Environmental product report card







## Water Tank 1 200 L Lifetime warranty

We stand out for being a reference in tracking the **Water and carbon footprint** of our products, to mitigate its impact on water and greenhouse gases (GHG) by increasing energetic and hydric efficiency.





At **Rotoplas** we implement projects to create and share economic, social and environmental value. Environmental report card Water Tank 1 200 L Lifetime warranty



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## What is the Water footprint?

It is a 360° analysis of the different processes that make up the life cycle of our products, considering the production of raw materials, transportation, manufacturing, distribution, use-phase and end-of-life. With this analysis, we determine the potential environmental impacts related to the water. The study was carried out measuring 3 impact categories: eutrophication, ecotoxicity and scarcity.

# Why is it relevant to measure the Water footprint of our products?

With these studies, we devise practices that lessen the impacts generated throughout the life cycle of our products.



In 2016, the World Economic Forum recognized the water supply crisis as the most important global risk for society.



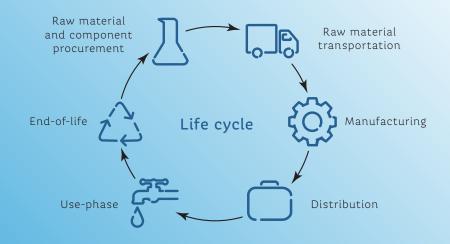
According to the CDP organization, less than

**1.2 %** of the total water in the planet is available to human consumption.

## Stages of the life cycle evaluated:

Our Carbon and water footprint studies are characterized by considering the entire life cycle of our product, shown in the following diagram.

In this way, we identify the parts of the process that have a greater impact on the environment. This allows us to carry out certain initiatives to lessen our impact and continue fulfilling our mission: **"for people to have more and better water".** 





### Water footprint results

**Eutrophication:** the enrichment of aquatic systems with macronutrients, measured in kg PO<sub>4</sub> eq. (Phosphate equivalent).

The more nutrients in a body of water (lake, rivers, etc.), the number of algae increases, which has the potential to decrease the levels of dissolved oxygen and with it, the decrease of aquatic life.

**Ecotoxicity:** refers to the destination, exposure and effects of toxic substances in the freshwater aquatic system, measured in kg 1,4-DB eq. (1,4 Dichlorobenzene).

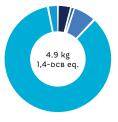
If the freshwater body has an excess of toxic agents, it damages aquatic organisms and alters the (trophic) food chain of the organisms that inhabit it.

**Scarcity:** is the relationship between the extraction of fresh water and the total water availability in a certain region. It is measured in liters.

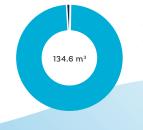
If the volume of water withdrawal exceeds the natural recharge, an overexploitation of aquifers cause-phases water stress that could end in a drought.



%	
8	Raw material production
2	Manufacturing at Rotoplas plant
2	Raw material transportation
27	Use-phase
56	End-of-life
5	Other production processes



%	
4	Raw material production
1	Manufacturing at Rotoplas plant
0	Raw material transportation
10	Use-phase
82	End-of-life
3	Other production processes



%	
1	Raw material production
0	Manufacturing at Rotoplas plant
0	Raw material transportation
96	Use-phase
0	End-of-life
3	Other production processes

## Important

We reduce the Water and carbon footprint, the consumption of water and the GHG emissions in our production plants under the following practices:

- We measure with IoT (Internet of Things) our water consumption.
- We install systems for the reuse-phase of water in our processes.
- We share best practices on the improved environmental responsibility of our production in the countries we have presence in.
- We develop systems to reduce the raw material consumption.
- We work and develop processes with local suppliers through the "Green Project".
- We improve our cooling systems to consume less water.



### How can you help?

Lower your impact on the Water and carbon footprint with the following actions:



#### Consumer:

- · Make your domestic water consumption more efficient.
- $\cdot$  Check your water meter and replace it if it is broken.
- $\cdot$  Detect and repair leaks on time.
- Compare the environmental impact of the products and services that you are going to consume.
- · Replace your copper or PVC pipeline with hydraulic Tuboplus (PP-R).



#### Installer:

- · Recommend to your clients responsible products with the environment.
- Train yourself in the correct installation of the products.
- · Check our training in:
- https://rotoplascapacitacion.com/calendario/







#### Builder:

- Consider implementation of products responsible with the environment in your projects.
- Train your workers for the correct installation of the pipeline.
- Perform checkups of the hydraulic installation of the construction, detecting and repairing leaks on time.
- Communicate with your customers, the value of integrating solutions responsible with the environment.



#### Study methodology

Impact category	Assessment mid-point method	Indicator
Scarcity	AWARE (Boulay et. Al. 2016)	m <sup>3</sup>
Aquatic ecotoxicity	ReCipe Midpoint (H)	kg 1,4-Dв eq.
Eutrophication	смL baseline 2000	kg po <sub>4</sub> eq.

This report represents a synthesis of the full carbon and water footprint study reports based on the ISO 14046:2014, and ISO 14067:2013 standards; made by Grupo Rotoplas for a selection of its products. For more information, contact: sustentabilidad@rotoplas.com



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