

ALPHA[®] LINERS

GET BACK TO THE BASICS



WillowWood[®]



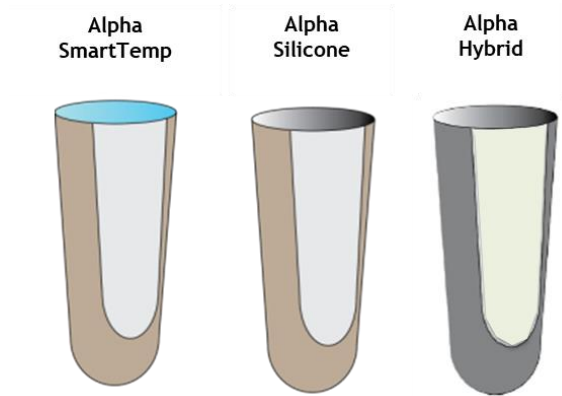
AGENDA

- Alpha Liner Family
- Choosing the Correct Alpha Liner
- Fitting and adjusting the Alpha Liner to a Limb Shape
- Shape Capture
 - Cast
 - Scan
- Modify Model for Initial Socket Fabrication



AGENDA

- Socket Fittings and Delivery of Definitive
- Retrofitting





INTRODUCTION TO WILLOWWOOD

WillowWood

EARLY ALPHA LINERS

- The Alpha Liner was introduced in 1996, with one type of TPE (thermoplastic elastomer) gel
- 23 years later, we have an entire family of technologically advanced liners...



WillowWood

6 cross section profiles in 1 material fabrics



WillowWood



FABRICS

WillowWood

ALPHA LINER FABRICS

- Original
 - Controlled multi-directional stretch
 - Green/Gray
- MAX
 - Buff
 - Reduced multi-directional stretch
 - Reduced elongation properties



WillowWood

ALPHA LINER FABRICS

- Spirit
 - Controlled multi-directional stretch
 - Velcro®-type properties
 - Buff
- Select
 - Gray/Light Gray, Taupe/Light Gray, Taupe
 - Unidirectional stretch
(high circumferential stretch; minimal elongation)



WillowWood

SELECT FABRIC FEATURES

Select Fabric
(Controlled Pistoning)

Select Panel
(Knee Flexion)



WillowWood



INTERFACE MATERIALS

WillowWood

CLASSIC



- High flow helps the Classic Gel adapt to uneven socket pressures
- Low rebound means that the liner will maintain this adapted shape

Alpha Classic®

Alpha Hybrid®

A unique thermoplastic elastomer formula that provides comfort and protection

Skin friendly gel with Mineral Oil

WillowWood

HYBRID

- Moderate flow and rebound characteristics to provide a balance of comfort and durability



Alpha Classic®

Alpha Hybrid®

A thermoplastic elastomer that is a bridge between Alpha Classic Gel and silicone

Durable gel with Mineral Oil and Kevlar

WillowWood

SMARTTEMP TPE



Alpha SmartTemp®

TPE with Phase Change Material (PCM) responds to changing skin temperature

NOT Classic or Hybrid TPE Gel

WillowWood

SILICONE



Alpha Silicone®

A proprietary blend of
silicone, Vitamin E, and
skin conditioners

Platinum cured medical
grade silicone

WillowWood

SMARTTEMP



Alpha SmartTemp®

Alpha Silicone with
Outlast® responds to
changing skin
temperature

Utilizes Phase Change
Materials (PCM)

