

A woman is standing in front of a weathered, light-colored wall. She is wearing a long-sleeved, high-necked, gold lace dress. Her right leg is a prosthetic, featuring a black socket with white floral patterns and a black foot. The socket is decorated with the name 'Home' and 'Florence' in white script. She is also wearing black and white striped socks and red lace-up boots. The ground is covered in grey gravel.

LLLLLL

The **ALLELES**™ Design Studio Ltd.
Sales Package

This package is meant to be used as a reference guide and contains confidential information. It is intended to be used by prosthetists, technicians, clinicians and any other applicable staff members.

TABLE OF CONTENTS

BASIC OVERVIEW

bio	3
process/timeframe to get a cover	3

PRODUCT INFORMATION

reimbursement	4
price range	4
weight	4
material	4
durability	4
warranty	4
attachment method	4
color range	4

ORDERING INFORMATION

select design	6
how to measure	7
top shape	8
back shape	9
selecting color	10

COLOR

selecting color	10
color swatches	11
nude color swatches	12
custom color matching	20

PRODUCT FEATURES + BENEFITS

14

APPENDIX

A. How to Put Cover On	16
B. Polyurethane Straps	17
C. Heat Forming Instructions	18
D. Durability Scale	19
E. Solo Foam Cover Alternative	20
F. Rotational Plasty	21
G. Polycentric	22
H. Release Valve	23
I. Custom Colors	24

Basic Overview.

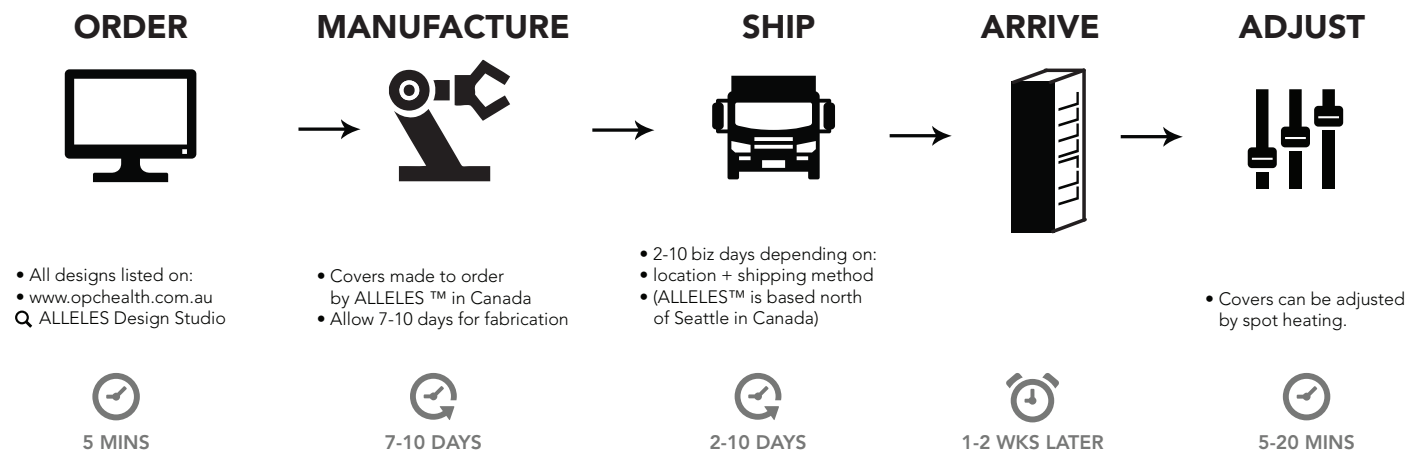
The ALLELES Design Studio Ltd.

Pronounced ALL - L's

Founded: Spring 2013

The mission of the ALLELES Design Studio is to do for prosthetics what a previous generation of fashion designers did for the eyeglass industry. By providing options for self-expression we hope to help shift the perception of medical devices into objects of healthy curiosity.

PROCESS AND TIMEFRAME TO GET A COVER:



Product Info.

REIMBURSEMENT

Currently, L5704, L5705 are your best bets for insurance billing.

PRICE RANGE

Fits within insurance billing margins, but is still affordable enough for cashpay clients.

WEIGHT

Weight varies based on design and size however the average weight comes in around 1/3lb with the heaviest cover (the L2) coming closer to 1lb. Covers with more perforations typically weigh less than covers without.

DURABILITY

The durability of the covers completely corresponds to the patterning of the various designs. Covers with more perforations tend to be more delicate, and detailed, but also very lightweight. Whereas designs with less perforations are more durable, but are a bit heavier. Keep in mind that selecting a cover is completely based on your personal expectations for both design style and durability.

Durability is based on relative durability; All the covers are rated against each other. Therefore, a higher score directly correlates to a cover's durability in relation to the rest of the product line. See Appendix D (page 19) for a list of all of our current designs and their relative durability score.

WARRANTY

All covers have a 3 month replacement warranty for any manufacturing defects. All other warranty claims will be handled case by case.

FOAM COVER ALTERNATIVE

If you are looking for a basic cover with no design details or perforations, we do offer a great foam cover alternative. Many clinicians have migrated into using the **SOLO** (see appendix E, page 20) rather than carving foam covers from scratch.

MATERIAL

Covers are made from a heat mouldable FDA grade ABS and finished with premium automotive paint. Straps are polyurethane with aluminum buckles.

STRAP ATTACHMENT

All of our covers are equipped with 2 polyurethane straps with aluminum hooks that simply grip around the components of one's prosthesis (See Appendix A & B, page 16-17). This method of attaching:

- makes covers easily removable
- distributes energy minimizing cracking typically seen when using hard connections.

COLOR SELECTION

We have over 28 curated colors that clients can select from (See Color Swatch on pages 11 + 12). Most of our covers follow one simple paint logic in which you will be required to select the:

1. Main Color: which is the color on the inside of the cover as well as the dominant color on the front of the cover. AND the;

2. Detail Color: which is an accent color used for the detail lines on the front of the cover.

Example: this cover is shown painted with the Main Color Nude #1 and the Detail Color Forest Green.

