

# Zenith® Fenestrated

AAA ENDOVASCULAR GRAFT

## DEVICE PLANNING AND SIZING

### Step 1: Locate the anatomic positions.

Use the bottom of the celiac axis as the "0" point (reference point).

	Measurement	2D	Centerline	
		Clock Position	Distance from Reference	Inner Aortic Diameter mm
	Bottom of celiac Reference: 0 position		0	
	Middle of SMA			
	Bottom of SMA			
<b>Highest</b>	Middle of renal artery right <input type="checkbox"/> left <input type="checkbox"/>			
<b>Lowest</b>	Middle of renal artery right <input type="checkbox"/> left <input type="checkbox"/>			
	Accessory renal artery right <input type="checkbox"/> left <input type="checkbox"/>			
	Accessory renal artery right <input type="checkbox"/> left <input type="checkbox"/>			
<b>LVR</b>	Bottom of lowest artery			
	Start of aneurysm			
<b>L1</b>	Aortic bifurcation			
<b>L2</b>	Distal iliac fixation site (contralateral)			
<b>L3</b>	Distal iliac fixation site (ipsilateral)			
<b>Access</b>	<input type="checkbox"/> Right external iliac (EI) (Minimum inner diameter from introduction site to aorta)			
	<input type="checkbox"/> Left external iliac (EI) (Minimum inner diameter from introduction site to aorta)			
<b>PE</b>	Edge of proximal graft to bifurcation			

### Step 2: Measure the primary diameters (mm).

	<b>D1</b>	Largest aortic neck diameter along 15 mm sealing zone
	<b>D2</b>	Largest iliac outer diameter through contralateral fixation site
	<b>D3</b>	Largest iliac outer diameter through ipsilateral fixation site
	<b>Dmax</b>	Maximum AAA diameter
		Inner aortic diameter at chosen level

#### Anatomic Measurement Key

- L1** Distance from celiac (reference) to aortic bifurcation
- L2** Distance from celiac (reference) to contralateral iliac fixation site
- L3** Distance from celiac (reference) to ipsilateral iliac fixation site
- LVR** Distance of lowest vessel from celiac (reference)
- PE** Planned distance of proximal edge of graft to aortic bifurcation
- D1** Largest aortic neck diameter along 15 mm sealing zone
- D2** Largest iliac diameter through contralateral fixation site
- D3** Largest iliac diameter through ipsilateral fixation site

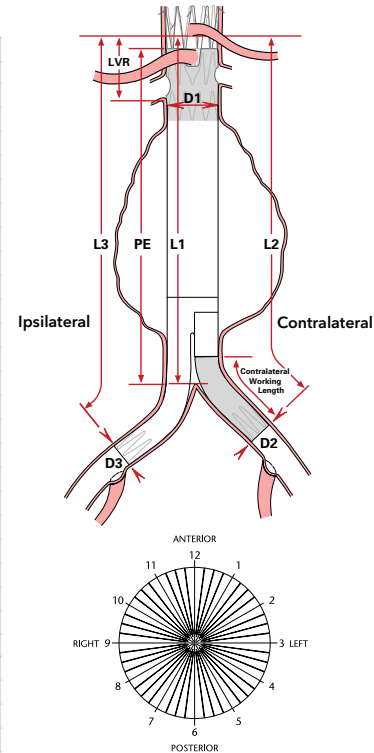
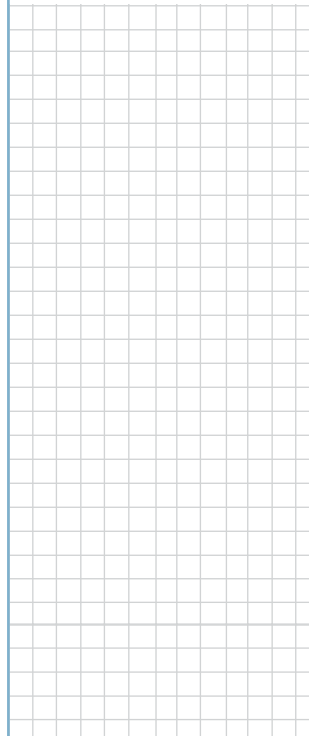
#### Graft Measurement Key

- PBL** Proximal body graft length
- PBD** Proximal body graft diameter
- DBL** Distal body graft length
- DLL** Distal graft ipsilateral limb length
- DD3** Distal graft ipsilateral limb diameter

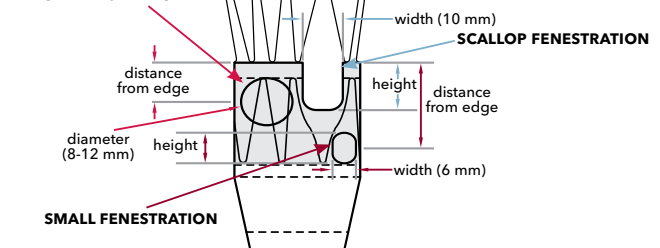
Date: \_\_\_\_\_ Patient ID: \_\_\_\_\_  
 Hospital: \_\_\_\_\_  
 Physician Name: \_\_\_\_\_  
 Physician Phone #: \_\_\_\_\_  
 Physician E-mail: \_\_\_\_\_  
 Physician Signature: \_\_\_\_\_

### Corrected Reference Drawing

(Draw visceral vessels)



#### LARGE FENESTRATION



#### SCALLOP FENESTRATION

width (6 mm)

#### SMALL FENESTRATION

### Step 3: Choose the fenestration(s).

	Vessel	#1	#2
<b>Scallop Fenestration</b> All scallops are 10 mm wide. Height ranges from 6 to 12 mm.	Width	10 mm	10 mm
	Height		
	Clock position		
<b>Large Fenestration</b> Diameters are 8-12 mm. Stent struts may cross large fenestration. The distance from the edge must be ≥ 10 mm.	Diameter		
	Clock position		
	Distance from edge		
<b>Small Fenestration</b> All small fenestrations are 6 mm wide. Heights are either 6 or 8 mm. The distance from the proximal edge must be ≥ 15 mm.	Width	6 mm	6 mm
	Height		
	Clock position		
	Distance from edge		

**Step 4: BL1**—Select the proximal body's length.

- A. Choose one or two internal sealing stents.
- B. Choose the diameter of the graft.
- C. Choose the proximal body's length.

