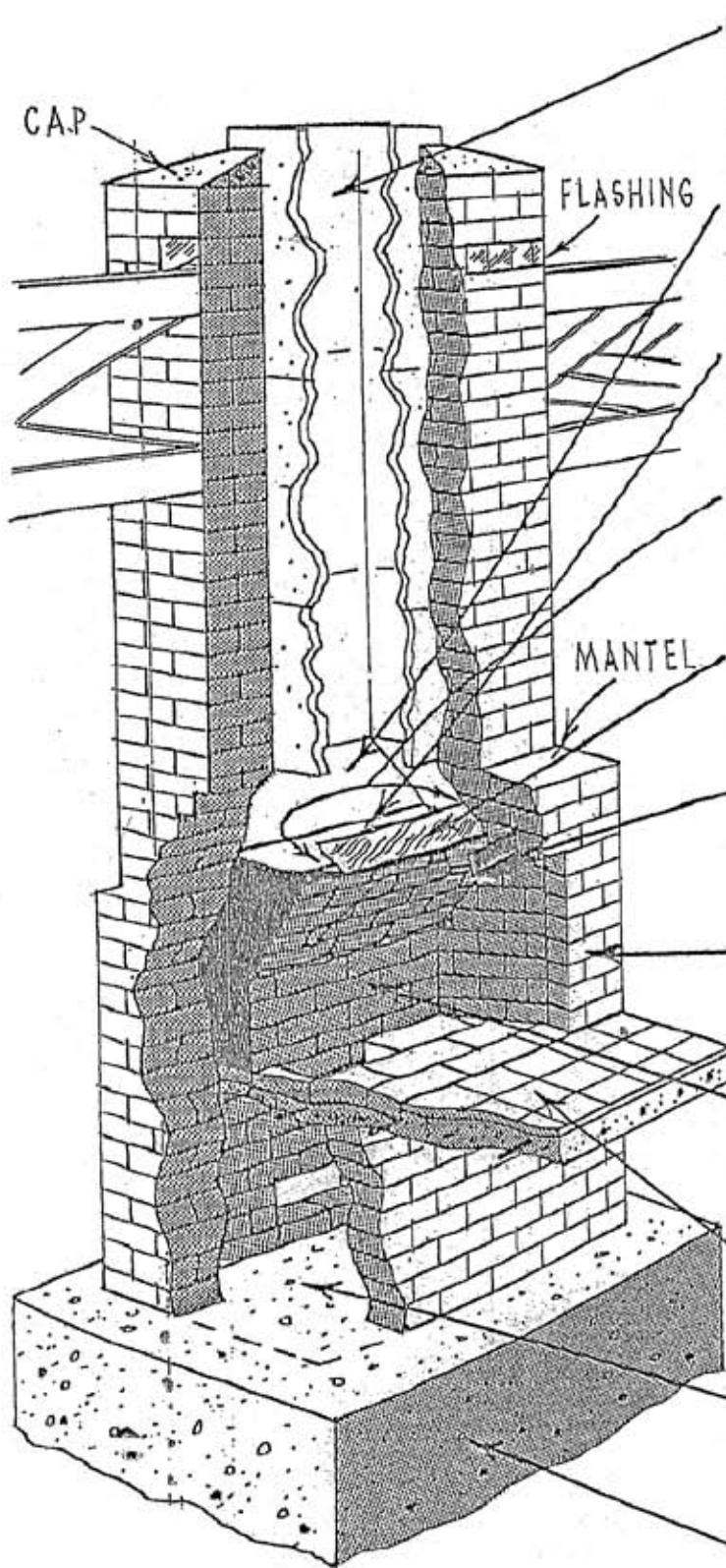


# Anatomy of a fireplace



## CHIMNEY FLUE

Smoke and combustion gases from the burning wood pass up the chimney inside a flue. Flues usually consist of large-diameter terra cotta pipe.

## SMOKE CHAMBER

The smoke chamber acts as a funnel to compress the smoke and gases rising from the fire so they will squeeze into the chimney flue above.

## SMOKE SHELF

A smoke shelf bounces stray downdrafts back up the chimney before they can neutralize the updraft and blow smoke into the room.

## THROAT

The throat is a slot-like opening above the firebox, where flame, smoke, and combustion gases pass into the smoke chamber. It is usually fitted with a damper.

## DAMPER

The damper is a steel or cast iron door that opens or closes the throat opening. Used to check and regulate draft, it prevents loss of heat up the chimney.

## LINTEL

The lintel is a heavy steel brace that supports the masonry above the fireplace opening. Sometimes, it is incorporated in the damper assembly.

## FACE

The masonry surrounding the fireplace opening is known as the fireplace "face." It may be built of various materials: brick, stone, concrete, tile, wood.

## FIREBOX

The chamber where the fire is built is made of fire-resistant brick. Walls and back are slanted slightly to radiate heat out into the room.

## HEARTH

Inner hearth of fire-resistant brick holds the burning fuel; outer hearth of tile, brick, etc., protects house flooring from heat, sparks. Supported by subhearth.

## ASH PIT

Ashes are dumped through an opening in the hearth into the fireproof storage compartment below. Many fireplaces today are built without ash pits.

## FOUNDATION

The fireplace and chimney structure has its own foundation. The concentrated weight of the masonry is usually carried by a reinforced concrete slab.