louis poulsen

Environmental Product Specifications

— Flindt Bollard

Product description

- The fixture emits an asymmetrical non glaring wide light directed downwards.
- The light creates an organic pattern on the surface where the bollard is mounted.

Product info

Mounting

Post f/in ground installation: H: 1700mm incl. fixture head, in ground part 600 or 900mm.

Post w/anchorage unit: H: 1110/1410mm incl. fixture head, in ground anchorage unit 310mm.

Post w/base plate for surface mounting: H 800/1100mm incl. fixture head. Post dia. Ø115mm.

Finish

Aluminum colored or corten colored.
Textured surface, powder coated.

Light source

LED

Sizes and weights

Width x Height x Length (mm)

115 x 800 x 115 Max 9.8 kg

115 x 1100 x 115 Max 11.0 kg

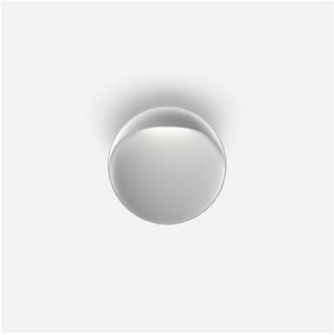
Class

Ingress protection IP65.

Electric shock protection:
I w. ground, II w/o ground.

IK10.

Product family



Flindt Wall

Flindt Garden Bollard

Flindt Plaza

Product variants

Dimension	Colour	Mounting	Light source	Lumen	Class	Lighting control
1100mm	Aluminium colour texture	Post f/in-ground installation	LED 3000K 15W	536	I	-
800mm	Corten colour	Post w/anchorage unit	LED 4000K 15W	560	II	Night time dim - 50%
		Post w/base plate		578		
				604		

Material information

RoHS

This product is compliant with the requirements imposed by the European Directives, RoHS Directive 2011/65 and 2015/863.

REACH candidate List

To the best of our knowledge and based on the information provided by our suppliers, the product do not contain more than 0.1 percent (in weight terms) of any deliberately added SVHCs.

Packaging

The product is packaged in a plastic bag with EPS foam and cardboard around. The packaging material can be easily sorted and treated in waste recycling channels. The packaged product is delivered on a returnable wood pallet.

Recycled raw material

Cardboard is made from min. 75% recycled fibremass, additional cardboard material comes from a FSC approved sources.

Recycling

We encourage everyone to take care of the product, also at the end of the product lifetime. For our products we sell spare parts to, so that we can extend the product lifetime even further.

The luminaires contain valuable materials therefor it must be decommissioned and dismantled in order to reuse the materials in other products again.

This product is designed so that 100% of the product can be disassembled and reused.

Louis Poulsen is at part of ELRETUR which ensure that the electronic waste (WEEE) across of Europa is reused.

This product must be handled as electronic waste:

Material list

Positions number	Part description	Included substances and materials	Country of origin	Weight% (of the entire product)
A	Aluminium parts	Die-casted aluminium parts	CN - China	58,2%
A	Painting	Powder coating	DE - Germany	0,1%
B	Aluminium parts	Aluminium	DK - Denmark	10,0%
B	Painting	Powder coating	DE - Germany	1,3%
C	Aluminium parts	Aluzinc	DK - Denmark	3,5%
D	Steel parts	Stainless Steel	DK - Denmark	2,3%
E	Washers, screws & nuts	Stainless Steel	CN - China	1,4%
F	SCREWS	Stainless Steel	DE - Germany	0,6%
G	Plastic parts	Plastic - EPDM Rubber	IT - Italy	0,3%
H	LED cover	Plastic - PC	DK - Denmark	1,9%
I	Gasket	Plastic - PS	DK - Denmark	1,1%
J	Plastic parts	Plastic - PA	DK - Denmark	1,1%
K	Reflector plate	Plastic - PE	DK - Denmark	0,0%
L	Siliconeflex	Silicone rubber with glass fibre	DK - Denmark	0,0%
M	Terminal	Variety of components	CN - China	0,0%
N	Cord & wires	Rubber, silicon and copper	IT - Italy	0,9%
O	LED	Variety of components	US - United States	0,0%
P	Surge protection	Variety of components	CN - China	0,4%
Q	Driver	Variety of components	IT - Italy	1,2%
R	Foam	Plastic - EPS foam	US - United States	0,7%
S	Instruction and labels	Paper	DK - Denmark	0,1%
T	Cardboard	Corrugated cardboard	DE - Germany	4,5%
U	Cardboard & inserts	Corrugated cardboard	US - United States	9,0%
				100%

Life Cycle Screening

Background

Our Carbon Footprint is the total quantity of greenhouse gas (GHG) emissions associated with the full lifecycle of the product. In this case, that includes the impacts associated with raw materials and emissions from manufacturing (materials and resources), transport, in use (cleaning) impacts and impacts at end of life (reuse, recycling, incineration, landfill etc.).

Basis of calculation

This is calculated according to the EU Product Environmental Footprint and presented according to ISO 14067 (Carbon footprint of products).

EU Product Environmental Footprint (PEF)

The PEF methodology is a new standard, initiated by the European Commission.
The mission: to strengthen the (European) market for green alternatives and ensure that environmental impacts are transparently assessed.

European Commission

Use stage

The product use stage is calculated for a lifetime of 15 years with 1.000 hours of use each year in Europa, as required by the reference in PEF.

The electricity is based on the European energy mix, with data from: The European Environment Agency Greenhouse gas emission intensity of electricity generation.

Transport

There is calculated with 1.000 km of transport of the product from the factory to end-customer, as required by the reference in PEF.

Uncertainties associated with these calculations

Calculation of the emission level is associated with uncertainties, therefor the result can vary from the actual level, by using the PEF method the uncertainties are embedded in the Life Cycle Screening result using statistical methods.

