



**Zenith Flex<sup>®</sup>**  
AAA ENDOVASCULAR GRAFT

**Transcend: Precision**

## Planning and Sizing

(includes Spiral-Z™ AAA Iliac Leg  
and Z-Trak® Introduction System)

# Planning and Sizing

Obtain the recommended CT and angiography.

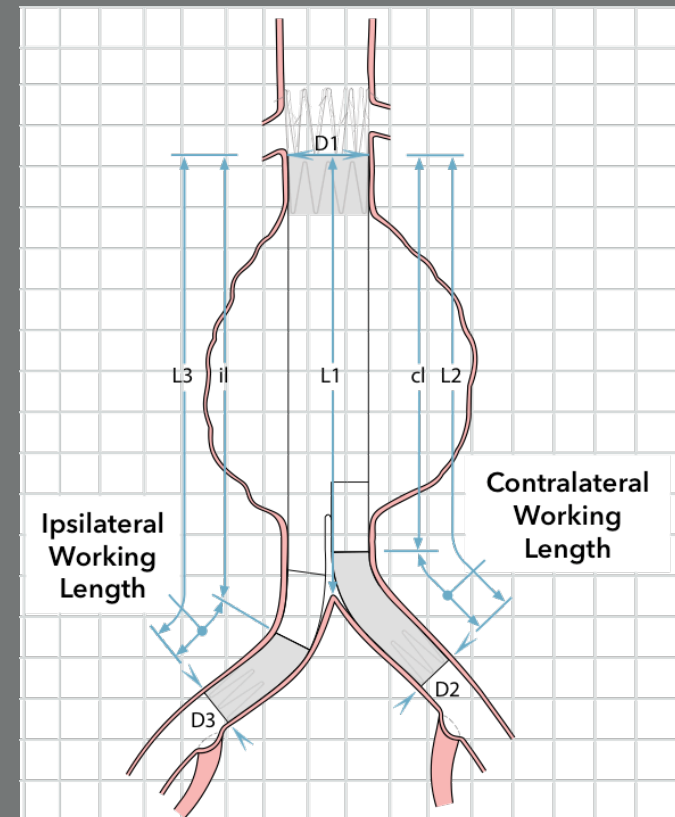
Follow these five recommended steps:

1. Select the side for main body introduction and fixation sites.
2. Obtain and note anatomical measurements on the worksheet.
3. Select the main body.
4. Select the contralateral iliac leg.
5. Select the ipsilateral iliac leg.

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# Measurements Needed

- Three diameters
  - D1, D2, D3
- Three lengths
  - L1, L2, L3



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# Diameter Measurements

**D1, D2, D3:** Proximal neck and common iliac diameters from axial CT images should be measured from outer wall to outer wall, using shortest axis.

outer wall to outer wall

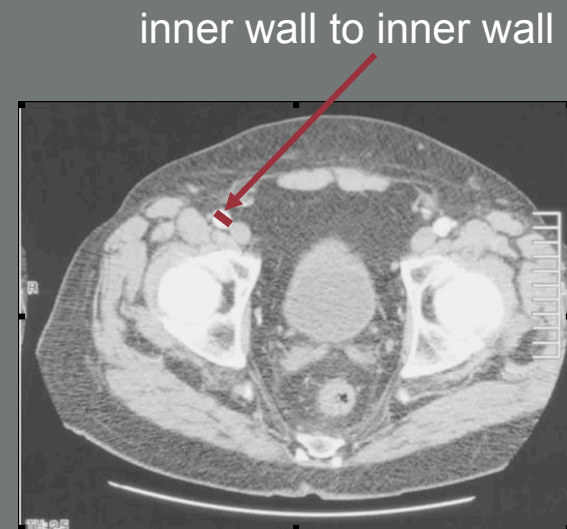


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# Diameter Measurements

**EI:** External iliac diameters from axial CT images should be measured from inner wall to inner wall to assure delivery system access. Vessel should be compatible with delivery systems that are the profile of a 16-22 Fr introducer sheath.



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# Diameter Oversizing

Diameters for components are oversized.

