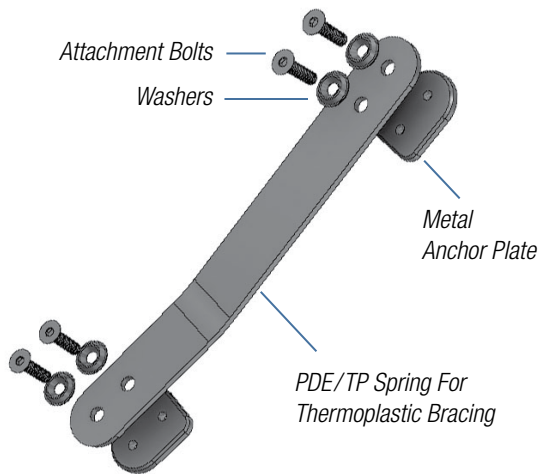
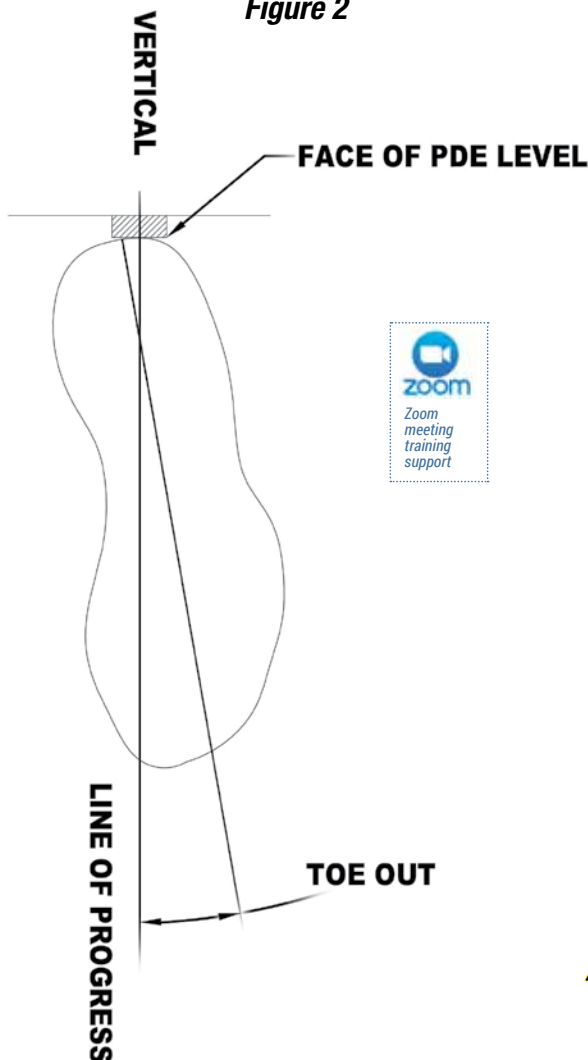


Figure 1 (PDE spring and anchors)

Figure 2

Introduction

PDE/TP Springs designed for Thermoplastic Bracing are readily fabricated employing processes commonly used to fabricate custom plastic orthosis.



The following steps will guide you with the important steps for properly mounting & fabricating the PDE/TP Springs. Always check our website for up to date instructions or additions.

Additional Items:

PLUSeries Adhesives. Item#: C1L or 60SL.

Fabrication Videos:

- fabtechsystems.com
- youtube.com/fabtechsystems
- zoom meeting online training available

Brace Fabrication

1. Using a sharpie marker, mark the Achilles region at the lowest point that could be obtained outside the shoe. Typically this is approx. 3 1/2" (8.89cm) to 3 3/4" (9.52cm) from the plantar surface of the foot.
2. In a horizontal holder orient the model in a toe down position and set the toe out per the patient. In this orientation the line of progression is in a vertical orientation. (fig.2)
3. Using, Pluseries Adhesive (Item# C1L) adhesive bond the PDE assembly (fig.1) on the posterior side of the model. The placement should be proximal of the mark created in step 1. The outer face of the PDE spring should be level (perpendicular to the plumb line of progression)
4. To ensure easy assembly fill any undercuts or voids between the anchor and the model.
5. Remove screws from the PDE assembly (fig.1) leaving only the anchor plates bonded to model.
6. Cover the model with three sheer pulling nylons.
7. Vacuum form 1/4" polypropylene or an appropriate thickness depending on patient needs over AFO model using standard techniques.
8. While plastic is still formable press the location of the screw holes of both anchors. This can be done with a Philips screwdriver or ballpoint ink pen tip or any tapered tool.
9. Apply trim lines to the model leaving 3/8" of material proximal of the distal (footplate) anchor and 1/4" distal of the proximal (calf) anchor.
10. Remove anchor plates and cured adhesive from the plastic.
11. Using 1/4" bit, drill out anchor plate holes marked in STEP 8.
12. Reinstall anchor plates.
13. Bolt spring system on using supplied hardware and Loctite. Screws must pass completely through anchor engaging all threads.
14. **Screw length must be verified!** Make sure screws extend through anchor!
15. The interior surfaces of the anchors can be filled or covered with soft foam if desired.