

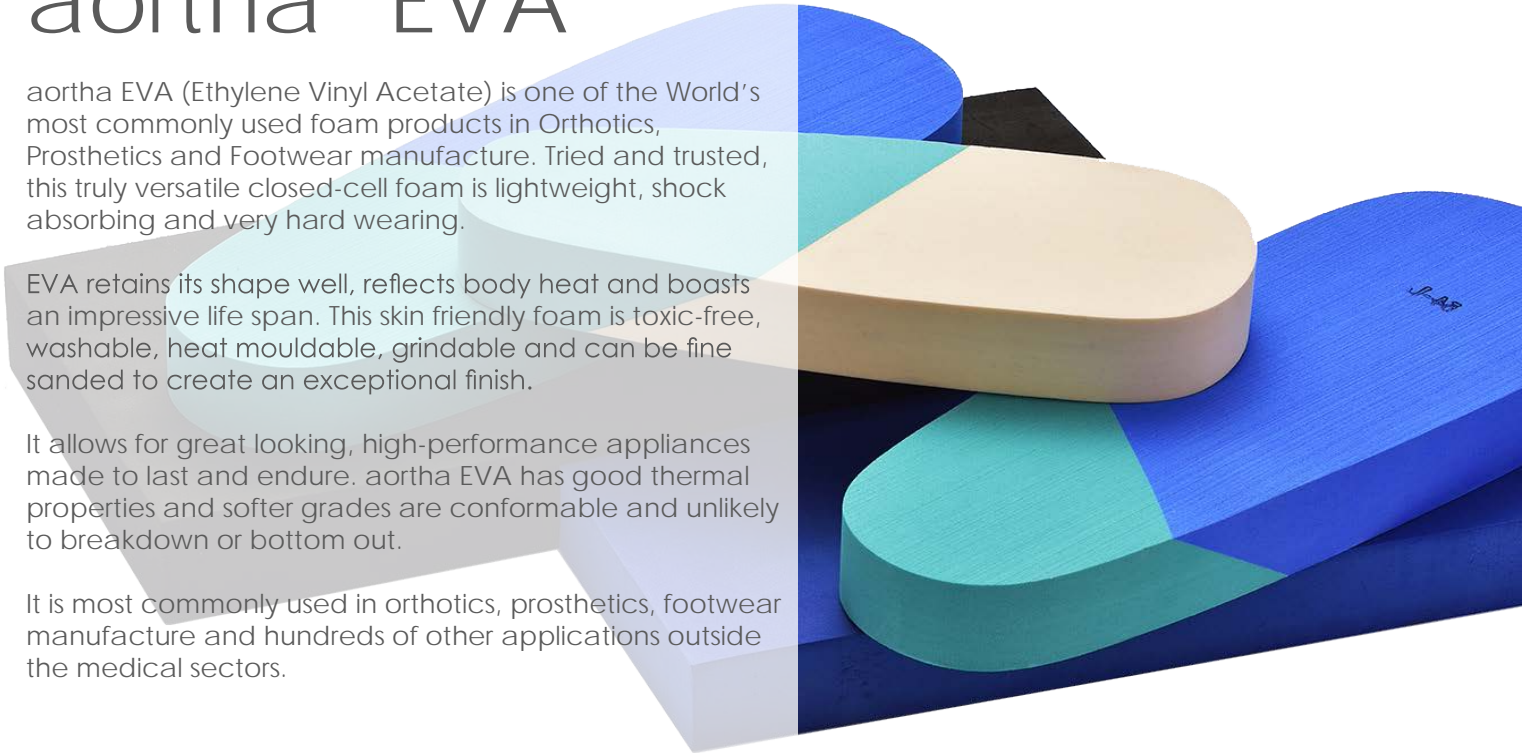
# aortha<sup>®</sup> EVA

aortha EVA (Ethylene Vinyl Acetate) is one of the World's most commonly used foam products in Orthotics, Prosthetics and Footwear manufacture. Tried and trusted, this truly versatile closed-cell foam is lightweight, shock absorbing and very hard wearing.

EVA retains its shape well, reflects body heat and boasts an impressive life span. This skin friendly foam is toxic-free, washable, heat mouldable, grindable and can be fine sanded to create an exceptional finish.

It allows for great looking, high-performance appliances made to last and endure. aortha EVA has good thermal properties and softer grades are conformable and unlikely to breakdown or bottom out.

It is most commonly used in orthotics, prosthetics, footwear manufacture and hundreds of other applications outside the medical sectors.



## EVA DENSITIES:

### aortha Low Density EVA.

Extremely versatile high quality EVA [Ethylene Vinyl Acetate] foam sheeting is used throughout the O&P, footcare and footwear trades for a variety of uses. Proven quality, used for orthotic linings, insole covers and prosthetic covers. Mouldable at between 120°C and 140°C depending on the sheet density, with an oven time of 2 minutes per mm.

### aortha Medium Density EVA

Hard wearing with very good abrasion resistant properties making it an ideal orthotic lining material. Mouldable between 120°C and 160°C depending on the sheet density with an average oven time of 2 minutes per mm.

Easy Mill is an EVA foam manufactured from a finer grade of EVA. When using Easy Mill EVA, the residue produced through the milling process is much finer than with standard EVA, meaning any build up is easily removed and easily extracted.

### aortha High Density EVA

Commonly used for shoe lifts, heel lifting, block heels, wedge bottoms, rigid insoles and a variety of commercial uses. Mouldable between 120°C and 170°C depending on the sheet density with an average oven time of 2 minutes per mm.

### aortha Multi-Colour EVA

Colourful EVA sheets ideal for coverings. It offers good force and pressure resistance.

### Bespoke Services:

Perforations, adhesive backing, custom sizes/thicknesses, lamination, CAM blocks, additional non-stock colours and density options. Bespoke orders are only available for sizable orders. For more information about EVA sheet sizes, colours, densities, pricing and minimum order quantities; contact [info@algeos.com](mailto:info@algeos.com).

LOW DENSITY  
SHORE:

**A25**

MEDIUM DENSITY  
SHORE:

**A50**

HIGH DENSITY  
SHORE:

**A65**

## Aortha® AirLite - Shore A18

AirLite EVA is a low density EVA foam, which is mouldable, finishes beautifully and has very good abrasion resistance properties making it an ideal orthotic lining material.



Aortha AirLite is priced economically against similar products.

### Product Features & Benefits:

- Lightweight.
- Comfortable underfoot.
- Easily fabricated, easy to work with.
- Non-clogging.
- Available in perforated format to allow for breathability and improved in-shoe airflow.
- Washable due to closed cell structure.

### Indications for Use:

- Cushioning insoles and orthotic top covers.
- Ideal for linings in diabetic and rheumatoid shoes.
- Prosthetic linings.
- Orthopaedic linings.
- AFO interfaces.

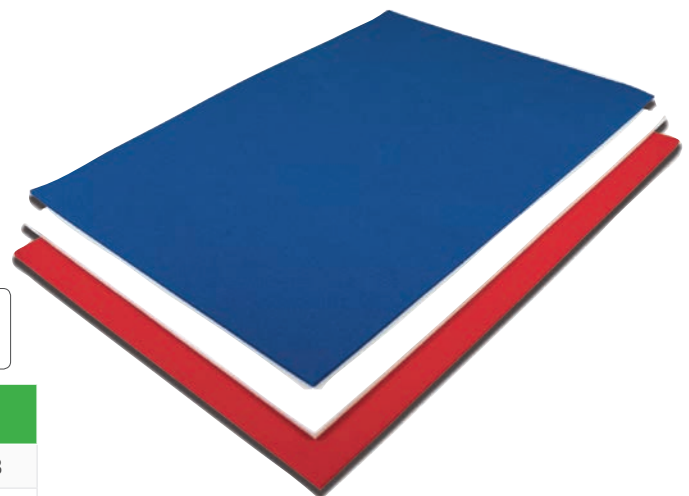


Thickness/Colour	Standard	Perforated
1000mm x 1000mm x 2mm	OG3266	OG3272
1000mm x 1000mm x 3mm	OG3265	OG3275
1000mm x 1000mm x 4mm	OG3267	OG3273
1000mm x 1000mm x 6mm	OG3268	OG3274
1000mm x 1000mm x 8mm	OG3269	-
1000mm x 1000mm x 10mm	OG3270	-
1000mm x 1000mm x 12mm	OG3271	-

## Algefoam - Shore A18

Algefoam is a low density EVA foam which is **easily mouldable at 140°C** and conforms well to deep heel cups.