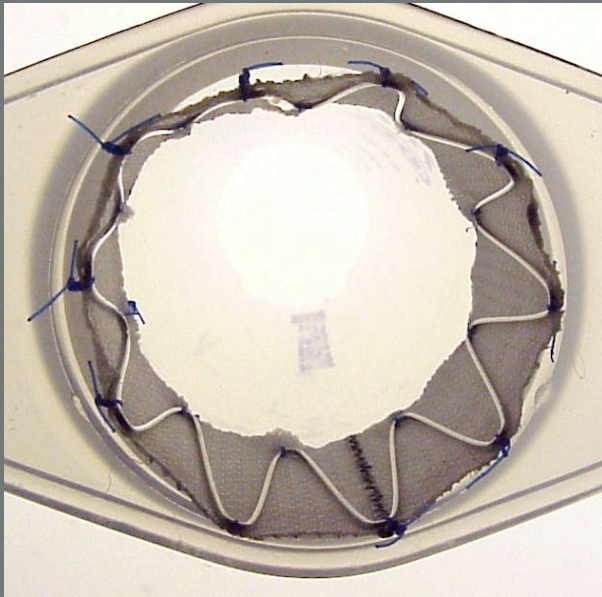
- Main body diameters are generally oversized 3-4 mm.
- Iliac leg diameters are generally oversized 1-2 mm.

Use the sizing tables on the planning and sizing worksheet to select components with proper oversizing.

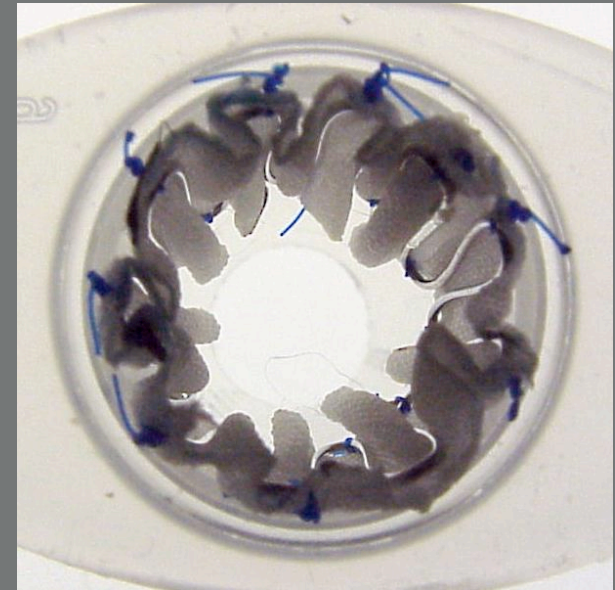
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# Diameter Oversizing

