

ECOPASS

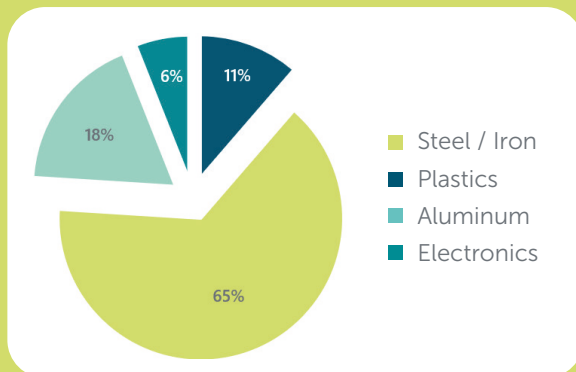
TRIANGO 100

Delivering 100 klx at one meter, the TRIANGO 100 combines high-performance surgical lighting with award-winning design, offering exceptional light quality and ergonomic comfort.

Product type	Surgery lights
Illuminance	100 klx à 1.0 m
Power	40 W
Weight	15.9 kg
Color rendering index CRI (Ra)	96

Composition

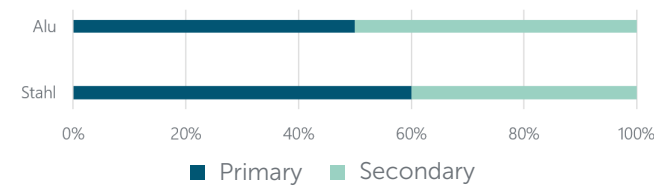
For the manufacturing of the TRIANGO 100, steel is primarily used, particularly for the suspension arm system. Thanks to the modular design, individual components can be easily replaced, and the luminaire head can be flexibly combined with different suspension arm systems. In addition, mobile lighting solutions are also available. The long service life, low maintenance requirements, and low power consumption reduce both resource use and resulting emissions.



Procurement

Suppliers located near our production site are given preference. Steel components consist of 60% primary steel and 40% secondary material. Aluminum components are composed of equal shares of primary and secondary material. The plastics used are reusable. All components comply with REACH and RoHS requirements.

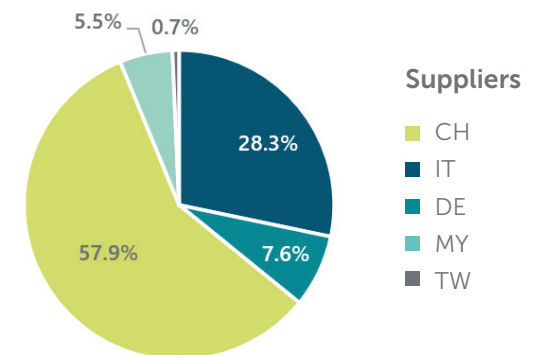
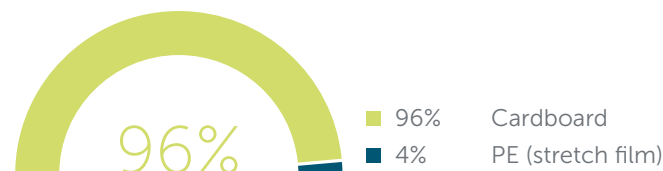
Secondary material content



Logistics

The environmental impacts of different transport modes are well known. Accordingly, transport routes for procurement and distribution are specifically optimized to minimize CO₂ emissions. For both the sourcing and shipment of components in overseas trade, sea freight is used for approximately 80% of transports, as it represents the more environmentally friendly option.

Packaging Materials

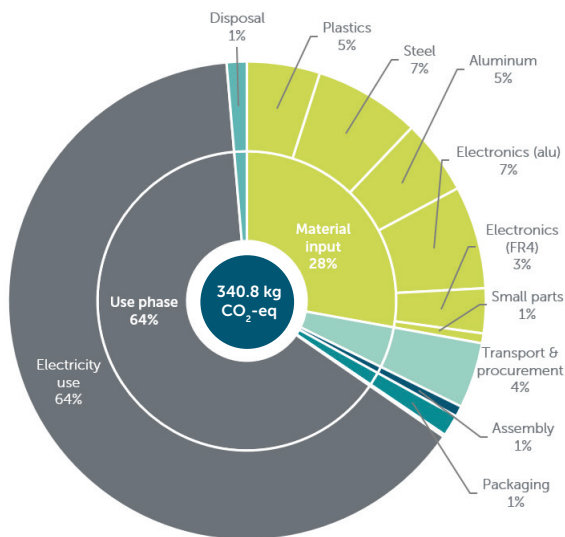


Greenhouse Gas Emissions

With a daily use of 12 hours in Switzerland, the luminaire generates approximately 340 kg of CO₂ equivalents over its total service life of 10 years (cradle to grave). The technical service life amounts to 60,000 operating hours, which corresponds to approximately 6.8 years of continuous operation.