Life Cycle Screening results

Product that has been calculated as a reference for the product family:

Flindt Bollard, 800 mm, post w/base plate, aluminium colour texture, 15 Watt.

Production of the product

Total Climate emission:

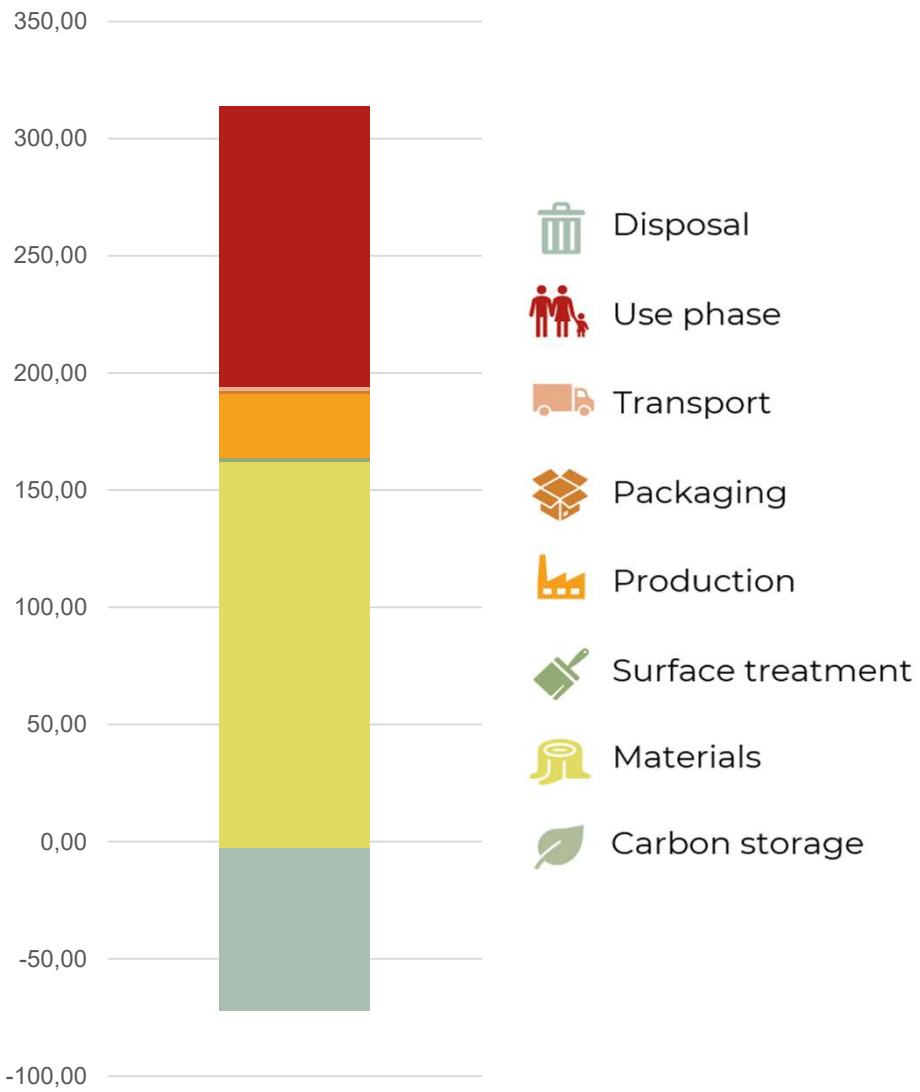
130 KG CO2-e

Production of the product and use stage

Total Climate emission:

240 KG CO2-e

Carbon stages



Main emission sources *(pr material group)**

Group	Total impact
Solid Wood	**0,00** *kg CO2-e*
Plastic	**4,81** *kg CO2-e*
Cover	**0,00** *kg CO2-e*
Standard Components	**0,00** *kg CO2-e*
Electronics	**3,35** *kg CO2-e*
Metal	**111,51** *kg CO2-e*
Packaging	**1,97** *kg CO2-e*
Upholstery	**0,00** *kg CO2-e*
Wood Based Board	**0,00** *kg CO2-e*
Surface Finish & Chemicals	**4,08** *kg CO2-e*
Glass / Stone / Ceramics	**0,00** *kg CO2-e*

*) The values presented here, is total emission pr material group (incl. Material, production, transport, Waste, CO2e uptake)

Main emission sources *(pr element)**

Element	Material	Total impact
Electricity	0	**115,53** *kg CO2-e*
Head and pole with grove	Alu. cast	**102,37** *kg CO2-e*
Tube	Alu. tube/profile	**5,14** *kg CO2-e*
Cleaning & maintenance	Cleaning, maintenance & Product Loss	**2,59** *kg CO2-e*
DRIVER 20W TCI DC MINIJOLLY BI 1-10V	Power supply with cables + connectors kg	**2,43** *kg CO2-e*
Driver plates	Alu. sheet, punched	**2,21** *kg CO2-e*
Pole with grove- G3 ALU COLOUR, STRUC. (162)	Or kg powder consumed	**2,14** *kg CO2-e*
LED COVER CLEAR FLINDT ¶	PC, molded	**2,01** *kg CO2-e*
Transport leg 1	Freight/bulk – via transport hubs (Less than Full-load)	**1,66** *kg CO2-e*
PLASTIC PARTS	Polyamide (PA6), molded	**1,32** *kg CO2-e*
PLASTIC PARTS	EPDM rubber, molded	**0,23** *kg CO2-e*
	Total impact from Waste	**22,57** *kg CO2-e*

*) The values presented here, is total emission pr element (incl. Material, production, transport, Waste, CO2e uptake)