



## EXCERPTS FROM THE PFOLA TECHNICAL STANDARDS DEFINITIONS DOCUMENT

### FOOT MODELING DEFINITIONS

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**Anatomical Volumetric Foot Model (AVFM).** A digital or physical model that captures a person's three dimensional plantar foot anatomy when the foot is non-weightbearing, semi-weightbearing, or fully-weightbearing.

A **digital AVFM** must use actual 3 dimensional data points taken directly from the foot to duplicate plantar foot anatomy. The most common examples include laser 3D scanners, stereo-digital 3D imaging systems, and pin array systems.

A **physical AVFM** captures foot anatomy through direct contact to duplicate plantar foot anatomy. The most common examples are plaster of paris casts or foam impressions taken directly from the foot. Any material or method that uses direct capture of the entire plantar foot anatomy creates an AVFM.

**Extrapolated Volumetric Foot Model (EVFM).** A digital model that approximates a person's three dimensional plantar foot anatomy through application of mathematical models that extrapolate pressure data, or extrapolate temperature data, or extrapolate light data to form the digital model when the foot is non-weightbearing, semi-weightbearing, or fully-weightbearing. The most common examples are pressure mapping systems, photographs and ink or carbon paper imprinting systems.

### ORTHOTIC DEVICE DEFINITIONS

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**Prescription Foot Orthotic.** An in shoe device that is prescribed by a qualified healthcare professional to brace, support, or protect the foot or part of the foot.

**Anatomical Custom Foot Orthotic (ACFO).** An in shoe device that is made directly from an Anatomical Volumetric Foot Model (AVFM). The AVFM is modified with the appropriate medial and/or lateral arch fill, lateral column expansion, heel expansion, and intrinsic forefoot and/or rearfoot corrections as defined by the prescribing physician. The entire dorsal surface of said custom device matches the surface of the modified, or corrected, AVFM.

**Extrapolation System Foot Orthotic (ESFO).** An in shoe device that is made directly from an Extrapolated Volumetric Foot Model (EVFM). The EVFM is modified with the appropriate medial and/or lateral arch fill, lateral column expansion, heel expansion, and intrinsic forefoot and/or rearfoot corrections as defined by the prescribing physician. The entire dorsal surface of said custom device matches the surface of the modified, or corrected, EVFM.

**Library System Foot Orthotic (LSFO).** An in shoe device that is made from a library of pre-manufactured shells, pre-manufactured corrected positive molds or pre-determined digital shape files.