

## SPORTHOTICS

### ALLSPORT

#### Description

- Semi-rigid shell
- Moderate control
- Moderate shock absorption
- May be modified for multiple sports applications

#### Materials

HDPE

#### Posting

Extrinsic rear foot  
Biodynamic heel system

#### Features

Heel seat depth: 3/8"  
Heel plate: Rubber

#### Covering

Length: Metatarsal  
Topcover: Vinyl

### ALLSPORT CLASSIC

#### Description

- Semi-rigid shell
- Same as ALLSPORT but single-density heel post

#### Materials

HDPE

#### Posting

Extrinsic rear foot  
Single-density heel post

#### Features

Heel seat depth: 3/8"  
Heel plate: Plastic

#### Covering

Length: Metatarsal  
Topcover: Vinyl

### ALLSPORT FLEXIBLE

#### Description

- Semi-flexible shell
- Moderate control
- Moderate absorption
- Similar to an ALLSPORT, but for patients who cannot tolerate a semi-rigid shell

#### Materials

Toprelle™

#### Posting

Extrinsic rear foot  
Biodynamic heel system

#### Features

Heel seat depth: 3/8"  
Heel plate: Rubber

#### Covering

Length: Metatarsal  
Topcover: Vinyl

### ATP TENNIS

#### Description

- Semi-flexible shell
- Moderate control
- High shock absorption for shear forces associated with lateral motion sports

#### Materials

Toprelle

#### Posting

Rear foot Wedge posting  
Arch filler: PPT®

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes  
Topcover: Vinyl

### TENNIS

#### Description

- Semi-rigid shell
- High to moderate control
- Moderate shock absorption for shear forces associated with lateral motion sports
- More controlling than the ATP TENNIS

#### Materials

HDPE

#### Posting

Extrinsic rear foot  
Biodynamic heel system

#### Features

Heel seat depth: 3/8"  
Heel plate: Rubber

#### Covering

Length: Toes  
Topcover: Vinyl

### BASKETBALL

#### Description

- Semi-rigid shell
- High control
- High shock absorption to withstand severe impact and shear forces associated with sudden stops, starts, and shifts in direction

#### Materials

HDPE

#### Posting

Extrinsic rear foot  
Biodynamic heel system  
Arch filler: PPT®

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes  
Topcover: Vinyl  
Bottom cover: PPT®

### CYCLIST

#### Description

- Semi-rigid shell
- Low profile device designed to fit into a bike shoe. Stiffens the sole and positions the foot for enhanced power transfer

#### Materials

HDPE

#### Posting

Intrinsic rear foot  
Extrinsic forefoot:  
Compressible post to sulcus

#### Features

Heel seat depth: 1/4"

#### Covering

Length: Sulcus  
Topcover: Vinyl

### FOOTBALL

#### Description

- Semi-rigid shell
- High control
- Moderate shock absorption
- Keeps the foot aligned under the leg for solid push-off

#### Materials

HDPE

#### Posting

Extrinsic rear foot  
Biodynamic heel system  
Arch filler: PPT®

#### Features

Heel seat depth: 3/8"  
Heel plate: Rubber

#### Covering

Length: Metatarsal  
Topcover: Vinyl  
Bottom cover: Suede

**GOLF****Description**

- Flexible shell
- Low control
- High shock absorption
- Permits supination and pronation during the golfer's swing

**Materials**

Toprelle™

**Posting**

Rear foot wedge posting  
Arch filler: PPT®

**Features**

Heel seat depth: 3/8"

**Covering**

Length: Toes

Topcover: Vinyl

**SKI/SKATE****Description**

- Semi-rigid shell
- Low profile device designed to fit into ski boots and skates

**Materials**

HDPE

**Posting**

Extrinsic rear foot  
Varus heel post

**Features**

Heel seat depth: 1/4"

Heel plate: Plastic

**Covering**

Length: Toes

Topcover: Vinyl with

PLASTAZOTE® extension

**SOCCER****Description**

- Semi-rigid shell
- Moderate control
- Moderate shock absorption
- Low profile for use with soccer cleats

