

allard<sub>UK</sub>

World leader in  
**Carbon Composite  
AFO Technology**



**Support for Better Life!**



# THE QUANTUM LEAP IN AFO TECHNOLOGY

Introduced in 1997, ToeOFF®, the first Allard AFO, is now recognized as a quantum leap in AFO technology. Today hundreds of thousands of individuals with gait impairment now enjoy a higher quality of life, thanks to the stability and dynamic response provided when wearing one of our many carbon composite orthoses. More experience than any company in the industry and our commitment to providing only the highest quality product and customer service continue to position us as the world leader in carbon composite AFO technology. In pursuit of our drive to expand our “Support for Better Life”, our product development team aggressively researches new materials, technology, and product designs that will extend the opportunity for improved gait and walking capacity to more and more individuals with lower extremity deficiencies.



## ANTERIOR DESIGN

Allard AFOs extend up from the footplate onto the anterior surface of the leg to avoid pressure on the calf muscles and Achilles tendon. This allows for a dynamic floor reaction response to assist with propulsion and knee extension.

## LATERAL STRUT

The strut is placed on the lateral side of the footplate to create stability and function. It also allows for more functional use by bilateral users.

## LIGHTWEIGHT

The composition of Carbon fiber, Fiberglass and Kevlar produces an extremely lightweight yet structurally superior design, which increases user compliance.

## OPEN HEEL

The open heel design allows the calcaneus to invert and evert to activate the natural biomechanical chain reaction to occur to achieve a closer to normal gait and eliminates uncomfortable pressure on the back of the leg or heel.

## COMFORTABLE

As the shin plate comes on the anterior surface of the leg, it provides a more comfortable design for the user.

## THIN

The extreme thinness of the product makes it light and almost invisible under trousers.

## DYNAMIC FOOTPLATE

The unique layup and the shape of the footplate contributes to a more dynamic, functional, and fluid gait pattern.

## FITS IN SHOE

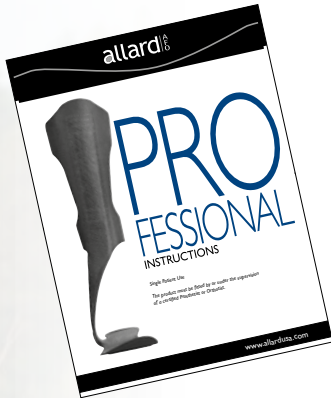
The thinness of the footplate often avoids the need to increase the shoe size.

## GRADED STABILITY

To be able to accommodate different users' needs, the sizes and products are graded in both stability and dynamic response.

# PRODUCT SELECTION GUIDE

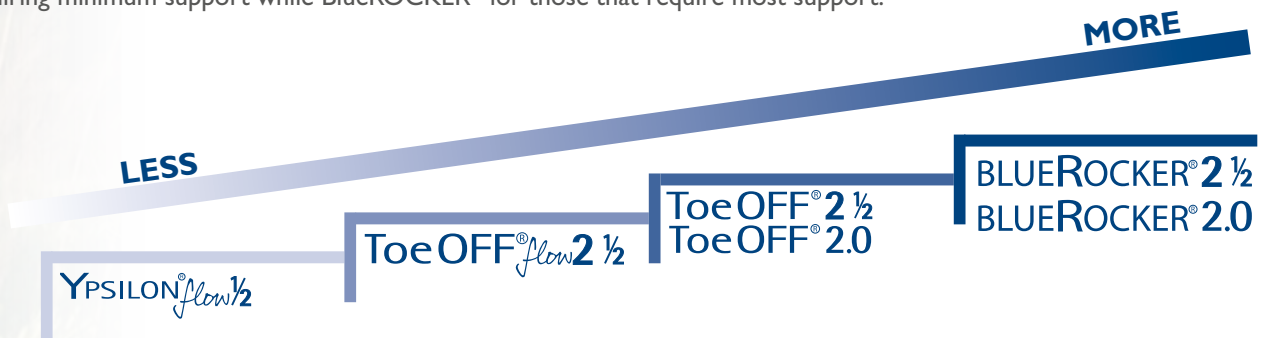
The scales on this page and chart on following page are provided as general guidelines only. Each individual, based on their unique deficits, gait patterns, proprioceptive response, and lifestyle needs, will respond differently to any orthotic device. This will influence the function and compliance results.



