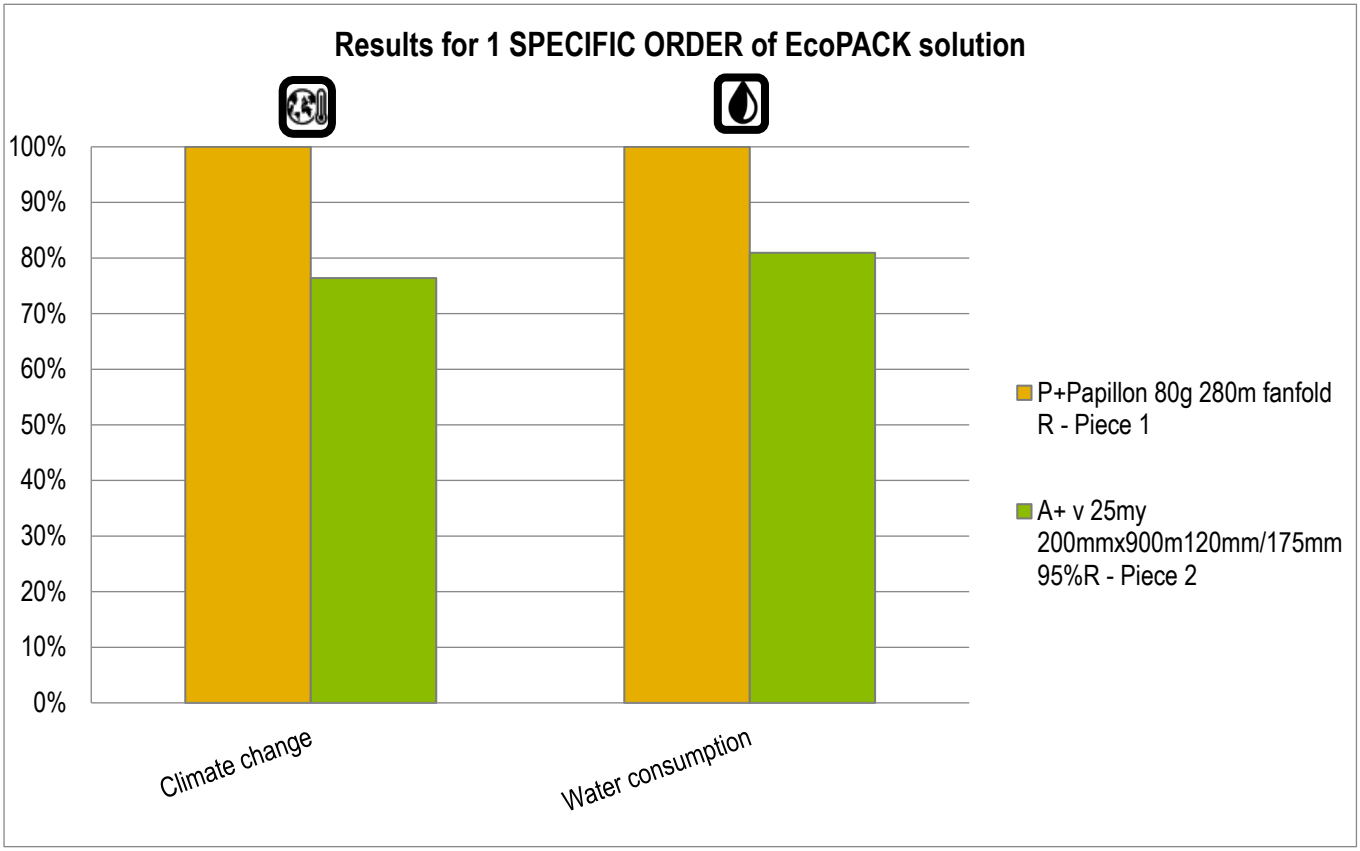
LIFE CYCLE ASSESSMENT

Description	Parameters		
Life cycle assessment of the products:	Date	07.10.2026	
	Customer		