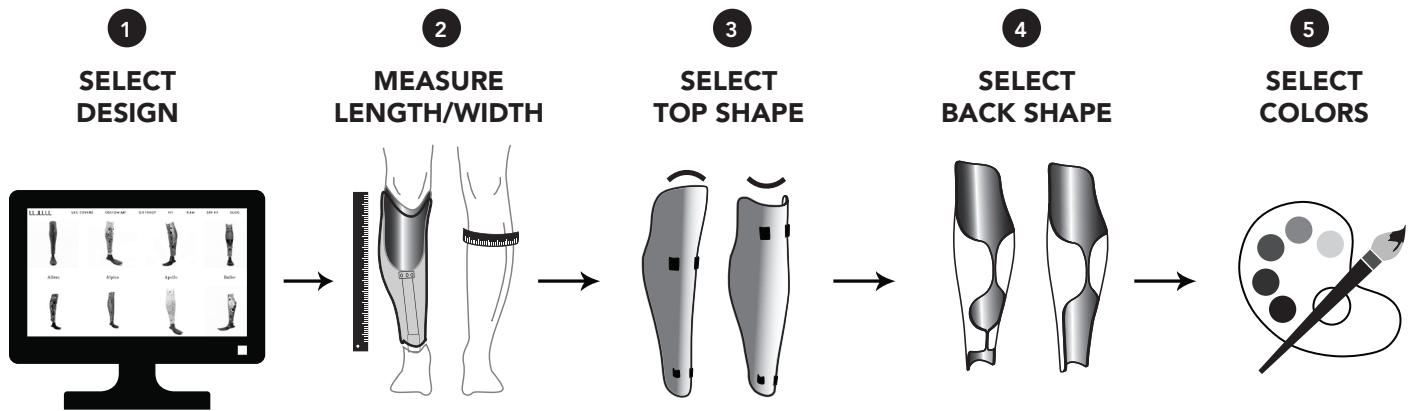


Ordering.

We have tried to make our ordering process and product as easy to work with as possible. There are a few variables that are consistent for every single order so that we can manufacture the product:

- Length Measurement
- Width Measurement
- Top Shape
- Back Shape

Where the fun comes in for your client, is when they get to choose which design they want and in what colors! We have a catalog of over 50 Ready-to-Wear designs (and we are always coming out with more) as well as a curated color palette of over 28 colors for them to choose from. After all, we are trying to create as much choice as possible in order to provide a shopping experience for them.



**The following few pages further explain each step of the ordering process.

1. Select Design.

- We have over 50 Ready-to-Wear designs to pick from and are constantly adding new ones to our catalog; after all our mission is to provide as much style choice for our clients.
- Browse + Select Designs on: www.cascade-usa.com or www.OrtoPed.ca

- prostheticcovers.com : is also a great prosthetist resource which shows all the designs without pricing so your clients can browse through the different styles.
- see some of the covers from our catalog below:



2. Measuring.

Our prosthetic covers were designed to work for both Transtibial and Transfemoral prostheses. Our goal was to create a product that is very simple to fit with minimal measurements required. Think 'shoe sizes'. We only require a LENGTH and WIDTH measurement to place the order which is a great alternative for prosthetists looking to reduce time spent carving foam cosmetics.

Our covers are also easily removable, so there is no need to ruin the cosmetic if you need to make an adjustment to one of your client's prostheses!

See below for how to measure the Length and Width for both a BK and AK cover. (We also have 2 minute videos on prostheticcovers.com that shows how to measure each.)

We have three set **WIDTHS** to choose from: SMALL, STANDARD, & LARGE. And the **LENGTHS** of covers go up in half inch increments from 12 - 20 inches.

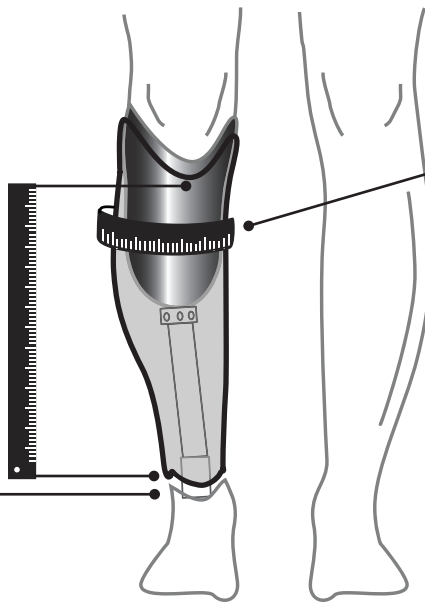
BELOW KNEE

LENGTH

Measure from the lowest dip in the front of the socket to the top of footshell.

GAP

Make sure to leave a 1/2 to 1 inch gap between the bottom of the cover and top of the footshell to allow for dynamic movement. This prevents the cover from constantly impacting the top of the footshell which will eventually cause the cover to crack.



WIDTH

Measure the circumference of the widest part of your socket. Keep in mind the cover is a hard plastic shell that needs to fit over top of a hard socket. If the socket is wider than the sound limb, the cover will look larger than the sound limb. If the socket is thinner than the sound limb, then measure the circumference of the widest part of the sound limb so that you get a cover that is more proportionate to the other leg.

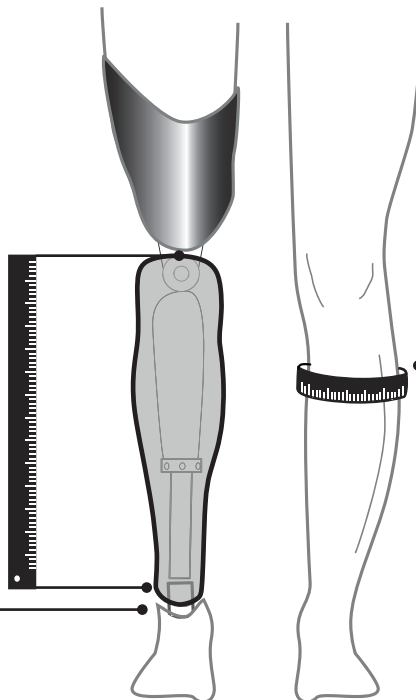
ABOVE KNEE

LENGTH

Measure from the apex of the mechanical knee to the top of the footshell.

GAP

Make sure to leave a 1/2 to 1 inch gap between the bottom of the cover and top of the footshell to allow for dynamic movement. This prevents the cover from constantly impacting the top of the footshell which will eventually cause the cover to crack.



WIDTH

Measure the circumference of the widest part of the sound limb. We want to create a cover that is proportionate to the other limb to create symmetry.

For bilateral clients use best judgment for size or feel free to reach out for a recommendation.

3. Choose Top Shape.



DIP TOP

The top shape refers to the profile of the top of the cover. The DIP TOP is recommended for Below Knee Prostheses as it follows the profile of the top of a socket. The overall shape has also been designed to work with the contours of a BK prosthesis.

Since every socket is so different, we needed to come up with a shape that worked for as many people as possible. With that said, BK covers could require a bit of adjustments once they arrive.

The covers are made of ABS plastic making them heat mouldable (see Appendix C (page 18) for heat forming instructions). A typical adjustment would be to remove the top strap and gently spot heat the top of the cover and press it against the socket to get a tight fit.