Undersizing



Too much oversizing



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# Overlap

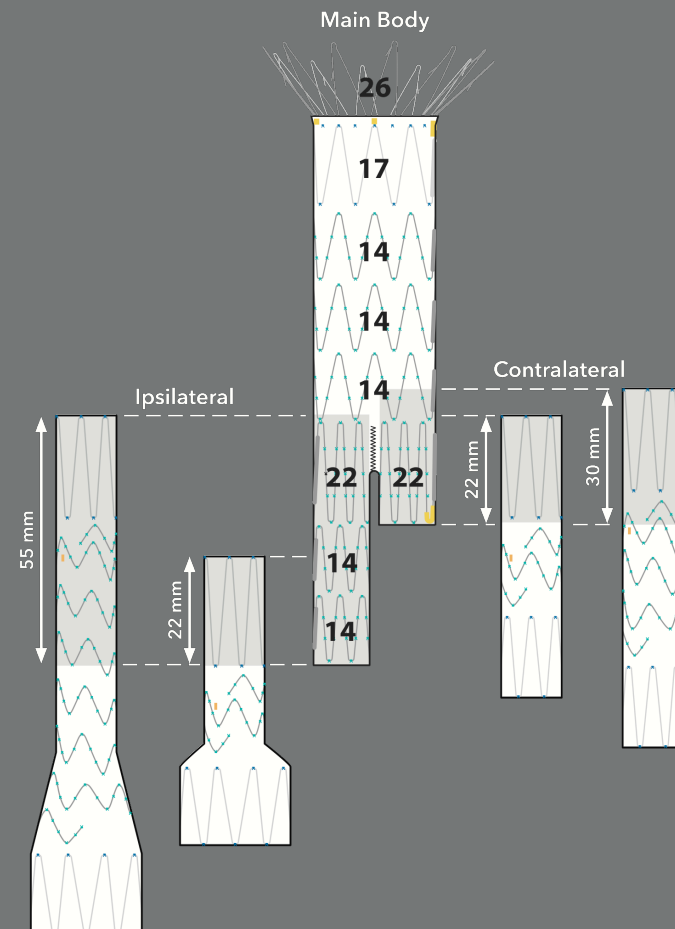
## Contralateral

- 22 mm – 30 mm

Note: Maximum contralateral overlap denoted by radiopaque marker band.

## Ipsilateral

- 22 mm – 30 mm (39 mm lengths)
- 22 mm – 55 mm (other lengths)



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# Lengths

Use CT scan and/or angiography with calibrated catheter.

Do not oversize lengths!

- Use actual lengths.
- If necessary, select shorter graft length.

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# Step 1

- Select the side for main body introduction and fixation sites.
- Generally, place the main body through the side that has the best access vessel.
- Factors to consider (as per intended use in IFU):
  - Iliac tortuosity
  - Vessel diameter (EI)
  - Angulation of a distal neck
  - Aneurysmal sac orientation
  - Mural thrombus within the aneurysm
  - Iliofemoral disease (e.g., stenosis, calcification)
  - Iliac length (short iliac contralateral)
  - Iliac aneurysm (ipsilateral)

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# Zenith Worksheet

## **Anatomical Measurements**

### Main Body Introduction Site

- Right iliac      External iliac (EI) measurement \_\_\_\_\_mm
- Left iliac      External iliac (EI) measurement \_\_\_\_\_mm



# Step 2

Obtain anatomical measurements.

- D1: Largest aortic neck diameter throughout 15 mm neck length
- D2: Largest iliac diameter throughout contralateral distal fixation site
- D3: Largest iliac diameter throughout ipsilateral distal fixation site
- L1: Lowest renal artery to aortic bifurcation, including lateral deviation
- L2: Lowest renal artery to contralateral distal fixation site, including lateral deviation
- L3: Lowest renal artery to ipsilateral distal fixation site, including lateral deviation

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# Zenith Worksheet

## Table Position

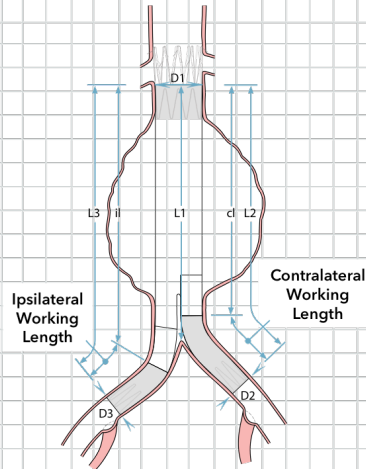
\_\_\_\_\_ Lowest renal artery

15 mm below lowest renal artery,  
check for 10% increase in diameter.

\_\_\_\_\_ Aortic bifurcation

\_\_\_\_\_ Origin cl internal iliac

\_\_\_\_\_ Origin il internal iliac



Diameters:

D1  D2  D3

Lengths:

L1  L2  L3

When using CT for length, approximate lateral deviation/tortuosity and add to difference in table position.

If choice of graft diameter or graft length is affected by other considerations, adjust accordingly.

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# Step 3

Select main body.

- From D1, select graft diameter. (Table includes oversizing.)
- From L1, select graft lengths. (Table provides contralateral [cl] and ipsilateral [il] lengths, and includes minimum of 5 mm clearance for cl limb.)
- If choice of graft diameter or graft length is affected by other considerations, adjust accordingly. (See manual.)

