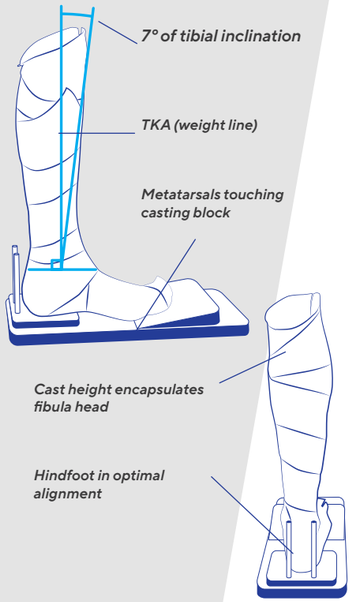
Casting Guidelines

AFO Casting Guidelines



1. Medium

Fiberglass (recommended brands are C-Form from ST&G, Delta Conformable BSN, Delta Lite BSN and Össur Techform)

2. Recommended technique

- Dry casting (with fiberglass)
- Use of a casting platform

3. Position

- Sitting in a chair
- Using casting platform to replicate heel height and toe ramp (or another system allowing to replicate heel height and toe ramp)
- Metatarsals touching the casting platform
- Optimal sagittal alignment: correlates with heel height of the shoe (+/- 5° of the functional alignment)
- Optimal coronal alignment: to represent biomechanical goals (+/- 3° of functional alignment)
- Tibial inclination of 7°

4. Cast length

- MPT height and capture all toe lengths.

5. Cut strip

- Anterior on the dorsum of the foot to transition laterally

6. Markings on the cast

- Fibula head, metatarsal heads, base of 5th metatarsal, navicular, medial and lateral malleoli, tibial crest, tibial tubercle
- If applicable mark: deformity, scar tissue, and any other area of concern
- Reference hash-marks on top of cutting strip.
- Add name of patient and clinic on cast.

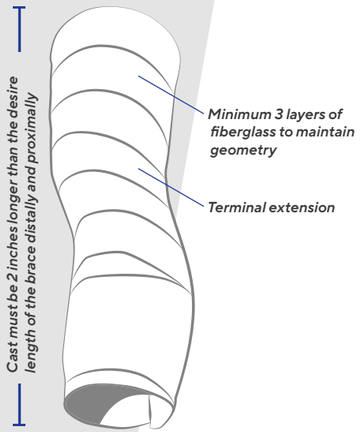
7. Rigidity/Thickness

A minimum of 3 layers of fiberglass throughout the cast from proximal to distal end

8. Tips

- Wait at least an hour before putting it in a box for shipping
- Must remove stockinette
- Use staples to seal the cast
- Stuff the cast to maintain its structure during shipping
- No webroll or compresso grip

KO Casting Guidelines



1. Medium

Fiberglass (any brand)

2. Recommended technique

Traditional technique

3. Position

- Non-weightbearing
- Sitting on the edge of a chair
- Terminal extension
- Foot in dorsiflexion: should naturally give a proper toe out

4. Cast length

Cast must be 2" longer on the femur and the tibia than the desired length of the brace.

5. Cut strip

Posterior

6. Markings on the cast

- Fibula head, patella, medial & lateral condyle (+ if applicable: deformity, scar tissue, and any other area of concern).
- Reference hash-marks on top of cutting strip.
- Add name of patient and clinic on cast.

7. Rigidity/Thickness

A minimum of 3 layers of fiberglass throughout the cast from proximal to distal end

Tips

- Wait at least an hour before putting it in a box for shipping
- Must remove stockinette
- Use staples to seal the cast
- Stuff the cast to maintain its structure during shipping
- No webroll or compresso grip

KAFO Casting Guidelines

1. Medium

Fiberglass (recommended brands are C-Form from ST&G, Delta Conformable BSN, Delta Lite BSN and Össur Techform)

2. Recommended technique

- 2 stages dry casting (with fiberglass)
- Use of a casting platform

3. Position

AFO

- Sitting in a chair
- Using casting platform to replicate heel height and toe ramp (or another system allowing to replicate heel height and toe ramp)
- Metatarsals touching the casting platform
- Optimal sagittal alignment: correlates with heel height of the shoe (+/- 5° of the functional alignment)
- Optimal coronal alignment: to represent biomechanical goals (+/- 3° of functional alignment)
- Tibial inclination of 7°
- Leave the top 3" of the AFO section unsprayed. It will allow the two section to bond when you start the KO casting. Allow it to cure and then start the KO section casting process.

KO

- Non-weightbearing
- Sitting on the edge of a chair
- Terminal extension
- Coronal and sagittal alignment must be within +/- 5 degrees of the intended brace position

4. Cast length

AFO: mid-calf and captures all toes.

KO: 2" taller than the desired length of the brace (proximally)

5. Cut strip

Anterior on the dorsum of the foot to transition laterally

6. Markings on the cast

AFO section - Outside of the cast

- Fibula head, metatarsal heads, base of 5th metatarsal, navicular, medial and lateral malleoli, tibial crest, tibial tubercle
- If applicable mark: deformity, scar tissue, and any other area of concern
- Reference hash-marks on top of cutting strip.
- Add name of patient and clinic on cast.

KO section - outside of cast

- Patella, medial & lateral condyle
- If applicable mark: deformity, scar tissue, and any other area of concern

7. Rigidity/Thickness

A minimum of 3 layers of fiberglass throughout the cast from proximal to distal end

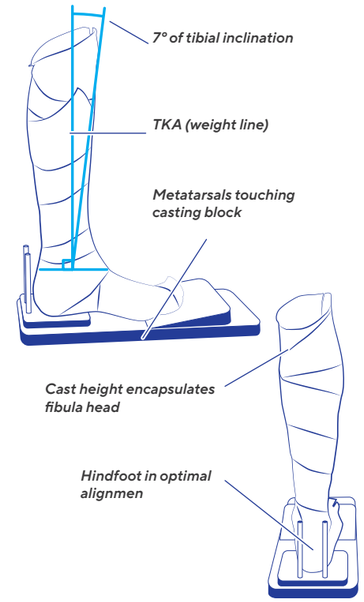
8. Tips

- Wait at least an hour before putting it in a box for shipping
- Must remove stockinette
- Use staples to seal the cast
- Stuff the cast to maintain its structure during shipping
- No webroll or compresso grip

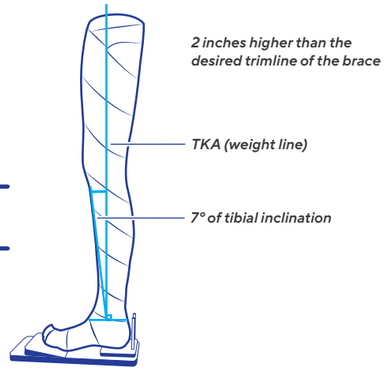
Casting tools available from Thuasne USA

Casting Platform Shoe Calipers

Part 1: AFO Section



Part 2: KO Section



KO, AFO, & KAFO
Casting Instructions
More Info >