

# IP ratings easily explained

Life can get a bit wet sometimes. But knowing the particular degree of protection your prosthesis offers can help you understand what types of activities you can safely enjoy. What is weatherproof? What does waterproof mean? For

microprocessor-controlled knee joints, such as the C-Leg 4, the Genium and Genium X3, it all comes down to what is called the IP rating – and we help you tell the difference.

## What is an IP rating?

An IP or “Ingress Protection” rating refers to the degree to which electrical enclosures are sealed against intrusion. The two-digit IP code represents the degree of protection against penetration by solid objects and liquids. The larger the value of each digit, the greater the level of protection.

# 6 8

Protection from solids like dust and dirt:  
0 = no protection  
6 = dust-proof

Protection against liquid ingress:  
0 = no protection  
8 = protection against continuous submersion



## Genium X3 – waterproof and corrosion-resistant (IP 68) plus resistance to stronger jets of water

Highest possible IP rating for microprocessor-controlled knee prostheses protects against corrosion and stronger jets of water.

- Protects Genium X3 against damage during submersion.
- A corrosion-resistant coating means that you can easily enjoy activities in fresh, chlorinated and salt water.
- Not only is the Genium X3 fully waterproof, but it is also fully functional while submerged.
- The Genium X3 is not suitable for diving and jumping into the water.
- Nonetheless, its IP 68 rating provides more protection for water-related activities than any other microprocessor-controlled knee on the market.
- In order to keep your Genium X3 clean, rinse it with fresh water and dry it thoroughly after every water-based activity. Even cleaning with a stronger jet of water poses no problem for the new Genium X3.

## C-Leg 4 and Genium – weatherproof (IP 67)

This rating indicates that the C-Leg 4 and the new Genium are protected against damage caused by accidental splashes and contact with water.

- Thanks to the waterproof design of both knee prostheses, you can for example take a walk in the rain without any concerns.
- Unlike the Genium X3, the Genium and C-Leg 4 are not corrosion-resistant.
- Neither joint has been designed for submersion or showering and contact with chlorine and seawater.



## Sources

1 International Standard EN 60529 (British BS EN 60529:1992, European IEC 60509:1989)