



ACRYLIC 101, 115, 179

COMPOSITE FIBER FOOT ORTHOTIC SHELLS





# ACRYLIC

The ACRYLIC line summarizes self-supporting orthotic shells, which are available as flat pre-cuts in standardized outlines. They are ideally suited for producing manually manufactured foot orthoses. Perpedes' bestselling fiber composite materials with all their benefits are available for the ACRYLIC shells. Our composite fibers are PMMA (polymethyl methacrylate) made from acrylic resin with embedded carbon or glass fiber woven or knitted fabric, often in combination with polyamide.

	ORTHOTIC SHELLS		SHOE REINFORCEMENTS
	101	115	179
Available as pre-cut, flat / non-shaped shell (medium width)	✓	✓	✓
Extra wide outline	✓		
Long motion-limiting splint for MTP 1 (Hallux limitus)		✓	
Shoe / insole reinforcement / stiffener			✓
Made of glass fiber composite material (G43130, 1.4-1.8mm) knitted, semi-rigid	✓		
Made of glass fiber composite material (G42230, 2.2-2.5mm) knitted, rigid	✓	✓	
Made of black glass fiber composite material (BF7003, 1.9-2.3mm) woven fabric, rigid			✓

## CHARACTERISTICS

Thin and light weight, therefore suitable for footwear that is limited in space

Durable

Rigid or flexible, depending on textile type and thickness

Non-shaped / flat shells available, for easy processing in orthotic labs

Available in various pre-defined outlines, e.g. as 3/4 shells with/without rigidus splints

For special outlines or sizes, Perpedes' composite fiber materials are either available in sheets or in customized outlines

Also suitable and available as pre-cut reinforcing layers in footwear, e.g. for diabetics and safety shoes (item no. 179)

## PROCESSING

Wooven and knitted glass / carbon textile have different properties that define the thermalmoldability and rigidity of a shell:

- Composites with knitted glass or carbon are recommended for 3D-moldings, e.g. high cupped foot orthotic shells
- Composites with woven glass or carbon fabric are suitable for moderate arch support heights in foot orthotic shells without heel cups, as well as for shoe reinforcements

Easily thermoformable / modifiable at approx. 140°C / 284°F.

Heating duration approx. 3- 8 min depending on the heating source and material thickness:

- Check in advance whether the material is soft and bendable enough to mold

Molding is recommended over a positive (plaster or last) under vacuum.

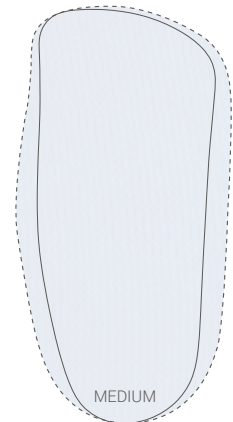
Composite materials made of carbon and glass fiber can be cut and ground with tools, suitable for metal. Do only use grinders with dust extraction!

Recommended is to process composite fiber shells with top and base covers for the best wearing comfort and compliance.

# ACRYLIC 101



Compatible with the  
BALANCER - HEEL POST MODULE

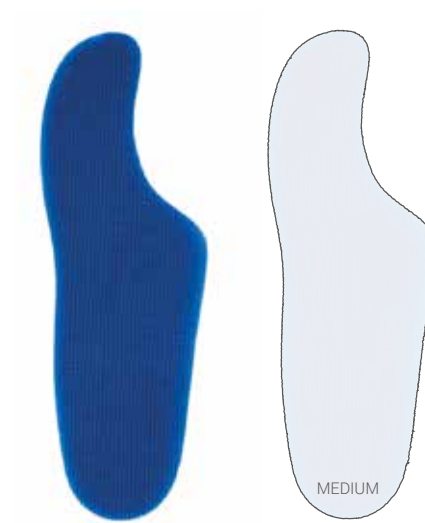


EXTRA-WIDE

SUPPORTIVE FOOT ORTHOTIC SHELL (CLASSIC CUT)  
ACRYLIC 101

ITEM NO.	MATERIAL	THICKNESS	WIDTH	3D-CONTOUR	SIZE RANGE
A101FG43130_	G431 blue	1.4 - 1.8 mm	Medium	F (flat / non shaped)	35 - 48
A101FXG43130_	G431 blue	1.4 - 1.8 mm	Extra-wide	F (flat / non shaped)	35 - 48
A101FG42230_	G422 blue	2.2 - 2.5 mm	Medium	F (flat / non shaped)	35 - 48
A101FXG42230_	G422 blue	2.2 - 2.5 mm	Extra-wide	F (flat / non shaped)	35 - 48

# ACRYLIC 115



Compatible with the  
BALANCER - HEEL POST MODULE



SUPPORTIVE FOOT ORTHOTIC SHELL WITH MOTION-LIMITING REINFORCEMENT (LONG)  
UNDERNEATH MTP-JOINT I (FOR HALLUX LIMITUS)  
ACRYLIC 115

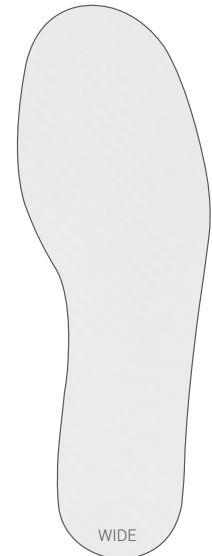
ITEM NO.	MATERIAL	THICKNESS	WIDTH	3D-CONTOUR	SIZE RANGE
A115FG42230_	G422 blue	2.2 - 2.5 mm	Medium	F (flat / non shaped)	35/36 - 47/48

# ACRYLIC 179



## SHOE INSOLE/STIFFENERS

serve to protect or immobilize the foot and its joints in the shoe or, in some cases, underneath foot orthotics, like it is required for sensitive disorders, e.g. the diabetic foot syndrome. This requires stiffening of the shoe's flexible parts, e.g. the outsole. The existing sole is cut open, the stiffening layer is incorporated and a functionally compensating rockersole is provided.



## ACRYLIC 179

ITEM NO.	MATERIAL	THICKNESS	WIDTH	3D-CONTOUR	SIZE RANGE
A179FBF7003_	BF7003 black	1.9 - 2.3 mm	Medium	F (flat / non shaped)	35 - 48



ACRYLIC

A large, light gray watermark of a stylized logo, possibly a letter 'P' or a similar shape, is centered on the page. It is composed of thick, rounded lines that overlap and curve around the central text.

[WWW.PERPEDES.COM](http://WWW.PERPEDES.COM)

Order and Support:  
Perpedes Canada Inc.  
480 University Ave, Suite 1500  
Toronto, ON M5G 1V2  
Canada  
[www.perpedes.com](http://www.perpedes.com)  
[info@perpedes.com](mailto:info@perpedes.com)

Return address:  
G.L.P. Graupis Leather Products Ltd.  
c/o Perpedes Canada Inc.  
7-14500 Morris Valley Road  
Harrison Mills, BC, V0M 1A1  
Canada