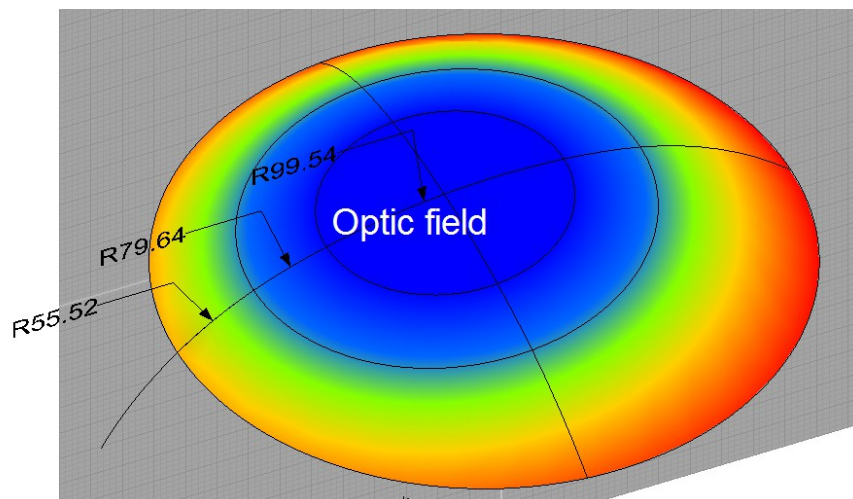




*Semi finished **VEGA2** the best solution for wrap frames.*

IODA has created aspherical semi finished which permits the production of lenses with negative and positive power suitable for wrap frames.

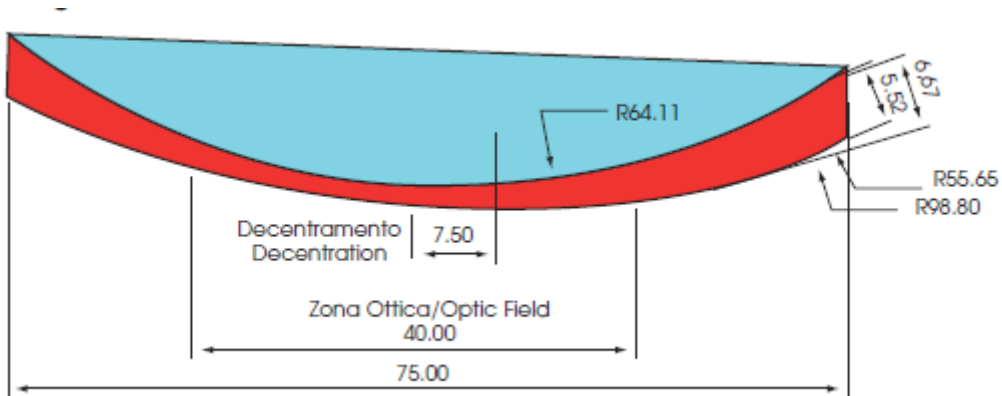
The special shape of convex allows to create lenses with thin edge thickness and improves the comfort for the user decreasing the convex surface inclination of the perpendicular pupil position.



*The base for **VEGA2** semi finished is described with two numbers, the first is for the base on the optic field , the second number identifies the base on the edge, as you can see from the drawing on the side, between the two bases , there is a slope zone (this zone is different for each base).*

*The range of **Vega2** semi finished is very wide and permits to work the concave surface with more ample radius if compared with a base 8; this is another important fact that increases the optical quality and makes the lenses lighter with thinner edges.*

Below you can see a sketch of a *Vega2's* negative lens section where the convex radius is 99,60mm in the optic field (wide 40mm) reaching R.55.65mm in the edge.

