

PRODUCT CATALOG 2026

ETHNOCARE

OVERLAY TT

OVERLAY TF

UNDERLAY

About Ethnocare

Ethnocare is a Canadian medical technology company dedicated to improving comfort, fit, and quality of life for people living with limb loss. Built around real user needs, Ethnocare develops innovative prosthetic solutions such as the Overlay and next-generation devices designed to improve socket fit, comfort, and everyday performance.



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OVERLAY TT

P 03



Volume fluctuation
Pressure points
Instability

02

OVERLAY TF

P 11

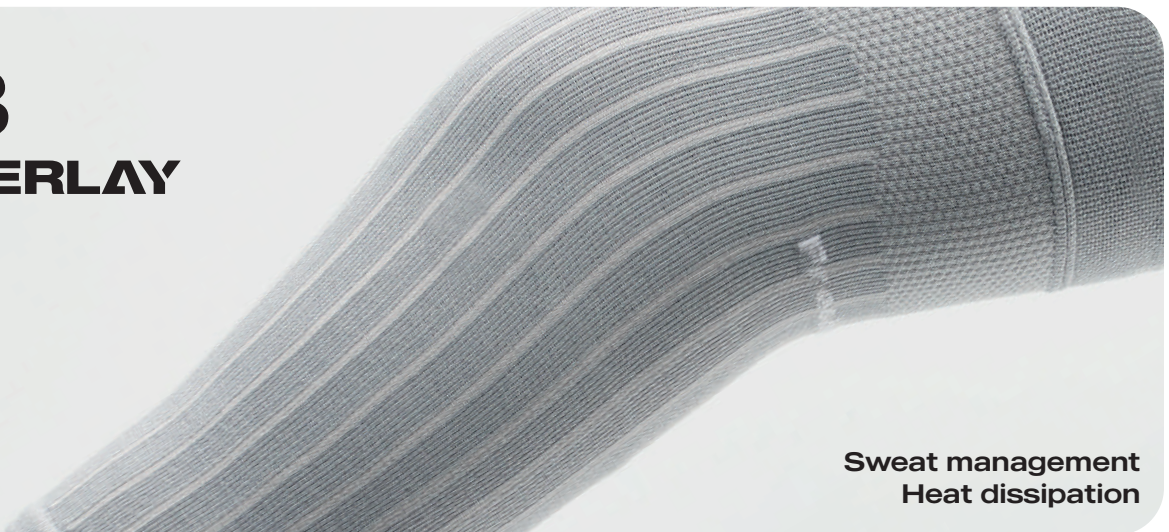


Volume fluctuation
Pressure points
Instability

03

UNDERLAY

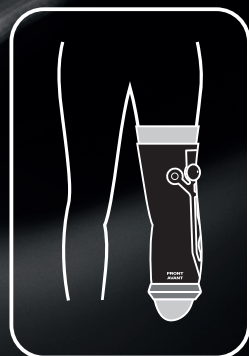
P 19



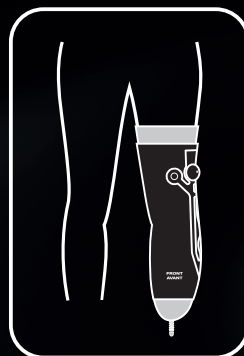
Sweat management
Heat dissipation

TRANSTIBIAL

TTT



**Distal Vacuum
Compatible**



**Distal Locking
Compatible**

OVERLAY TT 2.0

The Overlay TT is an adjustable transtibial prosthetic interface designed to help **manage daily residual limb volume changes**. Worn over the residual limb, it uses an integrated air chamber system to **improve socket fit, comfort, and stability throughout the day**. By helping fill volume fluctuations, the Overlay TT can reduce movement inside the socket and support a **more secure, consistent fit**.



Better personalized adjustability



Increased comfort



Compatible with most suspension liner and socket



Easy and intuitive



Improved mobility

CIRCUMFERENCE	
C (cm)	Circumference code
24 to 29,5	OV 23
29,5 to 36	OV 28
36 to 42	OV 35
LENGTH	
L (cm)	Lenght code
8.5 to 13.5	XSH (Extra Short)
13,5 to 20	SH (Short)
20+	LG (Long)
ORIENTATION	
O	Orientation
The pump is to the right when the product is worn	R
The pump is to the left when the product is worn	L



Sizing chart



[Click here](#)

Reimbursement



[Click here](#)

Independant Study



[Click here](#)

Testimonials



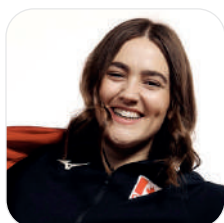
Taylor Sisson, CPO

"It streamlines volume management effectively. It has great potential to reduce the frequency of follow-up and adjustment appointments, which is a major advantage. The Overlay enhances suspension, especially for those with redundant soft tissue."



J.F. Brissette, Clinic director

"By using the Overlay, my BK patients no longer have to carry several "spacer socks" with them on their outings. They benefit from the most optimal volume adjustment, whatever the time of day, and without the build-up of tissue in the popliteal fossa."



Allison Lang

"I love the product so much, it saved me when I desperately needed help with my socket and my stump. I firsthand know how beneficial the Overlay is."



Connie

"It's a complete difference, I feel rejuvenated, comfortable and complete, all of which I haven't felt in such a long time."

It's like a hug from the clouds."



Case study (N=23)

↑ 34%

Comfort :

The comfort provided by the Overlay is significantly better compared to current volume management methods.