WillowWood

SUMMARY



Classic

Blend of thermoplastic elastomer (TPE) and mineral oil



Hybrid

A specialized blend of TPE and mineral oil



Silicone

Unique blend of silicone, Vitamin E, and skin conditioners



SmartTemp Silicone

Alpha Silicone with Outlast



SmartTemp TPE

TPE with PCM

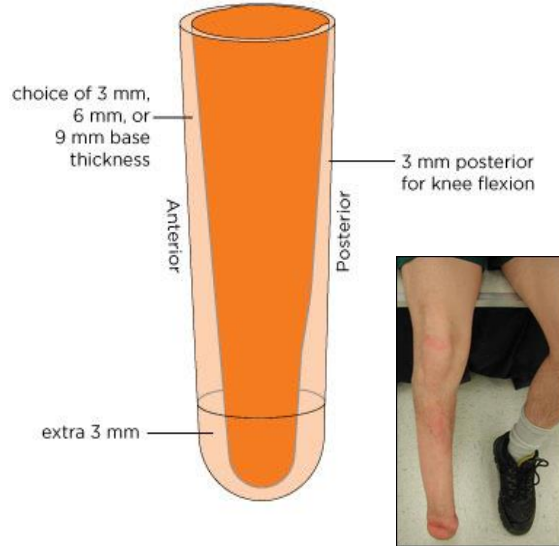


TRANSTIBIAL PROFILES

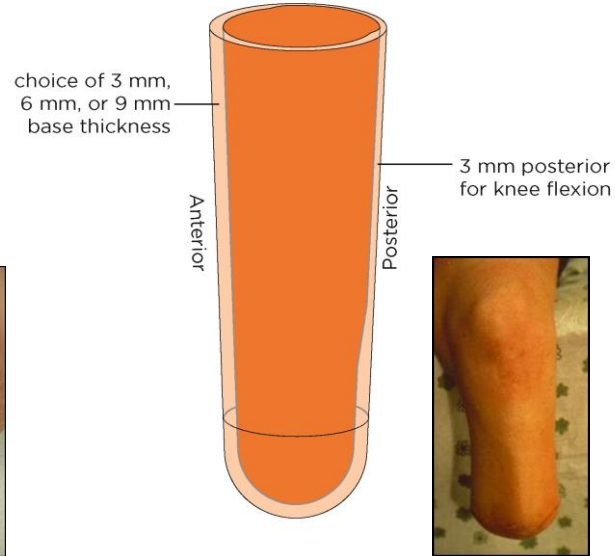
WillowWood

PROFILES

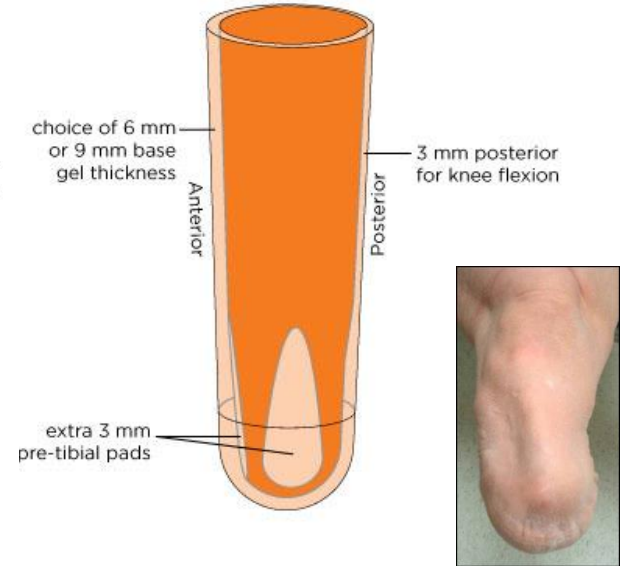
Tapered Liner Profile



Uniform Liner Profile



Contoured Liner Profile

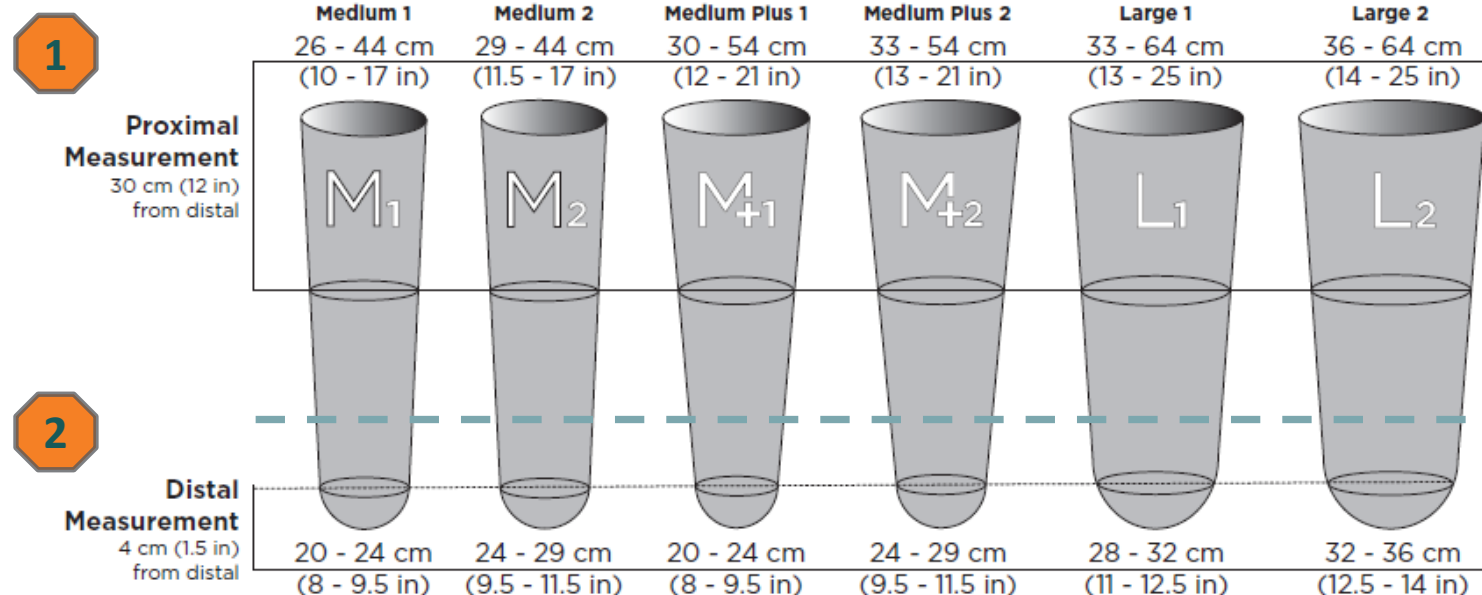


Profiles match the residual limb and your socket shapes

WillowWood

SIZING

- Measurement points





PROGRESSIVE

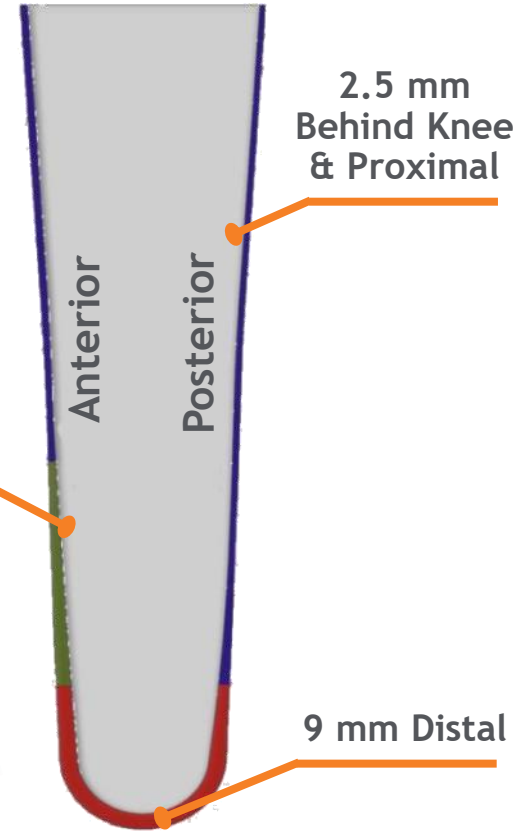
WillowWood

PROGRESSIVE PROFILE

- Hybrid, Silicone, or SmartTemp
- Select Fabric
- Locking or Cushion
- Accordion umbrella