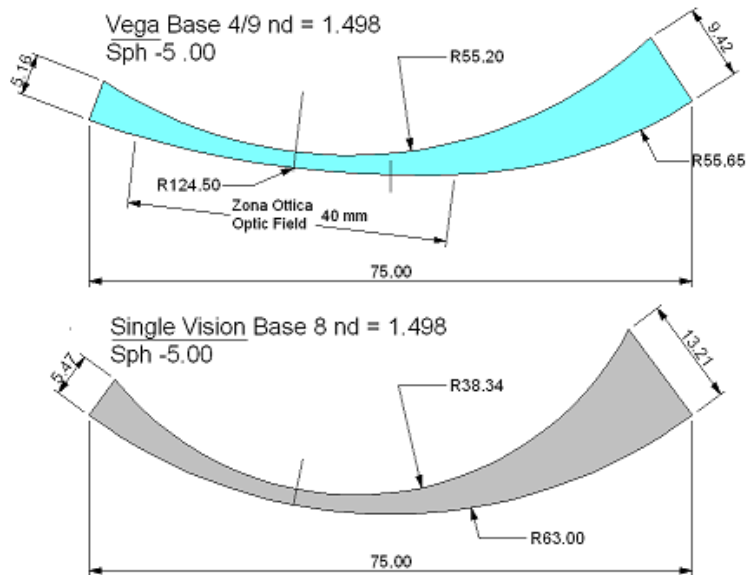


The Vega2 semi finished are made in diameter 75mm, the distance between optic and geometric point is 7,5mm, thus makes it possible to create finished lenses for very big frames.

Base available :

For positive Lenses	Base 8/9	Base 9/7			
For negative Lenses	Base 7/9	Base 6/9	Base 5/9	Base 4/9	Base 3/9

Comparison between a lens base vega 4/9 and a standard lens base 8 lens power -5.00 diopters refractive index $n = 1.498$



Semi finished are available in :

Light (Cr39) n=1,498, abbe=58, $\gamma=1,19$
MIR (Medium index) n=1,546, abbe=44, $\gamma=1,16$
MR8 (High Index) n=1,597, abbe=41, $\gamma=1,30$
IODACHROME n=1,546, abbe=42, $\gamma=1,19$

Data sheet:

Light (Cr39) n=1,498, abbe=58, $\gamma=1,19$

Nominal Base	Convex radius (mm) Optic field	Base (Dpt)	Concave Radius (mm)	Center thickness (mm)	Edge thickness (mm)
Base 3/9	166,00	3,00	99,00	13,0	12,0
Base 4/9	125,20	3,98	99,00	9,5	8,5
Base 5/9	98,80	5,04	99,00	10,5	8,5
Base 6/9	81,90	6,08	99,00	12,0	8,5
Base 7/9	70,80	7,03	99,00	12,5	8,5
Base 8/9	62,60	7,96	99,00	15,4	8,5
Base 9/7	55,88	7,03	99,00	15,6	8,5

MIR n=1,546, abbe=44, $\gamma=1,16$ and IODACHROME n=1,546, abbe=42

Nominal Base	Convex radius (mm) Optic field	Base (Dpt)	Concave Radius (mm)	Center thickness (mm)	Edge thickness (mm)
Base 3/9	166,00	3,29	99,00	13,0	12,0
Base 4/9	125,20	4,36	99,00	9,5	8,5
Base 5/9	98,80	5,53	99,00	10,5	8,5
Base 6/9	81,90	6,67	99,00	12,0	8,5
Base 7/9	70,80	7,71	99,00	12,5	8,5
Base 8/9	62,60	8,72	99,00	15,4	8,5
Base 9/7	55,88	9,77	99,00	15,6	8,5

MR8 (High Index) n=1,597, abbe=41, $\gamma=1,30$

Nominal Base	Convex radius (mm) Optic field	Base (Dpt)	Concave Radius (mm)	Center thickness (mm)	Edge thickness (mm)
Base 3/9	166,00	3,59	99,00	13,0	12,0
Base 4/9	129,75	4,60	99,00	9,5	8,5
Base 5/9	99,95	5,97	99,00	10,5	8,5
Base 6/9	83,90	7,12	99,00	12,0	8,5
Base 7/9	71,60	8,34	99,00	12,5	8,5
Base 8/9	62,68	9,52	99,00	15,4	8,5
Base 9/7	56,95	10,48	99,00	15,6	8,5