It is hard wearing with excellent abrasion resistant properties, making it an ideal orthotic lining material.



Thickness/Colour	Red	Blue	White
2000mm x 1000mm x 3mm	ON1323	ON1313	ON1303
2000mm x 1000mm x 6mm	ON1326	ON1316	ON1306
2000mm x 1000mm x 12mm	ON1328	ON1318	ON1312

## Orthashock Slow Memory EVA - Shore A25

Shock absorbing, high restoration capabilities, cost effective.

Orthashock is produced from a slow memory, closed-cell EVA which has been transformed by compression giving it great shock absorbing properties - suitable for areas that must remain free of pressure.

Orthashock is a highly versatile and malleable material perfect for developing orthopaedic aids. It boasts lightweight, durable and thermoformable properties that allow bespoke applications fulfilling the needs of each consumer, without losing its delayed recovery characteristics.

### Applications:

Insoles, orthotic paddings - heel and forefoot cushioning; AFO interfaces, orthotic top covers, mid layer orthotics and leisure padding for contact sport.

### Product Features & Benefits:

- Skin friendly - non toxic.
- Washable.
- Thermoformable.
- Malleable - highly customisable to suit the needs of the consumer.
- Closed-cell structure - retains rebound properties throughout use.
- Flexible and lightweight.
- Superb strength and tear resistance.
- Smooth finish providing long lasting comfort.
- Excellent shock absorption and rebound properties.
- Water resistant.
- Application versatility.
- Durable - withstands daily wear.
- Cost effective.
- Hygienic and disinfectable due to closed-cell structure.

### Technical Specifications:

- **Density:** (g/cm<sup>3</sup>) 0.20 ± 0.03.
- **Hardness:** (\*Sh A) 22 ± 5.

\*tests performed on a 20mm thickness sample.

**Sheet Size:** 950mm x 950mm.



Thickness/Colour	Blue
1.5mm	OB2950
3mm	OB2951
6mm	OB2952
9mm	OB2953

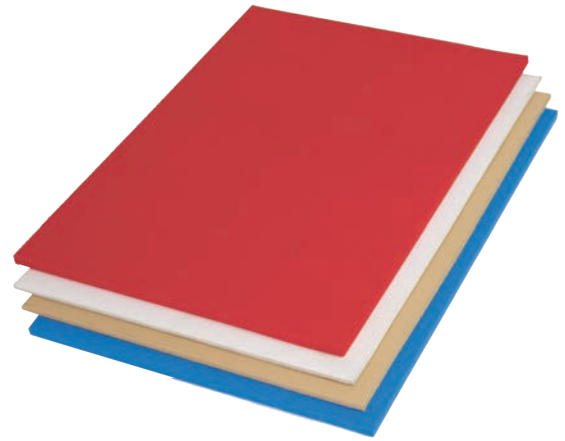
## Aortha® LD EVA - Shore A25

Low density. Extremely versatile high quality EVA foam sheeting is used throughout the orthotics, prosthetics, footcare and footwear trades for a variety of uses.

Mouldable between 120°C and 140°C depending on the sheet density, with an oven time of 2 minutes per mm.

**Note:**

Neon pink and vibrant blue colours are Shore A30.



A30

A30

Thickness/Colour	White	Blue	Black	Grey	Red	Beige	Neon Pink	Vibrant Blue
1000mm x 1000mm x 1mm	OG1348	OG1320	OG1691	OG9092	OG1319	OG1272	OG1854	OG1847
1000mm x 1000mm x 3mm	OG1344	OG1346	OG1397	OG1674	OG1347	OG1259	OG1855	OG1848
1000mm x 1000mm x 5mm	OG1345	OG1299	OG1686	OG1676	OG1356	OG1245	OG1856	OG1849
1000mm x 1000mm x 6mm	OG1341	OG1352	OG1694	OG1677	OG1357	OG1279	OG1857	OG1850
1000mm x 1000mm x 10mm	OG1330	OG1331	OG1696	OG1684	OG1332	OG1254	OG1858	OG1851
1000mm x 1000 mmx 12mm	OG1339	OG1342	OG1697	OG1620	OG1338	OG1286	OG1859	OG1852
1000mm x 1000mm x 15mm	OG1335	OG1336	OG1698	OG1618	OG1337	OG1271	OG1861	OG1853

## Aortha® MLD EVA - Shore A35



Thickness/Colour	White	Blue	Black
1010mm x 980mm x 1mm	OG2187	OG2196	OG2111
1010mm x 980mm x 3mm	OG2069	OG2192	OG2113
1010mm x 980mm x 5mm	OG2189	OG2121	OG2119
1010mm x 980mm x 6mm	OG2071	OG2123	OG2116
1010mm x 980mm x 10mm	OG2072	OG2129	OG2124
1010mm x 980mm x 12mm	OG2108	OG2125	OG2122
1010mm x 980mm x 15mm	OG2109	OG2127	OG2110

**Density (kg/m<sup>3</sup>)**

- A25 = 150
- A35 = 210
- A50 = 340
- A65 = 470



## Aortha® MD EVA - Shore A50

Medium density. Mouldable between 120°C and 160°C depending on density with an average oven time of 2 minutes per mm.

Robust but comfortable base and midsole material designed to last and endure.

This skin friendly foam is toxic-free, washable, heat mouldable, grindable and can be fine sanded to create an exceptional finish.

Sheet sizes are listed in the table below except for the following colours:

**Pink and vibrant blue** colour sheet size: 1000mm x 920mm.

**Purple:** 1150 x 920mm.



Thickness/Colour	White	Blue	Black	Brown	Red	Beige	Purple	Neon Pink	Vibrant Blue
1010mm x 980mm x 1mm	OG1127	OG1137	OG1311	OG1100	OG1147	OG1741	OG1579	OG1821	OG1808
1010mm x 980mm x 3mm	OG1124	OG1134	OG1304	OG1114	OG1592	OG1743	OG1570	OG1824	OG1809
1010mm x 980mm x 5mm	OG1119	OG1290	OG1317	OG1661	OG1149	OG1746	OG1575	OG1833	OG1810
1010mm x 980mm x 6mm	OG1120	OG1130	OG1300	OG1110	OG1140	OG1746	OG1574	OG1834	OG1811
1010mm x 980mm x 10mm	OG1122	OG1132	OG1302	OG1112	OG1142	OG1750	OG1572	OG1835	OG1814
1010mm x 980mm x 12mm	OG1123	OG1133	OG1303	OG1113	OG1143	OG1752	OG1573	OG1836	OG1816
1010mm x 980mm x 15mm	OG1823	OG1664	OG1822	OG1199	OG1145	OG1753	OG1830	OG1837	OG1818

## Aortha® HD EVA - Shore A65

Shore A65 high density EVA is commonly used for shoe lifts, heel lifting, block heels, wedge bottoms, rigid insoles, and a variety of commercial uses.

Mouldable between 120°C and 170°C depending on density with an average oven time of 2 minutes per mm.