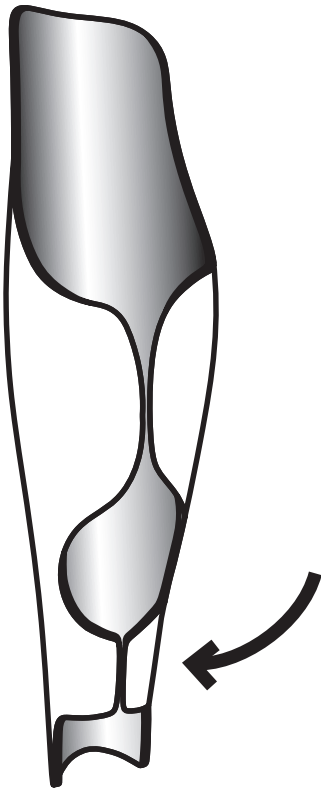
ARCH TOP

The ARCH TOP is recommended for Above Knee Prostheses. AK covers typically fit right out of the box and simply need to be strapped to the prosthetic components.

AK covers work well with microprocessor and hydraulic knees. If a client uses a polycentric knee we usually move the strap placement to ensure there is no interference with motion (see Appendix G (page 22) for the additional measurements we will require if your client uses a polycentric knee.

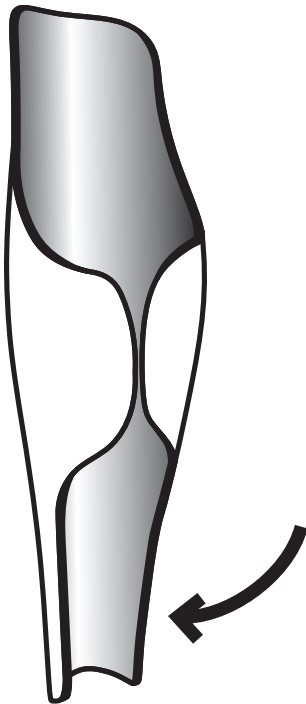
We have many people who kneel on their covers with no issues, however constant impact while kneeling could cause the cover to crack over time. Some AK clients choose to get the DIP TOP and measure just below the knee bumper on their prosthesis so that they are then kneeling on their prosthesis rather than their cover.

4. Select Back Shape.



RACER BACK

The Racerback features a fully enclosed ankle and is a great option for clients looking to fill out the ankle portion of their pants or who are seeking a prosthetic cover with more coverage.



SPORT BACK

The Sport Cut is designed with an open ankle to accommodate large foot components, shock absorbers, rotators, etc. and allow the room needed for dynamic components.

It is also much easier to put on and take off, making it an excellent option for clients with limited dexterity or clients who would prefer to be able to mix & match easier.

5. Select Color.

COLOR SELECTION

Most of our covers follow one simple theme. There's the MAIN COLOR, which is the dominant color on the front and the inside of the cover. And there's the DETAIL COLOR, which is the color for all the detailing on the front of the cover.

Outside of this, there are covers that will have a minor variation on this theme. For example, some covers will have extra details or specific details being offered in additional colors or finishes.

Below shows four different covers all following the same color logic to give you a better idea of how the color selection works:

MAIN COLOR: **Cobalt Blue**
DETAIL COLOR: **White**



MAIN COLOR: **Silver**
DETAIL COLOR: **Red**



MAIN COLOR: **Nude #1**
DETAIL COLOR: **Orange**



MAIN COLOR: **14K Gold**
DETAIL COLOR: **Navy**



Color Swatches.



Nudes.



We have curated 5 colors of Nudes to cover a range of skintones. However, we do realize that there are far more skintones than that so we do offer color matching if you want something more specific. We use the free Pantone color App for color matching. See Appendix I (page 24) to see how to get a paint code to match skintones.



Custom fit prosthetic covers have been a unique and welcome addition into our patient care this past year. They differentiate my work from that of my competition. I have done several of them in the past few months and it allows the patient to have some creative design in the fabrication of their prosthesis. They are custom fit to the height and circumference of the finished leg, are heat mouldable, come in an array of designs/colors, and with pants on, fill the void of the calf and ankle beautifully. The best part is that they are not permanently mounted. They can simply be taken on or off depending on the occasion which is a huge benefit over the traditional cover.

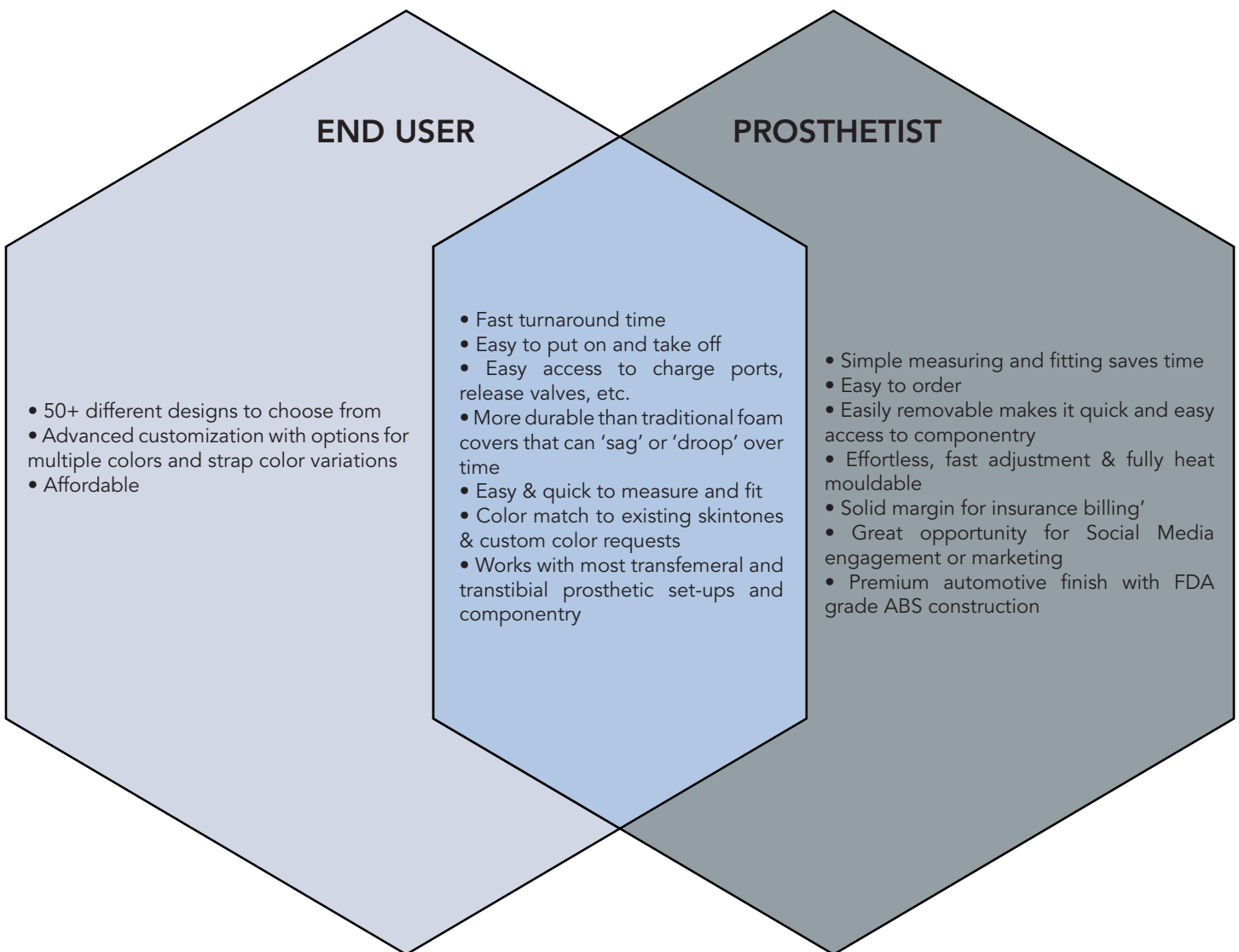
Michael L. McCauley LCPO
Area Clinic Manager

Features/Benefits.