**Materials**

SuperForm®

**Posting**

Intrinsic rear foot with heel cut out

Extrinsic forefoot:

Compressible post to sulcus with 1st ray cut out

**Features**

Heel seat depth: 3/8"

Heel plate: Rubber

**Covering**

Length: Sulcus

Topcover: Vinyl

**SPRINTER****Description**

- Flexible shell
- Moderate control
- High shock absorption
- Designed for runners

**Materials**

Toprelle

**Posting**

Extrinsic rear foot

Extrinsic forefoot:

Compressible post to sulcus

Arch filler: PPT®

**Features**

Heel seat depth: 3/8"

Heel plate: Plastic

**Covering**

Length: Toes

Topcover: Vinyl

Bottom cover: Suede

**HEALTHFLEX®****Description**

- Semi-rigid shell
- Moderate control
- Moderate shock absorption
- For use in step aerobics or moderate to high impact aerobic activities

**Materials**

Subortholene

**Posting**

Extrinsic rear foot 1/8" heel lift

Arch filler: EVA

**Features**

Heel seat depth: 3/8"

**Covering**

Length: Toes

Topcover: Vinyl

Bottom cover: 1/16" PPT®

Plus

**RUNNER'S MOULD****Description**

- Semi-flexible shell
- Low control
- Moderate shock absorption
- Natural leather shell

**Materials**

Leather and Cork

**Posting**

Extrinsic rear foot:

Wedge type

Arch filler: Cork

**Features**

Heel seat depth: 1/2"

**Covering**

Length: Sulcus

Topcover: None

**MARATHONER****Description**

- Semi-rigid shell
- High control
- High shock absorption
- Withstands severe, repetitive, and prolonged stresses

**Materials**

HDPE

**Posting**

Extrinsic rear foot

Biodynamic heel system

Forefoot compressible post to sulcus

Arch filler: PPT®

**Features**

Heel seat depth: 3/8"

Heel plate: Rubber

**Covering**

Length: Sulcus

Topcover: Vinyl

Bottom cover: Suede

## FASHION DEVICES

### DESIGNLINE®

#### Description

- Semi-rigid shell
- Moderate control
- Narrow, low profile device designed to fit women's flats or men's loafers

#### Materials

Subortholene

#### Posting

EVA post and filler

#### Features

Heel seat depth: 1/4"

#### Covering

Length: Sulcus

Topcover: Vinyl

### DRESSFLEX®

#### Description

- Flexible shell
- Low profile device for use in a high heel shoe
- Sagittal plane control to minimize forefoot stress

#### Materials

Toprelle

#### Posting

Extrinsic rear foot

#### Features

Flat heel

#### Covering

Length: Sulcus

Topcover: Vinyl

Bottom cover: Suede

### SLIMTHOTICS®

#### Description

- Semi-flexible shell
- Moderate control
- Designed for the best possible fit in high heel shoes

#### Materials

Subortholene

#### Posting

EVA post and filler

#### Features

Heel seat depth: 1/4"

Cobra style shell

#### Covering

Length: Sulcus

Topcover: Vinyl

### SUPERFORM STYLOTIC®

#### Description

- Semi-rigid shell
- High control
- Heel cut out to reduce heel slippage
- Low profile

#### Materials

SuperForm

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 1/4"

Heel plate: Rubber

#### Covering

Length: Sulcus

Topcover: Vinyl

## THERACARE

### ULTRA SLIMS

#### Description

- Semi-flexible shell
- Moderate control
- Heel cut out to reduce heel slippage
- For medium to high heel shoe

#### Materials

HDPE

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 1/4"

#### Covering

Length: Sulcus

Topcover: PPT® with perforated leather

Bottom cover: Suede

### THERACARE FIRM

#### Description

- Semi-rigid shell
- Moderate control
- High shock absorption to reduce pressure and shear that may lead to ulcers
- For functional control of the diabetic patient

#### Materials

HDPE

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"

Heel plate: Plastic

#### Covering

Length: Toes

Topcover: PPT®/Plastazote® with perforated leather

### THERACARE SOFT

#### Description

- Semi-flexible shell
- Low control
- High shock absorption to protect against ulcers created by pressure and shear