Suggestion range for semi finished Vega2

Light (Cr39) $n=1,498$, $abbe=58$, $\gamma=1,19$

	4,00	3,00	2,00	1,00	0,00	-1,00	-2,00	-3,00	-4,00	-5,00	-6,00	-7,00	-8,00	
	■	■	■	■	■	■								Vega2 Base 9/7
				■	■	■	■	■						Vega2 Base 8/9
						■	■	■	■					Vega2 Base 7/9
							■	■	■	■				Vega2 Base 6/9
Vega2 Base 5/9								■	■	■	■			
Vega2 Base 4/9									■	■	■	■		
Vega2 Base 3/9										■	■	■	■	

MIR $n=1,546$, $abbe=44$, $\gamma=1,16$ and **IODACHROME** $n=1,546$, $abbe=42$

	4,00	3,00	2,00	1,00	0,00	-1,00	-2,00	-3,00	-4,00	-5,00	-6,00	-7,00	-8,00	
	■	■	■	■	■	■								Vega2 Base 9/7
				■	■	■	■	■						Vega2 Base 8/9
						■	■	■	■					Vega2 Base 7/9
							■	■	■	■				Vega2 Base 6/9
Vega2 Base 5/9								■	■	■	■			
Vega2 Base 4/9									■	■	■	■		
Vega2 Base 3/9										■	■	■	■	

MR8 (High Index) $n=1,597$, $abbe=41$, $\gamma=1,30$

	4,00	3,00	2,00	1,00	0,00	-1,00	-2,00	-3,00	-4,00	-5,00	-6,00	-7,00	-8,00	
	■	■	■	■	■	■								Vega2 Base 9/7
				■	■	■	■	■						Vega2 Base 8/9
						■	■	■	■					Vega2 Base 7/9
							■	■	■	■				Vega2 Base 6/9
Vega2 Base 5/9								■	■	■	■			
Vega2 Base 4/9									■	■	■	■		
Vega2 Base 3/9										■	■	■	■	

Some information about the lens'construction from semi finished Vega2.

Our semi finished "Vega2" present a particular curve on the convex surface, very innovative which aids to their use for wrap frame lenses.

To obtain the best results, this particular form requests some special attention during preliminary stages before working the S/F , specially in reference to the prism.

The S/F is produced with the optical center placed 7 mm from the geometric center to satisfy the request for wrap frame lenses even for very big glasses.

Since the particular geometry of the convex surface does not permit to make the normal calculations in reference to the prism, one has to use one of the following methods:

A) Block the S/F at the optic center (clearly visible on the S/F)

In this case there aren't any problems blocking the S/F on the working holder because the holder lies on a centred surface with spherical symmetry , as on a normal semifinished and since the optical field is centred authomatically, the finished lens will be without prism.

B) Block the S/F at the geometric center and use the attached table to set up the value of the prism for the centring.

In this case, there is no more symmetry and a similar phenomenom as that of the progressive semifinished takes place: a precise contact between the holder and the S/F is missing.

In order to avoid that this situation leads to unwanted results, it is essential that the same blocking technique is always used:

We suggest to make coincide the holder with the temple part of the S/F and use the holder with high diameter: 70/75 mm.

Since they are not centred, it will be necessary to introduce a centring prism whose value is indicated in the attached table.

