



Ready for Water!?

Waterproof Solutions by Össur



Content

Ready for water!?

When thinking about Life Without Limitations it's only natural to think about the next step towards an even more independent lifestyle than ever before. Especially, when thinking about the role of water in a patient's life.

Naturally you might have a few highly active patients in mind who can't wait for their next level of independence and mobility. But what about this large group of patients that is confronted daily with activities in and around water? Simply taking a bath or a shower, taking a little walk alongside a lake, watering the garden, cleaning the car, a family trip to the beach, fishing trips or even recreational boating can be challenging or are completely avoided. But not anymore!



Össur has developed a portfolio of waterproof products that is constantly expanding. These products allow for building complete waterproof legs that will give all your patients, regardless of their activity level, a taste of what life can be like when you don't have to worry about getting splashed or immersed in water.



What does waterproof mean?

When talking about waterproof we mean that whether it's fresh water, salt water or chlorinated water, Össur's waterproof prosthetic legs and components will give the maximum protection needed.

The use of first-rate materials provides permanent protection against harmful ingress of water, even after submersion, whilst continuing to provide the functionality you expect for patients.

Stated differently, waterproof means that a product:

- Can be used in a wet or humid environment
- Can be submerged in up to 3-meter-deep water for a maximum of 1 hour
- Can tolerate contact with: Salt water, chlorinated water, perspiration, urine, and mild soaps*
- Can also tolerate occasional exposure to sand, dust, and dirt
- Should not be exposed continuously

Caution: Össur silicone liners are not waterproof but can be used with waterproof legs when precaution is applied as directed and when used as intended.

What does waterproof mean?



Furthermore, in terms of cleaning, the product should be:

- Dried with a cloth after contact with fresh water or humidity
- Cleaned with fresh water after exposure to other liquids, chemicals, sand, dust or dirt and dry with a cloth

Products that are waterproof are recognized by this specific symbol.



Waterproof

Disclaimer: Please refer to the instructions (IFU) for each product for exact waterproof specifications.

Warning: For liners and sleeves it's specifically important to check the liner suspension during use in water and dry the socket and the liner after leaving the water.



A perfect waterproof fit for all activity levels

No more worrying for patients about their prosthesis when near or in the water. Simply being able to embed water activities to their daily routine and embracing the (un)expected ways of water. Our portfolio has a number of options available for building a waterproof leg for all levels of activities. Have a look at our recommendations and use the opportunity to have all your patients ready for water!



Low



Moderate



High



Extreme

A perfect waterproof fit for all activity levels



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Mr. Wang

Valuing small things in life





Enjoying the small things in life. That is what creates value for Mr. Wang every day. Just taking a walk alongside a lake or in the park and stopping for a coffee while watching the ducks and the birds. And not having to take off his prosthesis to take a bath or shower, or to do the cleaning, really can brighten up his day. The Balance™ Foot waterproof leg gives him the opportunity to add these (potential) water activities to his daily routine and enjoy the small things in life even more.

The Balance™ Foot S provides Mr. Wang with the stability he needs, to feel stable on uneven ground, and the energy return he desires to continue his daily walks in the park. His Iceross Seal-In® X liner, in combination with the Iceross® Sleeve, ensure minimum movement between his socket and his residual limb, to ensure control.



Balance Foot S Torsion

Possible waterproof alternative

For patients with a profile like Mr. Wang, the Iceross Comfort Locking is also a good option. This liner provides them with a suspension solution, focusing on socket comfort and an easy to don prosthesis, due to the pin-lock suspension.

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For extra comfort, these patients can also benefit from the Balance Foot S with a torsion unit that compensates for physiological rotation and vertical shock absorption of lost joints, providing less stress on the residual limb.



Iceross Comfort Locking



Icelock® 621
(L-621000)

Icelock® 672 Ti Pyramid
(L-672000)



Female pyramid tube clamp
(A-345100)

Female Single Adapter
(A-445100)



Balance™ Foot S Torsion

- Lightweight
- Cushioning heel foam with gradual stiffening & wide sole blade for stability & smooth rollover
- Shock absorption & restore lost rotational capabilities
- Anatomical foot cover with steady-grip sole & a sandal clamping toe
- Also available with Unity® system for advanced vacuum suspension, stabilising volume fluctuations and maintaining comfortable socket fit



Iceross Comfort® Locking

- Designed with Össur's patented stabilizing matrix
- Size-specific distal attachment and nylon fabric cover
- For residual limbs with bony prominences prone to pressure peaks



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David

Expanding the horizon





In his 30's, a new chapter in David's life has begun. From a girlfriend, to working on the construction site, to the joy of traveling and recreational activities.