#### Materials

Toprelle

#### Posting

Intrinsic rear foot

Arch filler: EVA

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes

Topcover: PPT®/Plastazote® with perforated leather

### THERACARE SPR

#### Description

- Semi-rigid shell
- Moderate control
- Moderate shock absorption for the patient with plantar ulcers or pre-ulcerative sites associated with insensate feet resulting from diabetes, neuropathy or vascular insufficiency

#### Materials

Thermocork

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes

Topcover: 1/8" SPENCO®

## CONTROLLING DEVICES

### RIGIDUR

#### Description

- Rigid shell
- Maximum control
- Low shock absorption

#### Materials

Polydor

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"  
Heel plate: Plastic

#### Covering

Length: Metatarsal  
Topcover: None

### LYTE FIT®

#### Description

- Rigid shell
- Maximum control
- Low shock absorption

#### Materials

SuperForm®

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"  
Heel plate: Plastic

#### Covering

Length: Metatarsal  
Topcover: Vinyl

### D.S.I.S.

#### Description

- Semi-flexible shell
- High control
- Low shock absorption
- Designed for the pediatric and adult flat foot

#### Materials

Subortholene

#### Posting

Extrinsic rear foot  
5° Medial heel skive

#### Features

Heel seat depth: 3/4"  
Heel plate: Plastic  
Independent lateral and medial column

#### Covering

Length: Metatarsal  
Topcover: None

### U.C.B.L.

#### Description

- Semi-flexible shell
- High control
- Low shock absorption
- For use with severely compensating foot structures, midtarsal joint collapse, posterior tibial dysfunction

#### Materials

Subortholene

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/4"  
Heel plate: Plastic

#### Covering

Length: Metatarsal  
Topcover: None

### GAITFLEX

#### Description

- Semi-rigid shell
- High control
- Moderate shock absorption
- For patients who cannot tolerate the full control of a rigid orthotic

#### Materials

HDPE

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"  
Heel plate: Plastic

#### Covering

Length: Toes  
Topcover: Vinyl

### HEEL FIT® FLEXIBLE

#### Description

- Semi-flexible shell
- Moderate control
- High shock absorption
- Indicated for patients with heel spur syndrome or plantar fasciitis

#### Materials

Toprelle

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 5/8"  
Heel plate: Plastic  
Heel cut out: Visco heel plug

#### Covering

Length: Toes  
Topcover: Vinyl

### HEEL FIT® FIRM

#### Description

- Semi-rigid shell
- High control
- Moderate shock absorption
- Indicated for patients with heel spur syndrome or plantar fasciitis

#### Materials

HDPE

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 5/8"  
Heel plate: Plastic  
Heel cut out: Visco heel plug

#### Covering

Length: Toes  
Topcover: Vinyl

## ACCOMMODATIVE

### BLUELINE

#### Description

- Flexible shell
- Low to moderate control
- High shock absorption
- Accommodative device for patients with restricted range of motion

#### Materials

Toprelle

#### Posting

Extrinsic rear foot:

Wedge type

#### Features

Three available filler materials: PPT®, EVA, Thermocork  
Filler material will affect the flexibility of the shell  
Heel seat depth: 3/8"

#### Covering

Length: Sulcus

Topcover: Vinyl

Bottom cover: 1/16" PPT®

Plus to sulcus

### LEATHER MOULDS

#### Description

- Semi-flexible shell
- Natural leather shell

#### Materials

Leather and Cork

#### Posting

Arch filler: PPT®, EVA and Cork

#### Features

Heel seat depth: 1/2"

#### Covering

Length: Sulcus

Topcover: None

## FIRSTCHOICE

### ACCOMMODATIVE

#### Description

- Semi-flexible shell
- Moderate control
- High shock absorption
- For a moderate to severely restricted foot type

#### Materials

Subortholene

#### Posting

Extrinsic rear foot:

Wedge type

Arch filler: PPT®

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Sulcus

Topcover: Vinyl

Bottom cover: 1/16"

PPT® Plus

### COMPOSITE

#### Description

- Rigid shell
- Maximum control
- Low shock absorption

#### Materials

Polypropylene Composite

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"