There are added psychological benefits of showcasing possibilities to your clients and empowering them with the choice of how they want to express themselves and relate to their prosthesis.

The product was also designed in a very technical way to ensure ease of use, ordering and adjustments done on the clinician side.

Below shows the benefits of using our prosthetic covers for both the client and the prosthetist.



I've been an amputee for 21 years. I lost my leg to cancer and get to wake up with my second chance at life. I've been working in prosthetics for 8 years, and have seen a bunch of different things flow through but nothing in cosmetics has ever sparked my interest.

When I emailed the company, I was shocked when I received such a quick response. The response was not only quick, but ALLELES was just as eager to get me a cover that I would love. Well, I do love it. My wife loves it. My family and friends love it. It is perfect. Being an amputee is about living life to enjoy the little things. I'm here to say that this is a very little thing, cosmetics, but getting to talk and do business with ALLELES was a very enjoyable experience and memory that I'll always remember. I can't wait to order my next cover.

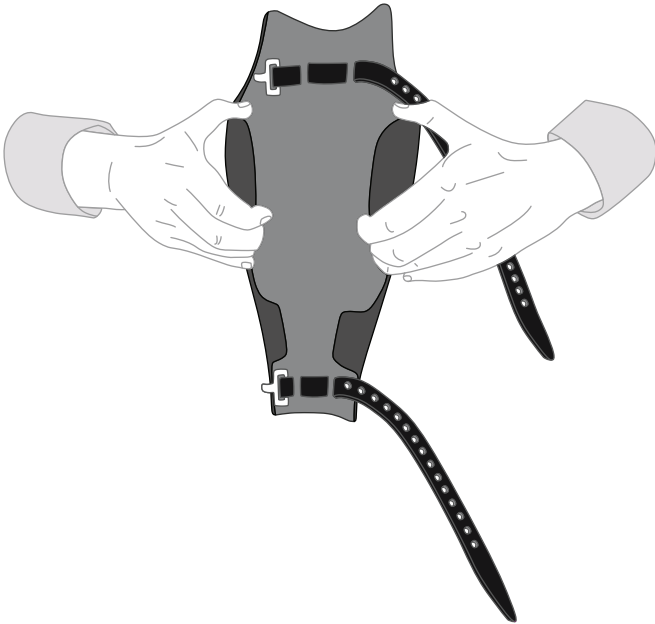
Josh Hodgson
Prosthetic Technician



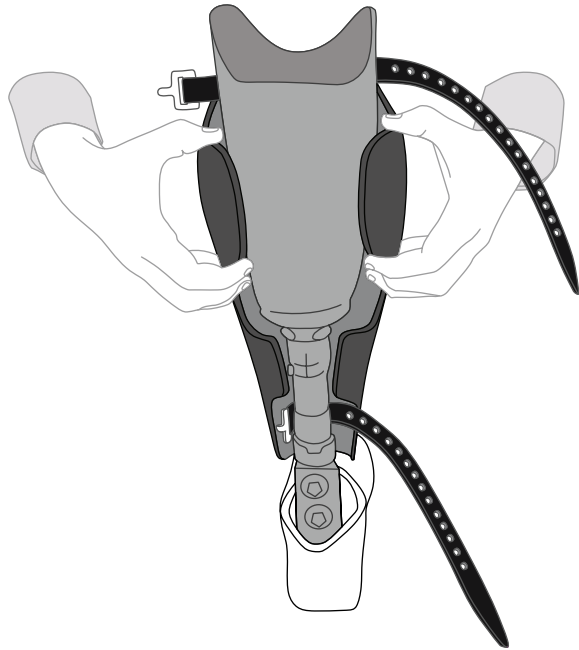
Appendix A

HOW TO PUT COVER ON

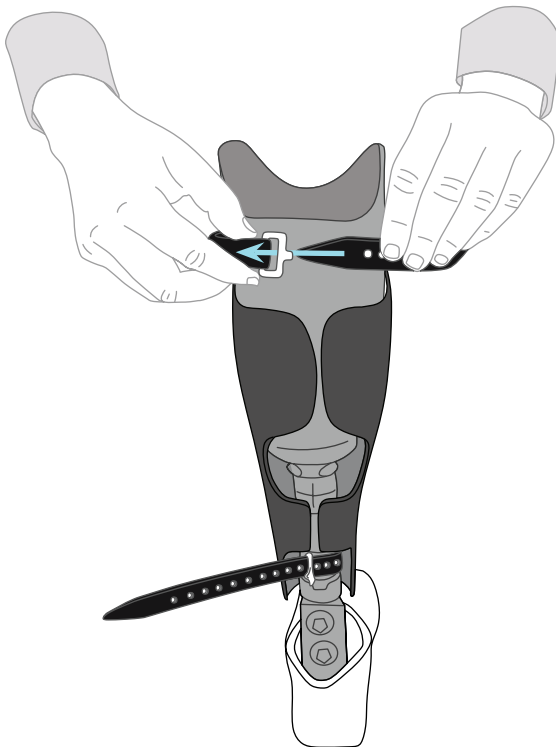
- 1 GRASP COVER BY 'WINGS'.
(COVERS ARE SLIGHTLY FLEXIBLE.)



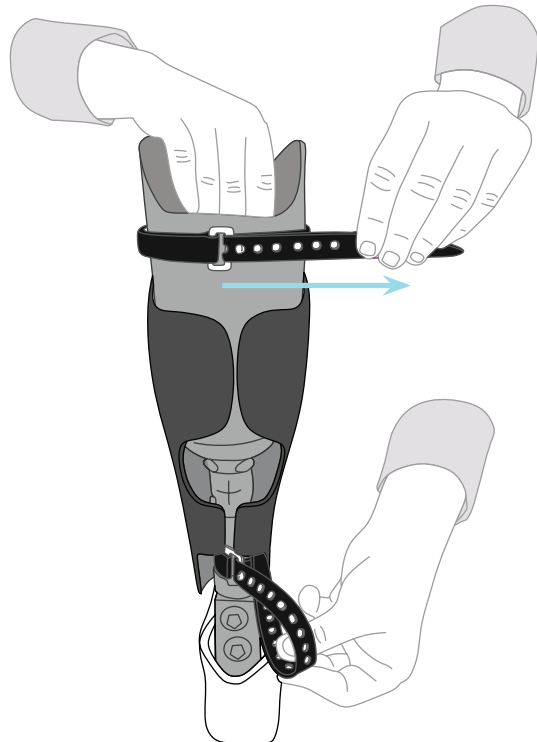
- 2 FLEX COVER WIDE ENOUGH TO FIT
AROUND PROSTHEIS COMPONENTRY.



