

Reviewed by:

- Doctor
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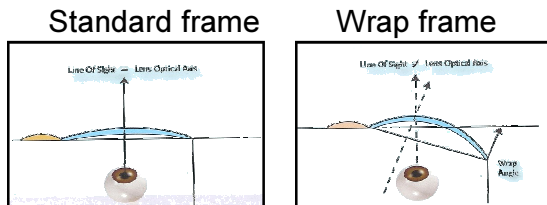


Wrapping It Up

Sunwear. It's the one item all of your patients should be wearing and wrap sunglass frames continue to stand out as "hot". Many of you have experienced the frustration of a lenses "popping" out of a patients wrap frame or complaints of poor vision. Being aware of the current lens technology geared toward wrap frames and their appropriate application can save you from future headache.

Generally, frames with a wraparound design require an eight base lens for good fit. So you find yourself filling your patients Rx with a base curve that will accommodate their frame selection, rather than their prescription. Using an ordinary spherical 8 base lens for prescriptions that should go on other base curves results in:

- Optical distortion
- Unwanted astigmatism
- A highly restricted viewing zone (Keyhole effect)



As the wearer looks straight ahead in a flat profile lens that is positioned in a standard flat profile frame, his line of sight coincides with the lens' optical axis. However, when you place that same flat profile lens in a wrap frame, the wearer's line of sight and the lens's optical axis do not coincide. The patient is experiencing unwanted prism and a tilted lens effect because the wrapped lenses are tilted around the lens' vertical and horizontal axes inducing prism. The tilted lens-viewing angle also induces base-out prism that can affect binocularity.

Your hyperope patients will experience fewer issues with wrap frames because plus powers generally require a front base curve of six or steeper. Visually these patients tend to adapt successfully to a wrap design. Higher plus prescriptions can be a challenge with thinner edges, but Rx's up to a +4.00 have few problems.

As only 7% of all prescriptions are appropriate for ordinary spherical 8 base lenses; it is fortunate that

several lens designs are available specifically for these frames and address the aforementioned problems. These lenses compensate for the unwanted visual effects induced by wrap frames. Available designs include:

- ▶ Shamir Attitude SV and progressives
- ▶ Kbcw Wrap Solutions SV and EOS progressive
- ▶ Essilor SV 360 Wrap and Ideal Wrap
- ▶ Zeiss Individual SV, GT2 3D, GT2 3DV and Individual Wraps
- ▶ Younger Image Wrap

A variety of lens materials and colors are available in the wrap lenses. Because wrap frames create stress on lenses by virtue of design, we recommend using higher tensile strength lenses such as Trivex, 1.60, 1.67 or polycarbonate.

Generally, prescriptions that fall within the range of +6.00 to -4.00 (total power including up to a 2.50 cylinder) can be accommodated into a wrap frame with these lenses, but the PD must also be considered. A 58 or smaller PD can cause lens thickness and cutout issues. If you are unsure if a patient is a suitable candidate for a wrap frame they are considering, please call Midwest Labs. We can analyze all components of the job and give you clearer direction in fitting your patient.

To help increase your success with wrap frames, consider the following tips-

TIPS FOR WRAP SUNWEAR

- Adjust the frame first and check fit on patient
- See if a wrap design is needed
- Measure using a protractor
- A wrap design is needed if the wrap angle is $> 10^\circ$
- Take monocular PDs and OCs
- OC should not be more than 5mm away from the geometric center of the frame
- Check to ensure cut-out of the lenses
- Know the Rx range of the lenses
- When ordering lenses, alert us that a wrap frame is being used

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