

## ZEISS Riflescopes

### Reticles and Subtensions, March 2013



We make it visible.

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# All ZEISS Riflescopes and Reticles



We make it visible.

	Image-plane	Illuminated Reticles	Non-illuminat. Reticles
<b>VICTORY Diarange (with mounting rail)</b>			
<b>2.5 - 10 x 50</b>	2	43 - 60	
<b>3 - 12 x 56</b>	2	43 - 60	
<b>Victory FL Diavari (without mounting rail)</b>			
<b>4 - 16 x 50</b>	2	60 - 78	
<b>6 - 24 x 56</b>	2	43 - 60 - 78	
<b>6 - 24 x 72</b>	2	43 - 60	
<b>VICTORY HT (with or without mounting rail)</b>			
<b>1.1 - 4 x 24</b>	2	54 - 60	
<b>1.5 - 6 x 42</b>	2	60	
<b>2.5 - 10 x 50</b>	2	60 - 76	
<b>3 - 12 x 56</b>	2	60 - 76	
<b>Victory Varipoint iC (with mounting rail)</b>			
<b>1.1 - 4 x 24 iC</b>	1+2	0 - 60	
<b>1.5 - 6 x 42 iC</b>	1+2	60	
<b>2.5 - 10 x 50 iC</b>	1+2	60	
<b>3 - 12 x 56 iC</b>	1+2	60	



	Image-plane	Illuminated Reticles	Non-illuminat. Reticles
<b>Classic Diavari (with or without mounting rail)</b>			
<b>2.5 - 10 x 50</b>	1	60	
<b>3 - 12 x 56</b>	1	60	
<b>Duralyt (without mounting rail)</b>			
<b>1.2 - 5 x 36</b>	2	60	6
<b>2 - 8 x 42</b>	2	60	6
<b>3 - 12 x 50</b>	2	60	6

## VICTORY Diarange: Reticle 60

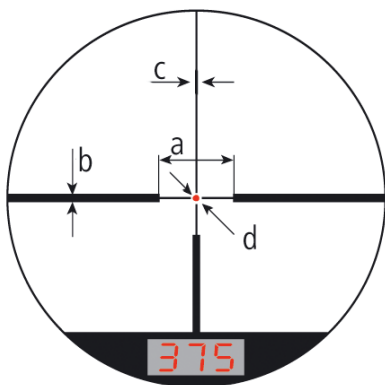


We make it visible.

Diarange reticle 60	2,5 x	3 x	4 x	6 x	8 x	10 x	12 x
Diameter dot (d) *)	7,2	6,0	4,5	3,0	2,3	1,8	1,5
Thin line (c)	2,4	2,0	1,5	1,0	0,8	0,6	0,5
Thick bars (b)	18,0	15,0	11,3	7,5	5,6	4,5	3,75
Opening (a) between bars	336,0	280,0	210,0	140	105,0	84	70

\*) Dot diameter = 18 cm / magnification

*Subtensions in cm at 100 m*



### VICTORY Diarange

**2.5 - 10 x 50 T\***

**3 - 12 x 56 T\***

Reticle in second  
image plane



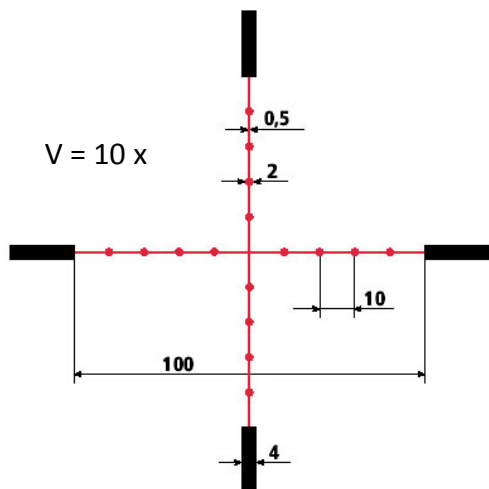
## VICTORY Diarange: Reticle 43



We make it visible.