Further information about intended use, indications and contraindications, and suggested modifications to assure optimum alignment and patient comfort can be found in the Professional Instructions packed together with each Allard AFO or can be downloaded from [allardint.com](http://allardint.com). You can also view our 8-step videos on our website.

## ALLARD AFO PRODUCT RIGIDITY SCALE

Each Allard AFO offers different rigidity to provide the amount of support needed without over-bracing. The chart below shows the variance in the amount of support each AFO offers. For example, Ypsilon® FLOW½ would be considered for patients requiring minimum support while BlueROCKER® for those that require most support.



## ALLARD AFO FUNCTION SCALE

As an example, Ypsilon® FLOW½ allows for the most ROM while BlueROCKER® offers the least. On the other hand, if you look at stability, BlueROCKER® offers the most whereas Ypsilon® FLOW½ will provide the least stability.





	Ypsilon® FLOW½	ToeOFF® FLOW2½	ToeOFF® 2½ ToeOFF® 2.0	BlueROCKER® 2½ BlueROCKER® 2.0
Allows Range Of Motion	●●●●○	●●●○○	●●○○○	●○○○○
M-L Stability	●●○○○	●●●○○	●●●●○	●●●●●
A-P Stability	●●○○○	●●●○○	●●●●○	●●●●●
Dorsiflexion Assist	●●○○○	●●●○○	●●●●○	●●●●●
Spasticity Control	●●○○○	●●●○○	●●●●○	●●●●●
Proximal Control	●●○○○	●●●○○	●●●●○	●●●●●

# ALLARD AFO MUSCLE WEAKNESS GUIDES

These charts are based on R&D studies, practitioner, and patient feedback.

Muscle function: None or limited function Moderate function Full function

**LIMITED** Proximal weakness

	<b>YPSILON<sup>®</sup>flow<sup>1/2</sup></b>		ROM ●●●●○ A/P ●●○○○ M/L ●●○○○ Dorsi assist ●●○○○ Spasticity ●●○○○
	<b>ToeOFF<sup>®</sup>flow<sup>2 1/2</sup></b>		ROM ●●●○○ A/P ●●●○○ M/L ●●●○○ Dorsi assist ●●●○○ Spasticity ●●●○○

**MORE** Proximal weakness

	<b>ToeOFF<sup>®</sup>2 1/2</b>		ROM ●●○○○ A/P ●●●●○ M/L ●●●●○ Dorsi assist ●●●●○ Spasticity ●●●●○
	<b>BLUEROCKER<sup>®</sup>2 1/2</b>		ROM ●○○○○ A/P ●●●●● M/L ●●●●● Dorsi assist ●●●●● Spasticity ●●●●●

## CUSTOM ALLARD AFOs

When patient's anatomical or function needs fall out of the parameters of the Product Rigidity or Function Scale, Allard also offers to fabricate Custom Carbon Composite AFOs. Ask Customer Service for ordering information.

# THE “FLOW” TECHNOLOGY

We applied Allard’s 20+ years of AFO carbon composite experience and advances in technology to create a **new proprietary formula** to meet the functional and comfort needs of even more individuals.

ToeOFF<sup>®</sup> flow 2 ½

YPSILON<sup>®</sup> flow ½



15 mm heel height

7 mm heel height



## YPSILON<sup>®</sup> FLOW ½



Ypsilon<sup>®</sup> FLOW ½ was designed for the stable ankle to provide dynamic toe-off assistance while allowing natural ankle movement.

- Allows more medial, lateral and rotational ankle movement, which will provide an opportunity for muscles, tendons and ligaments to function and strengthen.
- FLOW offers greatest ROM in sagittal plane and smoother transition throughout the gait cycle.
- To better accommodate today’s shoe fashions this orthosis has 7mm heel height.

