



**Structural
elements of the
upper part of the
building**

pruquid

Plan:

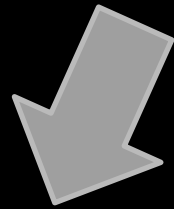
- ▶ Roof
- ▶ Roof types
- ▶ Roof elements:
 - Solid decking
 - Felt Underlayment
 - Chimney
 - Rafter
 - Gutter
 - Downspout

The roof is a structural element that completes the building and protects it from the external environment.

According to the constructive solution, attic roofs are distinguished, having a space (attic) between the ceiling of the upper floor and the roof, and non-attic roofs, which combine the ceiling of the upper floor and the roof into one structural element.



The roof consists of two main elements:



the load-bearing part



the roof



- ▶ The roof planes are given an appropriate slope for the drainage of rain and melt water. With small roof slopes, the roof is called flat. The flat roofs of catering establishments are often used to expand dining areas during the summer. Such a roof is called an exploited roof.



Roof elements:

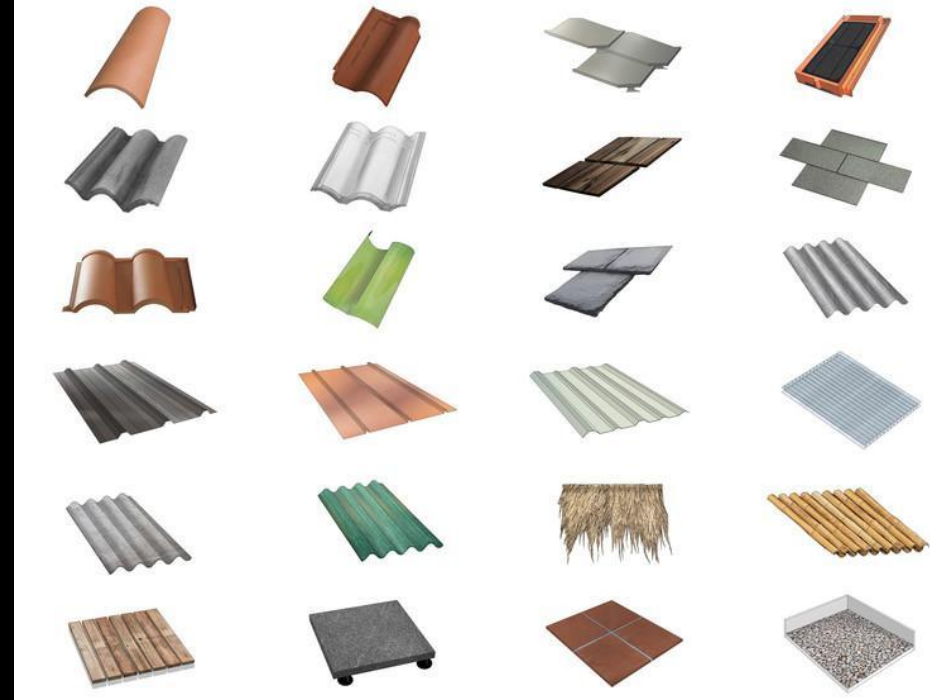
▶ **Solid Decking:** A composite decking made of solid materials. It resembles real wood and particularly strong and stable for bearing heavy load.



▶ **Felt Underlayment:** It is a waterproofing layer made of regular felt, stacked above the solid decking board and then completely covered by the shingles or other roofing materials.



Roof covering typically of flat and rectangular shapes and made of various materials such as slate, wood, flagstone, plastic, metal and composite materials.

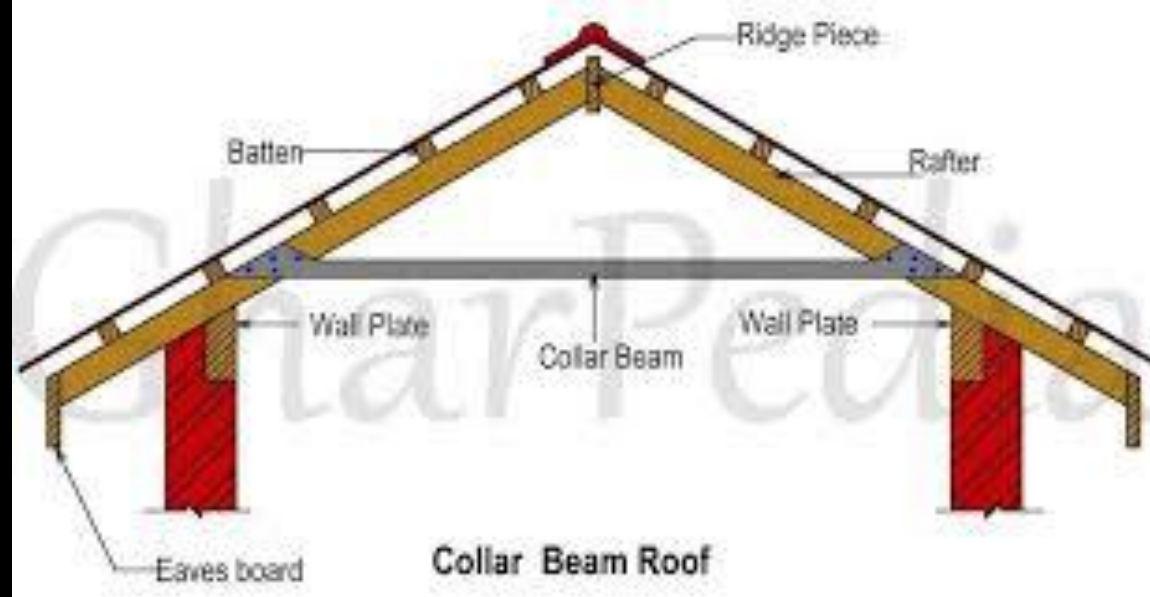


Chimney: A vertical structure through the roof that ventilates smoke and combustion gases from a fireplace, boiler or stove to the outside atmosphere.