Diarange reticle 43	2,5 x	3 x	4 x	6 x	8 x	10 x	12 x
Diameter dots	8,0	6,7	5,0	3,3	2,5	2,0	1,7
Thin line	2,0	1,7	1,3	0,8	0,6	0,5	0,4
Thick bar	16	13	10	6,7	5,0	4	3,3
Distance between dots	40	33	25	17	13	10	8
Opening between bars	400	333	250	167	125	100	83

*Subtensions in cm at 100 m*



### VICTORY Diarange

**2.5 - 10 x 50 T\***

**3 - 12 x 56 T\***

Reticle in second  
image plane



## Victory FL Diavari: Reticle 60

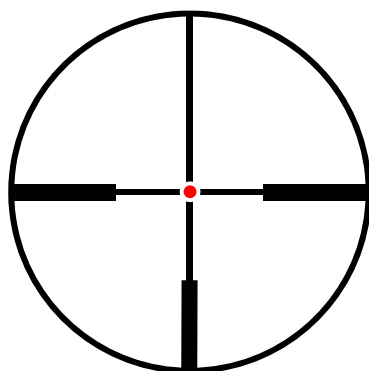


We make it visible.

FL Diavari reticle 60	4 x	6 x	10 x	12 x	16 x	20 x	24 x
Diameter dot *)	4,5	3,0	1,8	1,5	1,1	0,90	0,75
Thin line	1,5	1,0	0,60	0,50	0,38	0,30	0,25
Thick bar	11,3	7,5	4,5	3,75	2,8	2,3	1,9
Opening between bars	210	140	84	70	53	42	35

\*) Dot diameter = 18 cm / magnification

*Subtensions in cm at 100 m*



### Victory FL Diavari

**4 - 16 x 50 T\***

**6 - 24 x 56 T\***

**6 - 24 x 72 T\***

Reticle in second  
image plane



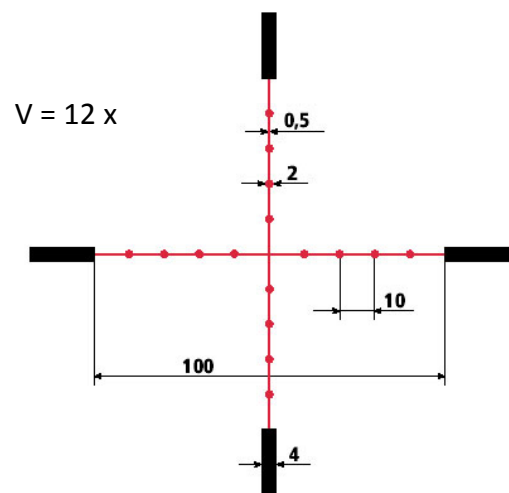
## Victory FL Diavari: Reticle 43



We make it visible.

FL Diavari reticle 43	4 x	6 x	10 x	12 x	16 x	20 x	24 x
Diameter dots	6,0	4,0	2,4	2,0	1,5	1,2	1,0
Thin line	1,5	1,0	0,6	0,5	0,38	0,30	0,25
Thick bar	12,0	8,0	4,8	4,0	3,0	2,4	2,0
Distance between dots	30	20	12	10	8	6	5
Opening between bars	300	200	120	100	75	60	50