Ypsilon<sup>®</sup> FLOW ½ is suggested for patients with:

- Weak dorsiflexors
- Peroneal nerve injury
- No/mild spasticity
- Sensory Nerve Injury
- Functions well for higher activity levels

Functional Guidelines	Ypsilon <sup>®</sup> FLOW ½
Allows Range Of Motion	● ● ● ● ○
M-L Stability	● ● ○ ○ ○
A-P Stability	● ● ○ ○ ○
Dorsiflexion Assist	● ● ○ ○ ○
Spasticity Control	● ● ○ ○ ○
Proximal Control	● ● ○ ○ ○

# THE “FLOW” BENEFITS

- Smoother transition (flow) throughout the gait cycle
- Increased ROM in sagittal plane
- Accommodates lower shoe heel heights
- Accommodates gentler contours of shoe insoles
- More clearance for forefoot in the shoe toe box
- Easier to customize to meet alignment and biomechanical needs



## ToeOFF® FLOW2½



ToeOFF® *flow* 2 ½

ToeOFF® FLOW2½ is recommended for mild to moderate ankle instability and mild to moderate proximal deficits.

- Provides added rigidity to stabilize the unstable ankle and provide added control of proximal deficits.
- FLOW offers greatest ROM in sagittal plane and smoother transition throughout the gait cycle.
- To better accommodate today’s shoe fashions this orthosis has 7mm heel height.
- A more organic shape with shorter wings.

ToeOFF® FLOW2½ is suggested for patients with:

- Mild proximal deficits
- Mild spasticity
- Limb proprioception deficit
- Functions well for higher activity levels

Functional Guidelines	ToeOFF® FLOW2½
Allows Range Of Motion	● ● ● ○ ○
M-L Stability	● ● ● ○ ○
A-P Stability	● ● ● ○ ○
Dorsiflexion Assist	● ● ● ○ ○
Spasticity Control	● ● ● ○ ○
Proximal Control	● ● ● ○ ○

## ToeOFF® 2.0, ToeOFF® 2½, ToeOFF® Short

Designed for mild to moderate ankle instability and mild to moderate proximal deficits.

- Provides added rigidity to stabilize the unstable ankle and provide added control of proximal deficits.
- Compared to FLOW these have increased stability in the sagittal plane.

Suggested for patients with:

- Mild to moderate proximal deficits
- Mild to moderate spasticity
- Limb proprioception deficit

Functional Guidelines	ToeOFF® 2½ ToeOFF® 2.0 ToeOFF® Short				
	●	●	○	○	○
Allows Range Of Motion	●	●	○	○	○
M-L Stability	●	●	●	●	○
A-P Stability	●	●	●	●	○
Dorsiflexion Assist	●	●	●	●	○
Spasticity Control	●	●	●	●	○
Proximal Control	●	●	●	●	○

### ORIGINAL FORMULA



#### ToeOFF® 2.0

- A more organic shape with shorter wings
- 12-15mm heel height
- Full toe lift



#### ToeOFF® 2½

- A more organic shape with shorter wings
- 7mm heel height
- Less toe lift



#### ToeOFF® SHORT

- Full wings
- 7mm heel height
- Shorter height
- Wider at metatarsal heads
- Flatter footplate contour



## BlueROCKER® 2.0, BlueROCKER® 2½, BlueROCKER® Short

Designed for moderate to severe ankle instability and mild to severe proximal deficits.

Functional Guidelines	BlueROCKER® 2½ BlueROCKER® 2.0 BlueROCKER® Short
Allows Range Of Motion	● ○ ○ ○ ○
M-L Stability	● ● ● ● ●
A-P Stability	● ● ● ● ●
Dorsiflexion Assist	● ● ● ● ●
Spasticity Control	● ● ● ● ●
Proximal Control	● ● ● ● ●

- The extra stability will improve both balance and posture and give the wearer greater security, especially individuals with weak quadriceps and calf muscles.
- Provides maximum rigidity to stabilize the unstable ankle and provide added control of proximal deficits.

