Clearkone® Restoring vision. Changing lives.™



FITTING GUIDE & TIPS FOR ACHIEVING SUCCESS



For additional information on fitting *ClearKone*®, please visit **www.FitSynergEyes.com** to view fitting videos, case studies, NaFL pictures and more.





ClearKone® Available Parameters

Material	Paflufocon D center (hemiberfilcon A skirt)
Dk	100
Water Content	27% (soft skirt)
Diameter	14.5mm
Vault	50 – 600 in 50μ steps
Custom Vault	650u, 750u
Skirt Curvature	Steep, Medium, Flat
Custom Skirt	Steep2
Curvature	
Sphere Power	+2.00 to -8.00 in 0.25D steps -8.50 to -20.00 in 0.50D steps +2.50 to +10.00 in 0.50D steps
Wear Indications	Daily Wear
Recommended Replacement	6 Months
Lens Care	Hydrogen Peroxide
Delivery	1-2 Weeks

Customer Care

PHONE: 877.733.2012, option 1

Consultation

PHONE: 877.733.2012, option 2

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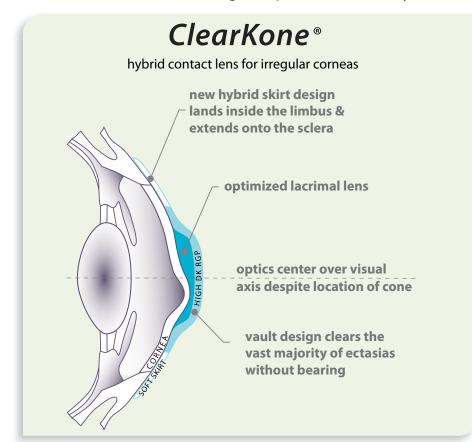
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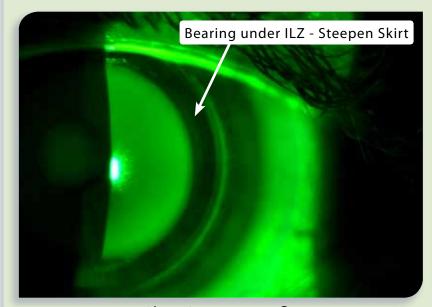
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Advanced Lens Design

The ClearKone® patent-pending vault design and the reverse geometry landing system are optimized to clear the predominant irregularities of the keratoconic cornea, thus effectively restoring vision to a vast majority of irregular cornea patients without compromising comfort or eye health, even in the most challenging cases. The excellent centration and stability of the hybrid platform keep the optics centered over the visual axis, regardless of the location of the cone, to successfully decrease aberrations resulting in superior visual acuity.



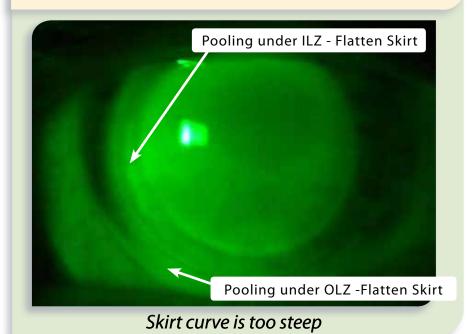


Skirt Curve is too flat



Determining Proper Skirt Curvature

- Evaluate skirt curve only after the proper vault has been determined and is on the eye.
- **Use a Wratten filter** (provided in the diagnostic set) to enhance the NaFL contrast. This makes fine tuning the skirt curve much easier and will save chair time.
- The ideal fit will exhibit NaFL thinning in the Inner Landing Zone (ILZ) and bearing in the Outer Landing Zone (OLZ).
- The lens will exhibit movement very similar to a standard soft lens.
- The patient's comfort/discomfort comparison will confirm whether you have the correct/incorrect skirt curve.



Patient Candidates

- · Oval and Nipple Keratoconus
- · Central and Decentered Cones
- · Globus (depending on the specifics of the case)
- · Pellucid Marginal Degeneration (depending on the specifics of the case)
- · Most Irregular Corneas (depending on the specifics of the case)

Design Features

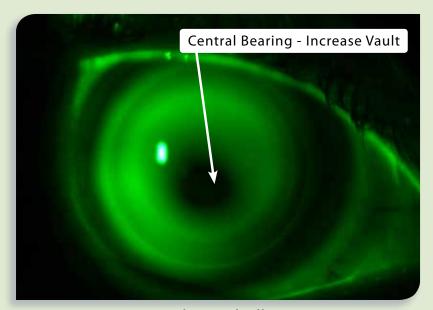
- 1. Exclusive vault design optimizes lacrimal lens to fit a vast majority of ectasias
- 2. ClearKone design centers the optics independent of the location of the cone, decreasing aberrations, resulting in superior visual acuity
- 3. Design allows for much of the power to come from the lacrimal lens, which substantially lowers lens powers to further enhance optical quality
- 4. ClearKone incorporates a new hybrid skirt curve design which promotes all-day tear flow and movement, providing comfortable lens wear, corneal health and simplified lens removal
- 5. ClearKone utilizes a linear vault fitting system which simplifies the fitting process and minimizes chair time

Key Fitting Principles

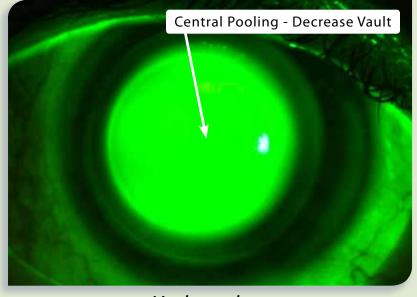
The fitting philosophy of the *ClearKone*® lens is based on the concept of fitting on overall sagittal depth instead of varying the base curve in relation to the irregular cornea. The fit of the *ClearKone* lens depends upon the depth of the lens clearing the elevation of the cone, rather than a match in curvature. The fitting process involves first determining the minimal vault needed to clear the cone and then determining the skirt curvature that properly lands inside the limbus and extends onto the sclera.