6 mm Tibial Pad



WillowWood

ACCORDION UMBRELLA

- Conforms to the shape of the residual limb



WillowWood

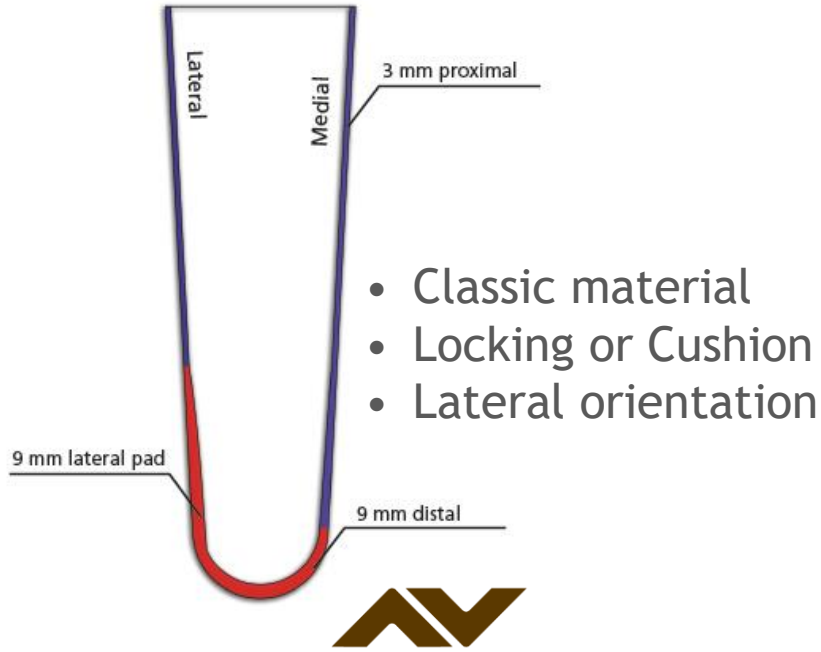


TRANSFEMORAL PROFILES

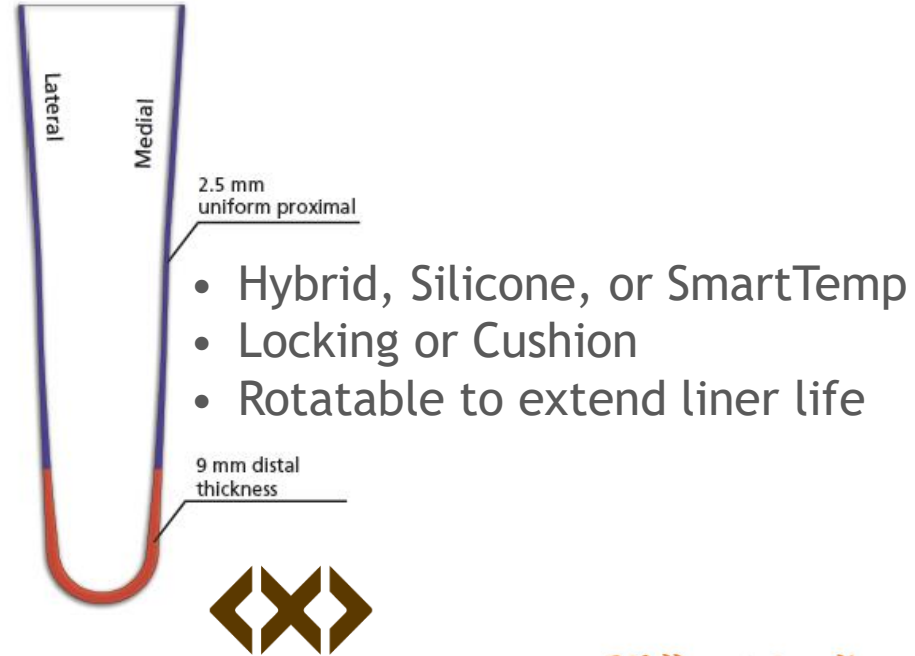
WillowWood

TRANSFEMORAL PROFILES

AK Profile



Symmetrical Profile



ALPHA CLASSIC AK LINER

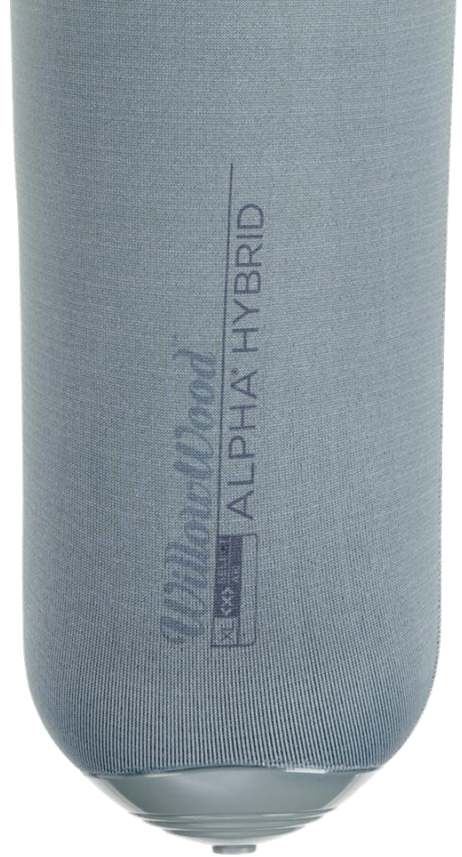
- Designed to optimize comfort for AK amputees
 - Spirit fabric for cushion
 - MAX fabric for locking
 - Standard umbrella
 - Built-in distal-lateral pad
 - 3 mm proximal thickness



WillowWood

HYBRID AK LINERS

- Hybrid TPE gel
- Select fabric
 - One-way stretch fabric to control pistoning
- Symmetrical profile
- Locking and cushion options
- Accordion umbrella on locking version



WillowWood

SILICONE AND SMARTTEMP

- Select fabric
 - One-way stretch to control pistoning
- Symmetrical profile
- Locking and cushion options
- Accordion umbrella on locking version



WillowWood

TRANSFEMORAL LINER SELECTION GUIDE

SmartTemp AK Liner Silicone AK Liner	Silicone	Symmetrical	Select Fabric (Locking & Cushion)
Hybrid AK Liner	Hybrid Gel	Symmetrical	Select Fabric (Locking & Cushion)
Classic AK Liner	Classic Gel	AK Profile	Spirit (Cushion) MAX (Locking)