There are many activities to explore further. The waterproof Pro-Flex® LP leg gives him the dynamics and freedom of movement he needs for this wide range of activities.

Whether it's snowboarding or wakeboarding, being waterproof means he's prepared for the expected but also the unexpected, allowing him to expand his horizon as much as possible.

The low-profile Pro-Flex® LP foot is especially designed to provide ankle power, energy return, smooth rollover and dynamics and hence provides a greater range of motion compared to other low profile feet. This allows David to engage in many activities that make him feel comfortable. These activities can be taken even further thanks to the included foot cover with a grippy sole that provides barefoot stability on wet, slippery surfaces. It is easy to clean, adapts to a range of shoes and has a natural arch and footprint.



Pro-Flex LP

And on top of that, the Iceross Seal-In V® High Profile with wave gives him safety and freedom of movement.



Iceross Seal-In V
High Profile with wave

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3-Prong Socket Adapter
(A-114030)

Female Insert for Prong
(A-145300)



Unity® Valve Kit
(UTT0001)



Pro-Flex® LP

- Good level of ankle power, energy return and overall dynamics with low build height
- Full-effective toe length and new reverse tapered technology allowing for greater dorsi-flexion
- Lightweight anatomical foot cover with steady-grip sole & a sandal clamping toe
- Also available with Unity® system for advanced vacuum suspension, stabilising volume fluctuations and maintaining comfortable socket fit



Icelock® 551
(L-551002)



Iceross Seal-In® V High Profile with wave

- Soft distal end for close fit and comfort
- Suited for longer residual limbs, especially in case of sensitive spots on the distal tibial crest
- Active Skin Care, the proprietary Iceross blend of Vaseline® and Aloe Vera are incorporated in Dermasil® silicone.



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Frank

Enjoying leisure the fullest



Proprio Foot

Frank, a cheerful pensioner and family man, enjoys leisure time to the fullest. From getting the balls rolling on the bowling alley, to playing the baritone in his band, to his meetings as chairman of his local fire brigade. On top of that, his house, garden, and small-holding of rabbits, geese, and chickens need to be looked after and maintained. So the world certainly isn't flat for Frank. But having his Proprio Foot® waterproof leg* doesn't cause an issue when unexpected puddles of water, uneven terrain or inclines pop up.

With all the activities Frank is participating in, he appreciates the fact that his socket feels completely attached to his body through the elevated vacuum provided by his Unity® system and the Iceross Seal-In® X liner, in combination with the moveable Seal-In X ring. They ensure minimum movement between the socket and the residual limb, for efficient control of the Proprio leg.



Iceross Seal-In X

*Proprio Foot only allows for full immersion into 1m deep water for 30 minutes and is not recommended to be used in chlorinated water.

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Frank - Enjoying leisure the fullest



This also means that he doesn't need to worry about his residual limb changing shape or size during the course of a day, as the Unity® system minimises volume fluctuations. This is a great relief for Frank, as he can go about his business without worrying. To top it all off, his Proprio Foot® assists him in every step by lifting the toe,

to limit the risk of him tripping and falling, no matter the terrain he is navigating. The Proprio Foot also makes it easy for Frank to change shoes for all his different activities, as it automatically alters the heel height by a touch on a button, or by Frank choosing one of the many different shoe profiles he has stored in the foot app on his iPhone.