*Subtensions in cm at 100 m*



### Victory FL Diavari

4 - 16 x 50 T\*

6 - 24 x 56 T\*

Reticle in second  
image plane



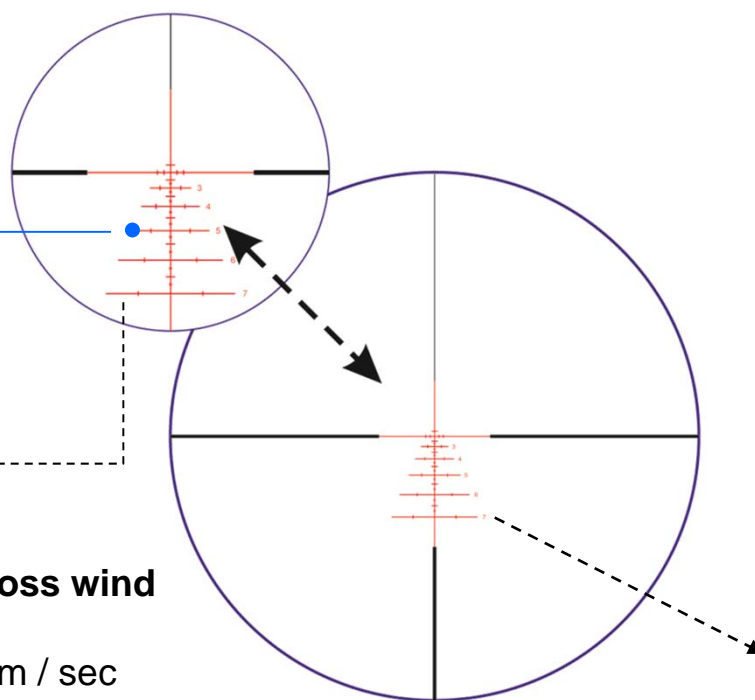
## Victory FL Diavari: Reticle 78 (Rapid Z7)



We make it visible.

**RAPIDZ<sup>7</sup>**

*Example:  
Aiming point for 500  
m. Cross wind from  
right with speed  
5 m / sec = 18 km / h.*



**Markings for cross wind  
compensation.**  
Wind speed 2.5 m / sec  
and 5.0 m / sec.

### Victory FL Diavari

**4 - 16 x 50 T\* FL**

**6 - 24 x 56 T\* FL**

Reticle in second image plane

### Subtensions

with **M = 18x (6-24x56)**

with **M = 16x (4-16x50)**

Thin lines: 0,5 cm  
Thick bars: 2 cm  
Space between bars: 70 cm  
(at 100 m)

**Distance Lines** for 100 m until 700 m  
with markings in between.  
Precondition: Sighted in at  
**200 m** (center cross) and correct  
magnification, due to the ammunition.

## Rapid Z System



We make it visible.

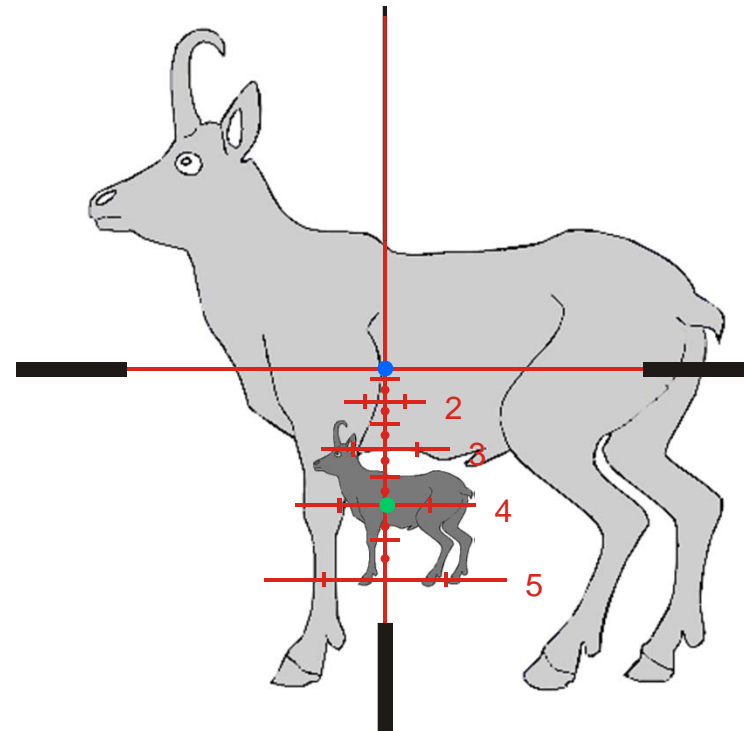
The fastest solution for remaining on target at long range and reliably incorporating the fall of shot directly based on the ballistic reticle.

- No calculation, click counting or estimated aiming above the target!
- Adjustment to the ballistics via the scaling on the ballistic reticle, i.e. via the magnification.