ALPHA SMARTTEMP

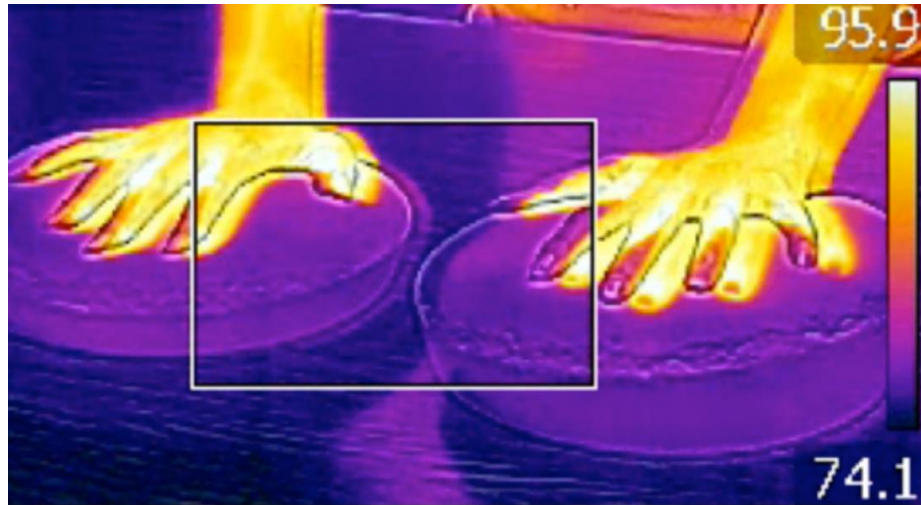
WillowWood

PROACTIVE APPROACH

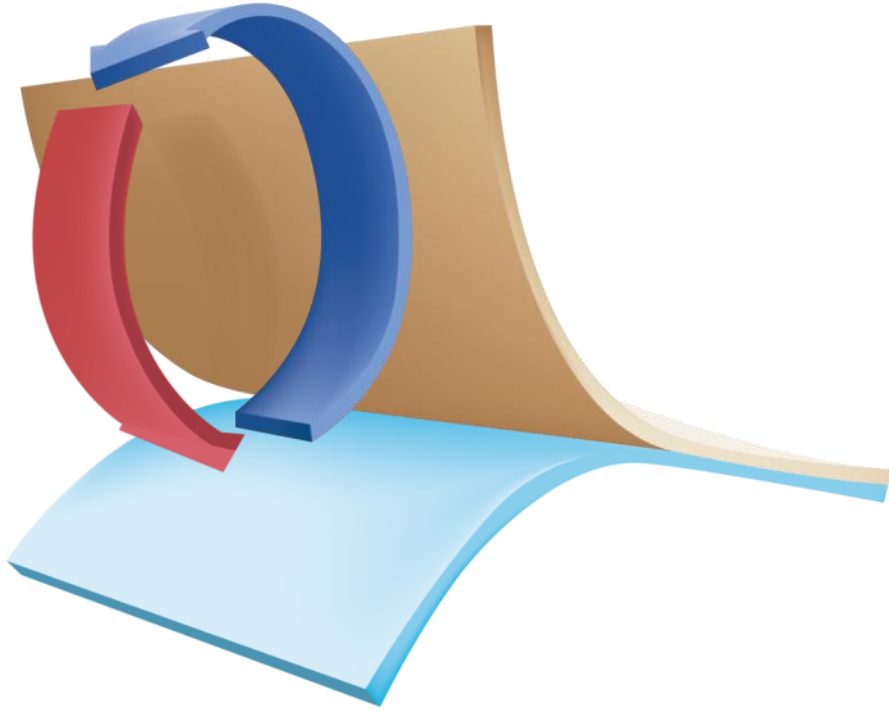


PROACTIVE APPROACH

- Thermal imaging example?



HOW IT WORKS



- Utilizes phase change materials (PCM) that proactively manages sweat by absorbing, storing and releasing heat for optimal thermal comfort
- Not wicking technology
- Does not prevent sweating; it delays the onset of sweat

PERFORMANCE FACTORS

1. Lifestyle/Activities
2. Environment
3. Metabolism



WillowWood

SILICONE/GEL DIFFERENCES

	SmartTemp Silicone	SmartTemp Gel
Softness	Softens as it heats up	Maintains TPE softness as it heats up
Fabricless option?	Yes	No
Formulation	Silicone featuring Outlast® PCM	TPE/PCM blend offering improved performance compared to Silicone/Outlast blend



ALPHA DUO

WillowWood

CONSTRUCTION

Alpha Silicone

- Fabric-free satin finish

Alpha Classic Gel



WillowWood

CLINICIAN BENEFITS

- TPE comfort against the skin
- Silicone exterior
 - Provides durability and stability
 - Fabric-free
 - No need to reflect
 - No lubricants

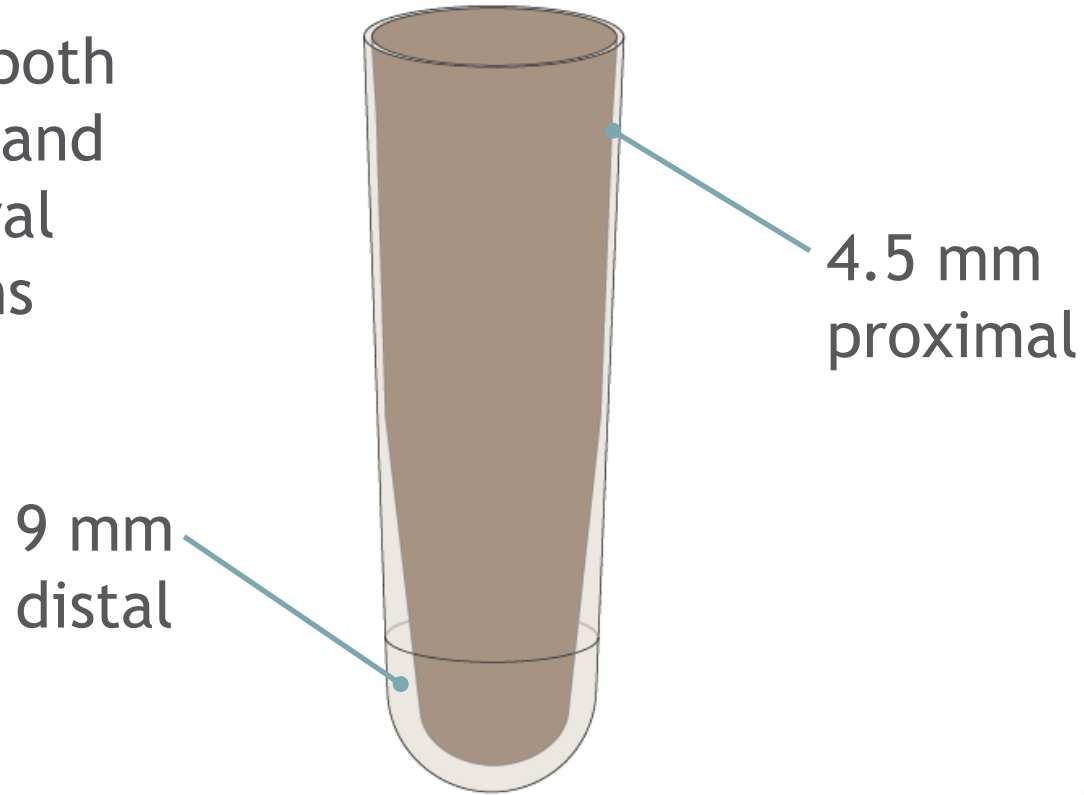


- Recommended for WillowWood One® System
 - Vacuum or suction sockets
- Can be used with any WillowWood suspension sleeve