The <u>vault</u> value describes the overall relative depth of the lens. The goal is to determine the appropriate vault that provides complete apical clearance to clear the cone.

The lens lands on both the soft (defined as **Outer Landing Zone [OLZ]**) and rigid (defined as **Inner Landing Zone [ILZ]**) materials. The landing area is divided by the junction of the hybrid lens.



Vault too shallow

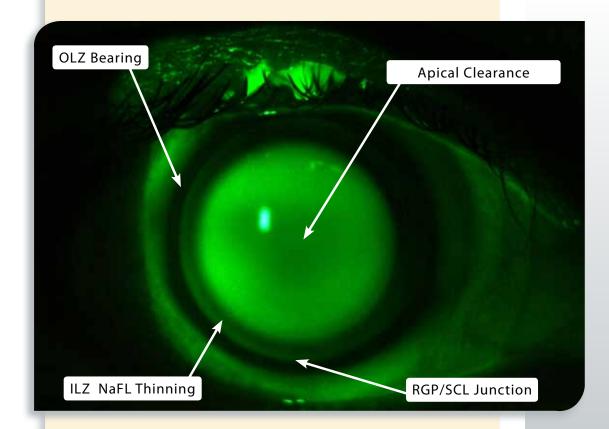


Vault too deep

Determining Proper Vault

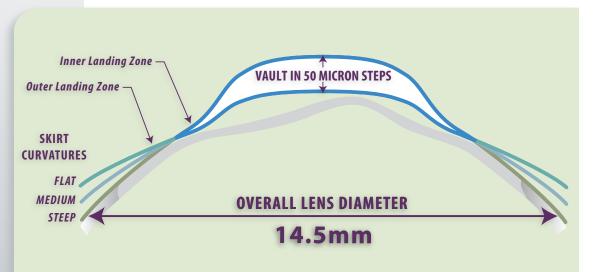
- · Avoid any central touch when fitting. Even the lightest touch or "feather touch" will cause patient discomfort.
- For patients who are being re-fit from RGPs, *SynergEyes*® *KC*, or *SynergEyes*® *A*, the cornea will most likely return to its natural shape once the pressure of the predicate lens is removed. You may need to re-order deeper *ClearKone*® lenses after the cornea has normalized.
- · It is important to evaluate the fit within 3-5 minutes after insertion. Waiting longer than 5 minutes to evaluate will give false positives for apical touch or ILZ bearing. If bearing or thinning has not occurred after 5 minutes, the vault may be too deep.
- · After a few minutes of wear, the patient will tell you if you have apical touch because the lens will not be comfortable.
- · Topography can be very misleading when fitting ClearKone. You may not always find a correlation between K values and vault values.

Ideal ClearKone® Fit



Vault and Skirt Curvature

ClearKone® is available in 12 different vaults each of which can be ordered in 3 different skirt curvatures, flat, medium, and steep, to properly fit a vast majority of irregular cornea patients. The fit of the vault is independent of the fit of the skirt curvature – each should be fit separately.



ClearKone® is available in 12 vault values. Each vault can be ordered in 3 different skirt curves. Custom vaults and skirt curves are also available.

Proper Insertion Process cont'd

- Fill the lens while holding it horizontally on the DMV scleral cup (included in the diagnostic set) OR by stabilizing the lens between the index and middle finger.
- Have the patient lean forward and tuck their chin to chest. Nose should be perpendicular to the floor.
- Retract the upper and lower lids and elevate the lens onto the center of the cornea, displacing the saline. Be careful not to push the lens too forcefully upon insertion, as too much pressure on insertion can cause false positives for apical touch and ILZ bearing.









Check for bubbles under the lens with NaFL illuminating cobalt penlight (included in the diagnostic set).

Bubbles

There are areas within the optic zone that could result in trapped air bubbles if the lens is not inserted properly.

Because air bubbles can affect the appearance of the NaFL pattern, insertion bubbles should be eliminated prior to evaluating the fit.

- Bubbles are representative of an insertion error not a fitting error. Do not attempt to displace bubbles by decreasing vault.
- · You must remove the lens and re-insert making certain that the bowl of the lens is filled to the TOP with solution.
- Bubbles cannot be displaced by lens manipulation.
- · Bubbles are less likely to occur if patient maintains fixated gaze (straight to the floor) throughout the insertion process.

Proper Insertion Process



- High molecular-weight fluorescein (FluoreSoft®) is necessary for fit evaluation, both central (vault) and peripheral (landing zone/skirt curve).
- - To increase the comfort of the fluorescein and to minimize insertion bubbles, fill the bowl of the lens with 1 drop of fluorescein and fill the remainder of the bowl completely to the top with nonpreserved saline.

Diagnostic Set

The ClearKone® diagnostic set contains 12 vaults ranging from $50-600\mu$ in 50μ steps. Each vault within the diagnostic set is available in two different skirt curve options, medium and steep. A flat skirt or a steep2 can be ordered for the patients for whom they are needed. Custom vault lenses are also available in 650m and 700m. Each diagnostic lens has laser markings that indicate its lens type, vault and skirt curvature.

Linear Vault Fitting System

ClearKone utilizes a linear vault fitting system, which simplifies the fitting process and minimizes chair time. The power of the diagnostic lenses is calibrated to change at the same rate as the vault value. Therefore, any two lenses within the fitting set will require the same over-refraction. Once the over-refraction of a diagnostic lens has been determined, every other lens in the set should take the same over-refraction.

