

# MATERIALS

WHICH IS BEST?



SO YOU WANT TO ORDER ORTHOSES,  
BUT WHICH MATERIAL IS BEST?

This useful guide aims to give you an insight and knowledge into each material, so you can make the best decision for your orders.

Fun fact: All of our materials are anti-bacterial  
AND they are vegan friendly  
(our suede and leathers are man-made!)

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# EVA

All of our EVA orthoses are available in a range of different densities. They are flexible, great for shock absorption, moisture proof and are anti-bacterial. This means they are great for diabetic and 'at risk' feet.

With a number of different densities available, which is right for your patient?

DENSITY	BENEFITS	FOOT TYPE
<b>LOW A45</b>	<ul style="list-style-type: none"><li>• Great for cushioning</li><li>• Adheres well</li><li>• Shock absorbing</li><li>• Helps with balance</li><li>• Lightweight</li></ul>	For patients needing extra cushioning and comfort
<b>MEDIUM A40</b>	<ul style="list-style-type: none"><li>• Most widely used EVA density</li><li>• Resistant to wear</li></ul>	Ideal for everyday use and patients who perform sporting activities
<b>HIGH A65</b>	<ul style="list-style-type: none"><li>• Highly resistant</li><li>• Controls the foot</li><li>• Prevents foot turning in excessive pronation</li></ul>	For patients which need greater control of the foot
<b>DUAL</b>	Available in a range of different densities <ul style="list-style-type: none"><li>• A25/A50</li><li>• A40/A50</li><li>• A50/A65</li></ul>	Ideal for patients who need more control of the foot whilst still having the cushioning
<b>MEMOFLEX</b>	<ul style="list-style-type: none"><li>• A range of different colours and densities</li><li>• Bespoke colours can be customised to your company branding</li></ul>	Ideal for a range of different patients and foot problems

# POLY PROP

Poly Prop is a rigid shell type made from thermoplastic, which offers enough support whilst still being flexible. They provide foot balance for walking or even participating in sports.

We recommend including a mid layer to poly prop devices to add cushioning

## FOOT TYPE

For patients who need more control as it limits abnormal foot movements. Ideal for athletes, flat feet and plantar fasciitis, to name a few

## BENEFITS

- Lightweight
- Highly durable
- Highly versatile



# CARBON FIBRE

Our carbon fibre orthoses are a lightweight alternative to poly prop. They come in a range of thicknesses depending on the rigidity needed.

- 1.9mm flex
- 2.3mm semi flex
- 2.8mm rigid

## FOOT TYPE

Great for athletes and patients involved in sport. We create a lot of carbon fibre orthoses that are worn in football shoes

## BENEFITS

- Lightweight
- Strong
- Solid arch support
- Reactive sole
- Injury prevention
- Very durable
- High strength to weight ratio



# TOP COVERS

Top covers are designed to add further protection to the orthotic and provide added comfort and breathability if needed, depending on the patients needs. They also give a desired aesthetic to the device. These are some of our most popular top covers.

## EVA

EVA is one of the most popular top covers

- Closed cell rubberised foam
- Durable and wipeable
- Contours well into deep heel cups
- Gives added comfort and cushioning
- Shock absorbing

## SPENCO

Spenco is a two-layered top cover material consisted of nylon and neoprene

- Provides added comfort
- Good durability
- Shock absorbing
- Breathable
- Prevents blisters

## LEATHER TECH

Leather Tech is a microfibre lining material than looks and feels like real leather

- Man-made suede
- High resistance
- 100% breathable
- Can absorb 8 x its weight in water
- Anti-bacterial
- Anti-microbial
- Thermo-regulatory effect
- Can be wiped clean

## SUEDE / LEATHER

All of our suede and leather materials are man-made and vegan friendly

- Responds well to body heat
- Durable
- Breathable
- Aesthetically pleasing - looks great on dress orthotics

## VINYL

Vinyl is a synthetic leather-type material. It is a great top cover when combined with other cushioning layers

- Durable
- Economical
- Wipeable
- Thin
- Doesn't absorb moisture

## PORON

Poron is great material to use as a top cover. There are so many options depending on the needs of the patient. Take a look at the next page for our most popular poron materials





## PORON

Poron is an open cell, breathable foam material, specifically designed for the orthopaedic and footwear sectors.