Heel plate: Plastic

#### Covering

Length: Metatarsal

Topcover: Vinyl

## FIRSTCHOICE (continued)

### DRESS

#### Description

- Semi-rigid shell
- Moderate control
- Low profile design for fashion shoes

#### Materials

HDPE

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 1/4"

#### Covering

Length: Sulcus

Topcover: Vinyl

### PEDIATRIC

#### Description

- Rigid shell
- Maximum control
- Low shock absorption
- Designed for moderate to severe subtalar joint pronation

#### Materials

Polydor

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 5/8"

Heel plate: Plastic

#### Covering

Length: Metatarsal

Topcover: None

### SEMI-FLEX

#### Description

- Semi-flexible shell
- Moderate control
- Moderate shock absorption
- Designed for general ambulation and prolonged standing

#### Materials

HDPE

#### Posting

Intrinsic rear foot

Arch filler: EVA

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes

Topcover: Vinyl

Bottom cover: 1/16" PPT®

### SPORT

#### Description

- Semi-rigid shell
- Moderate control
- Moderate shock absorption
- An all-purpose sports device for multi-sport activities

#### Materials

HDPE

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"

Heel plate: Plastic

#### Covering

Length: Metatarsal

Topcover: Vinyl

## L.XCEL

### L.XCEL F1

#### Description

- Semi-flexible shell
- Moderate control
- Moderate shock absorbing shell

#### Materials

LangerFlex™

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Metatarsal

Topcover: Vinyl

### L.XCEL F2

#### Description

- Semi-rigid shell
- Moderate control
- Low to moderate shock absorbing shell

#### Materials

LangerFlex

#### Posting

Extrinsic rear foot

#### Features

Heel seat depth: 3/8"

Heel plate: Plastic

#### Covering

Length: Metatarsal

Topcover: Vinyl

### L.XCEL A1

#### Description

- Soft shell
- Low control
- High shock absorption

#### Materials

LangerZorb™

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes

Topcover: PPT®/Plastazote®

### L.XCEL A2

#### Description

- Firm shell
- Moderate control
- Moderate shock absorption

#### Materials

LangerZorb

#### Posting

Intrinsic rear foot

#### Features

Heel seat depth: 3/8"

#### Covering

Length: Toes

Topcover: Medium-density

EVA

## GLOSSARY OF TERMS

### BIOMECHANICS

**Control** – Ability of device to resist pronatory forces and abnormal motion

**Shear Reduction** – Ability of a material to absorb or move with the lateral motion of the foot

**Shock Absorption** – Ability to absorb sudden vertical forces

### PLASTICS

**HDPE** – High density polyethylene, a polyolefin plastic in the same family as polypropylene

**LangerFlex™** – Energy absorbing proprietary copolymer

**Polydor** – Rigid acrylic polymer

**Polypropylene Composite** – Material made of glass fibers embedded in a polypropylene matrix

**Subortholene** – Ultra high molecular weight polyethylene

**SuperForm** – Composite material made of glass and carbon fibers in a polypropylene matrix

**Toprelle™** – Hybrid material made from a blend of HDPE and rubber

*Note: Varying the thickness of thermoplastic shells will affect flexibility relative to the patient's weight*

### POSTING

**Biodynamic Heel System** – Dual density heel post that promotes weight transfer from lateral to medial during gait cycle. Also resists pronation

**Compressible Post to Sulcus** – post that extends effective duration of the forefoot post

**Single-Density** – Term referring to a post with homogeneous consistency throughout.

**Wedgepost** – Post that is placed below filler material

### MISCELLANEOUS

**Bottom Cover** – Cover used to protect, when necessary, underside of the orthotic against wear

**Filler** – Material used under the shell to reinforce or increase its shock absorbing ability

**Heel Seat Depth** – Depth of the heel section. Deeper heel cups will provide more control. Lower heel cups are used when shoe fit is a concern

**Topcover** – Cover used as an interface between the orthotic and the foot. Sometimes incorporates a soft foam layer for shock absorption

**Heel Plate** – Plate used to protect the heel post from excessive wear, to reduce slippage or to enhance the shock-absorbing capability of the heel post