Male Pyramid Socket Adapter
(A-135100)

Unity® Valve Kit
(UTT0001)



Proprio Foot®

- Adaptive micropressor controlled ankle
- Increased toe clearance in swing & automatic terrain adaptation on level-ground, ramps and stairs
- Relax-mode and chair-exit-mode
- User adjustable ankle alignment for changing footwear
- Increased battery capacity up to 42 hours
- Össur Logic app for setup, adjustments and activity reports
- Also available with Unity® system for advanced vacuum suspension, stabilising volume fluctuations and maintaining comfortable socket fit



Female pyramid tube clamp
(A-345100)

Female Single Adapter
(A-445100)



Iceross Seal-In® X

- Easier to invert and don than Seal-In liners with attached seal
- Sleeveless design features with separate seal ring to optimize suction
- Seamless fabric that elongates for knee flexion
- Different ring options according to user's needs



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Jean

Embracing family life

Embracing family life to the fullest that is what Jean is about. What a blessing it is to take a walk on the beach with his feet in the sand and feeling the waves of the water. Spending time with his wife knowing that the only thing he needs to think of is cleaning his prosthesis with fresh water and dry it afterwards. And what about playing around with his grand kid? Having the opportunity to take him on a recreational boat trip or having fun in the swimming pool? That's what family life is about. His Pro-Flex® ST waterproof leg makes it possible to enjoy all these outings.

Walking with the Pro-Flex ST, Jean can really feel the smoothness of the foot on all terrain. The foot's ability



Pro-Flex ST

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to stay planted on the ground in any terrain due to its ankle range of motion, adds to his feeling of stability and safety.

The Iceross Seal-In® X5 with its 5 seal rings, that Jean uses in his socket, really adds to his overall control of the prostheses, as the Seal-In X5 keeps him securely connected with his socket and Pro-Flex ST leg.



Icelock® 551
(L-551002)

Male Pyramid Socket Adapter
(A-135100)



Unity® Valve Kit
(UTT0001)



Pro-Flex® ST

- Versatile prosthetic foot with multifunctional design
- Proprietary 3-blade design with full effective toe lever and an anatomical split toe
- Smooth rollover and controlled push off
- Also available with Unity® system for advanced vacuum suspension, stabilising volume fluctuations and maintaining comfortable socket fit



Female Pylon Titanium Kit Short
(A-764111)

Iceross Seal-In® X5

- Conforms to the shape of the residual limb and the internal socket wall for improved rotation control



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Albert & Mike

Exploring new adventures



Albert and Mike often push boundaries. They love exploring knowing they don't need to worry if a puddle of water or a lake awaits behind the trees. To Mike having fun in the ocean, in particular, surfing, is what is most important to him. For Albert, being a scientist and explorer for National Geographic and also being a dad, his day is full of adventures. So in the surf, on a trail, in the pool or anywhere their travels take them, their waterproof Pro-Flex® XC leg allows both to push their boundaries every single day.

To have a prostheses that is able to keep up with a very active lifestyle is very important to both Mike and Albert. Their foot of choice – the Pro-Flex XC Unity® is fully capable of keeping up.



Pro-Flex XC

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It delivers all the power and control they need, in all aspects of their life, whether it's for walking, playing with their kids, or performing on a surfboard. For prosthetic control, they have chosen the Iceross Seal-In® X, which in combination with the moveable Seal-In X ring and the Unity® system ensures minimum movement between their socket, and the residual limb, resulting in control of their Pro-Flex XC leg.



3-Prong Socket Adapter
(A-114030)

Unity® Valve Kit
(UTT0001)



Female Double Adapter - 75mm
(A-545140)

Male Insert for Prong
(A-135300)



Pro-Flex® XC Unity

- Energy return and smooth roll-over
- Sole blade with effective full-length toe
- Anatomical foot cover with steady-grip sole & a sandal clamping toe
- Unity® for advanced vacuum suspension, stabilising volume fluctuations and maintaining comfortable socket fit



Iceross Seal-In® X with X-Grip Seal ring

- Easier to invert and don than Seal-In liners with attached seal
- Sleeveless design features with separate seal ring to optimize suction
- Seamless fabric that elongates for knee flexion
- X-Grip ring option to ensure the best fit and suction



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Sun

Seamlessly navigating a
busy life

Sun is a university student and relies on her Capital Leg to keep up with her busy schedule. She starts her day with determination, slipping on her Iceross Seal-In® TF liner which provides her with security and freedom of movement, essential for her active lifestyle. Its durable fabric cover offers stretch and comfortable elasticity, while the Seal-In Technology with Unity® vacuum ensures a comfortable socket fit throughout her day.

Sun feels the smooth hydraulic control of her Capital Knee on her morning park run, which is designed to provide her with a secure, responsive, and natural running gait cycle. Combined with her Pro-Flex® ST foot, she experiences the smoothness and stability of the foot on the park's various terrains. The foot's slip-resistant cover enables her to seamlessly transition from her exercise routine to cleaning up with a shower afterward.