Thickness/Colour	White	Blue	Black	Beige	Red
1000mm x 800mm x 1mm	OG1641	OG1521	OG1539	OG1811	OG1616
1000mm x 800mm x 3mm	OG1558	OG1527	OG1544	OG1783	OG1531
1000mm x 800mm x 4mm	OG1517	OG1634	OG1545	OG1283	OG1534
1000mm x 800mm x 6mm	OG1516	OG1526	OG1546	OG1786	OG1536
1000mm x 800mm x 8mm	OG1518	OG1528	OG1548	OG1788	OG1538
1000mm x 800mm x 10mm	OG1520	OG1530	OG1550	OG1790	OG1540
1000mm x 800mm x 12mm	OG1522	OG1532	OG1552	OG1792	OG1542
1000mm x 800mm x 16mm	OG1557	OG1610	OG1553	OG1645	OG1637

## Aortha® Multi-Colour EVA

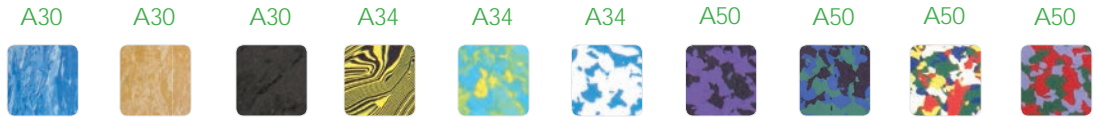
The colourful EVA foams range is ideal for covers when manufacturing children's devices.

Aortha Multi-Colour EVAs are heat mouldable between 120°C and 180°C depending on density with an average oven time of 2 minutes per mm.

Applications include insole covers, orthotic linings, prosthetic linings, paediatric helmets, AFOs, and orthopaedic shoes.

**Note:**

Sheet sizes may vary from description. See price list for exact specification.



Colour / Thickness	Blue Light Blue	Beige	Black Grey	Black Yellow	Yellow Blue	Blue White	Black Purple	Green Blue	Yellow Green	Red Green
1000mm x 1000mm x 1mm	OG2086	OG2093	OG2350	OG2379	OG2378	OG2315	OG2375	OG2373	OG2377	OG2372
1000mm x 1000 x 2mm	OG2087	OG2094	OG2380	OG1993	OG2389	OG1991	OG2321	OG2356	OG2324	OG2384
1000mm x 1000mm x 3mm	OG2088	OG2095	OG2102	OG2418	OG1996	OG2310	OG2344	OG2395	OG2390	OG2406
1000mm x 1000mm x 5mm	OG2090	OG2097	OG2323	OG2419	OG2415	OG2400	OG2332	OG2405	OG2319	OG2317
1000mm x 1000mm x 8mm	OG2092	OG2099	OG2103	OG2339	OG2334	OG2416	OG2333	OG2337	OG2338	OG2335
1000mm x 1000mm x 12mm	OG2085	OG2084	OG2105	OG2364	OG2340	OG2417	OG2353	OG2357	OG2353	OG2355

## Pe-Lite Foam - Shore A30 & A45

Pe-Lite is an expanded cross-linked polyethylene foam material. It is lightweight, soft to the touch, moisture resistant and provides comfortable all round cushioning.

It is commonly used for lower-limb prosthetics - generally as a cushioning inner liner between the stump and the socket. Can also be used for foot orthotics and orthotic linings.

Typically used in 3mm, 5mm or 8mm thickness. Pe-Lite moulds under heat and pressure to conform to the inside socket shape.



Thickness/Colour	A45 Beige	A30 Beige
975mm x 1000mm x 3mm	ON2103	ON2403
975mm x 1000mm x 5mm	ON2105	ON2405
975mm x 1000mm x 8mm	ON2106	ON2408
975mm x 1000mm x 13mm	ON2113	ON2413
975mm x 1000mm x 18mm	ON2118	ON2418

## Aortha® EVA for CAD-CAM

Aortha EVA CAD-CAM Blocks are truly versatile and offer full manufacturing flexibility. Devices manufactured from EVA foam are lightweight, shock absorbing and very hard wearing. EVA orthotics also retain their shape and reflect body heat.

EVA is an excellent material for use as an appliance base for a covered CAD-CAM foot orthotic or alone as the finished device. A higher density gives more control of the foot whilst lower densities offer increased comfort.



### Stock CAD-CAM EVA Blocks

Code	Colour	Thickness	Shore	Size
OG6100	Black	40mm	A50	800mm x 500mm
OG7487	Blue	40mm	A50	398mm x 298mm
OG7008	Blue	35mm	A50	800mm x 370mm
OG6127	Red	40mm	A25	398mm x 298mm
OG6162	White	35mm	A50	395mm x 295mm
OG6130	Beige	45mm	A30	800mm x 500mm
OG6137	Black	35mm	A35	395mm x 295mm
OG6154	Blue	40mm	A50	395mm x 295mm
OG6155	Blue	35mm	A50	395mm x 295mm
OG6112	Blue	35mm	A50	398mm x 298mm
OG6173	Black	40mm	A50	360mm x 310mm
OG6102	Black	40mm	A50	385mm x 310mm
OG6103	Black	35mm	A50	395mm x 295mm
OG6157	Red	35mm	A50	395mm x 295mm
OG6169	Black	35mm	A65	395mm x 295mm

#### Bespoke Services:

- Cut to size.
- Adhesive backing.
- Shape cutting.
- Jig holes.
- Jumbo blocks for large mills.



#### About Easy-Mill EVA:

Easy-Mill is an EVA foam manufactured from a finer grain of EVA.

When using Easy-Mill EVA, the residue produced through the milling process is much finer than with standard EVA. This means any build up is easily removed.

Easy-Mill EVA is not as durable as our standard EVA, however, it is milled in exactly the same way and will produce quality applications.

### Stock CAD-CAM EVA Blocks (Easy-Mill)

Code	Colour	Thickness	Shore	Size
OG7141	White	35mm	A25	395mm x 295mm
OG7142	Beige	35mm	A25	395mm x 295mm
OG7143	Blue	35mm	A35	395mm x 295mm
OG7181	Blue	35mm	A35	395mm x 295mm
OG7154	Blue	40mm	A35	395mm x 295mm
OG7158	Blue	35mm	A50	395mm x 295mm
OG7179	Red	35mm	A65	395mm x 295mm
OG7177	Red	35mm	A65	395mm x 295mm

## Aortha<sup>®</sup> EVA Die-Cuts for CAD-CAM

Aortha EVA materials are also available as die-cut orthotic blanks aka: duck shapes. Duck shapes are available in different densities and colours to suit your requirements. They will fit most existing milling systems or can be used with your own custom system.

Blanks can be secured to milling stations using double-sided tape or your own milling adapter frame.

### Easy-Mill EVA Die-Cuts

Code	Shore	Size	Thickness	Colour
OG7221	A25	Small	35mm	White
OG7222	A25	Medium	35mm	White
OG7223	A25	Large	35mm	White
OG7226	A25	Small	35mm	Black
OG7227	A25	Medium	35mm	Black
OG7228	A25	Large	35mm	Black
OG7205	A35	Small	35mm	Blue
OG7206	A35	Medium	35mm	Blue
OG7207	A35	Large	35mm	Blue
OG7261	A50	Small	35mm	Blue
OG7262	A50	Medium	35mm	Blue
OG7263	A50	Large	35mm	Blue
OG7321	A65	Small	35mm	Red
OG7322	A65	Medium	35mm	Red
OG7323	A65	Large	35mm	Red