- 3 THREAD STRAP UP THROUGH
BUCKLE FROM UNDERNEATH.



- 4 PULL STRAP BACK OVERTOP OF BUCKLE
TO ENGAGE 'HOOK'.



- 5 TUCK TAIL INTO COVER OR TRIM EXCESS
ONCE YOU KNOW NECESSARY LENGTH.

Appendix B

POLYURETHANE STRAPS

STRAP ATTACHMENT

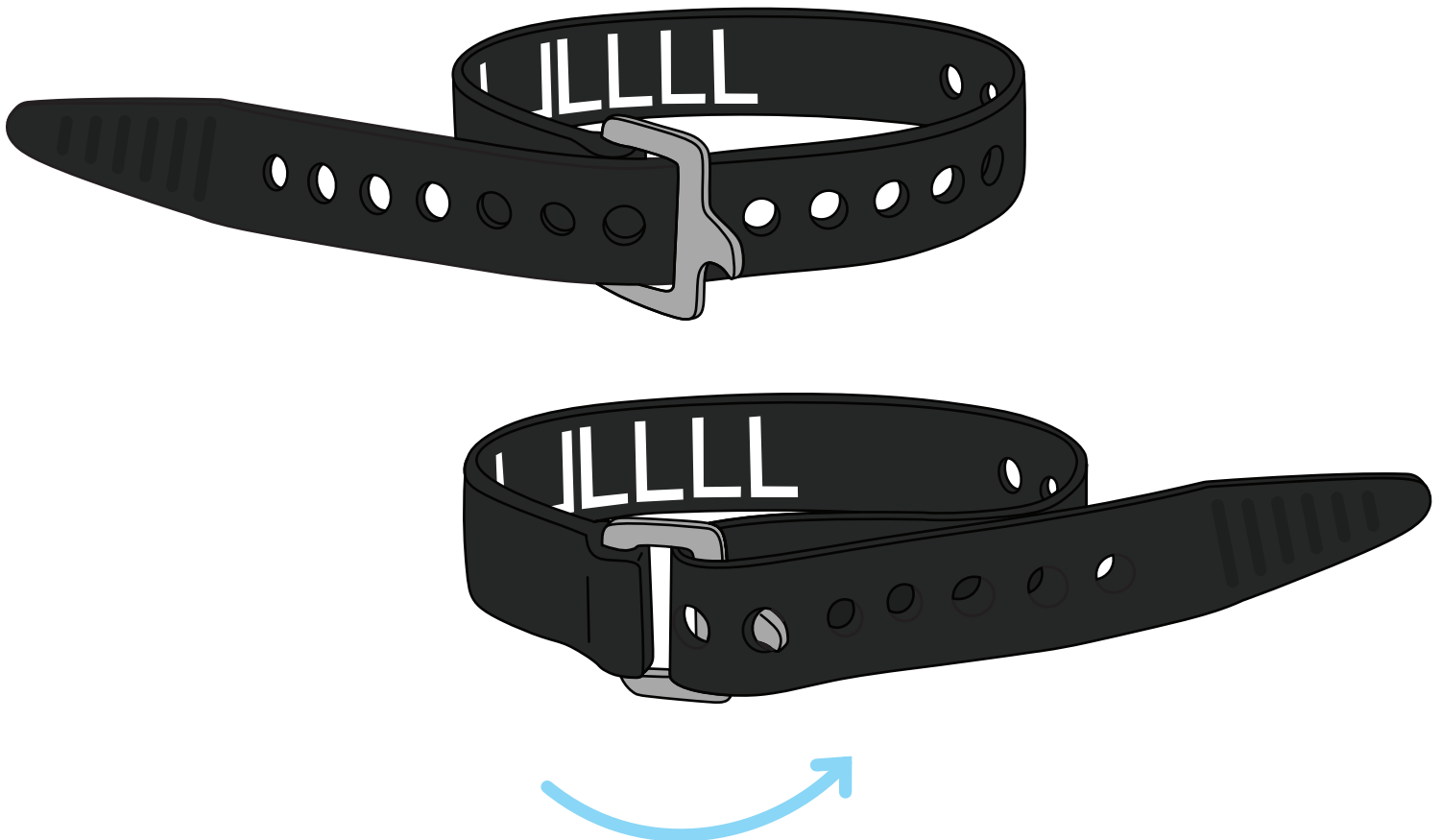
All of our covers are equipped with 2 polyurethane straps with aluminum hooks that simply grip around the components of one's prosthesis. This method of attaching:

- makes covers easily removable
- distributes energy minimizing cracking typically seen when using hard connections.

HOW TO FASTEN

To fasten the straps, thread the tail through the aluminum buckle and pull the tail back over top of the hook.

Sometimes you may need to weave the strap through the cover to find the optimal position to work with your prosthetic set-up and make it easier to access.



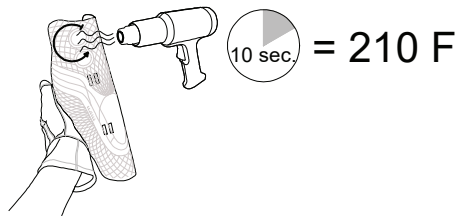
Appendix C

HEAT FORMING INSTRUCTIONS

ALLELES covers are made of ABS plastic and can be modified by spot heating the cover. This is especially helpful for fitting below knee patients as the contours of sockets vary from person to person. See below for guidelines of how to adjust the covers.

Very Small Adjustments

Wear Heavy Duty Work Gloves
Time & Temperature Approximate



STEP.1
USING HEAT GUN

- Remove straps
- Heat a small section of cover.
- 10 seconds (approx) should heat cover to 210 - 220 F.
- ABS Material will become slightly pliable.



STEP.2
HAND FORMING

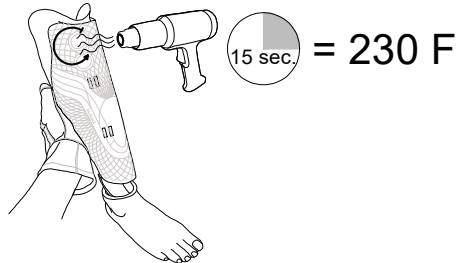
- Apply Pressure to Heated Area.
- Hold until cover is no longer flexible.