Reduction Potential

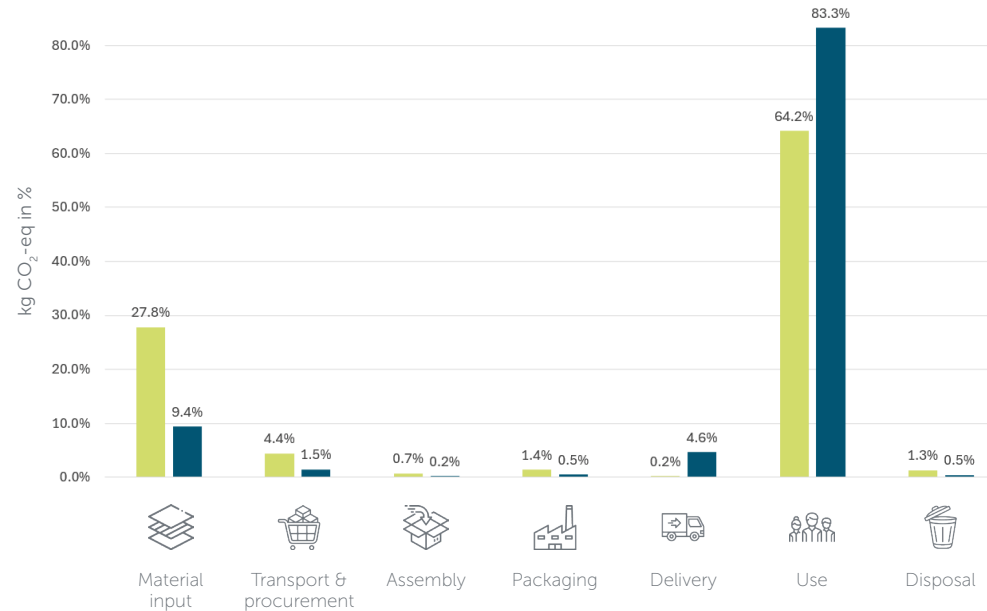
The majority of CO₂ emissions arise from electricity consumption during the use phase. Energy-efficient devices and the use of low-carbon electricity are therefore essential. We encourage our customers to consciously select the required operating time and to switch off the luminaire when not in use.



Use in Switzerland of 12 hours per day / 365 days per year over a service life of 10 years

Life Cycle

Comparison of extended use-phase scenarios between  Switzerland and the  USA



Comparison of greenhouse gas emissions of the TRIANGO 100 under short and long use-phase scenarios in Switzerland, Germany, France, and the United States

Country	Use duration *	Material input	Transport & procurement	Assembly	Packaging	Delivery	Use	Disposal	Total emissions in kg CO ₂ -eq
CH	short	64.3%	10.2%	1.7%	3.3%	0.4%	17.0%	3.1%	147.5
	long	27.8%	4.4%	0.7%	1.4%	0.2%	64.2%	1.3%	340.8
DE	short	46.8%	7.4%	1.2%	2.4%	1.1%	38.8%	2.3%	202.7
	long	11.7%	1.9%	0.3%	0.6%	0.3%	84.6%	0.6%	812.2
FR	short	67.0%	10.7%	1.8%	3.5%	1.6%	12.2%	3.2%	141.7
	long	34.2%	5.4%	0.9%	1.8%	0.8%	55.2%	1.7%	277.8
USA	short	35.9%	5.7%	0.9%	1.9%	17.6%	36.3%	1.7%	264.4
	long	9.4%	1.5%	0.2%	0.5%	4.6%	83.3%	0.5%	1008.2

* short: 2h / 250, long: 12h / 365

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