### Standard EVA Die-Cuts

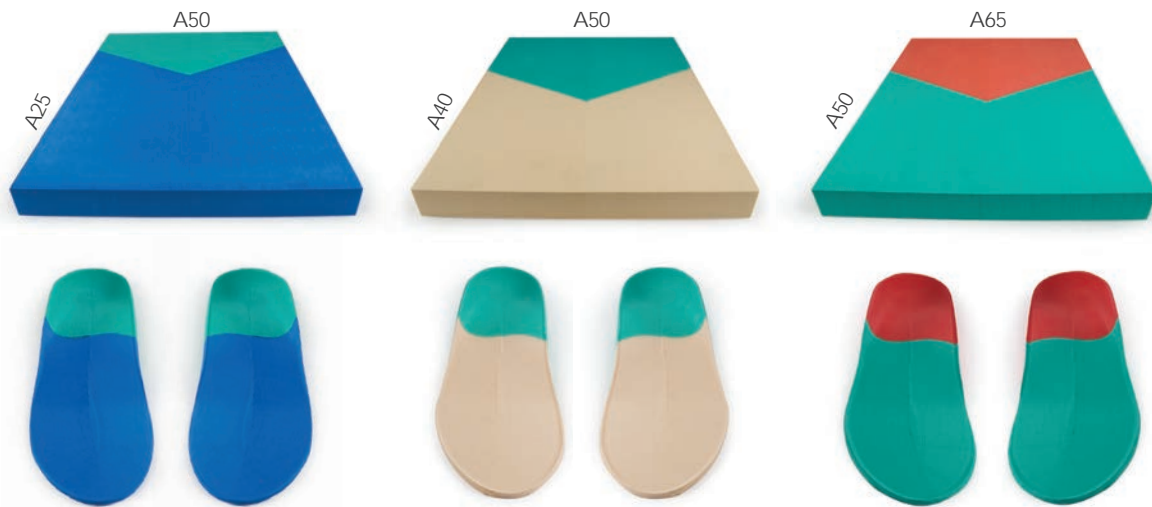
Code	Shore	Size	Thickness	Colour
OG6221	A25	Small	35mm	White
OG6222	A25	Medium	35mm	White
OG6223	A25	Large	35mm	White
OG6205	A35	Small	35mm	Blue
OG6206	A35	Medium	35mm	Blue
OG6207	A35	Large	35mm	Blue
OG6215	A35	Small	35mm	Black
OG6216	A35	Medium	35mm	Black
OG6217	A35	Large	35mm	Black
OG6261	A50	Small	35mm	Blue
OG6262	A50	Medium	35mm	Blue
OG6263	A50	Large	35mm	Blue
OG6265	A50	Small	35mm	Black
OG6266	A50	Medium	35mm	Black
OG6267	A50	Large	35mm	Black

Blanks Size Guide		
Blank Size	Shoe Size	Dimensions
Small	3 - 5	275mm x 107mm
Medium	6 - 10	312mm x 123mm
Large	11+	340mm x 127mm

## Dual Density EVA Blocks

As part of our extensive Aortha CAD-CAM range we also offer Dual Density EVA Blocks. Dual Density combinations enable quick and efficient manufacturing of dual density, multi-functional foot orthotics.

The combination of medium and low densities enables more choice and greater functionality of the finished foot orthotic. The higher density gives more control of the foot whilst lower densities offer increased comfort.



## Easy-Mill EVA Die-Cuts

Code	Shore	Size	Thickness	Colour
OG6561	A25/A50	400mm x 300mm	33mm	Blue/Green
OG6563	A40/A50	400mm x 300mm	33mm	Beige/Green
OG6565	A50/A65	400mm x 300mm	33mm	Green/Peach

Dual Density Blocks are manufactured from Easy-Mill Grade EVA as standard.

Easy-Mill is an EVA foam manufactured from a finer grain of EVA. When using Easy-Mill EVA, the residue produced through the milling process is much finer than with standard EVA, meaning any build up is easily removed.

## Stock CAD-CAM EVA Trapezoids

Materials sold with some CAD-CAM systems (some under contract) can be very expensive and restrictive in hindering your design flexibility. Aortha materials provide you with full design flexibility, a vast choice of material combinations and most importantly, major cost savings.

Specially designed, high quality EVA CAD-CAM blocks available in multiple densities. Aortha EVA CAD-CAM blocks are versatile and easy to use.

**Dimensions:** Top 128mm, Sides 338mm, Bottom, 146mm (Fit most common mills used).

Item Code	Shore	Thickness	Colour
OG6235	A50	35mm	Blue
OG6240	A65	35mm	Red
OG7083	A50	35mm	Black
OG6247	A35	33mm	Beige
OG6237	A35	35mm	Beige
OG7089	A50	35mm	Beige
OG6236	A30	35mm	Beige





## Multi-Density Orthotic Blanks

In addition to the single density blanks duck shapes (see page 399), we can also offer 'dual' and 'tri' density blanks that will enable you to take full advantage of your existing CAD-CAM milling equipment.

As with a casted device, different densities of EVA are used to increase the functionality or give cushioning and support.

The individual pieces are combined to offer a wide choice for the clinical prescription. A higher density gives more control of the foot while lower densities offer increased comfort, making dual or tri-density materials an excellent choice for patients with multiple needs.

Multi-Density Blocks are manufactured from Easy-Mill EVA as standard.



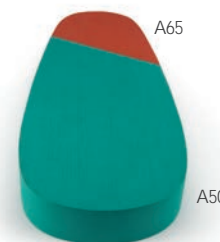
### Blue/Green

Code	Shore	Size	Thickness	Colour
OG6401	A25/A50	Small	35mm	Blue/Green
OG6402	A25/A50	Medium	35mm	Blue/Green
OG6403	A25/A50	Large	35mm	Blue/Green



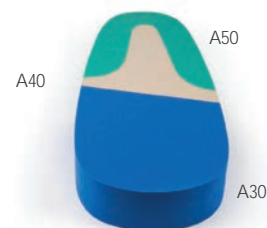
### Green/Peach

Code	Shore	Size	Thickness	Colour
OG6441	A50/A65	Small	35mm	Green/Peach
OG6442	A50/A65	Medium	35mm	Green/Peach
OG6443	A50/A65	Large	35mm	Green/Peach



### Blue/Yellow/Green

Code	Shore	Size	Thickness	Colour
OG6501	A30/A40/A50	Small	35mm	Blue/Beige/Green
OG6502	A30/A40/A50	Medium	35mm	Blue/Beige/Green
OG6503	A30/A40/A50	Large	35mm	Blue/Beige/Green



#### Blanks Size Guide

Blank Size	Shoe Size	Dimensions
Small	3 - 5	275mm x 107mm
Medium	6 - 10	312mm x 123mm
Large	11+	340mm x 127mm

## Algecork for CAD-CAM

Algecork is a medium density EVA material that contains granulated cork. The resilient material can be used for many applications and is particularly suited to producing foot cradles.

- Lightweight.
- Resilient.

Code	Shore	Size	Thickness	Colour
OG6332	A50	395mm x 295mm	35mm	Beige



## PU CAD-CAM Blocks

PU (Polyurethane) is a resilient, comfortable and durable material making it ideal for use in producing orthotics. PU material has excellent abrasion and tear resistance and demonstrates very high impact resistance and toughness whilst providing comfort and stability for your patient.

The PU material is ideal for patients requiring superior shock absorption, comfort and cushioning.

PU is proven to reduce and transfer unwanted pressure from prominent bony structures.

PU is 50% more shock absorbing than EVA and the low compression adds to the shock absorbing durability of the material.

Code	Shore	Size	Thickness	Colour
OG6680	A40-45	398mm x 298mm	40mm	Black
OG6679	A30-35	398mm x 298mm	40mm	Black



## MDF for CAD-CAM

MDF is rigid, durable and easily milled. As the MDF block is an engineered wood there are no knots or rings so your final insert will be strong and smooth. Also, as MDF has no grain it can be drilled, machined and filed without damaging the surface.

MDF is also commonly used to mill 'positive' casts for bespoke orthotic production.

Code	Size	Thickness	Colour
OG6209	440mm x 295mm	40mm	Beige
OG6210	395mm x 295mm	40mm	Beige



## Plastazote®

Plastazote foams have widespread uses in orthotics, prosthetic linings and foot care appliances. A thermoplastic polyethylene foam, Plastazote is easily heat moulded (85-140°C) and will adhere to most materials.

Its unique cross-linked construction and non-toxicity have established Plastazote as standard for orthotic linings. It is readily washable, discourages bacteria growth and has excellent thermal properties. Medical application areas include: orthotics, splinting, seating, collars, prosthetic padding and protective equipment.

### Bespoke Services:

- Cut to size.
- Perforations.
- Adhesive backing.
- Shape cutting.
- Sheet lamination.

