


Materials - Frame Guides


Information Provided By Kevin Orthopedic Institute

Frame Calibration Guide Per Weight

Rigidity is the relative stiffness of the orthotic frame that allows it to resist bending or twisting under loads of the foot and body.

		RIGIDITY					
		<i>Neutral is the lab standard</i>					
		Flexible	Semiflexible	Semi-Rigid	Rigid	Very-Rigid	Most-Rigid
PATIENT WEIGHT	< 120lbs	-1	Neutral	+1	+2	+3	+4
	121 - 170lbs	-2	-1	Neutral	+1	+2	+3
	171 - 230lbs	-3	-2	-1	Neutral	+1	+2
	231 - 280lbs	-4	-3	-2	-1	Neutral	+1
	> 281lbs	-5	-4	-3	-2	-1	Neutral

Frame Material Rigidity Guide

		RIGIDITY OPTIONS					
		Flexible	Semiflexible	Semi-Rigid	Rigid	Very-Rigid	Most-Rigid
FRAME MATERIAL	PolyPro (mm)	N/A	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>
	Subo (mm)	N/A	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	N/A
	Carbon (mm)	N/A	1.5 <input type="checkbox"/>	2 <input type="checkbox"/>	2.5 <input type="checkbox"/>	3 <input type="checkbox"/>	3 TL <input type="checkbox"/>
	TPE (mm)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	N/A	N/A	N/A	N/A
	EVA (Shore A) (frame filler)	15 <input type="checkbox"/> (Myolite)	30 <input type="checkbox"/>	45 <input type="checkbox"/>	65 <input type="checkbox"/>	N/A	N/A

CLINICAL PEARL

The higher the shape of the arch the more rigid the material becomes, e.g. a flat foot shape with 3mm vacuum formed polypro frame will have a less rigid property than a high arched foot with the same 3mm vacuum formed polypro frame. Consider selecting a less rigid frame option for cavus feet and more rigid frame for flat feet.

Note: All illustrations and diagrams are of right foot