- 1. Measure or estimate range.**
- 2. Remain on target with the corresponding distance line!**

Rapid Z5 with

100 m Distance ●  
400 m Distance ●





## Rapid Z System: Select the Right Magnification



We make it visible.

For an accurate calculation of the right magnification please use the [Rapid-Z ballistik calculator on the Carl Zeiss Sports Optics homepage](#). If there is no access to that you can find out the magnification in the following way:

- I. The ballistic data of your ammunition (or testshots) show the **bullet drop** from 100 m (target) and 300 m (= **BD13**).

- II. There is a **reference magnification  $M_R$**  for every riflescope with Rapid-Z:  
*(This magnification is the right for any ammunition with  $BD13 = 33$  cm, e.g. 300 WinMag Blaser CDP)*

$M_R = 10 \times$	for 2.5-10x50	(Rapid-Z5)
$M_R = 12 \times$	for 3-12x56	(Rapid-Z5)
$M_R = 16 \times$	for 4-16x50 FL	(Rapid-Z7)
$M_R = 18 \times$	for 6-24x56 FL	(Rapid-Z7)

- III. The **right magnification** for this used ammunition can then be calculated as:

$$M = \frac{M_R \times 33 \text{ cm}}{BD13}$$

If the point of impact with this selected magnification is too deep: reduce the magnification. If the point of impact is too high: increase the magnification.

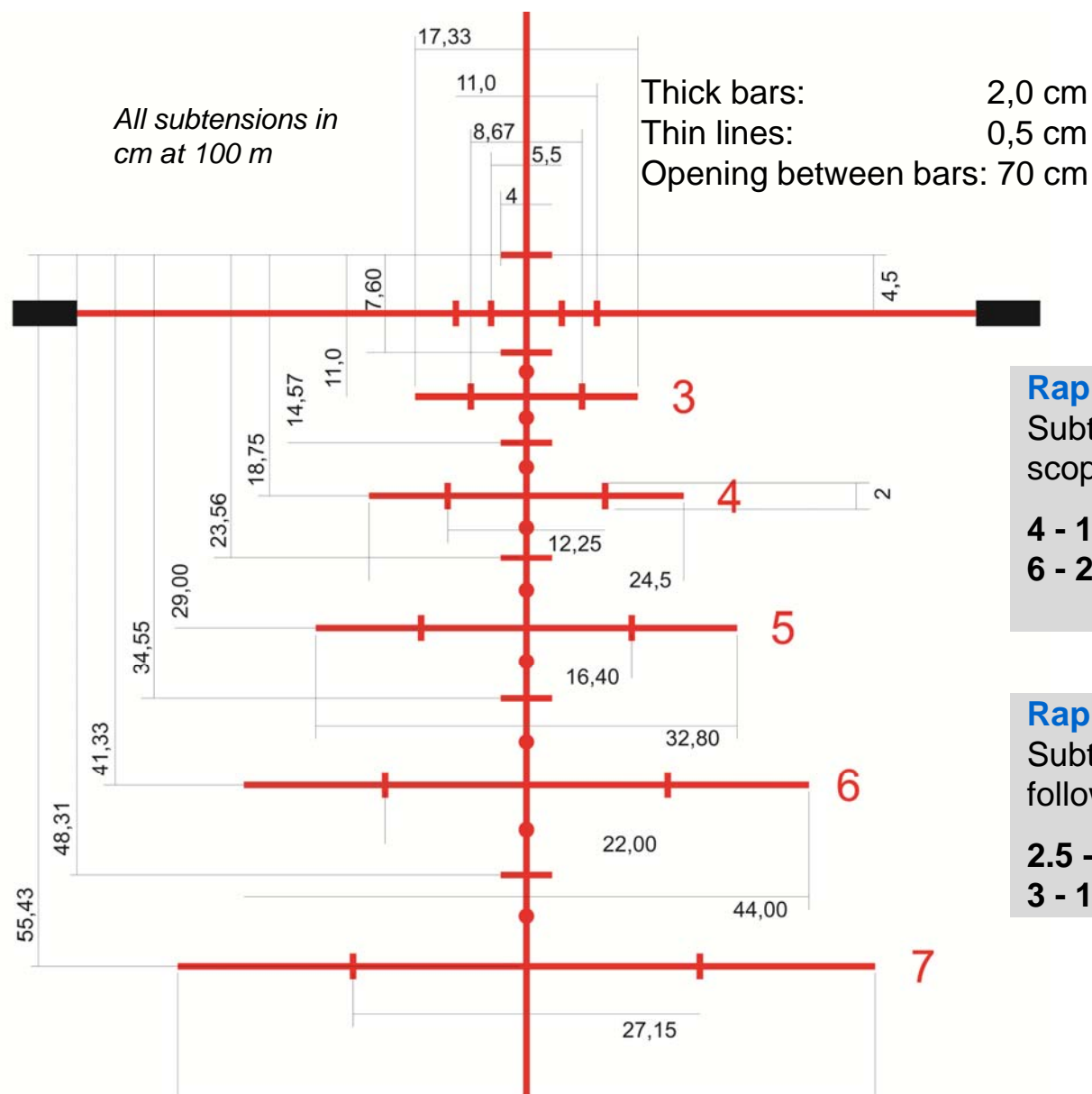
- IV. The **sight in distance** (with central reticle's cross) has to be

