

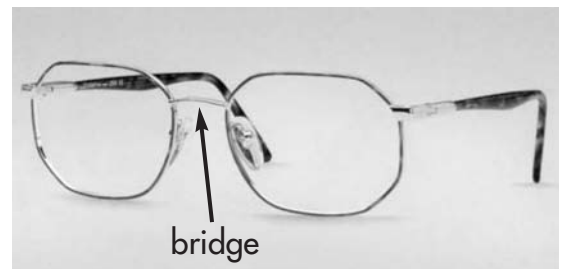
The Parts of a Frame

Understanding frame parts will help you understand each frame.

Eyewire – the part of the frame that wraps around the lens.



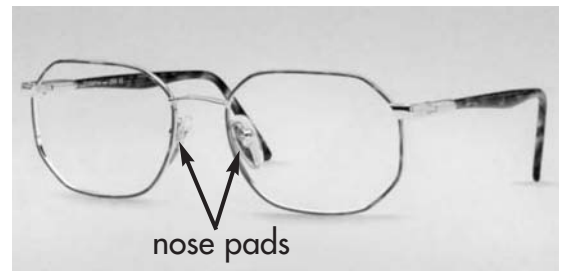
Bridge – the area between the right and left lens that connects the eyewires.



Endpiece – an extension of the frame front that connects the eyewire to the hinge.



Nose Pads – attached to the bridge or the eyewire, nose pads help distribute the weight of the glasses evenly on the patient’s nose.



Temple – hooks over the ear to stabilize the frame and to help prevent the frame from sliding down on the nose.



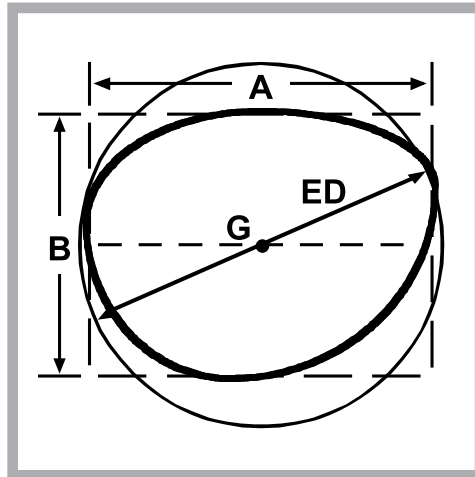
Hinge – connects the endpiece to the temple.



Lens Measurements

The Lens Box System is used to determine the size of the lens. All measurements are taken in millimeters (mm).

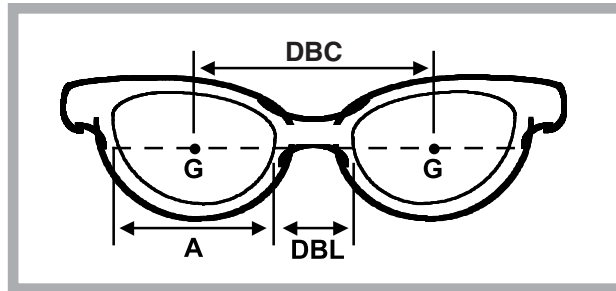
Box System



- The '**G**' is the geometric (physical) center of the lens.
- The '**A**' measurement (lens size) is the horizontal measurement of the lens. The '**A**' is measured from the widest part of the box.
- The '**B**' measurement is the vertical measurement of the lens. The '**B**' is measured from the deepest part of the box.
- The **Effective Diameter**, or '**ED**' is the diameter of the smallest circle that will enclose the lens.

Frame Measurements

Frames are sized according to three measurements: eye size, bridge size and temple length. Again, all measurements are expressed in millimeters (mm).



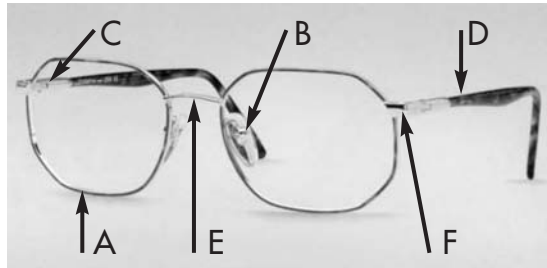
- The eye size is represented by the '**A**' measurement, or the horizontal measurement of the frame. Eye sizes usually range from 36 mm to 65 mm.
- The bridge size or **DBL** (Distance Between Lenses) is the measurement between the two lenses in a frame. Bridge sizes usually range from 14 mm to 24 mm.
- The **temple length** is measured from the hinge to the end of the temple. Temple lengths usually range from 120 mm to 165 mm.

All frames are marked with the above measurements. They are usually located on the temple or bridge of the frame.

52 □ 18 135

This is an example of how measurements might appear on a frame. 52 represents the eyesize, 18 the bridge and 135 the temple length.

Self-Test: Frames



1. Identify the frame parts:

- A. _____
- B. _____
- C. _____
- D. _____
- E. _____
- F. _____

2. Match the following words with their definition by drawing a line to connect them:

- | | |
|-----------------|---------------------------|
| Zyl | supports frame |
| DBL | strong, lightweight metal |
| ED | effective diameter |
| Titanium | horizontal measurement |
| Temple | distance between lenses |
| "A" Measurement | plastic |