↓ 24%

Pain level :

Pain sensation was 24% less pronounced with the Overlay compared to current volume management methods.

↑ 24%

Fit in the socket :

Users reported a 24% improvement in socket fit when using the Overlay compared to current volume management methods.

↑ 52%

Ease of use :

The Overlay was 52% easier to use throughout the day compared to current volume management methods.

Case study



[Click here](#)



Bigger & easier to use release valve

The integrated pump allows for precise adjustments



Uniform fit with the air expansion system

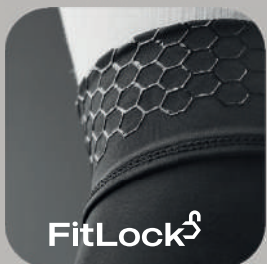


FormFlex

Technology for better usability



AirFlow



Breathable fabric with silicone print design

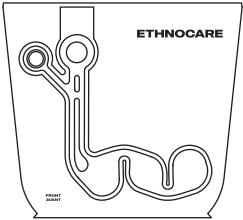
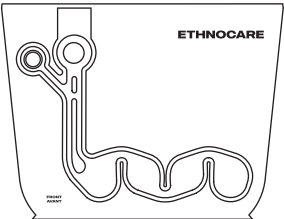
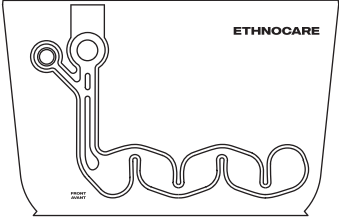
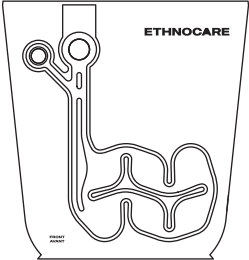
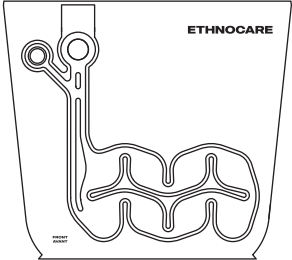
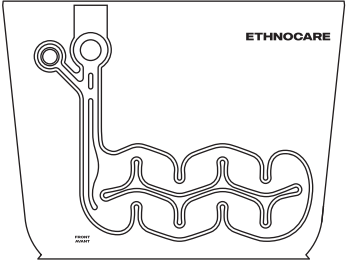
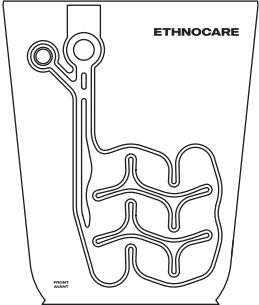
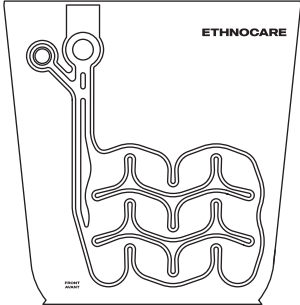
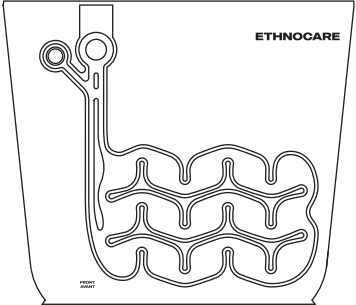
FitLock

Watch the video



[Click here](#)

OVERLAY TT 2.0

LEFT SIDE	CIRCUMFERENCE		
	OV 23	OV 28	OV 35
LENGTH			
XSH			
SH			
LG			

OVERLAY TT 2.0

RIGHT SIDE	CIRCUMFERENCE		
	OV 23	OV 28	OV 35
LENGTH			
XSH			
SH			
LG			

DISTAL SEAL

Compatible with distal seal vacuum systems with or without suspension sleeves

OVERLAY

SIZING CHART

To determine the most suitable size for the patient, the measurement protocol involves identifying the suspension type, measuring the circumference and length at a specific height, and selecting the appropriate product orientation.

Smart Size Guide



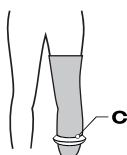
[Click here](#)

STEP 1

Which circumference ?

Circumference (C)

Height (H) = top of the seal



If C is between 24cm and 29.5cm

23

If C is between 29.5cm and 36cm

28

If C is between 36cm and 42cm

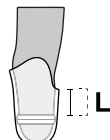
35

STEP 2

Which length ?

Length (L)

L = From top of the seal to popliteal trim line
(Make sure to measure linear dimensions)



You can place a non-permanent mark on the liner to indicate the height of the trim line

If L is between 13.5cm and 20cm

SH

If L is greater than 20 cm

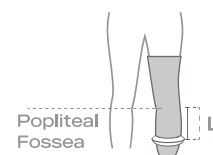
LG

If patient do not have a socket yet

Length (L)

L = From top of seal to popliteal fossa

(Make sure to measure linear dimensions)



STEP 3

Which side ?