NOTES:

- Paint / clear-coat will not be effected
- Good for making very small adjustments
- Plastic will still be quite stiff, but slightly workable. This is good when you need to make very small adjustments.

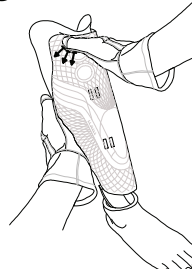
3 - 4 Inch Sections / Using Socket

Wear Heavy Duty Work Gloves
Time & Temperature Approximate



STEP.1
USING HEAT GUN

- Remove straps
- Heat a small section of cover.
- 15 seconds (approx) should heat cover to 220 - 230 F.
- ABS Material will become flexible.
- Keep heat gun moving to ensure even heating.



STEP.2
HAND FORMING

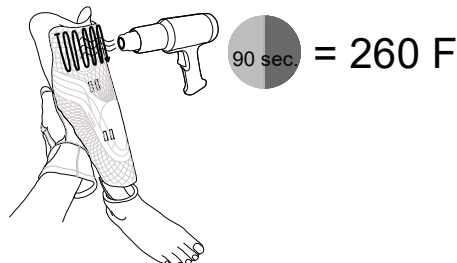
- Apply Pressure to Heated Area.
- Hold until cover is no longer flexible.

NOTES:

- Paint will not be effected.
- Clear-coat may soften a little and may become marked (230 F +).
- At 230 F, the ABS is quite workable, and the paint and clear-coat should not be effected.
- Above 260 F, the ABS becomes softer. At these temperatures you also a greater risk of damaging the clear-coat and marking the paint.

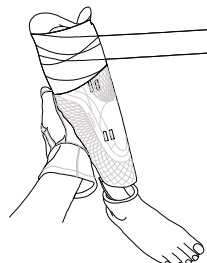
Larger Sections

Wear Heavy Duty Work Gloves
Time & Temperature Approximate



STEP.1
USING HEAT GUN

- Remove straps
- Heat top 3 inches of the Cover.
- 90 seconds (approx) heat cover to 260 F.
- Keep heat gun moving, to heat area as evenly as possible.



STEP.2
ACE WRAP / ELASTIC BANDAGE

- Wrap heated area with ACE bandage.



STEP.3
HAND FORMING

- Apply Pressure to Heated Areas and hold.
- Cover will cool down after 1 minute and become solid.

Appendix D

DURABILITY SCALE

The durability of the covers completely corresponds to the patterning of the various designs. Covers with more perforations tend to be more delicate, and detailed, but also very lightweight. Whereas designs with less perforations are more durable, but are a bit heavier. Keep in mind that selecting a cover is completely based on your personal expectations for both design style and durability.

We have a relative durability scale where all the covers are rated against each other. Therefore, a higher score directly correlates to a cover's durability in relation to the rest of the product line. The table below lists the durability of all of the different Ready-to-Wear covers we offer.

Accessory				Protective					
1	2	3	4	5	6	7	8	9	10
<ul style="list-style-type: none"> •Victorian •Sochi •Steen •Pines •Paradigm •Imperialist •Merovingi 	<ul style="list-style-type: none"> •Digital Rococo •Houndstooth •Demarche •Fadilah •Exius 2.0 	<ul style="list-style-type: none"> •John-Paul •Geomecon •Mythic •Salt Pro 	<ul style="list-style-type: none"> •L-Trainer •HIFI •Roth •Monarch •Deco •Palms •Gaia 	<ul style="list-style-type: none"> •Stealth •Exo •Deep •Eyes •OM •Janz-Pro 	<ul style="list-style-type: none"> •Baller •MTL •Flora •Racer •Apollo •Wings •Hi-Top 	<ul style="list-style-type: none"> •Alpine •Bloom •Modena •Future •Plaid •DigiCamo •Salt M2 •Deener •LSDeener 	<ul style="list-style-type: none"> •Moto •Allens •Paisley •Glide •Roe 2.0 •Jennings •L750 •Khloris •Nouveau •Nouveau Colorway •Royale 	<ul style="list-style-type: none"> •Solo •Solo Carbon 	<ul style="list-style-type: none"> •L2

Appendix E

SOLO | FOAM COVER ALTERNATIVE



The **SOLO** is our generic cover that provides a nice silhouette, but does not have any intricate designs or perforations.

This is a great alternative for clients who are used to wearing foam covers. Not only will the SOLO keep its shape much longer than a typical foam cover, but the covers are easily removable making them ideal for recent amputees that need adjustments made to their prosthesis more regularly.

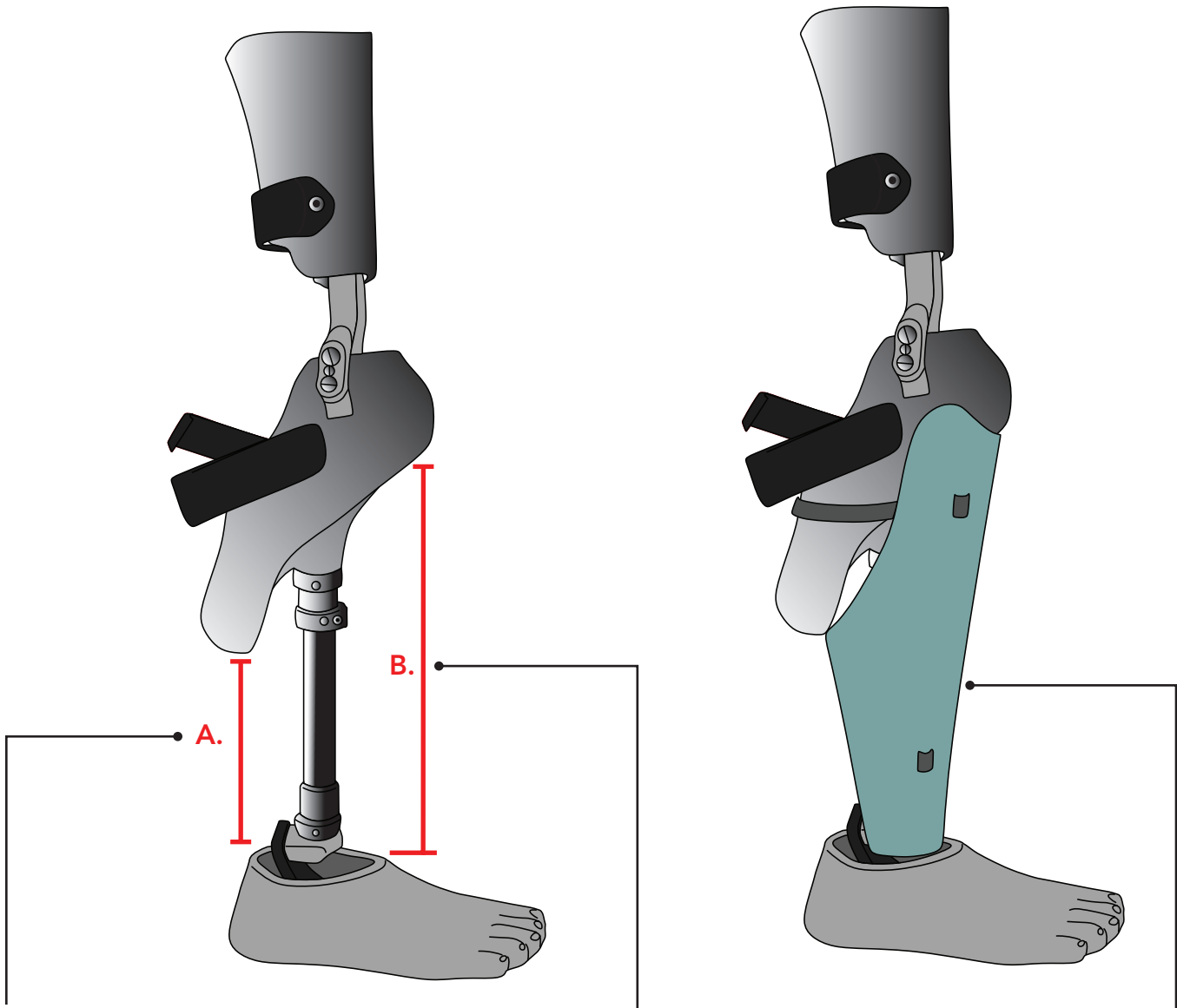
The fitting, removability and Nude color range makes it a quick and practical foam cover alternative for clinicians looking to save time.