## Plastazote® Sheets

Grade	Sheet Size	Colour		3mm	6mm	12mm	25mm
LD24	1000mm x 2000mm	White	○	ON1032	ON1034	ON1038	ON1040
LD24	1000mm x 2000mm	Black	●	ON1045	ON1043	ON1041	ON1042
LD33	1000mm x 2000mm	Lilac	●	ON1181	ON1183	ON1188	ON1187
LD33	1000mm x 2000mm	Black	●	ON3003	ON3006	ON3009	ON3013
LD45	1000mm x 1500mm	Blue	●	ON1153	ON1156	ON1158	ON1152
LD45	1000mm x 1500mm	Black	●	ON1154	ON1157	ON1159	ON1160
LD45	1000mm x 1500mm	Red	●	ON1143	ON1146	ON1148	ON1149
LD45	1000mm x 1500mm	White	○	ON1103	ON1106	ON1108	ON1109
LD45	1000mm x 1500mm	Pink	●	ON1113	ON1116	ON1117	ON1119
LD60	900mm x 1800mm	White	○	ON1091	ON1092	ON1094	ON1098
LD60	900mm x 1800mm	Black	●	ON1189	ON1190	ON1194	ON1191
HD115	680mm x 1000mm	Black	●	ON1073	ON1074	ON1078	-
HD115	680mm x 1000mm	White	○	ON1083	ON1084	ON1086	-

## Plastazote® CAD-CAM Blocks

Code	Density	Size	Thickness	Colour
ON2501	LD24	378mm x 298mm	35mm	White
ON2502	LD24	395mm x 295mm	35mm	Black
ON2503	LD45	395mm x 295mm	35mm	White
ON2504	LD45	395mm x 295mm	35mm	White
ON2508	LD45	395mm x 295mm	35mm	Black
ON2512	LD60	395mm x 295mm	35mm	Black
ON2514	LD60	378mm x 298mm	35mm	White
ON2522	HD80	395mm x 300mm	35mm	Black
ON2515	HD115	378mm x 298mm	21mm	White
ON2528	HD115	398mm x 298mm	21mm	Black

Density	Grade	Density
LD24	Soft	24Kg/m3
LD33	Med Density	33Kg/m3
LD45	Firm	45Kg/m3
LD60	Very Firm	60Kg/m3
HD115	Rigid	115Kg/m3



Material characteristics sheets available on request and online

## Evazote EV50

Evazote is a closed cell, cross-linked ethylene vinyl acetate copolymer block foam manufactured using Zotefoams unique production process.

Similar to LD24 Plastazote but more resistant in abrasive applications.

Evazote is elastic, durable, resilient under repeated impact, has excellent insulating properties, and is slip resistant.

Sheet Size: 1000mm x 1500mm.



Colour / Thickness	Black	Blue	White	Grey
3mm	ON1066	ON1052	ON1056	ON1063
6mm	ON1067	ON1054	ON1058	ON1065
12mm	ON1068	ON1053	ON1059	ON1062



For additional thickness options, please contact us.



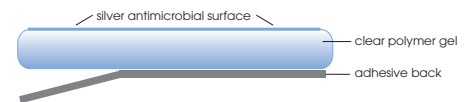
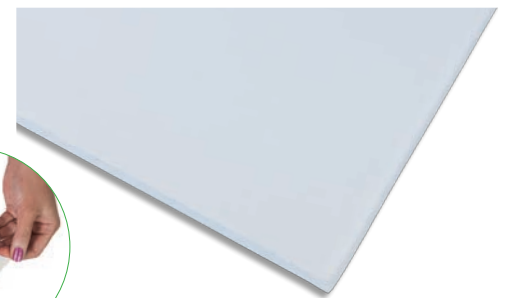
## Podotech® Peel & Stick Gel

Podotech Peel & Stick Gel is a low durometer comfort gel sheet with a revolutionary adhesive backing. The material also incorporates the unique antimicrobial properties of silver. Constructed from a hydrophilic film, silver ions work to prevent the regeneration of bacteria through diffusion from the surface area of the padding.

### Product Features & Benefits:

- Peel & stick: specific spot placement, reusable adhesion.
- Polyurethane gel: low durometer, low cost, and high performance.
- Trim to fit: cut with scissors for custom parts, die-cut full insole liners, gel will not leak.

Code	Sheet Size	Thickness
OB2809	406mm x 457mm	2mm



## Podotech® PORON® Gel

This new innovative PORON material is laminated to a polymer gel sheeting to combine the ingenious qualities of both materials for superior foot care.

The bottom layer is made from PORON medical grade urethane. The material is blue in colour and designed to reduce impact to the feet and joints by providing advanced shock absorption and increased cushioning support.

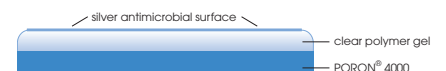
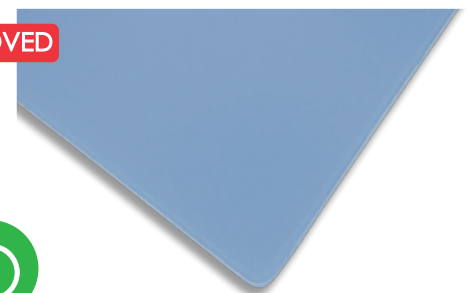
The top layer of this dual material is a clear gel panel, which acts like human fatty tissue to cushion bony protrusions and pressure sensitive skin. The gel displaces weight evenly thus preventing the focus of pressure on one area alone.

Code	Sheet Size	Thickness
OB2808	406mm x 457mm	3mm

IMPROVED



Workshop Efficiency Solution



## Aortha® Thermofelt

Thermofelt consists of two layers of fibre needled together. The structure at the bottom is vacuumed into a hardened shape, heat moulded around plaster cast, and is adapted to obtain therapeutically effective support relief. The top layer is shock absorbent, and the surface in contact with the skin and textiles is pleasantly soft and warm.

Thermofelt is extraordinarily versatile. Processing is simple and requires no specialist tools or equipment. The material is simply cut, heated and vacuum moulded.

### Product Features & Benefits:

- Breathable.
- Diverts moisture.
- Washable and hygienic.
- Moulds perfectly.

### Applications for Use:

- Can be used for insoles, jackets, AFOs & splints.



Technical information and usage advice is available upon request.

## Thermofelt Duck Shapes

Code	Size	Thickness	Colour
LA7871	Small	12mm	Grey
LA7872	Medium	12mm	Grey
LA7873	Large	12mm	Grey
LA7874	X-Large	12mm	Grey
LA7875	XX-Large	12mm	Grey

## Thermofelt Sheets

Code	Size	Thickness	Colour
LA7862	1000mm x 1300mm	12mm	Grey

## Orthotic Felt

High quality wool based felt for use in orthotic manufacture.

Code	Size	Thickness	Colour
LA3666	1000mm x 1900mm	4.8mm	White
LA3673	1000mm x 1800mm	6.4mm	Grey





PORON Performance Cushioning brings long-lasting comfort and high performance shock absorption in a durable material that withstands even the toughest daily wear. In side-by-side comparison with other typical insole materials, PORON Performance Materials exhibit how they have been engineered to provide maximum repeated shock absorption from minimum thickness.

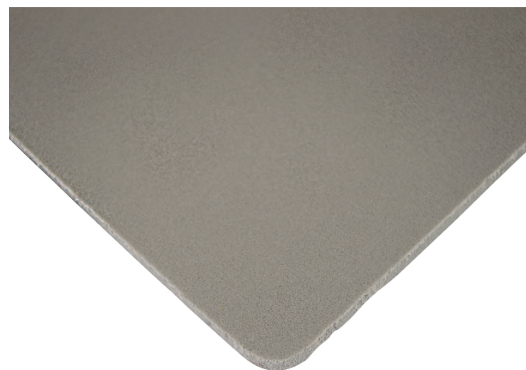
## PORON® 4000 - Grey (High Performance)

PORON 4000 is used in a wide variety of products. Its firmness offers high energy return and excellent impact absorption for demanding work outdoors, athletic and casual applications.

Footwear applications include footbeds, covered foot orthotics and sock liners.

### Bespoke Services:

- Cut to size.
- Lamination.
- Adhesive backing.
- Shape cutting.
- Covers for CAD-CAM.