Orientation (O)

Pump and valve oriented to the left



L

Orientation is based on user preference

Most users choose the same orientation as the side where the Overlay will be worn

Orientation (O)

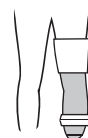
Pump and valve oriented to the right



R

Suspension	Orientation	Length (L)	Circumference (C)	Code
Distal vacuum	Right	13.5-20 cm	24-29.5 cm	OV-23-SH-R
			29.5-36 cm	OV-28-SH-R
			36-42 cm	OV-35-SH-R
		+20 cm	24-29.5 cm	OV-23-LG-R
			29.5-36 cm	OV-28-LG-R
			36-42 cm	OV-35-LG-R
	Left	13.5-20 cm	24-29.5 cm	OV-23-SH-L
			29.5-36 cm	OV-28-SH-L
			36-42 cm	OV-35-SH-L
		+20 cm	24-29.5 cm	OV-23-LG-L
			29.5-36 cm	OV-28-LG-L
			36-42 cm	OV-35-LG-L

Compatibility : Distally positioned seal with or without suspension sleeves



Compatible with :

Össur, Ottobock, Alps, WillowWood liners

And other similar liners

OTHER SYSTEMS

Compatible with distal locking systems, suspension sleeves, cushion liners and lanyards

OVERLAY

SIZING CHART

To determine the most suitable size for the patient, the measurement protocol involves identifying the suspension type, measuring the circumference and length at a specific height, and selecting the appropriate product orientation.

Smart Size Guide



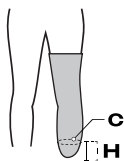
[Click here](#)

STEP 1

Which circumference ?

Circumference (C)

Height (H) = 4 cm from distal end



If C is between 24cm and 29.5cm

23

If C is between 29.5cm and 36cm

28

If C is between 36cm and 42cm

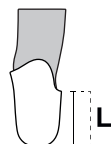
35

STEP 2

Which length ?

Length (L)

L = From **bottom of socket** to popliteal trim line
(Make sure to measure linear dimensions)



If L is between 13.5cm and 20cm

SH

If L is greater than 20cm

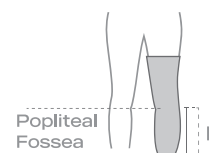
LG

If patient do not have a socket yet

Length (L)

L = From end of liner to popliteal fossa

(Make sure to measure linear dimensions)



STEP 3

Which side ?

Orientation (O)

Pump and valve oriented to the left



L

Orientation is based on user preference

Most users choose the same orientation as the side where the Overlay will be worn

Orientation (O)

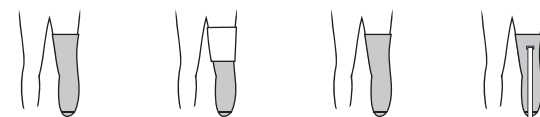
Pump and valve oriented to the right



R

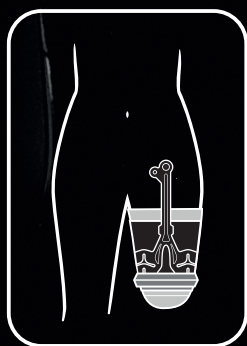
Suspension	Orientation	Length (L)	Circumference (C)	Code
Distal locking Suspension sleeve Cushion Lanyards	Right	13.5-20 cm	24-29.5 cm	OV-23-SH-R
			29.5-36 cm	OV-28-SH-R
			36-42 cm	OV-35-SH-R
		+20 cm	24-29.5 cm	OV-23-LG-R
			29.5-36 cm	OV-28-LG-R
			36-42 cm	OV-35-LG-R
	Left	13.5-20 cm	24-29.5 cm	OV-23-SH-L
			29.5-36 cm	OV-28-SH-L
			36-42 cm	OV-35-SH-L
		+20 cm	24-29.5 cm	OV-23-LG-L
			29.5-36 cm	OV-28-LG-L
			36-42 cm	OV-35-LG-L

Compatibility :

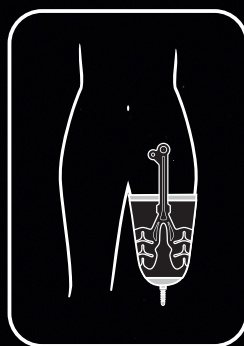


Distal pin Suspension sleeve Cushion Lanyard

TRANSFEMORAL TFF



**Distal Vacuum
Compatible**



**Distal Locking
Compatible**

OVERLAY TF

The Overlay TF is an adjustable transfemoral prosthetic interface designed to **accommodate daily residual limb volume changes** and improve socket fit throughout the day. Using an integrated air chamber system, it **enhances comfort, stability, and suspension** by filling gaps caused by volume fluctuation, supporting a more **secure and consistent fit**.



Better personalized adjustability



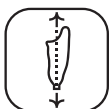
Increased comfort



Compatible with most suspension liner and socket



Easy and intuitive



Improved mobility



PIN VERSION		LENGTH		CIRCUMFERENCE	
Description	Code	L (cm)	Code	C (cm)	Circumference code
The Overlay is tapered and sits lower on the residual limb	PIN	19 to 24	SH	32 to 36	OVTF 32
				36 to 40	OVTF 38
		24 to 32	LG	40 to 44.5	OVTF 40
				44.5 to 48	OVTF 44
		32+	XL	48 to 52	OVTF 48
				52 to 62	OVTF 52
VAC VERSION		LENGTH		CIRCUMFERENCE	
Description	Code	L (cm)	Code	C (cm)	Circumference code
The Overlay is tapered and sits lower on the residual limb	VAC	20 to 34	SH	32 to 38	OVTF 32
				38 to 42	OVTF 38
				42 to 47	OVTF 40
				47 to 50	OVTF 44
		34+	LG	50 to 54	OVTF 48
				54 to 62	OVTF 52

Sizing chart



[Click here](#)

Reimbursement



[Click here](#)

Independent Study



[Click here](#)

Testimonials



J.F. Brissette, Clinic director

"Thanks to the Overlay TF, I was able to successfully address the issues of space and voids inside patients' sockets and also improve the seal in vacuum suspension.