100 m	with Rapid-Z5
200 m	with Rapid-Z7

## Rapid Z System: Detailed Subtensions



We make it visible.



### Rapid Z7

Subtensions are for the following scopes and magnification:

**4 - 16 x 50 FL with mag. = 16**

**6 - 24 x 56 FL with mag. = 18**

### Rapid-Z5

Subtensions (until line 5) are for the following scopes and magnification:

**2.5 - 10 x 50 with mag. = 10**

**3 - 12 x 56 with mag. = 12**

## VICTORY HT: Reticle54

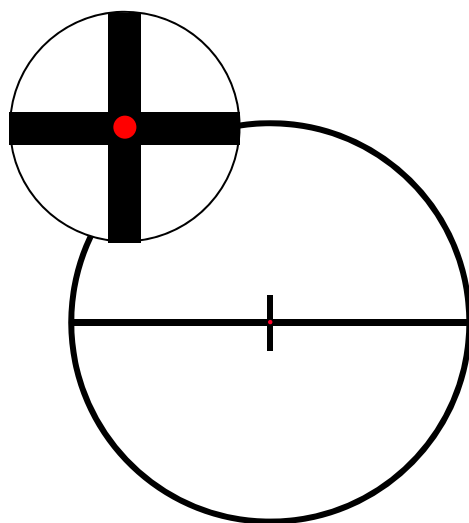


We make it visible.

VICTORY HT ret. 54	1,1 x	1,5 x	2 x	3 x	4 x
Diameter dot *)	5,8	4,3	3,2	2,1	1,6
Horizontal line	13	9,6	7,2	4,8	3,6
Vertical post	200	147	110	73	55

\*) Diameter dot = 6,6 cm / magnification

*Subtensions in cm at 100 m*



**VICTORY HT**

**1.1 - 4 x 24**

Reticle in second  
image plane



## VICTORY HT: Reticle 60

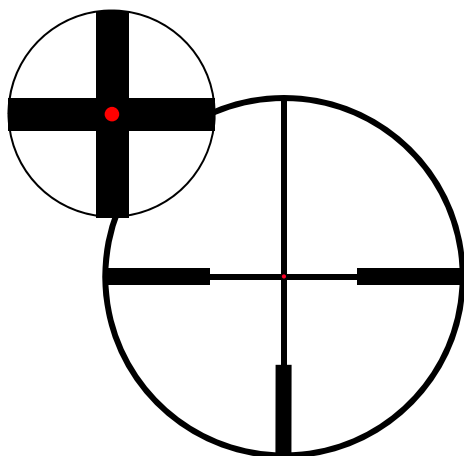


We make it visible.