WillowWood

SYMMETRICAL PROFILE

- For use in both transtibial and transfemoral applications





ALPHA BASIC

WillowWood

ALPHA BASIC

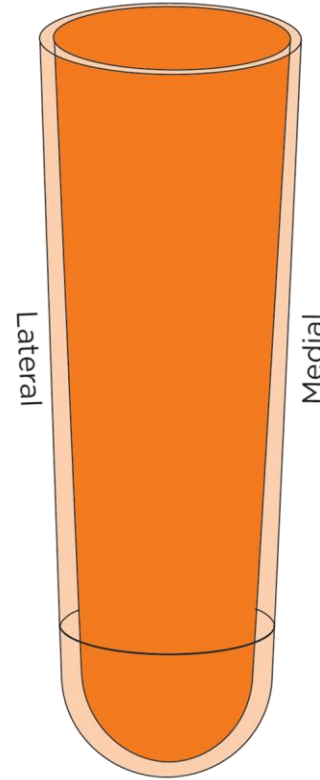
- Low activity patients
- Classic Gel
- Flexible fabric
- 6 mm symmetrical profile
- Cushion or Locking
- Retrofits other common liners
- Features one-way stretch fabric distally to minimize pistoning



WillowWood

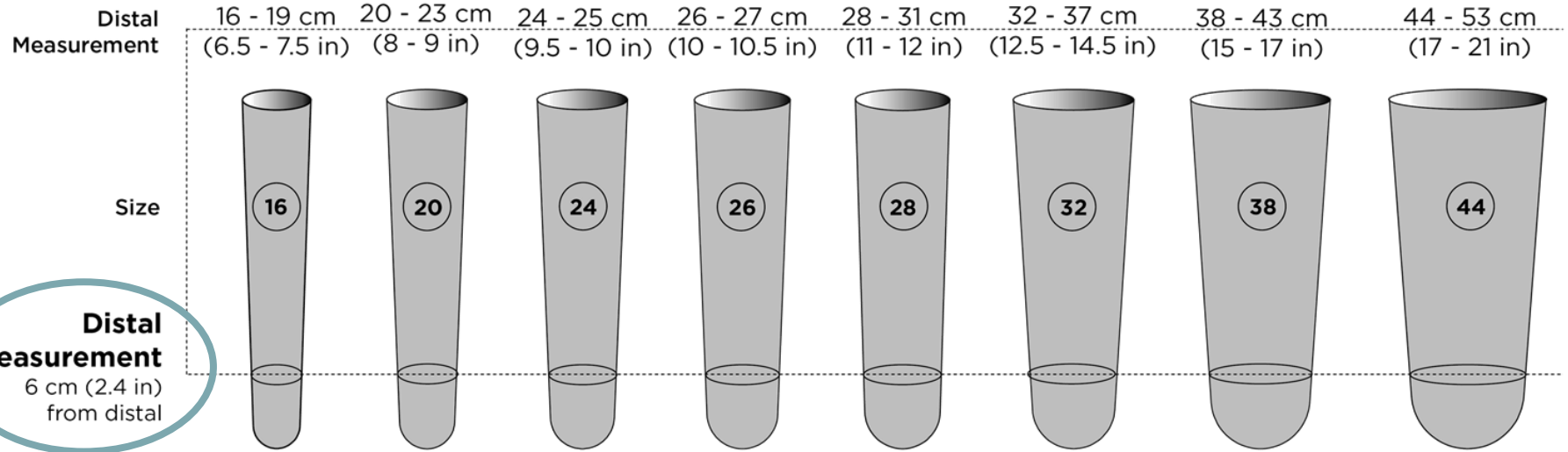
ALPHA BASIC PROFILE

- 6 mm of gel throughout the liner
- Rotatable
 - Extends liner life



WillowWood

ALPHA BASIC SIZING



WillowWood



ACCESSORIES

WillowWood

ADJUSTING THE LINER



Volume
Management
Pads

Alpha
Socket
Pads



Alpha
Gel
Cups



ALPHA DESIGN[®] LINERS

WillowWood

WHAT IS AN ALPHA DESIGN LINER?

- A custom liner profile where the pattern, placement and thickness of the interface material are specific to an individual
- Why use an Alpha DESIGN Liner?
 - For accommodation of residual limb shapes, sizes, and tissue integrity that fall outside the scope of an off-the-shelf (OTS) liner with or without gel cup/pad adjustment
- Transtibial and Transfemoral applications

ALPHA DESIGN LINER INTERFACE MATERIALS

Classic TPE



3 mm through 25 mm
anywhere in the liner

Hybrid



Duo



4 mm through 25 mm
anywhere in the liner

WillowWood

ALPHA DESIGN LINER FABRICS

- Original
 - Green/Gray
 - Buff
 - Brown



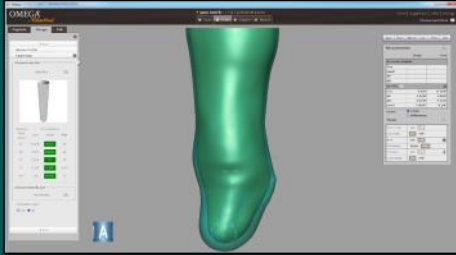
- Spirit
 - Green/Gray
 - Buff
 - Brown

- MAX
 - Buff



- Select
 - Gray
 - Taupe

OPTIONS FOR CREATING A DESIGN LINER



OMEGA

- Gives you the most control over gel thickness and placement



Alpha DESIGN App

- Allows you to scan and order using an iPad



Cast or Scan

- Submit via online order form

SUMMARY

- Alpha Liners have provided comfort and protection for amputees around the world for 23 years
- Suitable for transtibial and transfemoral amputees
- Can be used with a variety of suspension methods
- Can accommodate a wide range of activities and limbs

