



Gelflex 

Australian contact lenses

PROFESSIONAL FITTING GUIDE

THE SAPPHIRE™ LENS
TORIC REVERSE GEOMETRY

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TORIC REVERSE GEOMETRY

SAPPHIRE™ LENS

The Sapphire™ Toric Reverse Geometry Lens is a bitoric lens based on the Emerald™ rotationally symmetrical lens design. The fundamental concept is to determine what Emerald™ lens parameters you would use on the "Flat Axis" of the cornea and what Emerald™ parameters you would use on the "Steep Axis".

In the majority of cases the BCOZR will be spherical since the goal is to achieve a spherical correction to reduce myopia. Any toricity in the lens is to achieve better centering of the optical zone of the lens over the pupil.

DEFAULT VALUES

Spherical BCOZR	6.2mm POZ / 7.0mm AOZ
Toric RC	0.50mm wide
Toric AC 1	Fit on K (Flat & Steep) / 0.70mm wide
Toric AC 2	1.5mm Flatter than AC 1 / 0.50mm wide
Spherical PC	0.50mm wide
Diameter	10.6mm
Center Thickness	0.24mm
Toric Range	1.0 diopters - 3.0 diopters in 0.25 diopter steps

For additional fitting tips, tutorials, and more information on our extensive range available, visit www.gelflex.com

FITTING METHODOLOGY

It is becoming a standard practice to determine the amount of toricity on the cornea by using a Corneal Topographer and measuring the sag height difference on the elevation map. It is common practice to make this measurement 4.0mm out from the center of the cornea (8.0mm chord diameter).

An 8.0mm chord diameter is in the middle of the 1st alignment curve on the Emerald™ design and is the best place to determine sag height difference to stabilize the fit.

For the Sapphire™ design, each 15 microns of sag height difference represents 0.50 diopters of peripheral toricity.

You can specify the Sapphire™ Toric Lens either by requesting the exact toricity in diopters that you would like, or you can tell us the exact sag height difference that you have measured on your topographer and we will calculate the lens you need to the closest 0.25 diopters.

The Emerald™ design has proven it's stability in clinical comparisons against other Ortho-K Designs.

We recommend that the Emerald™ design be your lens of 1st choice whenever the sag height difference is 30 microns or less. The Sapphire™ Toric lens can be ordered when the sag height difference is greater than 30 microns.



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