To accurately estimate the amount of vaulting (clearance) underneath the posterior surface of a scleral lens necessitates a reference point for comparison. Although some have suggested corneal thickness for the reference, we prefer the center thickness (CT) of the lens itself which will be listed on the manufacturer’s invoice. In each of the examples below, the CT is 0.30mm (300 microns). In most scleral lens designs, the ideal amount of clearance is about 300 microns.
SCLERAL LENS FIT SCALES

CENTRAL VAULTING

50 Microns

150 Microns

300 Microns

500 Microns

600 Microns

LIMBAL VAULTING

None

Good

Moderate

EDGE RELATIONSHIP

Severe Lift with bubble

Good Edge - Aligned

Mild Impingement

Severe Impingement

Supported by an unrestricted educational grant from

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