*This operation manual whant gives you some information about Vega 2 semi finished,
for any other information you can contact me directly by mail at :*

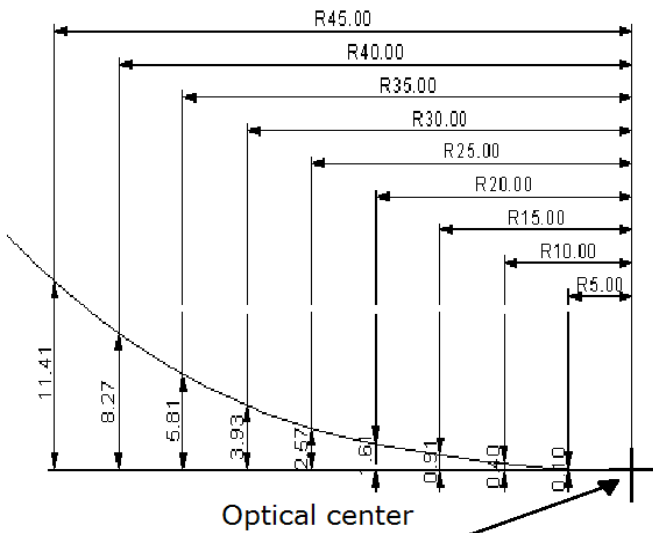
francesco.battisti@ioda-it.com

I'll be happy to help you!

*Sales and Customer Service Manager
Francesco Battisti*

CC sagitta SEMIFINISHED VEGA2

RADIUS R (mm)	Base 4-9	Base 5-9	Base 6-9	Base 7-9	Base 8-9	Base 9-7
5	0,10	0,13	0,15	0,18	0,20	0,23
6	0,14	0,18	0,22	0,26	0,29	0,32
7	0,20	0,25	0,30	0,35	0,39	0,44
8	0,26	0,32	0,39	0,45	0,51	0,58
9	0,32	0,41	0,49	0,57	0,65	0,73
10	0,40	0,50	0,60	0,71	0,81	0,91
11	0,49	0,61	0,73	0,86	0,98	1,10
12	0,58	0,73	0,87	1,02	1,16	1,31
13	0,68	0,85	1,02	1,20	1,37	1,54
14	0,79	0,99	1,19	1,39	1,59	1,79
15	0,91	1,14	1,37	1,60	1,83	2,06
16	1,03	1,29	1,56	1,82	2,08	2,35
17	1,16	1,46	1,76	2,06	2,36	2,66
18	1,31	1,64	1,98	2,31	2,65	2,99
19	1,46	1,83	2,20	2,58	2,96	3,34
20	1,61	2,03	2,45	2,87	3,29	3,72
21	1,78	2,24	2,70	3,16	3,64	4,11
22	1,96	2,46	2,97	3,48	4,00	4,53
23	2,15	2,70	3,25	3,82	4,39	4,97
24	2,36	2,95	3,56	4,17	4,80	5,43
25	2,57	3,21	3,87	4,55	5,23	5,91
26	2,81	3,48	4,21	4,94	5,69	6,40
27	3,06	3,77	4,57	5,36	6,17	6,92
28	3,33	4,08	4,94	5,79	6,68	7,46
29	3,62	4,40	5,34	6,26	7,21	8,02
30	3,93	4,75	5,77	6,75	7,78	8,61
31	4,27	5,10	6,21	7,26	8,37	9,21
32	4,62	5,49	6,68	7,79	8,99	9,84
33	4,99	5,89	7,18	8,36	9,65	10,49
34	5,39	6,32	7,70	8,95	10,34	11,16
35	5,81	6,78	8,25	9,59	11,07	11,86
36	6,25	7,25	8,88	10,22	11,83	12,59
37	6,72	7,75	9,49	10,91	12,63	13,34
38	7,21	8,28	10,12	11,62	13,48	14,12
39	7,73	8,84	10,78	12,37	14,36	14,93
45	8,27	9,42	11,40	13,17	15,30	15,77
41	8,84	10,02	12,21	13,98	16,29	16,64
42	9,44	10,66	12,97	14,84	17,33	17,55
43	10,07	11,33	13,77	15,75	18,43	18,49
44	10,72	12,03	14,61	16,70	19,61	19,47
45	11,41	12,78	15,40	17,72	20,85	20,49



Example of Sagitta calculation, it is for Base 4/9