Appendix F

MEASURING FOR ROTATIONAL PLASTY

If you have a rotational plasty patient we will require a couple extra measurements in order to fabricate the cover. Please make sure to add the extra measurements in the 'Notes' section of the order form and state that the cover is for a rotational plasty prosthesis. If you have questions, please reach out to us prior to placing the order.



Measurement A.

Take a measurement from the tip of the pointed toe to the top of the footshell.

*don't forget to subtract 1/2-1 inch to ensure there is a gap between the bottom of the cover and top of the footshell.

Measurement B.

Cover Length. Take this measurement just below the 'heel/knee' of the socket to the top of the footshell. The cover will be able to butt against the socket really well with the 'DIP TOP' cut cover creating a very streamlines shape.

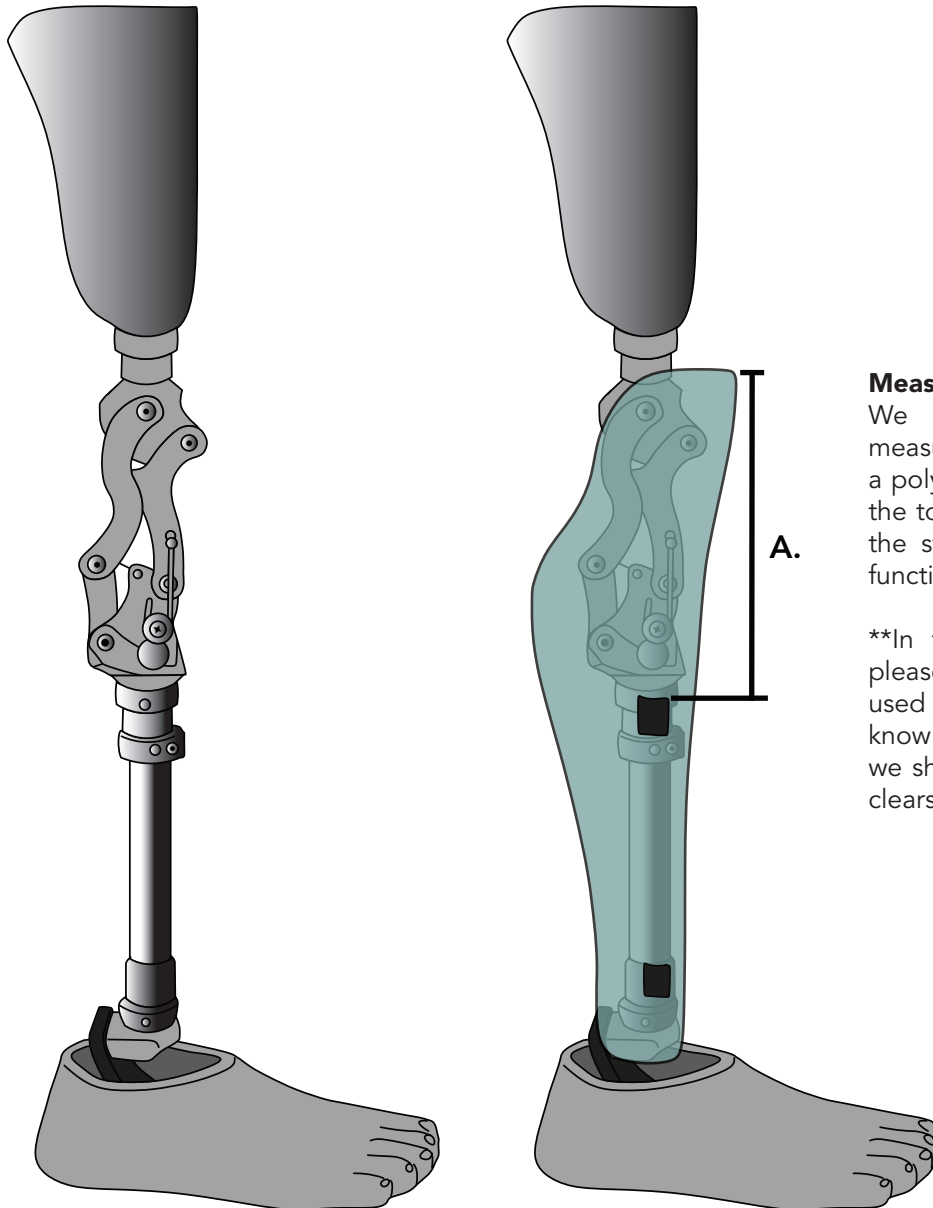
*don't forget to subtract 1/2-1 inch to ensure there is a gap between the bottom of the cover and top of the footshell.

Cover Shape.

We have come up with a new cut of cover that works well with rotational plasty prostheses. The shape blends the geometry of the rotational plasty set-up with the silhouette of the rest of the body. We are not trying to conceal the entire prosthesis with the cover as doing so would cause the shape to become very bulky and unflattering.