Poron can help give more comfort and reduce sweat from building up under the foot. This protects from the growth of bacteria and mildew that can cause odours and stains.

It also has a great level of shock protection and keeps its comfort and flexibility for longer, meaning it will help the orthotic last longer.

There are a range of different poron colours which are in different densities and have different benefits. We have listed some of our most popular.

### PORON

### BENEFITS

### FOOT TYPE

BLUE 4708	<ul style="list-style-type: none"> <li>• Comfort</li> <li>• Supportive</li> <li>• Durable</li> <li>• Conform to shape of the foot to provide customised comfort</li> <li>• Reduce foot pain and fatigue</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for patient who spend long hours on their feet</li> <li>• Seeking additional comfort and support</li> <li>• Athletes and patients with active lifestyles</li> </ul>
PINK 94	<ul style="list-style-type: none"> <li>• Softer and lighter</li> <li>• Slow rebound properties</li> <li>• Allows for a more even distribution of body weight</li> </ul>	<ul style="list-style-type: none"> <li>• Patients who require extra comfort</li> </ul>
GREY 4000	<ul style="list-style-type: none"> <li>• Firm</li> <li>• High-energy return</li> <li>• Excellent impact absorption</li> </ul>	<ul style="list-style-type: none"> <li>• Patients who require superior comfort and support</li> <li>• Ideal for active patients</li> </ul>
DUAL 4000/94 (PINK / BLUE )	<ul style="list-style-type: none"> <li>• Combined durability and shock absorbing quality of Poron 4000 with the softness and comfort of Poron 94</li> <li>• Comes as an attractive pink/blue colour material</li> <li>• Unique technology that involves no laminates or adhesives</li> </ul>	<ul style="list-style-type: none"> <li>• For patients who require advanced protection against pressure points</li> </ul>



# BASE COVERS

Base covers are designed to add further protection to the orthotic and provide anti slip to prevent the orthotics moving in the shoe

## EVA

EVA is the most popular choice for a base cover.

- Ideal for everyday wear
- Additional comfort
- Provides additional durability

## IRON MAN

Iron man is a type of suede

- Anti slip to prevent movement in the shoe
- Harder wearing
- Incredibly thin - 0.9mm thickness
- Abrasion resistance

## SUEDE

All of our suede and leather materials are man-made and vegan friendly

- Responds well to body heat
- Durable
- Harder wearing than EVA
- Aesthetically pleasing - looks great on dress orthotics



## MATERIAL CARE

We recommend cleaning any orthotics with a clean cloth and warm water. Then leave to air-dry or pat dry with a paper towel.

Do not soak orthotics or dry them artificially.

## ADHESIVES

we use the industry leading glue manufacturer, Renia, for all our adhesives. All our adhesives are free of toluene and are specifically designed for orthotic manufacture

The glues we use provide a strong bond on all materials we use to manufacture our orthotics.

## MATERIALS CHOICE

Certain materials don't work well together. This can be due to the materials texture and how porous they are.

For example, poron and poly prop are difficult to adhere together. This is something you should take into consideration

There are sometimes stock issues in getting certain materials, so on these occasions we will use alternative materials which are still suitable and fit the needs of the patient

## ORTHOTIC LENGTH

So you know which material you need, but what about the device length?

### 3/4 LENGTH

This length of device ends near the metatarsal and is referred to as a 3/4 length or Met length device.

3/4 length orthotics are popular in dress shoes due to the slim design.

### SULCUS LENGTH

A sulcus length device extends under the ball of the foot and ends just before the toes. This is ideal for patients for wear high heel shoes or who need more comfort on the ball of the foot due to increased pressure.

### FULL LENGTH

A full length devices covers the entire foot from heel to toe and covers the entire base of the footwear. To accommodate a full length orthotic, it is advised that the insole inside the choice of footwear is removed before the orthotic is inserted.

Full length devices are some of our most popular devices used in a range of footwear from work boots, running shoes, hiking boots and even football boots. A full length device also has less chance of slipping within the shoe.



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