Two problems solved with one solution."



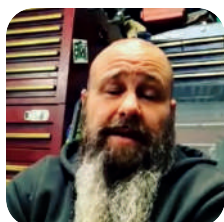
François Routhier

"I use the Overlay every day, and the comfort of the product is undeniable. I no longer experience irritations or pressure sores caused by my prosthetic socket. This has significantly improved my quality of life as an amputee."



Elmer

"The product works really well. I wish I had something like this sooner with some of my older sockets that had a gap. I find it really useful when I've been walking for a while and I start to really fall into my socket. Adding this fills in the spaces."



Mark Flora

"This product is a game changer for amputees. Since using the product and only being 10 months since amputation it has helped me tremendously to get confidence with my prosthetic."





Silicone print design to insure a snug fit.



Integrated pump for precise adjustments



Increase stability & comfort with the air expansion system



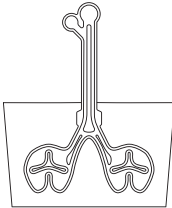
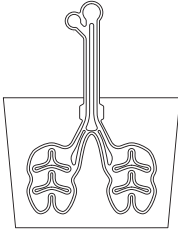
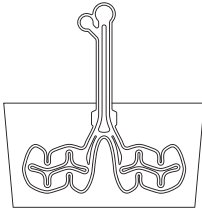
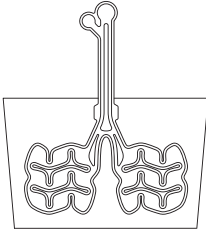
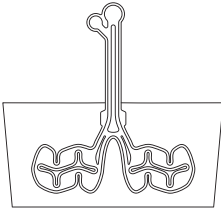
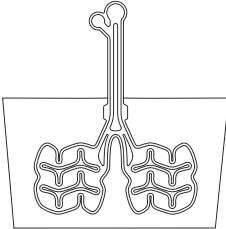
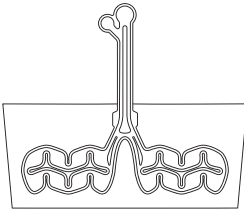
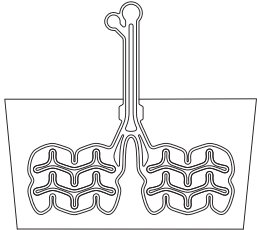
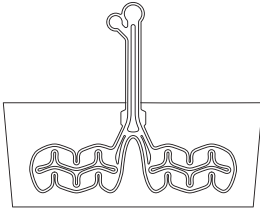
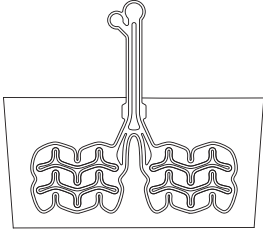
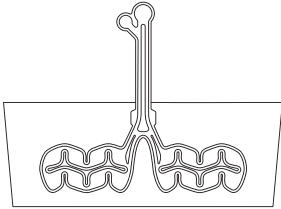
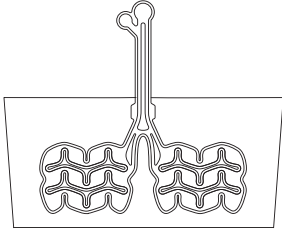
Breathable & stretchable fabric

Watch the video



[Click here](#)

OVERLAY TF

VAC	LENGHT	
	SH	LG
SIZE		
32		
38		
40		
44		
48		
52		

OVERLAY TF

PIN	LENGHT		
	XSH	SH	LG
SIZE			
32			
38			
40			
44			
48			
52			

PIN

Compatible with distal locking systems, cushion liners (non-locking), and lanyard suspensions.

OVERLAY TF SIZING CHART

To determine the correct size, begin by identifying the suspension type, then measure the limb's length and circumference at a specific height.

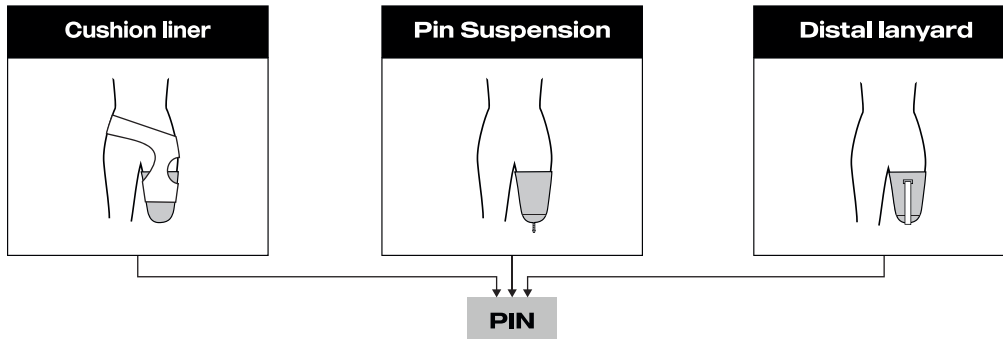
Smart Size Guide



[Click here](#)