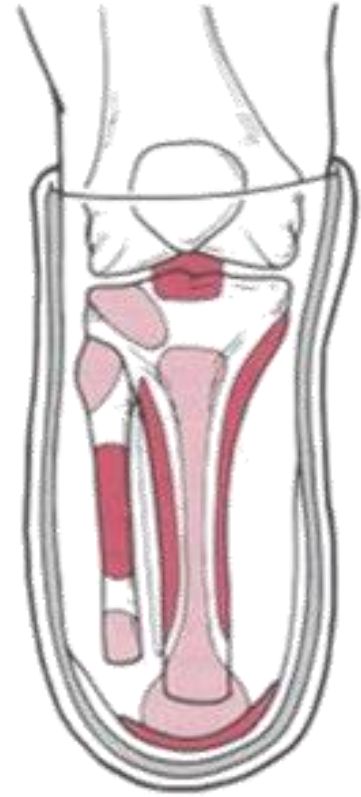


SELECTING A LINER

WillowWood

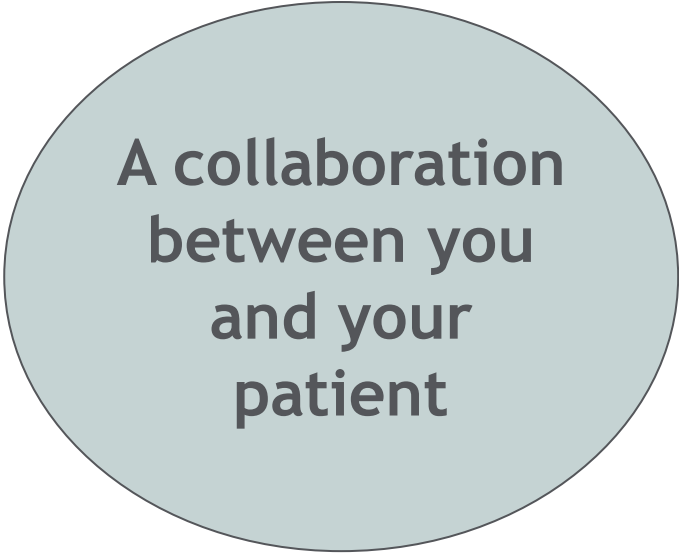
CONSIDERATIONS

- Skin health
 - Perspiration, scars, uneven contours
- Padding and protection
 - How much and where?
- How will the prosthesis be held on?
 - Strap, suction, mechanical pin, elevated vacuum



CONSIDERATIONS

- Limb shape & length
- Overall health
- Lifestyle
- Activities
- Opinion/preference



**A collaboration
between you
and your
patient**



MODIFICATION GUIDE

WillowWood

MODIFICATION GUIDE

Material Thickness	Modification
3 mm	3 - 5 %*
6 mm	5 - 7 %*
9 mm	7 - 9 %*
Progressive	5 - 7 %*
DESIGN Liner	Use base material thickness and refer to above

- Reduce volume circumferentially - maintain shape
- DO NOT reduce length

**Depends on underlying anatomy and tissue coverage on residual limb*



RETROFITTING ALPHA LINERS

WillowWood

BENEFITS OF RETROFITTING

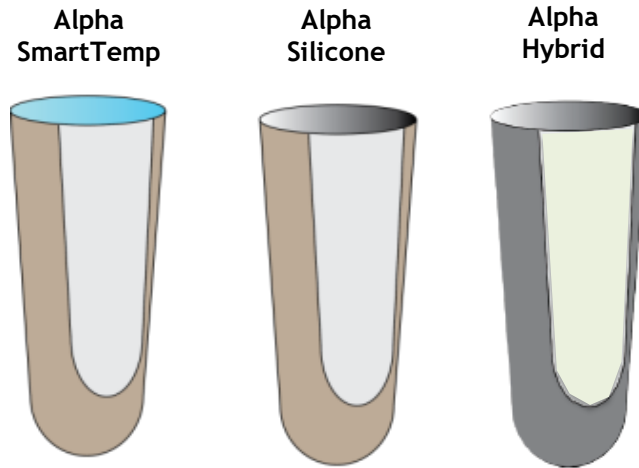
- Create ONE socket for multiple activity purposes
- Transition easily from one material to another
- Allow material technologies to benefit the user without the need for multiple sockets/prostheses
- Create best practice rehabilitation plans

RETROFITTING

WillowWood interface materials may be retrofit with like profiles and umbrella styles.

Requirements:

1. Same Profile
2. Same liner size
3. Same cushion or locking design



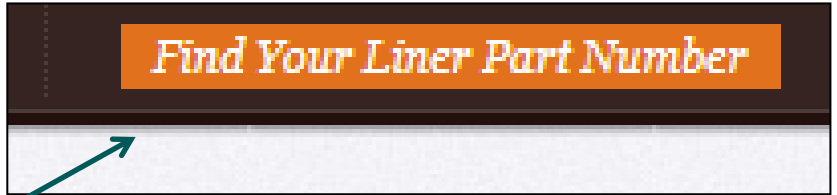
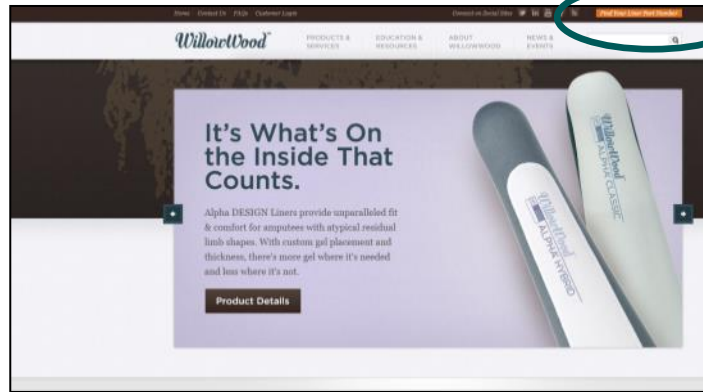