Results of the comparative Life Cycle Analysis

P+ Papillon 80g R: 2.465 m³
Vs.
A+ Void 95%R: 2.465 m³



Impact categories	Climate change	Water consumption
Unit	kg CO2 eq	m3
P+ Papillon 80g 280m fanfold R	10.109	2.495
A+ v 25my 200mmx900m175mm 95%R	7.724	2.020
	-24%	-19%

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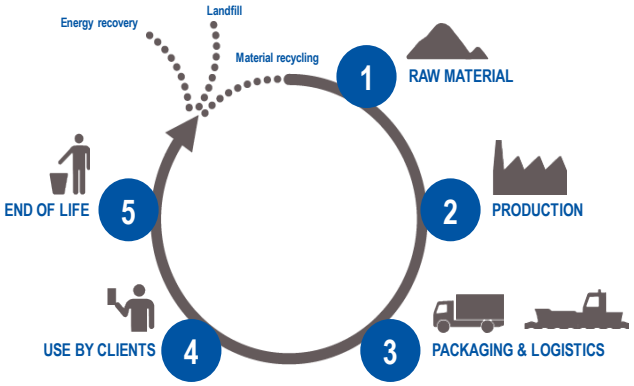
Information
Results information: Transport to customer is not considered.
The results come from Life Cycle Assessment tool EcoPack (v3.2) developed by Storopack for the evaluation of the environmental impact of protective packaging products.

The current Life Cycle Assessment (LCA) results are obtained from the Storopack LCA tool.
This tool allows to perform streamlined Life Cycle Assessment according the ISO 14044 standard recommendations.

Goal and Scope:
This LCA aims both at:

- evaluating the environmental performance of Storopack products (throughout the product lifecycle steps: from raw material extraction to product end-of-life through production process, packaging, logistics and use),
- and at comparing different Storopack offer propositions ("Proposal").



Life Cycle Impact Assessment not method:
Different impact categories are studied. Only the highlighted ones are used in the simplified version of the method, based on the most significant impacts for protective packaging products.

Indicator	Unit	Method	Concern
Climate Change	Kg CO^2 eq	IPCC 2013 100a method	Climate change could lead to mayor changes in temperature, sea level, or ice melt
Photochemical ozone formation	Kg NMVOC eq	LOTOS-EUROS (Van Zelm et al, 2008) as applied in ReCiPe	Smog phenomenon and human health impacts
Eutrophication marine	Kg N eq	EUTREND model (Struijs et al, 2009b) as implemented in ReCiPe	Degradation of ecosystem health and biodiversity
Water consumption	m3 depriv.	Model for water consumption as in Swiss Ecoscarcity (Frischknecht et al, 2008)	Water scarcity
Fossil resources	MJ	CML 2002 (Guinée et al., 2002)	Consumption of oil, gas, coal (as fuel or as resource for material manufacturing)
Mineral depletion	Kg Sb eq	CML 2002 (Guinée et al., 2002)	Depletion of mineral resources (metals, rare earths, etc.)
Particulate matter	Kg PM2.5 eq	RiskPoll model (Rabl and Spadaro, 2004) and Greco et al 2007	Fine particles emitted directly into the atmosphere or resulting from emissions

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Recycling benefits:
The Product Environmental Footprint (PEF) Circular Footprint Formula (CFF)* has been used to take recycling benefits into account.

Life Cycle Inventory:
Databases: Ecoinvent v3.8 (allocation, cut-off by classification) and Industry Data 2.0.
Specific or semi-specific data are used for material production processes (from suppliers), and Storopack plant manufacturing processes. Every other data is or parameterized in the tool or taken as generic data.

Main limitations:
All impacts calculated in the present document are potential impacts for specific Storopack products (or proposals). The results cannot be used in contexts different from the LCA (and tool) goal and scope described above.

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