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# Zenith Worksheet

## Main Body

### Main Body Diameters

D1 mm	Graft Diameter mm
18-19	22
20-21	24
22	26
23-24	28
25-26	30
27-28	32
29-32	36

### Graft Diameters 22-32

L1 mm	cl Length <sup>1</sup> mm	il Length <sup>2</sup> mm
88-103	82	112
104-118	96	126
119-133	111	141
134-148	125	155
149-163	140	170

### Graft Diameter 36

L1 mm	cl Length <sup>1</sup> mm	il Length <sup>2</sup> mm
101-120	95	125
121-139	113	143
140-158	131	161
159-177	149	179

<sup>1</sup>Main body length on contralateral side

<sup>2</sup>Main body length on ipsilateral side

Main Body Order Number = TFFB -  -  - ZT

Graft Diameter      cl Length/  
Graft Length

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# Step 4

Select contralateral iliac leg.

- From D2, select graft diameter. (Table includes oversizing.)
- L1 – cl length = contralateral working length.
- Using contralateral working length, select graft length.
- Consider stent overlap and a secure fixation site.
- If choice of graft diameter or graft length is affected by other considerations, adjust accordingly.

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# Zenith Worksheet

## Contralateral Spiral-Z™ AAA Iliac Leg

$$\boxed{\text{L2}} \text{ minus } \boxed{\text{cl Length}} = \frac{\quad}{\text{Contralateral Working Length}}$$

### Contralateral Leg (ZSLE) Diameters

D2 mm	Graft Diameter mm
≤ 8	9
9	11
10-12	13
13-15	16
16-18	20
19-20	24

### Contralateral Leg (ZSLE) Lengths

Contralateral Working Length mm	Graft Length mm	Recommended Overlap mm
27-43	39 <sup>3</sup>	22-30
44-60	56	22-30
61-77	74	22-30
78-94	90	22-30
95-111	107 <sup>4</sup>	22-30
112-122	122 <sup>4</sup>	22-30
	*	

<sup>3</sup>Assure adequate distal fixation length.

<sup>4</sup>Graft lengths of 107 and 122 mm are available in 9-13 mm diameters only.

Contralateral Leg Order Number = ZSLE -  $\boxed{\text{Graft Diameter}}$  -  $\boxed{\text{Graft Length}}$  - ZT

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# Step 5

Select ipsilateral iliac leg.

- From D3, select graft diameter. (Table includes oversizing.)
- L3 – il length = ipsilateral working length.
- Using ipsilateral working length, select graft length.
- Consider stent overlap and a secure fixation site.
- If choice of graft diameter or graft length is affected by other considerations, adjust accordingly.

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# Zenith Worksheet

## Ipsilateral Spiral-Z AAA Iliac Leg

L3 minus  il Length =  Ipsilateral Working Length

### Ipsilateral Leg (ZSLE) Diameters

D3 mm	Graft Diameter mm
≤ 8	9
9	11
10-12	13
13-15	16
16-18	20
19-20	24

### Ipsilateral Leg (ZSLE) Lengths

Ipsilateral Working Length mm	Graft Length mm	Recommended Overlap mm
20-35 graft diameter 20-24	39	22-30
20-35 graft diameter 9-16	56	22-55
36-42	56	22-30
43-59	74	22-55
60-76	90	22-55
77-93	107 <sup>4</sup>	22-55
94-122	122 <sup>4</sup>	22-55
	**	

<sup>4</sup>Graft lengths of 107 and 122 mm are available in 9-13 mm diameters only.

Ipsilateral Leg Order Number = ZSLE -  Graft Diameter -  Graft Length - ZT

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# Devices to Order

Main Body Order Number = TFFB -  -  - ZT  
Graft Diameter cl Length/  
Graft Length

Contralateral Leg Order Number = ZSLE -  -  - ZT  
Graft Diameter Graft Length

Ipsilateral Leg Order Number = ZSLE -  -  - ZT  
Graft Diameter Graft Length

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Going beyond. That's what it means to Transcend.  
That's the essence of Zenith.