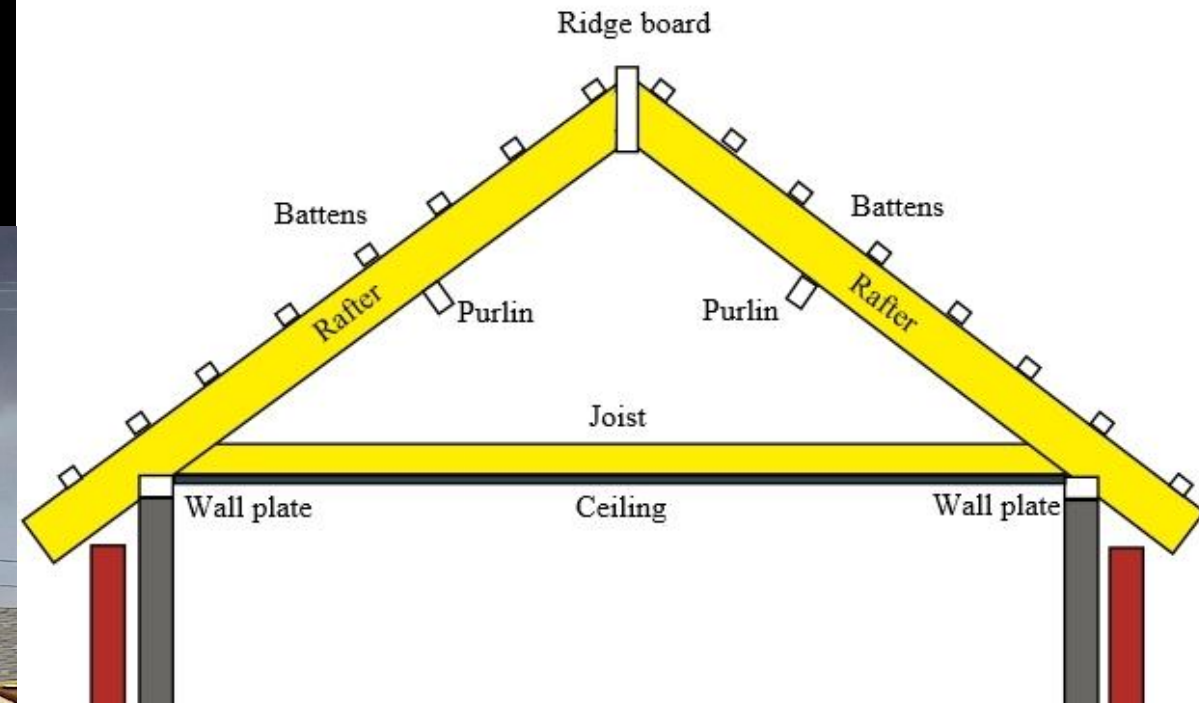


▶ Collar Beam: The horizontal beam connecting two rafters that intersect at the ridge.

▶ Rafter: One of a series of diagonal members of the truss that meet at the apex in order to support the roof deck and its loads.



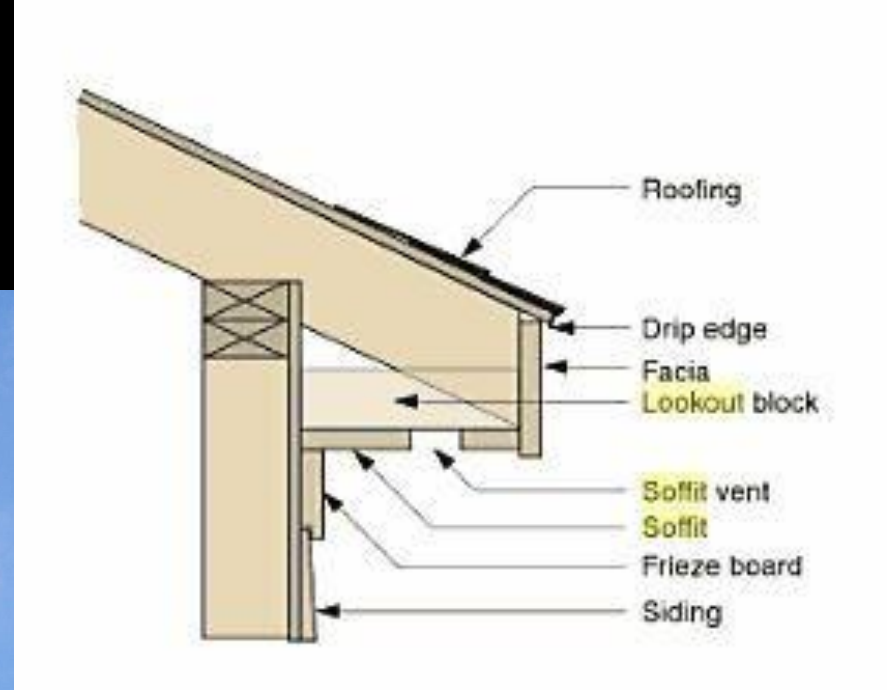
Fascia: The sheath covering the ends of the rafters.



▶ Lookout: The horizontal joist projecting in cantilever from the wall plate.

▶ Gutter: A duct for water discharge system for a building.

▶ Downspout: The channel that transports rainwater from the gutter.



THIS IS ALL



**THANKS FOR
YOU ATTENTION**