).

- 1 \_\_\_\_ shake
- 4 \_\_ mansard
- 7 \_\_\_\_ rake
- 2 \_\_ gambrel 5 \_\_ low slope roof
  - 6 \_\_ purlin
- A a kind of roof that has one single slope
- B the sloped edge of a roof next to the first or last rafter
- C a roof that has a very small slope to allow for water drainage
- D a type of wooden shingle made from split logs
- E a roof with two slopes on each of each sides, which joins together in hips at the building corners
- F a horizontal structural member that connects two roof rafters
- G a symmetrical two-sided roof with two slopes on each side

### 4 Read the sentence and choose the correct word.

- 1 The column sticking out of the roof is a piping vent / gable.
- 2 The slopes of this mansard roof join in a(n) eave / hip at the building corner.
- 3 This flat roof / rafter has a very small slope for water drainage.
- 4 The eave / shingle hangs over the wall for water to run off.
- 5 The rafters / vents supporting this gambrel roof are at two angles.
- 6 A shed roof does not form a triangle-shaped rake / gable.
- 7 Use asphalt shingles / purlins to cover this roof.