ONLINE RESOURCES

WillowWood

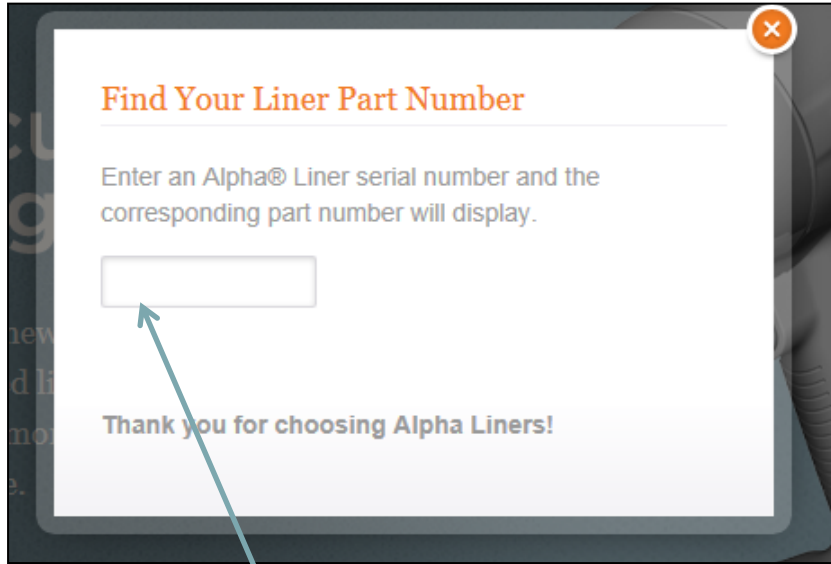
FIND YOUR LINER PART NUMBER

www.willowwoodco.com



WillowWood®

FIND YOUR LINER PART NUMBER



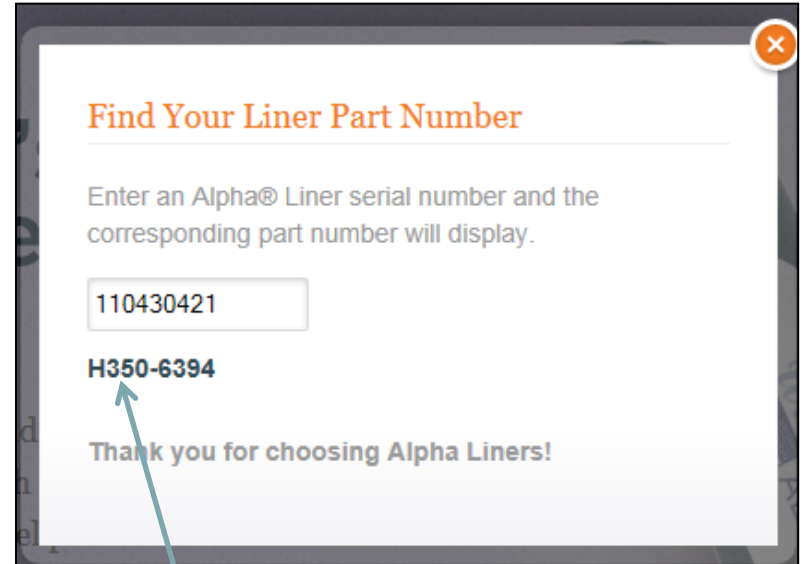
Find Your Liner Part Number

Enter an Alpha® Liner serial number and the corresponding part number will display.

Thank you for choosing Alpha Liners!

This screenshot shows the initial state of the web form. It has a title 'Find Your Liner Part Number', an instruction to enter an Alpha® Liner serial number, an empty text input field, and a thank you message at the bottom. A blue arrow points from the input field to the label 'Enter liner serial number' below the form.

Enter liner serial number



Find Your Liner Part Number

Enter an Alpha® Liner serial number and the corresponding part number will display.

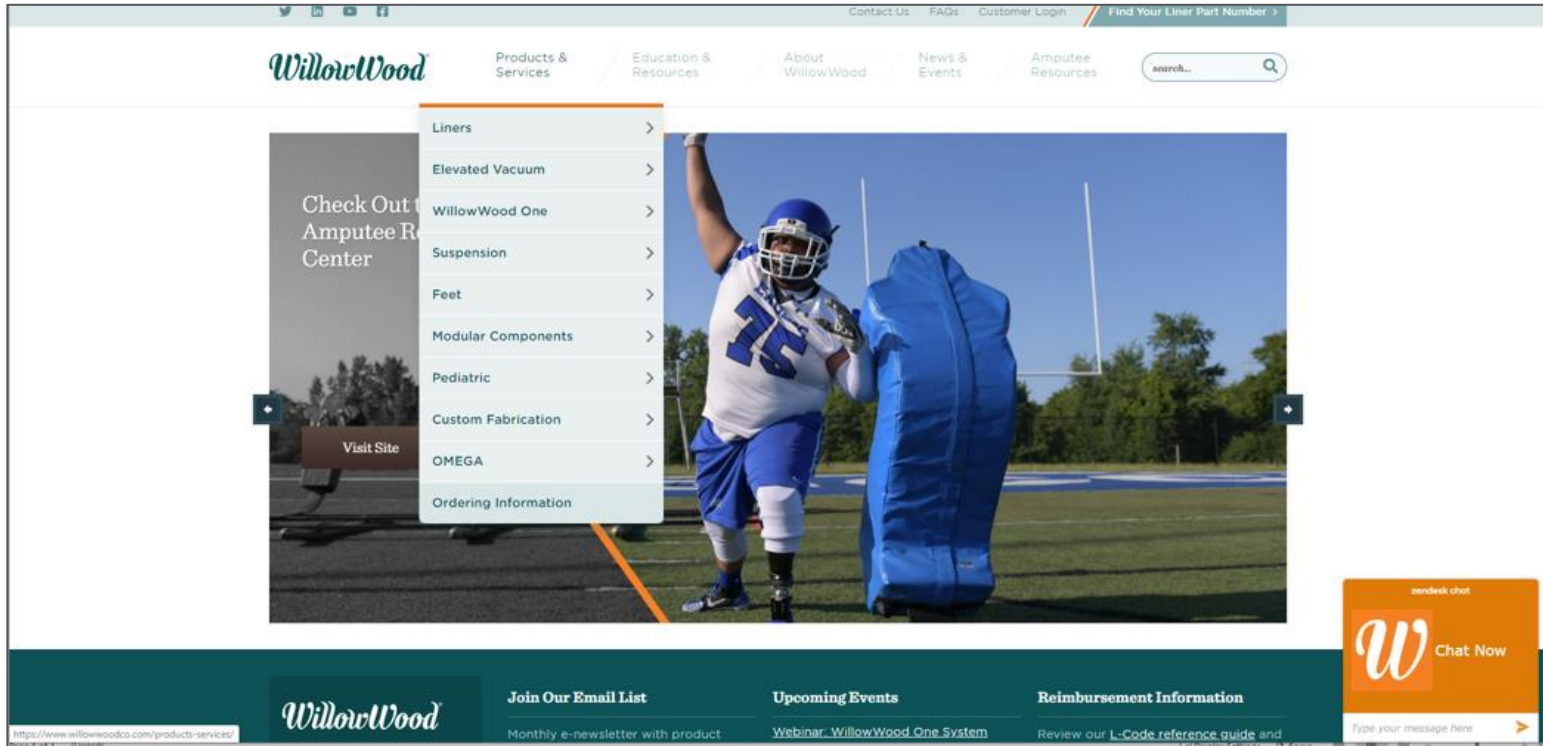
H350-6394

Thank you for choosing Alpha Liners!