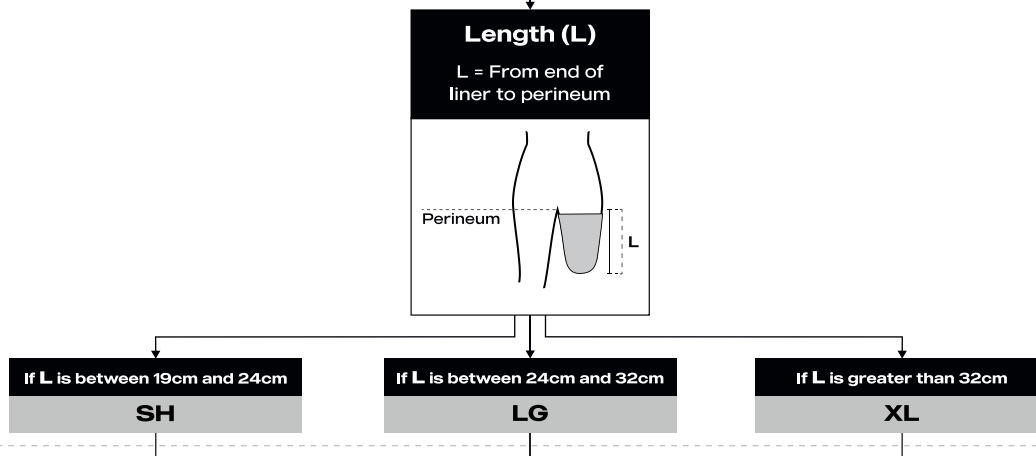
STEP 1

Which suspension ?



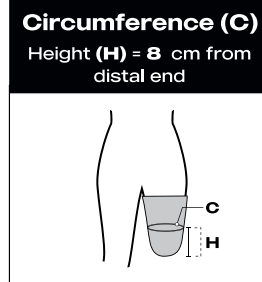
STEP 2

Which length ?



STEP 3

Which size ?



Refer to the chart for the product code based on measured circumference at **8 cm from distal end**.

Suspension	Length (L)	Circumference (C)	Code
Distal Locking	19-24 cm	32-36 cm	OVTF-32-SH-PIN
		36-40 cm	OVTF-38-SH-PIN
		40-44.5 cm	OVTF-40-SH-PIN
		44.5-48 cm	OVTF-44-SH-PIN
		48-52 cm	OVTF-48-SH-PIN
		52-62 cm	OVTF-52-SH-PIN
Distal lanyard	24-32 cm	32-36 cm	OVTF-32-LG-PIN
		36-40 cm	OVTF-38-LG-PIN
		40-44.5 cm	OVTF-40-LG-PIN
		44.5-48 cm	OVTF-44-LG-PIN
		48-52 cm	OVTF-48-LG-PIN
		52-62 cm	OVTF-52-LG-PIN
Cushion liner			

Suspension	Length (L)	Circumference (C)	Code
Distal Locking	+32 cm	32-36 cm	OVTF-32-XL-PIN
		36-40 cm	OVTF-38-XL-PIN
Distal lanyard		40-44.5 cm	OVTF-40-XL-PIN
Cushion liner		44.5-48 cm	OVTF-44-XL-PIN
		48-52 cm	OVTF-48-XL-PIN
		52-62 cm	OVTF-52-XL-PIN

VAC

Compatible with vacuum systems using a distally positioned seal

OVERLAY TF

SIZING CHART

To determine the correct size, begin by identifying the suspension type, then measure the limb's length and circumference at a specific height.

Smart Size Guide

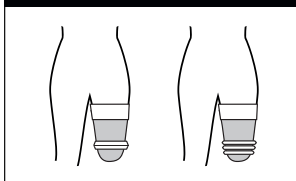


[Click here](#)

STEP 1

Which suspension ?

Vacuum Suspension (Distally Positioned Seal)



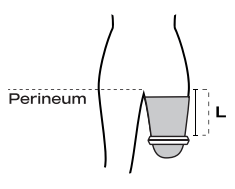
VAC

STEP 2

Which length ?

Length (L)

L = From top of seal to perineum



If L is between 20cm and 24cm

SH

If L is greater than 24cm

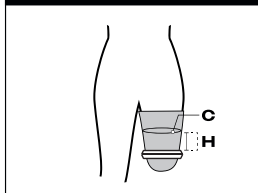
LG

STEP 3

Which size ?

Circumference (C)

Height (H) = 6 cm from top of seal



Refer to the chart for the product code based on measured circumference at **6 cm from top of seal.**

Suspension	Length (L)	Circumference (C)	Code
Vacuum Suspension (Distally Positioned Seal)	20-24cm	32-38 cm	OVTF-32-SH-VAC
		38-42 cm	OVTF-38-SH-VAC
		42-47 cm	OVTF-40-SH-VAC
		47-50 cm	OVTF-44-SH-VAC
		50-54 cm	OVTF-48-SH-VAC
		54-62 cm	OVTF-52-SH-VAC
	+24 cm	32-38 cm	OVTF-32-LG-VAC
		38-42 cm	OVTF-38-LG-VAC
		42-47 cm	OVTF-40-LG-VAC
		47-50cm	OVTF-44-LG-VAC
		50-54 cm	OVTF-48-LG-VAC
		54-62 cm	OVTF-52-LG-VAC



TRANSFEMORAL

TF

TRANSTIBIAL

TT

UNDERLAY

The Underlay is a **prosthetic interface accessory** designed to provide a soft, comfortable layer between the skin and the prosthetic system. **Developed to enhance everyday comfort**, it helps improve the user experience by offering **added softness, protection**, and breathability within the prosthetic fit.