VICTORY HT ret. 60	1,1 x	1,5 x	2,5 x	3 x	4 x	6 x	10 x	12 x
Diameter dot *)	6	4,4	2,6	2,2	1,7	1,1	0,66	0,55
Thin line	9	6,4	3,8	3,2	2,4	1,6	1,0	0,8
Thick bar	39	29	17	14,4	11	7,2	4,3	3,6
Opening between bars	764	560	336	280,0	210	140	84	70

\*) Diameter dot = 6,6 cm / magnification

*Subtensions in cm at 100 m*



### VICTORY HT

1.1 - 4 x 24

1.5 - 6 x 42

2.5 - 10 x 50

3 - 12 x 56

Reticle in second  
image plane



## VICTORY HT: Reticle 76 (Rapid Z5)



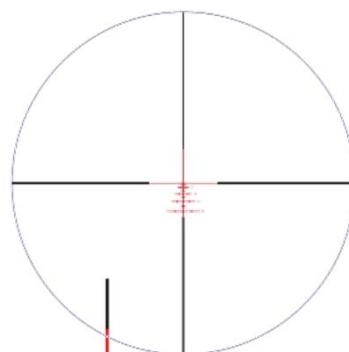
We make it visible.

### VICTORY HT

2.5 - 10 x 50

3 - 12 x 56

Reticle in second  
image plane



### Subtensions

2,5 - 10 x 50 with mag. = 10

3 - 12 x 56 with mag. = 12

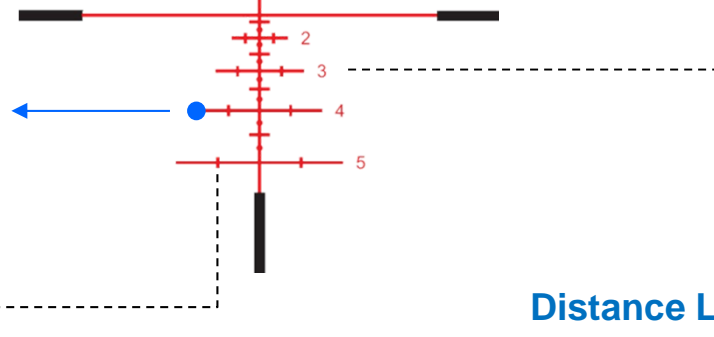
Thin line: 0,5 cm

Thick bar: 2 cm

Opening between bars: 70 cm  
(at 100 m)

Other distances see Rapid Z7.

*Example:*  
Aiming point for 400 m.  
Cross wind from right  
5 m / sec = 18 km / h.



**Markings for cross wind** compensation.  
Wind speed 2.5 m / sec and 5 m / sec.

**Distance Lines** for 100 m until 500 m  
with markings in between. Precondition:  
Sighted-in at **100 m** and the correct  
magnification, due to the ammunition

## Victory Varipoint iC: Reticle 0 and 60



We make it visible.

Victory Varipoint reticle 60	1.1 - 4 x 24	1.5 - 6 x 42 2.5 - 10 x 50 3 - 12 x 56
Thin line	3,0	2,0
Thick bar	11	7,5
Opening between bars	210	140

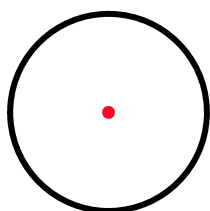
Diameter dot	22 / magnification
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### Victory Varipoint iC

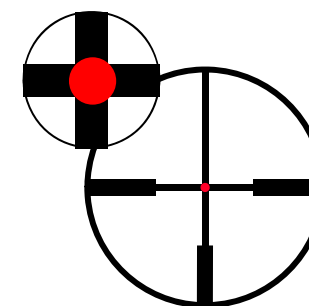
1.1 - 4 x 24 T\* (0 and 60)  
 1.5 - 6 x 42 T\* (60)  
 2.5 - 10 x 50 T\* (60)  
 3 - 12 x 56 T\* (60)

