

3M Press-On™ Fresnel Prism and Spheres

These ultra-thin Fresnel lenses are designed for pre- and post-operative trial fittings, inexpensive vision therapy, during power changes, and for instant corrections on sports goggles and sunglasses.

The lenses, made of polyvinyl chloride, are available in 1.00D to 40.00D prisms, plus powers to 16.00D, minus powers to 14.00D and D-25 segs to +6.00D. 3M Press-On Optics, all only 1mm thick, are comfortably lightweight for patients to wear and can be easily applied to any eyewear, whether prescription or plano carrier lenses.

Use and application of D25 Segs

HORIZONTAL PLACEMENT

To ensure proper horizontal positioning of D25 Segs +3.00D and above, dot the front surface of the spectacle lens in the conventional manner to indicate the distance PD. Referring to the illustration, determine the appropriate distance between the outside edges of the segs and mark this distance on the front surface of the spectacle lenses. For example, Distance PD = 61mm and distance Rx = -3D; so the distance between the outside edge of segs should be equal to 81mm.

SEGMENT HEIGHT

If the prescribed height of the D-25 Seg requires trimming, the vertical dimension should be reduced by cutting from the bottom of the seg. This will preserve the optical correction of the D-25 Seg. Place a razor blade at the desired position on the segment and press straight down against a flat, hard surface to obtain a sharp edge.

Each package contains both right and left seg. Be sure the optical centre of each seg is decentred nasalward. The optical centre of each seg is easily identified by the position of the smallest concentric circle in each segment. Normally the top edges of the segs should be level with each other.

Prism	Plus Power	Minus Power	FT25 (D-Seg)
1.00	0.50	1.00	1.00
2.00	1.00	2.00	1.50
3.00	1.50	3.00	2.00
4.00	2.00	4.00	2.50
5.00	2.50	5.00	3.00
6.00	3.00	6.00	4.00
7.00	3.50	7.00	5.00
8.00	4.00	8.00	6.00
9.00	5.00	9.00	
10.00	6.00	10.00	
12.00	7.00	11.00	
15.00	8.00	12.00	
20.00	10.00	13.00	
25.00	12.00	14.00	
30.00	14.00		
35.00	16.00		
40.00			



Locate outer edges of the D-25 Segs at the patient's PD pull the following amount:

Distance Rx	Rx Pull
-8.00 to -6.00D	23mm
-6.00 to -0.00D	20mm
0.00D to +4.00	16mm
+4.00 to +8.00	11mm