Moisture
Wicking



Breathable
Mesh



StayFresh
Treatment



StayCool
Treatment

Underlay Closed (1)

If you prefer a more classical design for your underlay you can choose the closed version that sits inside the liner.

Underlay Open (2)

We recommend using the Open version, as it allows the Underlay to extend above the liner and evacuate excess humidity.



CLOSED VERSION		CIRCUMFERENCE		LENGTH	
Description	Code	C (cm)	Circumference code	L (cm)	Lenght code
The underlay sits inside the liner	CLOSED	20 to 25	OV 23	27 to 37	SH
		25 to 30	OV 28	37+	LG
		30 to 42	OV 35		
OPEN VERSION		CIRCUMFERENCE		LENGTH	
Description	Code	C (cm)	Circumference code	L (cm)	Lenght code
The underlay extend above the liner end	OPEN	20 to 25	OV 23	23 to 26	SH
		25 to 30	OV 28	26 to 30	MD
				30 to 33	LG
				33+	XL

Sizing chart



[Click here](#)



STAYFRESH™
POLYGENE FRESHNESS



STAYCOOL
BY POLYGENE

Testimonials



Frédérique Bérubé

"I had the chance to try the underlay. The bottom part works really well and helps with heat/sweat when wearing the sleeve. (It's truly miraculous)."



Ray Lowrie

"The Underlay offers a secure, comfortable fit that effectively manages sweat, heat, and moisture during intense exercise, helping maintain socket stability without causing irritation or discomfort. Compared to other sweat socks I've tried, it significantly reduces issues like slippage, odor, and friction."



Bryan Bowden

"The size feels right, the material's softer, and the bottom hole makes it super easy to slip on, really smart design"



Whendy Ménard

"This product is a game changer for amputees. Since using the product and only being 10 months since amputation it has helped me tremendously to get confidence with my prosthetic."





FreshFlow[®]

The breathable mesh allows humidity to evaporate more easily



STAYFRESH™
POLYGIENE FRESHNESS

Prevents the growth of odor-causing bacteria, keeping your product fresh even in sweat and humidity.



STAYCOOL
BY POLYGIENE

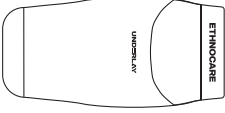
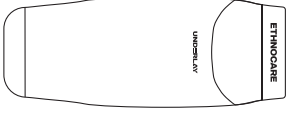
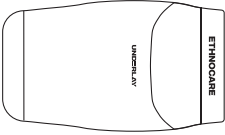
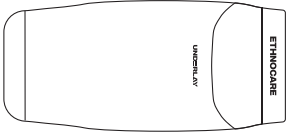
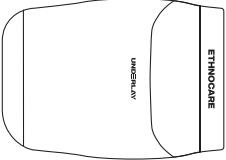
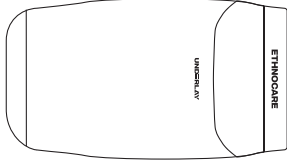
Lower fabric temperature for a refreshing feel. Activates with sweat to keep you cool when it matters most.

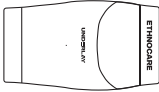
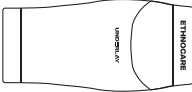
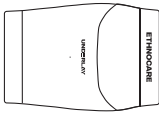
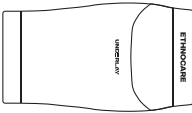
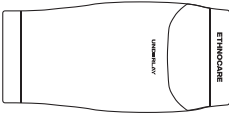
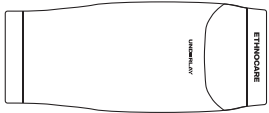
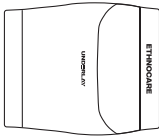
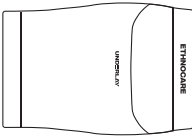
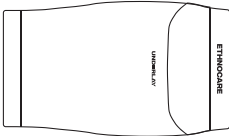
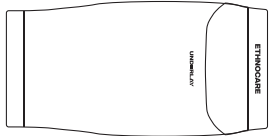


FreshFlow[®]

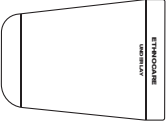
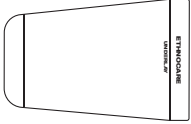
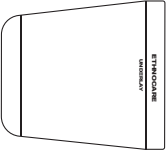
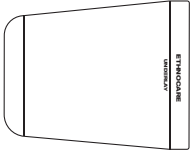
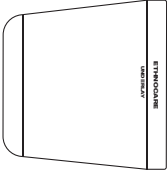
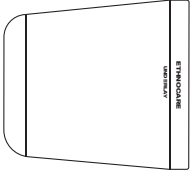
The knit fabric draws moisture up up to the mesh for all-day comfort.