Lines in first image plane,  
 red dot in second image plane

*Subtensions in cm at 100 m*



**Absehen 0**  
 (only 1.1 - 4 x 24)



**Absehen 60**

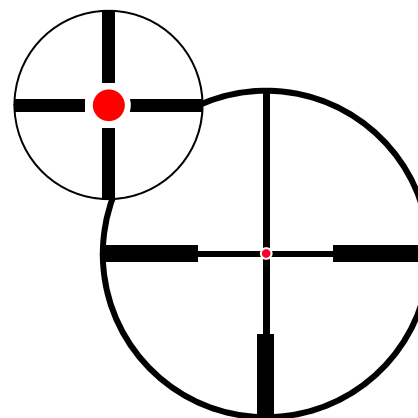
## Classic Diavari: Reticle 60



We make it visible.

Classic reticle 60	For all magnifications
Diameter dot	3.0
Thin line	0.5
Thick bar	2
Opening between bars	70

*Subtensions in cm at 100 m*



### Classic

**2.5 - 10 x 50**  
**3 - 12 x 56**

Reticle in first  
image plane



## Duralyt: Reticle 60

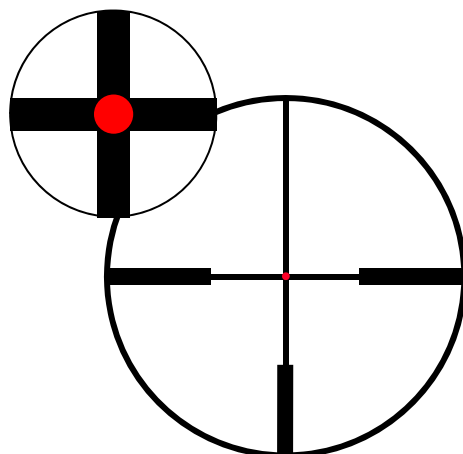


We make it visible.

Duralyt reticle 60	1,2 x	1,5 x	2 x	3 x	5 x	8 x	10 x	12 x
Diameter dot *)	8,0	6,4	4,8	3,2	1,9	1,2	0,96	0,80
Thin line	8,0	6,4	4,8	3,2	1,9	1,2	0,96	0,80
Thick bar	35	28	21	14	8,4	5,3	4,2	3,5
Opening between bars	700	560	420	280	168	105	84	70

\*) Diameter dot = 9.6 cm / magnification

*Subtensions in cm at 100 m*



### Duralyt

1.2 - 5 x 36

2 - 8 x 42

3 - 12 x 50

Reticle in second  
image plane





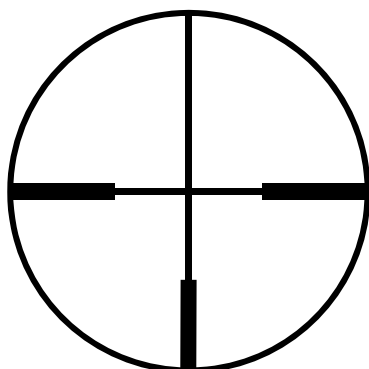
## Duralyt: Reticle 6



We make it visible.

Duralyt reticle 6	1,2 x	1,5 x	2 x	3 x	5 x	8 x	10 x	12 x
Thin line	5,0	4,0	3,0	2,0	1,2	0,8	0,60	0,50
Thick bar	38	30	23	15	9,0	5,6	4,5	3,75
Opening between bars	700	560	420	280	168	105	84	70

*Subtensions in cm at 100 m*



### Duralyt

**1.2 - 5 x 36**

**2 - 8 x 42**

**3 - 12 x 50**

Reticle in second  
image plane



## Dot Diameter by Comparison



We make it visible.

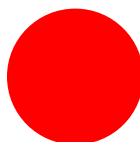
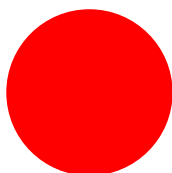


Victory Varipoint iC:  
22 cm / Magnification

Victory FL Diavari:  
18 cm / Magnification

Duralyt:  
9,6 cm / Magnification

Victory HT:  
6,6 cm / Magnification



*Diameter in cm @ 100 m*