## Smooth Surface

Code	Thickness	Sheet Size	Type
OB2160	1.6mm	1370mm x 1000mm	Smooth Surface
OB2162	3.2mm	1370mm x 1000mm	Smooth Surface
OB2164	6.35mm	1370mm x 1000mm	Smooth Surface



## Abraded Surface

Code	Thickness	Sheet Size	Type
OB2214	1.6mm	1370mm x 1000mm	2 Side Abraded
OB2213	3.2mm	1370mm x 1000mm	2 Side Abraded
OB2264	6.35mm	1370mm x 1000mm	2 Side Abraded
OB2261	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2263	3.2mm	1370mm x 1000mm	1 Side Abraded

## Perforated

Code	Thickness	Sheet Size	Type
OB2161	1.6mm	1370mm x 1000mm	Perforated
OB2169	3.2mm	1370mm x 1000mm	Perforated

## Adhesive Backed

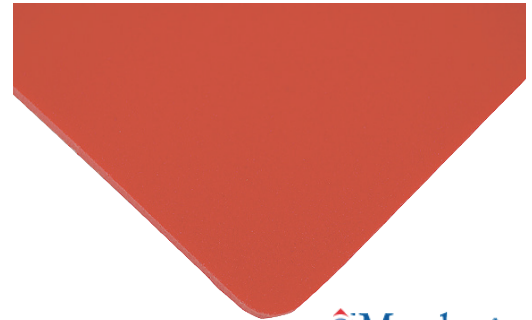
Code	Thickness	Sheet Size	Type
OB2166	1.6mm	1370mm x 1000mm	Adhesive Backed
OB2167	3.2mm	1370mm x 1000mm	Adhesive Backed

## PORON® 94 - Pink (Slow Memory)

PORON 94 sets a new level of advanced underfoot comfort technology. This material is a softer, lighter PORON with slower rebound properties.

### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2149	1.6mm	1370mm x 1000mm	Smooth Surface
OB2146	3.2mm	1370mm x 1000mm	Smooth Surface
OB2147	6.35mm	1370mm x 1000mm	Smooth Surface
OB2553	3.2mm	1370mm x 330mm	Smooth Surface
OB2556	6.35mm	1370mm x 330mm	Smooth Surface



### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2081	1.6mm	1370mm x 1000mm	2 Side Abraded
OB2143	3.2mm	1370mm x 1000mm	2 Side Abraded
OB2144	3.2mm	1370mm x 1000mm	1 Side Abraded
OB2084	4.8mm	1370mm x 1000mm	1 Side Abraded

## PORON® 92 - Red (Ultra Soft)

An extremely soft, slow rebound PORON. PORON 92 is a unique custom contouring material. This material rebounds slowly when compressed, which results in a custom fit or contour during each use.

### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2289	1.6mm	1370mm x 1000mm	Smooth Surface
OB2292	4.0mm	1370mm x 1000mm	Smooth Surface
OB2293	12.7mm	1370mm x 1000mm	Smooth Surface



### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2290	3.2mm	1370mm x 1000mm	1 Side Abraded
OB2291	6.35mm	1370mm x 1000mm	1 Side Abraded

## PORON® Dual Layer

This high performance urethane combines the durability and shock absorbing qualities of PORON 4000, with the softness and comfort of PORON 94, resulting in a superior dual layer foam.

PORON Dual Layer is formed by a unique patent-pending technology that involves no laminates or adhesives. This original method of manufacture creates a merged cell structure generating a strong bond between the two layers, making the material more durable.

Code	Thickness	Sheet Size	Type
OB2154	1.6mm	1370mm x 1000mm	Smooth Surface

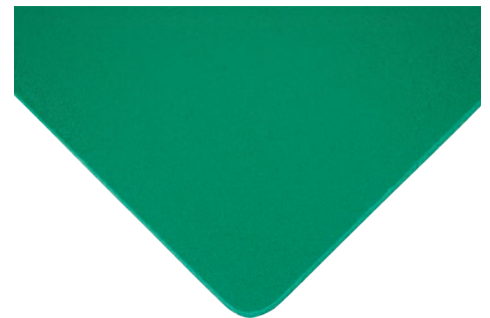


## PORON® 4400 Green

PORON 4400 offers anti-microbial protection. Unlike standard anti-odour insoles, PORON 4400 urethane doesn't just mask shoe odours. It stops the growth of odour causing bacteria and fungus, including the fungus that causes athlete's foot.

### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2172	1.6mm	1370mm x 1000mm	Smooth Surface
OB2173	3.2mm	1370mm x 1000mm	Smooth Surface
OB2174	6.35mm	1370mm x 1000mm	Smooth Surface



### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2295	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2296	3.2mm	1370mm x 1000mm	1 Side Abraded

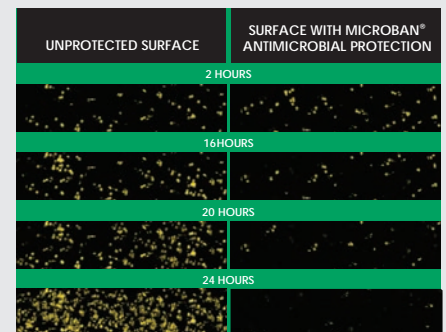
## Performance Cushioning with Microban®

All PORON cushioning materials with, Microban antimicrobial product protection, provides consistent, reliable, and long-lasting cushioning comfort from the inside-out.

Microban antimicrobial protection is infused into PORON cushioning for lasting protection that won't wash off or wear away for the lifetime of the foam, continually working to keep the material cleaner and fresher longer.

Recent tests showed that after 18 to 24 hours, PORON cushioning materials treated with Microban antimicrobial protection eliminated 99% of odour production, keeping materials fresher for longer.

PORON cushioning with Microban antimicrobial protection is a no cost, standard offering added to most PORON cushioning materials.



## PORON® Medical Urethanes

PORON Medical Urethanes offer a variety of formulations for lasting comfort and compression set resistance in diverse applications.

PORON Medical urethanes are engineered, medium density, microcellular (cells are roughly 100 microns) foam material. They are commonly used in orthopaedic and prosthetic applications, including custom orthotics, custom prefabricated orthotics, prosthetic padding and other biomechanical supports.

PORON urethanes are formulated to last. They contain no plasticisers or processing agents, and will not become brittle or crack with age. PORON materials pass both the Schwartz and Peck Human patch tests (for primary skin irritation).



## PORON® Onyx - Medical Grade

Its firmness offers high-energy return and excellent impact absorption for demanding in-shoe environments. Ideal for heavier patients and the highly active due to its excellent wear properties and overall resilience.

### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2085	9mm	1370mm x 1000mm	Smooth Surface

### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2086	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2087	3.2mm	1370mm x 1000mm	1 Side Abraded
OB2088	1.6mm	1370mm x 1000mm	2 Side Abraded
OB2089	3.2mm	1370mm x 1000mm	2 Side Abraded



## PORON® 96 - Patina - Medical Grade

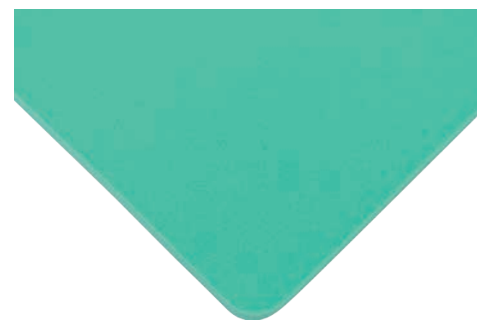
PORON Medical Slow Recovery Urethane is a unique custom contouring material. This material rebounds slowly when compressed, which results in a custom fit or contour during each use.

### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2273	3.2mm	1370mm x 1000mm	Smooth Surface
OB2275	6.35mm	1370mm x 1000mm	Smooth Surface

### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2272	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2273	3.2mm	1370mm x 1000mm	1 Side Abraded
OB2270	1.6mm	1370mm x 1000mm	2 Side Abraded
OB2271	3.2mm	1370mm x 1000mm	2 Side Abraded



## PORON® 4708 - Blue Medical Grade

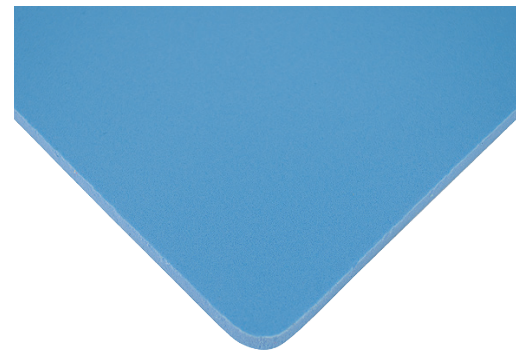
Specially developed for the footcare industry, blue PORON 4708 has passed numerous medical assessments for biological response. PORON 4708 is also approved by the American Podiatric Association.

### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2176	1.6mm	1370mm x 1000mm	Smooth Surface
OB2177	3.2mm	1370mm x 1000mm	Smooth Surface
OB2178	6.35mm	1370mm x 1000mm	Smooth Surface

### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2211	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2219	3.2mm	1370mm x 1000mm	1 Side Abraded
OB2210	1.6mm	1370mm x 1000mm	2 Side Abraded
OB2212	3.2mm	1370mm x 1000mm	2 Side Abraded



## PORON® Vive

Footwear incorporating Poron Vive technology harnesses energy from each step away from the body, and engages that energy to help push the wearer into their next step, helping to increase comfort and reduce fatigue.

- A dynamic open-cell foam technology that instantly reacts to every step.
- Over 55% ball rebound for powerful push offs and quick, responsive movements.
- Reduces and redirects shock forces away from the foot and delivers a "lift off" zone for maximum propulsion.
- Consistent resiliency and cushioning helps maintain an energy efficient stride and fights fatigue.
- Exclusively infused with Microban Antimicrobial Protection to fight the growth of odour and stain causing mould, bacteria and mildew.



### Smooth Surface

Code	Thickness	Sheet Size	Type
OB2023	4.0mm	1370mm x 1000mm	Smooth Surface

### Abraded Surface

Code	Thickness	Sheet Size	Type
OB2025	1.5mm	1370mm x 1000mm	1 Side Abraded



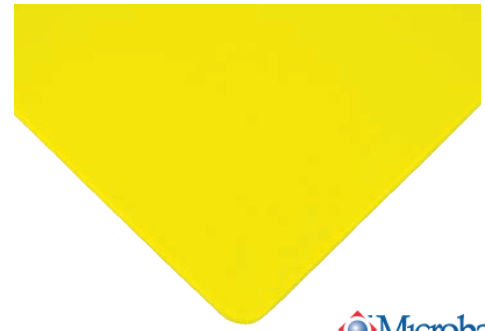
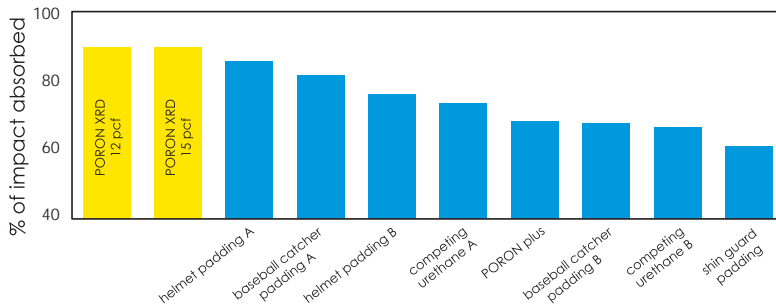
## PORON® XRD

PORON XRD is the choice for extreme impact protection. It is soft to the touch, lightweight, contouring, and testing confirms that it absorbs more than 90 percent of energy upon repeated impact.

It can be easily fabricated to suit a variety of applications and placements including: insoles, orthotic linings and orthopaedic appliances.

- Soft and contouring against the body, yet instantly dissipates force upon impact.
- Excellent compression-set resistance.
- Breathable.
- Contains Microban.

### XRD Performance Data:



## Yellow XRD - Abraded Surface

Code	Thickness	Sheet Size	Type
OB2216	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2318	3.0mm	1370mm x 1000mm	1 Side Abraded
OB2319	4.5mm	1370mm x 1000mm	1 Side Abraded
OB2320	6.0mm	1370mm x 1000mm	1 Side Abraded
OB2301	3.0mm	1370mm x 1000mm	2 Side Abraded
OB2302	6.0mm	1370mm x 1000mm	2 Side Abraded

## Black XRD - Abraded Surface

Code	Thickness	Sheet Size	Type
OB2093	1.6mm	1370mm x 1000mm	1 Side Abraded
OB2094	3.0mm	1370mm x 1000mm	1 Side Abraded
OB2095	4.5mm	1370mm x 1000mm	1 Side Abraded
OB2096	6.0mm	1370mm x 1000mm	1 Side Abraded
OB2091	3.0mm	1370mm x 1000mm	2 Side Abraded
OB2092	6.0mm	1370mm x 1000mm	2 Side Abraded



## PORON® LAMs

PORON LAMs are pre-laminated, combination sheets combining PORON and a selected range of popular covering fabrics. Designed to speed up your manufacturing processes, these carefully selected combination sheets are ready to be cut to shape to use straight off the shelf.

The combinations listed here are just a selection of Algeos' most popular LAMs.

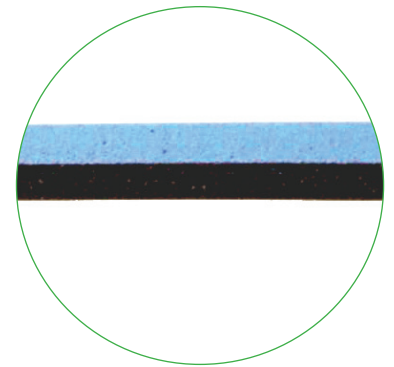
### Product Features:

- Everyday material combinations - tried and trusted.
- PORON - ensures high performance.
- Range of high quality covering materials to suit your needs.
- Microban infused PORON that lasts.

### Product Benefits:

- Increases manufacturing efficiency - speed up your processes.
- Long lasting for enduring appliances.
- Cost effective.
- No more mess and waste making your own combinations.
- Antimicrobial.

Sheet Size: 1000mm x 630mm.



Multi-layer means multifunctional material properties

## PORON® on Fabric

Code	PORON® Type	Cover Type	Thickness
OG9114	PORON 92	Black Lycra	3mm
OG9113	PORON 92	Black Juliana	3mm
OG9154	PORON 94	Navy Microfibre	3mm
OG9157	PORON 94	Black Lycra	3mm
OG9124	PORON 96	Black Lycra	3mm
OG9132	PORON Grey	Navy Juliana	3mm
OG9131	PORON Grey	Black Lycra	3mm
OG9104	PORON Blue	Navy Microfibre	3mm
OG9106	PORON Blue	Navy Microfibre	6mm
OG9138	PORON Grey	Silana Black	3mm
OG9128	PORON Grey	Black Yampi	3mm
OG9144	PORON Dual Layer	Black Lycra	4mm

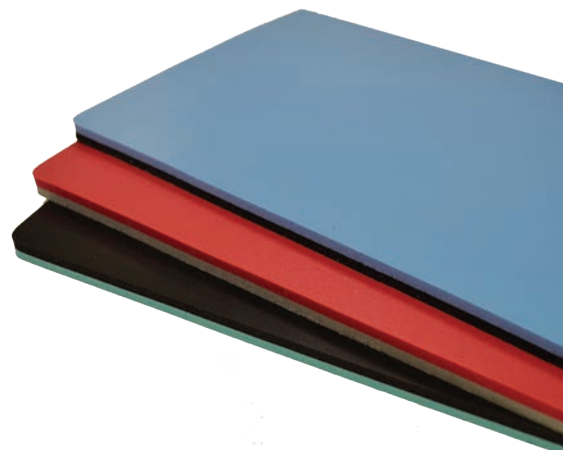


Workshop Efficiency Solution



## PORON® on PORON®

Code	Layer 1	Layer 2	Thickness
OG9178	PORON Grey	PORON Med Blue	3.2mm + 1.6mm = 4.8mm
OG9179	PORON Grey	PORON Green	3.2mm + 1.6mm = 4.8mm
OG9187	PORON Grey	PORON 94	3.2mm + 1.6mm = 4.8mm
OG9188	PORON Grey	PORON 92	3.2mm + 1.6mm = 4.8mm
OG9189	PORON Grey	PORON Blue	3.2mm + 3.2mm = 6.4mm
OG9190	PORON Grey	PORON Red	3.2mm + 3.2mm = 6.4mm
OG9191	PORON Grey	PORON Patina	3.2mm + 3.2mm = 6.4mm
OG9192	PORON XRD Black	PORON Blue	3.2mm + 1.6mm = 4.8mm
OG9193	PORON XRD Black	PORON Patina	3.2mm + 1.6mm = 4.8mm



## PORON® on Plastazote® LAMs

The combination of PORON and Plastazote provides combined cushioning and moulding properties. This unique combination consisting of Plastazote, with its proven therapeutic features and PORON, with its unique cushioning abilities gives you assurance in fabricating a long lasting product with multiple benefits for your patient.

