



Model Name: Ensamble

Weight: 1.45E+5 g

Built to last: 10 year

Duration of use: 1.0 year



Manufacturing Region

The choice of manufacturing region determines the energy sources and technologies used in the modeled material creation and manufacturing steps of the product's life cycle.



Use Region

The use region is used to determine the energy sources consumed during the product's use phase (if applicable) and the destination for the product at its end-of-life. Together with the manufacturing region, the use region is also used to estimate the environmental impacts associated with transporting the product from its manufacturing location to its use location.

Summary

Sustainability Report

Model Name: Ensamble

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Assembly Process

Region: South America
Energy type: None
Energy amount: 0.00 kWh
Built to last: 10 year

Use

Region: South America
Energy type: None
Energy amount: 0.00 kWh
Duration of use: 1.0 year

Transportation

Truck distance: 1600 km
Train distance: 0.00 km
Ship distance: 0.00 km
Airplane Distance: 0.00 km

End of Life

Recycled: 33 %
Incinerated: 13 %
Landfill: 54 %

Comments

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Impacto medioambiental (calculado mediante la metodología de evaluación de impacto CML)

Carbon Footprint



3.2E+4 kg CO₂e

Material:	340 kg CO ₂ e
Manufacturing:	3.2E+4 kg CO ₂ e
Use:	0.00 kg CO ₂ e
Transportation:	17 kg CO ₂ e
End of Life:	80 kg CO ₂ e

Total Energy Consumed



3.2E+5 MJ

Material:	4700 MJ
Manufacturing:	3.2E+5 MJ
Use:	0.00 MJ
Transportation:	220 MJ
End of Life:	59 MJ

Air Acidification



450 kg SO₂e

Material:	1.1 kg SO ₂ e
Manufacturing:	450 kg SO ₂ e
Use:	0.00 kg SO ₂ e
Transportation:	0.221 kg SO ₂ e
End of Life:	0.041 kg SO ₂ e

Water Eutrophication



17 kg PO₄e

Material:	0.086 kg PO ₄ e
Manufacturing:	17 kg PO ₄ e
Use:	0.00 kg PO ₄ e
Transportation:	0.027 kg PO ₄ e
End of Life:	0.100 kg PO ₄ e

Material Financial Impact

71.50 USD

Comments

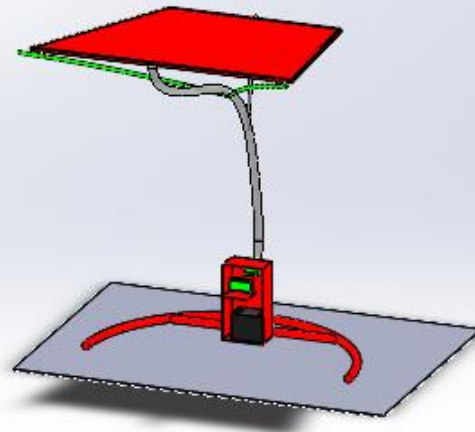
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Sustainability Report			
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Component Environmental Impact

Top Ten Components Contributing Most to the Four Areas of Environmental Impact

Component	Carbon	Water	Air	Energy
Carpa	1.4E+4 <div></div>	7.5 <div></div>	190 <div></div>	1.4E+5 <div></div>
Base semicirculo	1.2E+4 <div></div>	6.4 <div></div>	160 <div></div>	1.2E+5 <div></div>
caja	6200 <div></div>	3.4 <div></div>	87 <div></div>	6.2E+4 <div></div>
Base curva	410 <div></div>	0.180 <div></div>	2.5 <div></div>	4900 <div></div>
Inversor (1)	30 <div></div>	6.4E-3 <div></div>	0.200 <div></div>	370 <div></div>
Brazos	27 <div></div>	0.012 <div></div>	0.159 <div></div>	320 <div></div>
Regulador	14 <div></div>	5.2E-3 <div></div>	0.139 <div></div>	200 <div></div>



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Glossary

Air Acidification - Sulfur dioxide, nitrous oxides other acidic emissions to air cause an increase in the acidity of rainwater, which in turn acidifies lakes and soil. These acids can make the land and water toxic for plants and aquatic life. Acid rain can also slowly dissolve manmade building materials such as concrete. This impact is typically measured in units of either kg **sulfur dioxide equivalent (SO₂)**, or **moles H⁺ equivalent**.

Carbon Footprint - Carbon-dioxide and other gasses which result from the burning of fossil fuels accumulate in the atmosphere which in turn increases the earth's average temperature. Carbon footprint acts as a proxy for the larger impact factor referred to as Global Warming Potential (GWP). Global warming is blamed for problems like loss of glaciers, extinction of species, and more extreme weather, among others.

Total Energy Consumed - A measure of the non-renewable energy sources associated with the part's lifecycle in units of megajoules (**MJ**). This impact includes not only the electricity or fuels used during the product's lifecycle, but also the upstream energy required to obtain and process these fuels, and the embodied energy of materials which would be released if burned. PED is expressed as the net calorific value of energy demand from non-renewable resources (e.g. petroleum, natural gas, etc.). Efficiencies in energy conversion (e.g. power, heat, steam, etc.) are taken into account.

Water Eutrophication - When an over abundance of nutrients are added to a water ecosystem, eutrophication occurs. Nitrogen and phosphorous from waste water and agricultural fertilizers causes an overabundance of algae to bloom, which then depletes the water of oxygen and results in the death of both plant and animal life. This impact is typically measured in either kg **phosphate equivalent (PO₄)** or **kg nitrogen (N) equivalent**.

Life Cycle Assessment (LCA) - This is a method to quantitatively assess the environmental impact of a product throughout its entire lifecycle, from the procurement of the raw materials, through the production, distribution, use, disposal and recycling of that product.

Material Financial Impact - This is the financial impact associated with the material only. The mass of the model is multiplied by the financial impact unit (units of currency/units of mass) to calculate the financial impact (in units of currency).

[Learn more about Life Cycle Assessment](#) 🌐