Appendix G

MEASURING FOR POLYCENTRIC KNEE



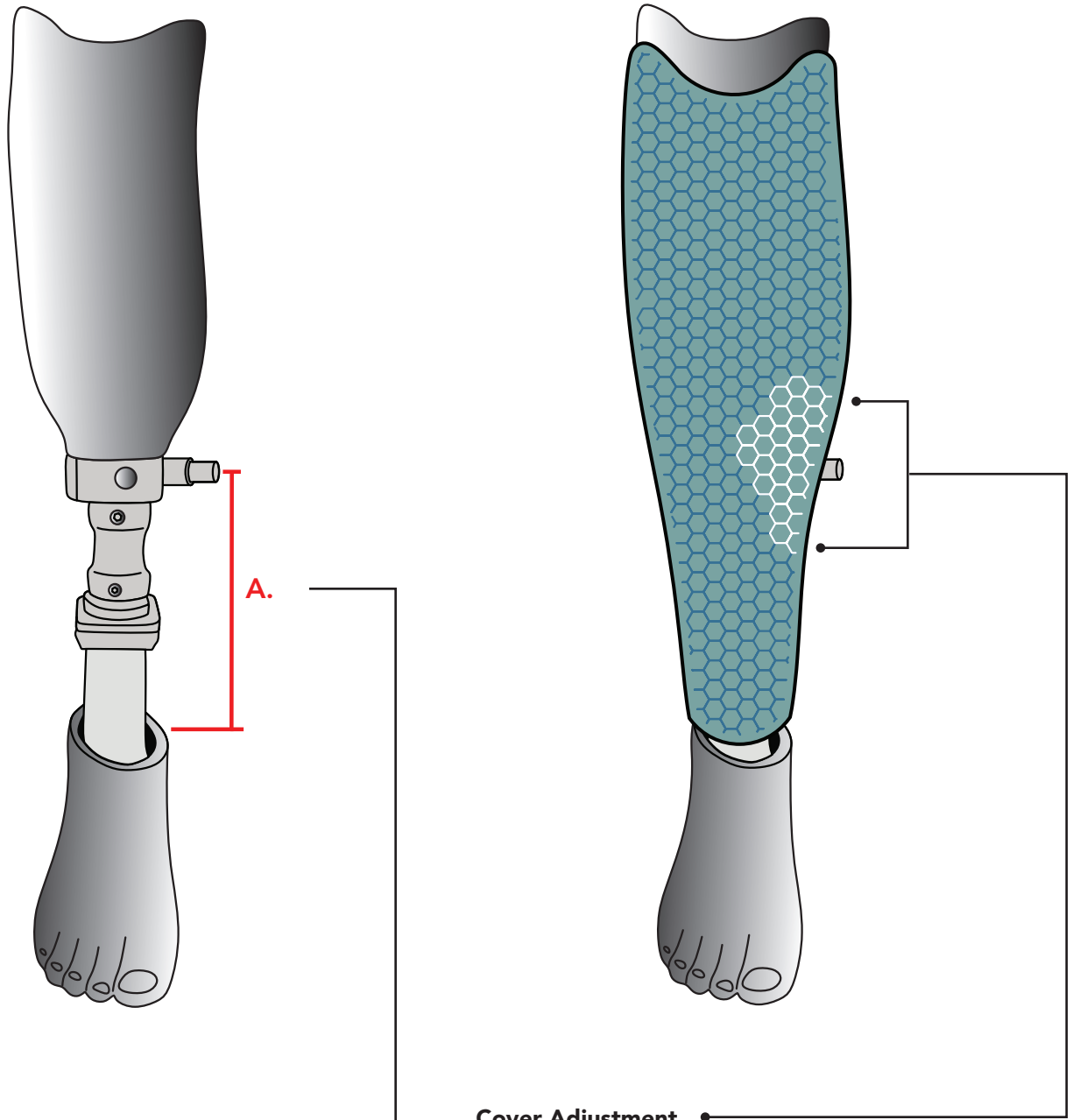
Measurement A.

We will require an additional measurement when ordering a cover for a polycentric knee. We need to adjust the top strap placement to ensure that the strap does not interfere with the functionality of the knee.

**In the notes section of the order please specify that the cover will be used on a polycentric knee and let us know how far from the top of the cover we should put the top strap so that it clears the knee mechanism.

Appendix H

RELEASE VALVES



Measurement A.

We will require an additional measurement when ordering a BK cover with a release valve. Take a measurement from the bottom of the cover to the center of the release valve and give us a general idea of where it is positioned on the leg.

**In the notes section of the order please specify that the prosthesis has a release valve and let us know the length of Measurement A. We will then adjust the design of the cover slightly to accommodate the valve.

Cover Adjustment.

Once we receive the measurement of the release valve placement, we will adjust the patterning on the design. We will remove all the perforations in the general area of the release valve, but still keep the engrave details of the design. Once you receive the cover you will be able to drill a hole for the release valve in the EXACT place you need to. It is always hard to get the placement perfect on our end as you never know what perspective photos are taken from, etc. Removing the perforations ensures that when you drill the hole you are not drilling through the side of another hole which can jeopardize the overall strength of the cover.

Appendix I

CUSTOM COLORS USING PANTONE APP

1 DOWNLOAD FREE PANTONE APP



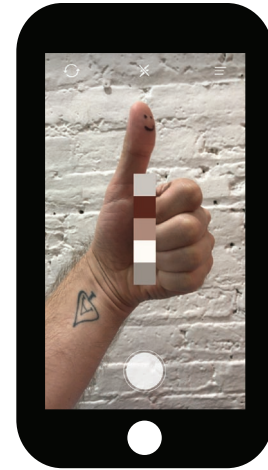
Go to your App Store and download the Free Pantone Studio App.

2 SELECT CAMERA BUTTON



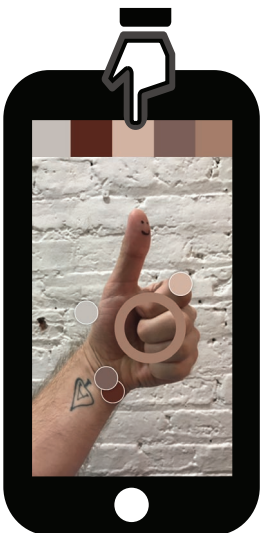
Open the Pantone Studio App and Select the camera button.

3 PHOTOGRAPH COLOR TO MATCH



Photograph the color you want to match. The squares in the middle of the screen represent all the colors currently in the shot. Make sure you capture a photo that is a close representation of the color you are trying to match.

4 SELECT COLOR SWATCH



You can move the dots around by dragging them. This will allow you to sample different areas. Once you've found a color that you're happy with, select the square by pressing on it.

5 PROVIDE COLOR CODE



If you press on any of the squares at the top of your screen it will bring up this color swatch. The swatch needs to end in `SP` in order to be a skintone.


On the order form make sure to provide the color code so that we can match it on our end or send us an email with a screenshot of the swatch. For this example the color code would be: **1Y01 SP**.

The ALLELES Design Studio Ltd.
proudly distributes through:



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 sales@opchealth.com.au

 03.9681.9666

 /OPCHealth

We are always here for support as well, so please reach out if you ever have any questions!



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