Studies have shown that using PORON and Plastazote together are effective in reducing pressure and FTI (Force Time Integral) under the forefoot. Diabetic patients and patients with peripheral neuropathy will benefit hugely from insoles made from this combination as it reduces pressure and tissue damage.

### Product Features & Benefits:

- Benefits of two well-known materials combined into one.
- PORON - ensures high performance and unrivaled quality.
- Excellent cushioning and moulding properties.
- Ideal for total contact treatment.
- Reduce stock requirements.
- Save manufacturing time.
- Cost effective.

Sheet Size: 1000mm x 1370mm.

Code	PORON Type	Plastazote Type	Thickness
OB2643	PORON Blue 3.2mm	Pink LD45 3mm	3.2mm + 3mm = 6.2mm
OB2646	PORON Blue 3.2mm	Pink LD45 6mm	3.2mm + 6mm = 9.2mm
OB2641	PORON Blue 1.6mm	Pink LD45 3mm	1.6mm + 3mm = 4.6mm
OB2645	PORON Blue 3.2mm	Blue LD45 3mm	3.2mm + 3mm = 6.2mm
OB2644	PORON Grey 3.2mm	Blue LD45 3mm	3.2mm + 3mm = 6.2mm
OB2647	PORON Dual Layer 4mm	Pink LD45 2mm	4.0mm + 2mm = 6.0mm
OG9119	PORON Green 1.6mm	Blue LD45 3mm	1.6mm + 3mm = 4.6mm
OG9120	PORON Green 3.2mm	Blue LD45 3mm	3.2mm + 3mm = 6.2mm



Workshop Efficiency Solution

## PORON® Chairside Packs

PORON chairside packs help to improve chairside insole production efficiency and help minimise clinic/workshop waste.

The size of the packs are easier to store than standard sheets and are much more practical to work with when producing insoles and orthotic components.

Pack contains: 4 x Small Sheets of Poron (450mm x 250mm).

Code	PORON® Type	Thickness
OB2718	XRD Yellow	3.0mm
OB2732	XRD Black	3.0mm
OB2746	94 Pink	3.0mm
OB2754	Dual Layer	4.0mm
OB2760	4000 Grey	1.6mm
OB2762	4000 Grey	3.0mm
OB2776	4708 Medical Blue	1.6mm
OB2777	4708 Medical Blue	3.0mm
OB2790	92 Red	3.0mm



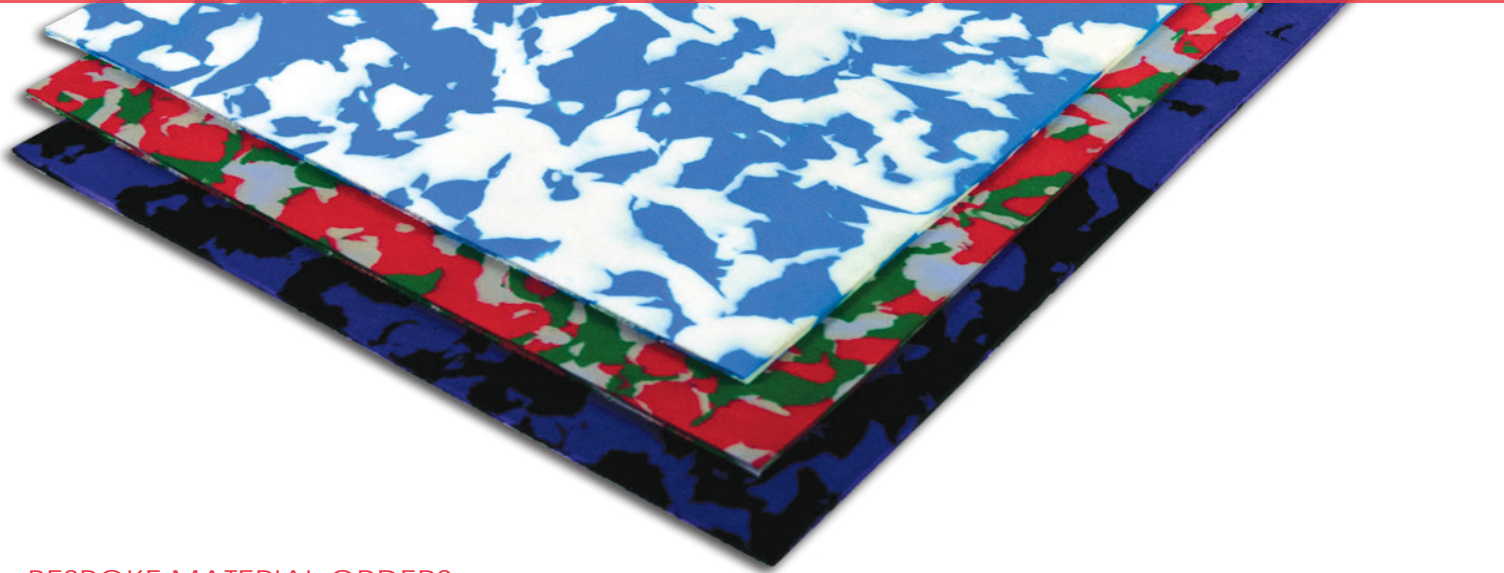
Workshop Efficiency Solution



# Algeos Services

Our aim is to become the World's number one 'one stop shop' for all workshop material requirements.

Algeos supplies and manufactures the widest range of appliance making materials available anywhere in the world, including foams, carbon-fibre composites, metal items and plastics. With our own in-house cutting, splitting, laminating and printing facilities, we are able to manufacture and convert materials to almost any specification.



## BESPOKE MATERIAL ORDERS

---

CAD-CAM has become more and more popular, and is now accepted as an efficient and effective way to design and manufacture custom appliances. Algeos understands that the raw material requirements for CAD-CAM differ to those from traditional orthopaedic and prosthetic manufacture. We therefore supply EVA, PU, plastics and other materials in various dimensions and densities which are better suited to this form of manufacture.

## LAMINATION

---

Algeos can now laminate sheet materials of your choice, supplied in several thicknesses, sizes and lamination variations to suit your manufacturing requirements. Need something to specification? PORON on EVA? A top cover on Plastazote? EVA on EVA even? If we don't already stock it, we can work with you to develop it.

## GLOBAL SOURCING

---

If you can't find a suitable product in our catalogue, please let us know - we may be able to help. Algeos is a specialist in sourcing and procurement and can supply materials and components in various designs, sizes, thicknesses and formats, that are not published in our catalogues. There isn't much we don't know about or can't acquire. Just ask us!

## TECHNOLOGY PARTNER

---

Algeos has partnerships both locally and globally with the worlds' most innovative and cutting-edge software and hardware providers for all aspects of biomechanical analysis and computer aided appliance manufacture. We can put you in touch with or supply you direct with everything from gait analysis systems to CAD-CAM milling systems.