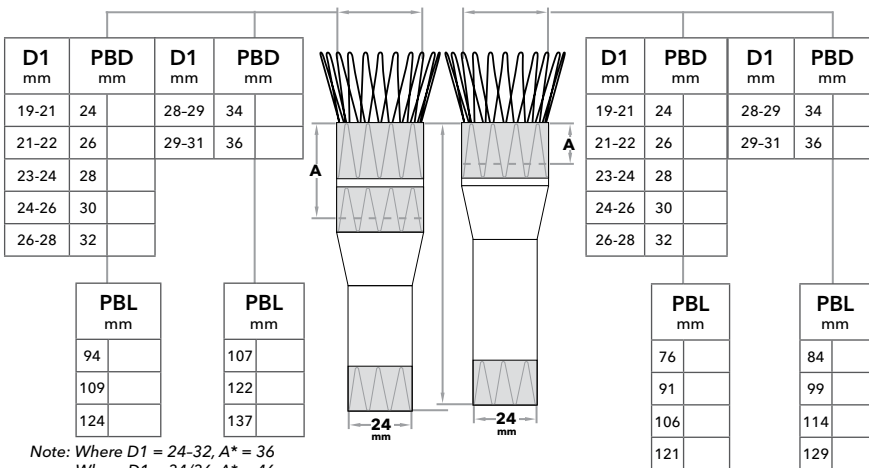
$$\boxed{\phantom{00}} - 20 = \boxed{\phantom{00}}$$

$$PE - 20 =$$

(Default to the shorter device)

**PROXIMAL BODY**

Two Internal Sealing Stents      One Internal Sealing Stent



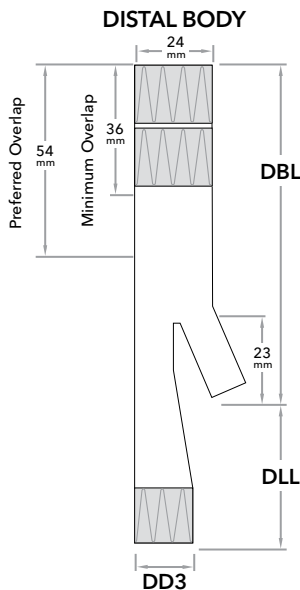
Proximal Main Body Order Number

**ZFEN - P -**  $\boxed{\phantom{00}}$  -  $\boxed{\phantom{00}}$  -  $\boxed{\phantom{00}}$  - **R**

(1) (2) Sealing Stents      PBD      PBL

**Step 5:** Choose the diameter of the distal body ipsilateral limb.

D3 mm	Ipsilateral Limb Diameter (DD3) mm
9-11	12 <input type="checkbox"/>
12-15	16 <input type="checkbox"/>
15-18	20 <input type="checkbox"/>
18-21	24 <input type="checkbox"/>



**Step 6: DLL**—Select the length of the distal graft ipsilateral limb.

$$\boxed{\phantom{00}} - \boxed{\phantom{00}} + 5 = \boxed{\phantom{00}}$$

$$L3 - L1 + 5 =$$

(Use chart and default to longer device)

DLL mm	28	45	62

Note: If DD3 = 24 mm, then DLL 28 mm is not available.

**Step 7: DBL**—Choose the distal body graft's length.

$$\boxed{\phantom{00}} - \boxed{\phantom{00}} - 25 = \boxed{\phantom{00}}$$

$$L1 - LVR - 25 =$$

(Use chart and default to shorter device)

DBL mm	76	91	106	121

Distal Bifurcated Main Body Order Number

**ZFEN - D -**  $\boxed{\phantom{00}}$  -  $\boxed{\phantom{00}}$  -  $\boxed{\phantom{00}}$  - **C**

DD3      DLL      DBL

**Step 8: ZSLE**—Contralateral Spiral-Z<sup>®</sup> AAA Iliac Leg

- A. From D2, select the leg diameter.
- B. Calculate the contralateral working length.

$$\boxed{\phantom{00}} - \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$(L2 - L3) + DLL \text{ (from step 6)} = \text{Contralateral Working Length}$$

- C. Select the graft length, using the contralateral working length.

D2 mm	Graft Diameter mm	Contralateral Leg (ZSLE) Graft Lengths		
		Contralateral Working Length mm	Graft Length mm	Recommended Overlap mm
≤ 8	9	27-43	39 <sup>†</sup>	22-30
9	11	44-60	56	22-30
10-12	13	61-77	74	22-30
13-15	16	78-94	90	22-30
16-18	20	95-111	107 <sup>†</sup>	22-30
19-20	24	112-122	122 <sup>‡</sup>	22-30

<sup>†</sup> Assume adequate distal fixation length.  
<sup>‡</sup> Only available for 9-13 mm diameters.

Contralateral Iliac Leg Order Number

**ZSLE -**  $\boxed{\phantom{00}}$  -  $\boxed{\phantom{00}}$  - **ZT**

Contralateral Graft Diameter      Contralateral Graft Length

Customer Service

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