Suggested for patients with:

- Moderate to severe proximal deficits
- Moderate to severe spasticity
- Partial foot amputation
- Weakness or impairment in multiple leg muscle groups
- The need to wear bilateral AFOs
- Reduced knee and hip control

### ORIGINAL FORMULA



#### BlueROCKER® 2.0

- A more organic shape with shorter wings
- 12-16mm heel height
- Full toe lift



#### BlueROCKER® 2½

- A more organic shape with shorter wings
- 7mm heel height
- Less toe lift



#### BlueROCKER® SHORT

- Full wings
- 7mm heel height
- Shorter height
- Wider at metatarsal heads
- Flatter footplate contour

# KiddieFLOW™, KiddieGAIT®, KiddieROCKER®

KiddieFLOW™, KiddieGAIT® and KiddieROCKER® offer a carbon composite framework for orthotists to build an orthosis that will provide needed stability and dynamic response to encourage functional heel-to-toe gait.

Functional Guidelines	KiddieFLOW™	KiddieGAIT®	KiddieROCKER®
Allows Range Of Motion	● ● ● ○ ○	● ● ○ ○ ○	● ○ ○ ○ ○
M-L Stability	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●
A-P Stability	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●
Dorsiflexion Assist	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●
Spasticity Control	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●
Proximal Control	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●

## KiddieFLOW™

Offers generous ROM in sagittal plane and smoother transition throughout the gait cycle.

## KiddieGAIT®

Compared to flow KiddieGAIT has increased stability in sagittal plane.

## KiddieROCKER®

Offers more rigid orthotic control, primarily for bilateral foot drop patients and those with more involved pathologies.



- Anterior support provides opportunity to enhance proprioceptive response and adds stability to help manage knee extension/flexion moment.
- Soft and dynamic heel rocker which creates softer loading to reduce knee flexion moment.
- Lightweight functional support allows more fluid and efficient less tiring gait.

### Recommended for patients with:

- Footdrop
- Gait deviations secondary to proprioceptive deficit
- Unstable or low-tone gait
- Toe-walking with no midfoot collapse
- Low-tone crouch gait (except KiddieFLOW™)
- Partial foot amputation (KiddieROCKER® preferred)

KiddieFLOW™, KiddieGAIT® and KiddieROCKER® should always be combined with an additional orthotic, designed to control the position of the foot.

## ORIGINAL FORMULA



kiddieflow™

- Most ROM
- 5-7 mm heel height



Baby Sizes



Youth Sizes

kiddieGAIT®

- Medium ROM
- 4-7 mm heel height



kiddieROCKER®

- Most rigid orthotic control
- 5-7 mm heel height

# ACCESSORIES



SoftKIT™ is our standard 3mm soft foam interface system. May be applied to all Allard AFOs except Ypsilon Flow½.

## SOFTKIT™



ComfortKIT™ is our premium 5mm memory foam interface. It is designed for the patient that requires added cushioning and a more intimate fit due to the shape of the tibia, skin condition, diabetes and/or activity level. Available for most Allard AFO's.

## COMFORTKIT™



CoverKIT™ is another interface innovation for our 2.0 & 2½ models. The interface has a thin textile front to form a sleeve and an inside soft interface that protects the skin and at the same time keeps the brace in position.

## COVERKIT™

### **Allard AFO Warranty:**

Allard return policy for Allard AFO products assumes that fitting has been done correctly, adjustments have been carried out according to Professional Instructions supplied with each product and Patient Instructions have been reviewed with patient and provided to him or her or caregiver to take home. Allard grants warranty for defects in material and workmanship. Read more at [www.allardint.com/download-center](http://www.allardint.com/download-center)

# ASSESSMENT TOOLS

Allard also offers AFOs that are designed to be used as initial assessment tools to evaluate functional improvement, patient acceptance and as a gauge to decide which Allard AFO will work best for the patient as well as what modifications will be necessary to optimize the patient's gait pattern. Those are labeled "Not for resale".



KiddieFLOW™  
Youth Sizes



KiddieGAIT®  
Baby Sizes



KiddieGAIT®  
Youth Sizes



KiddieROCKER®  
Youth Sizes



Ypsilon® FLOW½



ToeOFF® FLOW 2½  
ToeOFF® 2½  
ToeOFF® 2.0



ToeOFF® SHORT



BlueROCKER® SHORT



BlueROCKER® 2½  
BlueROCKER® 2.0

Offered individually or in convenient "6-PACKS" (sizes small, medium and large – left and right).



## Support for Better Life!