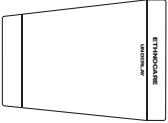
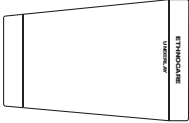
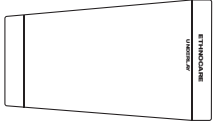
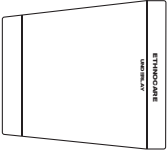
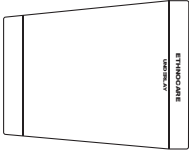
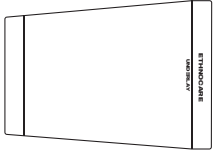
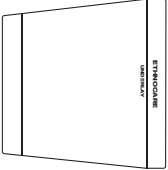
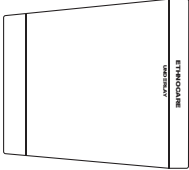
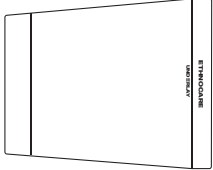
UNDERLAY TT

CLOSED	LENGHT	
	SH	LG
SIZE		
23		
28		
35		

OPEN	LENGHT			
	SH	MD	LG	XL
SIZE				
23				
28				
35				

UNDERLAY TF*

CLOSED	LENGHT	
	SH	LG
SIZE		
32		
40		
48		

OPEN	LENGHT		
	SH	MD	LG
SIZE			
32			
40			
48			

*Coming soon



BK (Transtibial)

UNDERLAY

SIZING GUIDE

To determine the most suitable size for the patient, the measurement protocol consists of measuring the length of the trimmed liner, then the circumference at a specific height.

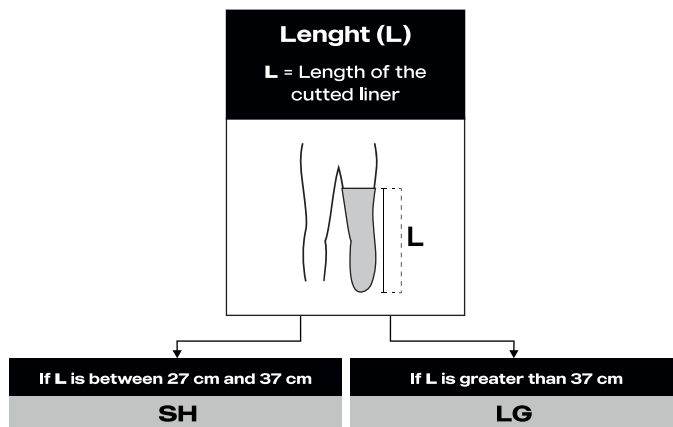
Smart Size Guide



[Click here](#)

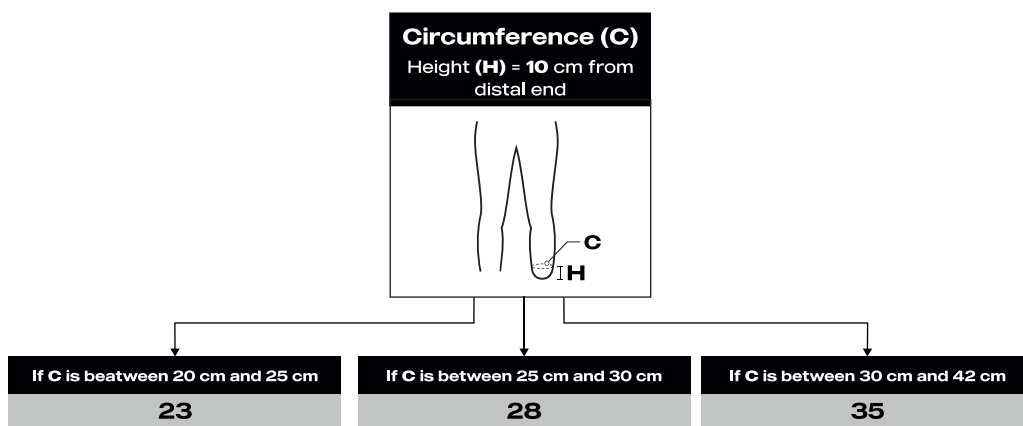
STEP 1

Which length ?



STEP 2

Which size ?



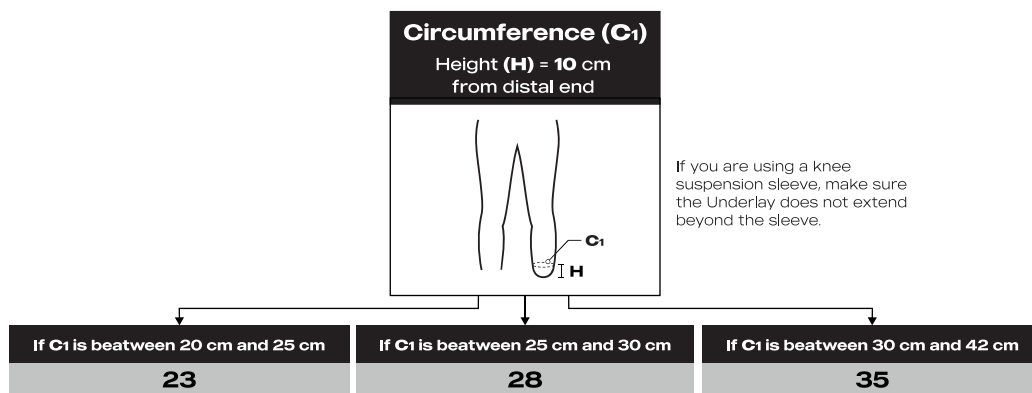
Circumference (C)	Length (L)	Code
20-25 cm	27-37 cm	UDTT-23-SH-C
	+37 cm	UDTT-23-LG-C
25-30 cm	27-37 cm	UDTT-28-SH-C
	+37 cm	UDTT-28-LG-C
30-42 cm	27-37 cm	UDTT-35-SH-C
	+37 cm	UDTT-35-LG-C



To determine the most suitable size for the patient, the measurement protocol consists of recording two circumferences at specific heights: one without a liner and one with a liner. Then measure the length of the trimmed liner.