This screenshot shows the form after a serial number has been entered. The input field now contains '110430421', and the corresponding part number 'H350-6394' is displayed in bold text below it. A blue arrow points from the part number to the label 'Liner part number displayed' below the form.

Liner part number displayed

LINER SEARCH TOOL



WillowWood

LINER SEARCH TOOL(CONTINUED)

The screenshot displays the WillowWood website's navigation and product search interface. At the top, the WillowWood logo is on the left, and navigation links for 'Products & Services', 'Education & Resources', 'About WillowWood', 'News & Events', and 'Amputee Resources' are in the center. A search bar with the placeholder 'search...' and a magnifying glass icon is on the right. Below the navigation, a dropdown menu for 'Liners' is open, listing various product categories: 'Elevated Vacuum', 'WillowWood One', 'Suspension', 'Feet', 'Modular Components', 'Pediatric', 'Custom Fabrication', 'OMEGA', and 'Ordering Information'. To the right of this menu, a secondary list of links is visible: 'LINERS', 'Bring comfort to your patients with Alpha® Liners by WillowWood.', 'Liner Search', 'Transibial', 'Transfemoral', 'Custom', 'Upper Extremity', and 'Liner Features'. The background of the page features a large image of a prosthetic leg with a colorful, comic-themed liner. At the bottom, there is a dark teal footer with links for 'Join Our Email List', 'Upcoming Events', and 'Reimbursement Information'. A small orange chat bubble with the WillowWood logo and the text 'Chat Now' is located in the bottom right corner.

WillowWood

Products & Services

Education & Resources

About WillowWood

News & Events

Amputee Resources

search...

NEED A FA
YOU CAN I
PATIENT

Give Us A Call!

Learn More

Liners

Elevated Vacuum

WillowWood One

Suspension

Feet

Modular Components

Pediatric

Custom Fabrication

OMEGA

Ordering Information

LINERS

Bring comfort to your patients with Alpha® Liners by WillowWood.

Liner Search

Transibial

Transfemoral

Custom

Upper Extremity

Liner Features

WillowWood

Join Our Email List

Upcoming Events

Reimbursement Information

Chat Now

WillowWood

LINER SEARCH TOOL (CONTINUED)

- Contact Us
- FAQs
- Customer Login
- Find Your Liner Part Number >**

[Products & Services](#) /
 [Education & Resources](#) /
 [About WillowWood](#) /
 [News & Events](#) /
 [Amputee Resources](#)

Home » Products & Services » Liners » Liner Search

Products & Services

Overview >

WillowWood One® +

Liners

Overview

Alpha Classic® Upper Extremity Liners

Custom Liners

Features of WillowWood's Alpha® Liners

Liner Search

Liner Search Result

Retrofit

Transfemoral

Transibial

Alpha® Liners provide flexibility, comfort and protection.

This selection tool will offer liner recommendations based on the data entered. You may use the eight individual filters to specify desired liner features. You may also enter specific patient measurements. The more complete information you enter, the more helpful the liner recommendations will be. The Alpha Family of Liners includes multiple types of profiles, interface materials, and fabrics. [Learn More](#)

Search

Amputation Type	Gel Type	Fabric Type	Gel Profile	Suspension	Liner Thickness
All ▾	All ▾	All ▾	All ▾	All ▾	All ▾
Color					
All ▾					
Liner Size					
All ▾	OR Enter Measurements		Clear Filters		

Search Results: 771

Transibial	
Alpha® Classic Select	
A350-5360	Alpha Classic Select, 6mm, Uniform, Dk Gray/Gray, Cushion, Medium, Special Order Select >

WillowWood

LINER SEARCH TOOL (CONTINUED)

- [Products & Services](#)
- [Education & Resources](#)
- [About WillowWood](#)
- [News & Events](#)
- [Amputee Resources](#)

Home » Products & Services » Liners » Liner Search

Products & Services

- Overview ▾
- WillowWood One® +

Liners

- Overview
- Alpha Classic® Upper Extremity Liners
- Custom Liners
- Features of WillowWood's Alpha® Liners
- Liner Search**
- Liner Search Result
- Retrofit
- Transfemoral
- Transibial

Alpha® Liners provide flexibility, comfort and protection.

This selection tool will offer liner recommendations based on the data entered. You may use the eight individual filters to specify desired liner features. You may also enter specific patient measurements. The more complete information you enter, the more helpful the liner recommendations will be. The Alpha Family of Liners includes multiple types of profiles, interface materials, and fabrics. [Learn More](#)

Search

Amputation Type <input type="text" value="All"/>	Gel Type <input type="text" value="All"/>	Fabric Type <input type="text" value="All"/>	Gel Profile <input type="text" value="All"/>	Suspension <input type="text" value="All"/>	Liner Thickness <input type="text" value="All"/>
---	--	---	---	--	---

Color

Liner Size

OR [Enter Measurements](#) [Clear Filters](#)

Search Results: 771

Transibial

Alpha® Classic Select

A350-5360	Alpha Classic Select, 6mm, Uniform, Dk Gray/Gray, Cushion, Medium, Special Order	Selectr ▾
-----------	--	---------------------------

WillowWood



USE AND CARE

WillowWood

HYGIENE

- Daily washing
 - Wash (side without logo) with soap; rinse
 - Dry (fabric or logo side out) flat or on drying stand*
- Weekly disinfecting
 - Wipe (side without logo) with isopropyl alcohol and rinse with water
- No need for lubricants, powders, or mineral oil



**available separately*

WillowWood



WARRANTY



WillowWood

LINER WARRANTY

- 12-month warranty
- 30-day trial period
- Casting liners available



WillowWood

ALPHA LINERS

GET BACK TO THE BASICS



WillowWood®

