

## IP Ratings Explained

Life can get a little wet sometimes. Knowing how protected your prosthesis is from exposure to the elements is key to understanding what types of activities you can safely enjoy without worrying about ruining your device. For microprocessor knees, such as the C-Leg® and X3, it all comes down to what is called the IP Rating.

### What is an IP rating?

An IP or “Ingress Protection” rating refers to the degree of sealing effectiveness electrical enclosures have against the intrusion of foreign bodies (solids, dust, dirt, etc.) and liquid.<sup>1</sup> IP ratings consist of two digits and provide ratings related to the level of protection from object and liquid penetration. This can help indicate what type of activities you can perform with your microprocessor knee.

# 68

Protection from solids:  
From 0 (no protection)  
to 6 (dust tight)

Protection from liquids:  
From 0 (no protection)  
to 8 (continuous  
immersion)



### X3 - IP 68

This is the highest level of protection offered in a microprocessor knee.

- Protects X3 from damage while being submerged.
- A corrosion resistant coating means that you can enjoy activities in fresh, chlorinated and salt water.
- Not only is X3 fully waterproof, but it is also functional while submerged so you can rely on the safety it provides on land while in the water.
- From the weekend to a demanding work week, X3's IP 68 rating provides more protection for water-related activities than any other microprocessor knee on the market.

### C-Leg® 4 - IP 67

This rating protects C-Leg 4 from damage due to incidental contact with or temporary submersion in fresh water.

- Unlike the X3, C-Leg 4 does not have additional corrosion resistance. It was not designed to be routinely submerged or used while showering in chlorinated pools or salt water.
- C-Leg 4 is considered weatherproof, so you don't have to worry while walking in the rain or playing with your kids at the lake.\*



### Genium - IP 54

This rating protects Genium from damage due to incidental contact (like splashes) with fresh water.

- Similar to C-Leg 4, Genium is also considered weatherproof.
- Activities like walking in the rain or watering the garden where fresh water could be splashed onto the knee are okay.

### Get the most out of your microprocessor knee

It is important to keep your knee clean. Rinse the knee with fresh water and thoroughly dry it after every water-based activity.

#### Sources

<sup>1</sup> International Standard of EN 60529 (British BS EN 60529:1992, European IEC 60509:1989)

\*Do not use the knee under extreme conditions like diving or jumping into the water.