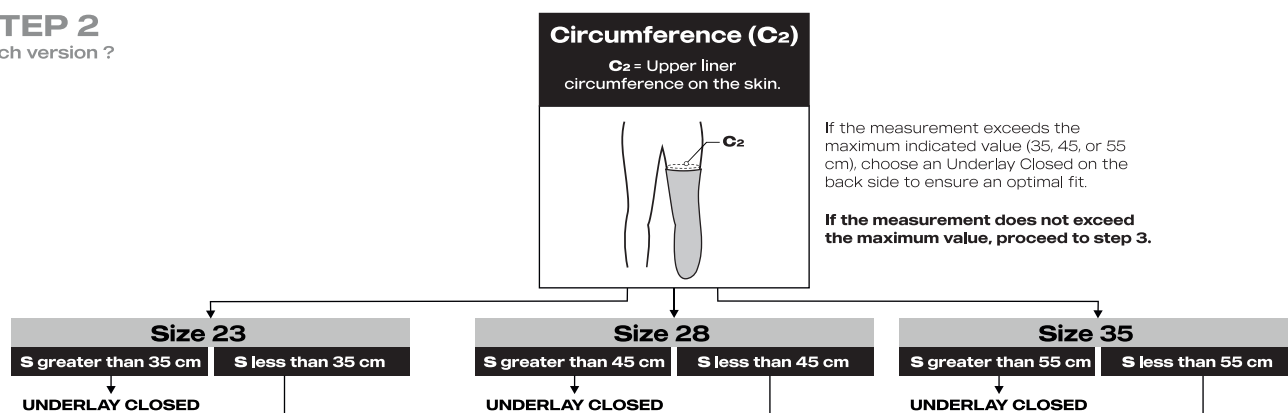
STEP 1

Wich size ?



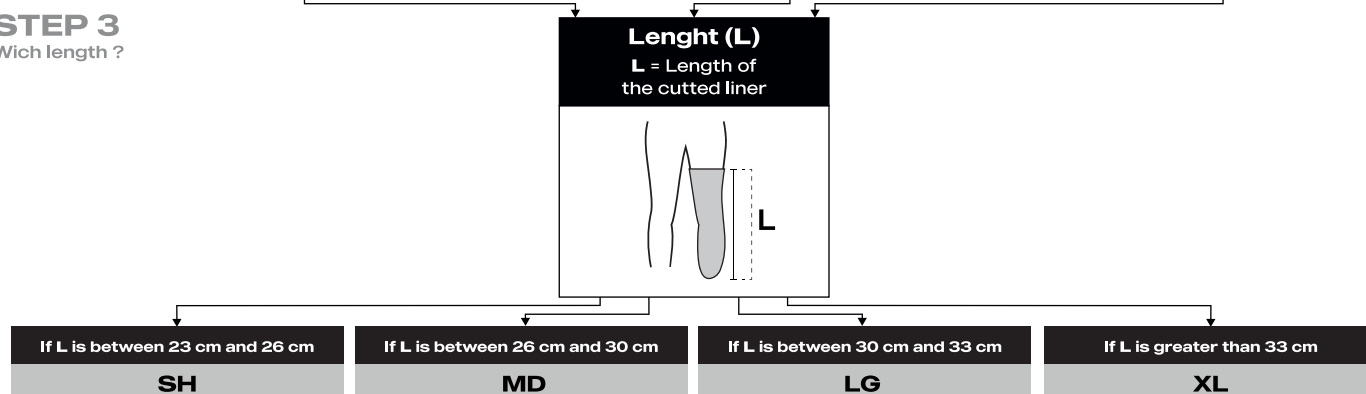
STEP 2

Wich version ?



STEP 3

Wich length ?



Circumference (C ₁)	Length (L)	Code
20-25 cm	23-26 cm	UDTT-23-SH
	26-30 cm	UDTT-23-MD
	30-33 cm	UDTT-23-LG
	33+ cm	UDTT-23-XL
25-30 cm	23-26 cm	UDTT-28-SH
	26-30 cm	UDTT-28-MD
	30-33 cm	UDTT-28-LG
	33+ cm	UDTT-28-XL
30-42 cm	23-26 cm	UDTT-35-SH
	26-30 cm	UDTT-35-MD
	30-33 cm	UDTT-35-LG
	33+ cm	UDTT-35-XL

Technologies

AirFlow⁺

AirFlow+ technology allows easy inflation and deflation of the product, regardless of limb position. Just pump it up and you're ready to go.



FreshFlow⁺

FreshFlow technology channels sweat upward out of the liner into a less dense, breathable mesh where humidity can evaporate, ensuring all-day comfort without heat and humidity concerns.



Technologies

FormFlex[™]

Formflex technology creates a system that is unique to each product size, ensuring consistent residual limb coverage for all types of amputees, along with bi-directional stretch to adequately contour the residual limb for maximum comfort.

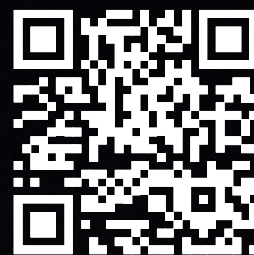


FitLock[™]

Fitlock technology uses a grippy hexagonal silicone network to help the Overlay stay securely in place, regardless of whether the user is a low- or high-activity amputee.



Sizing Tool



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