SINGLE VISION & MULTIFOCALS LENSES

		Tolerance					
Back vertex power			Each meridian	Tolerance on cylinder power			
				≥0.00 and ≤0.75 >0.75 and ≤4.00 >4.00 and ≤6.00 >6.00			>6.00
	D		D	D			
0.00	to	+/-3.00	+/-0.12	+/-0.12	+/-0.09	+/-0.12	+/-0.18
+/-3.25	to	+/-6.00	+/-0.12	+/-0.12	+/-0.12	+/-0.12	+/-0.18
+/-6.25	to	+/-9.00	+/-0.12	+/-0.12	+/-0.12	+/-0.18	+/-0.18
+/-9.25	to	+/-12.00	+/-0.18	+/-0.12	+/-0.12	+/-0.18	+/-0.25
+-/12.25	to	+/-20.00	+/-0.25	+/-0.18	+/-0.18	+/-0.25	+/-0.25
More than +/-20.00		+/-20.00	+/-0.25	+/-0.25	+/-0.25	+/-0.25	+/-0.37

AXIS

Cylinder power	Tolerance	
D	(°)	
≥0.125 and ≤0.25	+/-16	
>0.25 and ≤0.50	+/-9	
>0.50 and ≤0.75	+/-6	
>0.75 and ≤1.50	+/-4	
>1.50 and ≤2.50	+/-3	
>2.50	+/-2	

ADD POWER

Addition	≤4.00	>4.00
Tolerance	+/-0.12	+/-0.18

PROGRESSIVE & DEGRESSIVES LENSES

		Tolerance					
Back vertex power			Each meridian	Tolerance on cylinder power			
				≥0.00 and ≤0.75	>0.75 and ≤4.00	>4.00 and ≤6.00	>6.00
D		D	D				
0.00	to	+/-6.00	+/-0.12	+/-0.12	+/-0.18	+/-0.18	+/-0.25
+/-6.25	to	+/-9.00	+/-0.18	+/-0.18	+/-0.18	+/-0.18	+/-0.25
+/-9.25	to	+/-12.00	+/-0.18	+/-0.18	+/-0.18	+/-0.25	+/-0.25
+-/12.25	to	+/-20.00	+/-0.25	+/-0.18	+/-0.25	+/-0.25	+/-0.25
More than +/-20.00		+/-0.37	+/-0.25	+/-0.25	+/-0.37	+/-0.37	

AXIS

AXIO		
Cylinder power	Tolerance	
D	(°)	
≥0.125 and ≤0.25	+/-16	
>0.25 and ≤0.50	+/-9	
>0.50 and ≤0.75	+/-6	
>0.75 and ≤1.50	+/-4	
>1.50 and ≤2.50	+/-3	
>2.50	+/-2	

ADD POWER

Addition	≤4.00	>4.00	
Tolerance	+/-0.12	+/-0.18	

PRISM IMBALANCE

Highest absolute ordered compo- nent prism value	Tolerance on horizontal component (Relative to the ordered centration distance)	Tolerance of vertical component (Relative to the ordered centration distance)		
≥0.00 to ≤2.00	For powers ^a ≥0.00 to ≤3.25D - 0.67Δ For powers ^a >3.25D the prismatic effect of 2.0 mm displacement	For powers a ≥ 0.00 to $\leq 5.00D - 0.50\Delta$ For powers a $>5.00D$ the prismatic effect of 1.0 mm displacement		
>2.00 to ≤10.00	For powers a \ge 0.00 to \le 3.25D - 1.00 Δ For powers a $>$ 3.25D 0.33 Δ + the prismatic effect of 2.0 mm displacement	For powers a \geq 0.00 to \leq 5.00D - 0.75 Δ For powers a $>$ 5.00D 0.25 Δ + the prismatic effect of 1.0 mm displacement		
>10.00	For powers a \ge 0.00 to \le 3.25D - 1.25 Δ For powers a $>$ 3.25D 0.58 Δ + the prismatic effect of 2.0 mm displacement	For powers a ≥ 0.00 to $\leq 5.00D - 1.00\Delta$ For powers a $>5.00D 0.50\Delta$ + the prismatic effect of 1.0 mm displacement		
a These tolerances are applied to the lowest absolute principal power of the pair of lenses.				

SYMBOLS USED IN TABLE			
D Diopters			
(°) Degrees			
< Less than			
^	Greater than		
≤	Equal to or less than		
≥ Equal to or greater tha			
ET Edge thickness			
CT Centre thickness			

POSITIONING TOLERANCES

Multifocals

Vertical positions (heights) of segments

- Within +/-1.00 mm of that ordered
- Difference between mounted pair should not exceed 1.00 mm

Horizontal positions of segments

- Within +/-1.00 mm of ordered monocular centration points
- Difference between mounted pair should not exceed 1.00 mm

Segment tilt for straight top or curved top segments

Should not exceed 2 degrees

Progressive power and degressive power lenses

Vertical positions (heights) of fitting point

- Within +/-1.00 mm of that ordered
- Difference between mounted pair should not exceed 1.00 mm

Horizontal positions of segments

• Within +/-1.00 mm of ordered monocular centration points

Alignment marking tilt

Should not exceed 2 degrees from the horizontal

THICK

Material	Thick				
ivialeriai	Plus ET	Minus CT			
Low index	0.80	2.00	Tolerance		
Mid index	0.80	1.80	+/-0.3mm		
Polycarbonate	0.80	1.30			
Hi index	0.80	1.50			

Thickness tolerance

- The thickness of the lens may be specified by the manufacturer or be agreed between the customer and the supplier.
- Thickness shall be measured at the reference point of the front surface and normal to this surface. It shall not deviate from the ordered or agreed value by more than \pm 0,3 mm.