*The Capital Knee has been approved for use in fresh water.
The knee should be switched into lock mode when using it in or near water.
Disclaimer: Please refer to the instructions (IFU) for each product for exact waterproof specifications.



Throughout her day, Sun effortlessly navigates her college campus, thanks to the smooth transition from stance mode to swing mode provided by her prosthetic components. Whether rushing from one class to another or walking up and down stairs, she feels supported and confident in her movements.

After a productive day of classes and swimming practice, Sun unwinds by enjoying a leisurely shopping trip or going for dinner with her girlfriends. Her waterproof prosthetic leg allows her to fully participate in these activities, without any worries about limitations or discomfort.





Female Double Adapter TI

- (A-545110) 32 mm
- (A-545120) 45 mm
- (A-545130) 60 mm
- (A-545140) 75 mm

Unity® TF Kit (UTT0006)



Capital Knee

- A hydraulic, single-axis knee joint .
- Durable, fresh waterproof.
- For moderate to high activity users.



Iceross Seal-In® Transfemoral

- Offers a secure seal in solution for above-knee amputees.
- Offers security and freedom of movement for low to extremely active transfemoral amputees.
- A durable fabric cover offers radial stretch and comfortable elasticity.
- Combine Seal-In Technology with Unity vacuum system for stabilization of volume fluctuations and comfortable socket fit throughout the day.



Pro-Flex® ST

- Versatile prosthetic foot with multifunctional design
- Proprietary 3-blade design with full effective toe lever and an anatomical split toe
- Smooth rollover and controlled push off
- Also available with Unity® system for advanced vacuum suspension, stabilising volume fluctuations and maintaining comfortable socket fit



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Waterproof Portfolio

Overview

Össur's portfolio of waterproof products will give users, regardless of their activity level, a taste of what life can be like when you don't have to worry about getting splashed or immersed in water. This portfolio is constantly expanding to enable you to built waterproof legs for all your patients.

WATERPROOF KNEES

- Capital Knee

WATERPROOF FEET

Balance

- Balance™ Foot S
- Balance™ Foot S with Unity®
- Balance™ Foot S Torsion
- Balance™ Foot S Torsion with Unity®
- Flex-Foot Assure®*

Dynamic

- Proprio Foot®**
- Proprio Foot® with Unity®**
- Pro-Flex® LP
- Pro-Flex® LP with Unity®
- Pro-Flex® XC
- Pro-Flex® XC with Unity®
- Vari-Flex®*
- Pro-Flex® ST
- Pro-Flex® ST with Unity®

- Pro-Flex® Modular
- Vari-Flex® Modular
(only available direct lamination for higher cat)
- Cheetah® Xplore
- Chopart

Sport

- Flex-Run™
- Flex-Foot Cheetah®***
- Cheetah® Xtend***
- Cheetah® Xtreme***
- Cheetah® Xpanse***
- Cheetah® Xcel
- Cheetah® Xceed

Junior

- Flex-Run™ Junior
- Cheetah® Junior
- Cheetah® Xplore Junior

WATERPROOF COMPONENTS

Adapters

- Male Socket Adapter (A-135100)
- 3-Prong Socket Adapter (A-114030)
- 4-Prong Socket Adaptor (A-114040)
- 4-Hole Socket Adapter TI (A-125100)
- Male Insert For Prong TI (A-135300)
- Female Insert For Prong TI (A-145300)
- Female Insert For Prong LP TI (A-145310)
- 4-Hole Male Pyramid Adapter TI (A-235100)
- 4-Hole Male Pyramid Adapter
Rotation TI (A-235300)
- 4-Hole Male Pyramid Adapter
8mm Offset TI (A-235400)
- 4-Hole Female Pyramid
Adapter TI (A-245100)

The Capital Knee has been approved for use in fresh water. The knee should be switched into lock mode when using it in or near water.

*Waterproof only when used with tube kit. **Proprio Foot only allows for full immersion into 1m deep water for 30 minutes and is not recommended to be used in chlorinated water.

***Waterproof only when directly laminated.

Disclaimer: Please refer to the instructions (IFU) for each product for exact waterproof specifications.

Do you want to know more about our waterproof portfolio?
You can find the latest overview on our website by clicking [here](#)



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