ELKO RS16

Surface mounted boxes

Environmental Profile



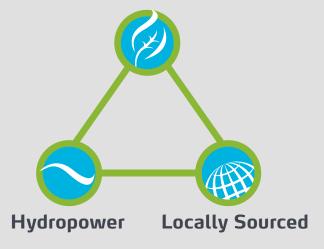








Environmental considerations



We at ELKO take environmental considerations by combining innovation and ongoing improvements in the development, manufacturing and distribution of our products

Products for the environment and the future

ELKO is a Nordic leader in manufacturing of electrical installation equipment. We have always strived to have as clean and efficient production as possible. Reduced environmental impact is achieved through environmentally friendly design, optimized manufacturing, and through high longevity of installed products. One of the reasons for ELKO's success has been our reputation for rugged designs and high reliability.

ELKO has a manufacturing plant in a scenic location not far from Oslo, close to suppliers of clean hydroelectric power. Products manufactured outside this plant are produced within, or close to, the Nordic region. This ensures a minimum of transport when supplying the Nordic market. We pursue a high environmental standard in our activities. We use environmentally conscious suppliers. We have a continuous focus on achieving a minimum resource and material consumption. Training of personnel is a part of this effort.

ELKO has ISO 9001 (quality management) and ISO 14001 (environment) certifications, and is a member of El-Retur (Norway and Sweden), and REPA-registered (Sweden).



Product overview

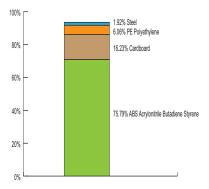
The ELKO RS16 surface mounted housings are products that are designed for surface mounting in homes and buildings.

This range consists of the following ELKO RS16 products: double corner box, spacer for 1.5 frame, single, double, triple and four-way surface mounted boxes that comes in two depths:

- 25 mm outside depth / 20 mm build height, and
- 40 mm outside depth / 35 mm build height.

These products are all in a white, unpainted, version.

A representative product in terms of complexity and manufactured volumes has been used for the analysis. This is the ELKO RS16 double corner box, ELKO reference number 6769.



Constituent materials



The mass of the products in this product range is from 36 g to 94 g, packaging not included. The

mass is 86.67 g for the ELKO RS16 double corner box, reference 6769.



PEP for ELKO RS16 Surface mounted housings



Manufacturing



The ELKO RS16 surface mounted housing range is manufactured on a site with ISO14001 certi-

fied environmental management system.

Distribution



The mass and volume of the packaging have been optimized, based on the European Union's packaging directive.

The mass of the ELKO RS16 double corner box packaging materials is 25.03 g. It consists of 18.23 g cardboard and 6.80 g LDPE.

Use



RS₁₆ surface mounted housing range do not generate environmental emissions during normal use.

End of life



recovery of components and materials at the end of life. Most parts are marked according to ISO 11469 and ISO 1043 series for easy recycling.

The products in this range do not need any special end-of-life treatment. These products can enter the usual end-of-life treatment process according to each country's normal practice. The recycling potential of the products has been evaluated using ADEME (version V1, September 20, 2008).

As described in the recyclability calculation method this ratio includes only metals and plastics which have proven industrial recycling processes.

Environmental indicators	Unit	For one ELKO RS16 double corner box, reference 6769					
		S = M + D + I + U + E	М	D	I	U	Е
Raw Material Depletion	10 ⁻¹⁸ /year	21.3	20.9	0.2	0.0	0.0	0.2
Energy Depletion	MJ	14.18	13.88	0.13	0.00	0.00	0.17
Water depletion	dm³	4.04	4.01	0.01	0.00	0.00	0.02
Global Warming	g CO ₂	646.05	622.18	10.58	0.00	0.00	13.29
Ozone Depletion	μg CFC-11	105.39	88.47	7.52	0.00	0.00	9.40
Air Toxicity	10 ³ .m ³	104.03	99.52	2.00	0.00	0.00	2.50
Photochemical Ozone Creation	mg C₂H₄	3 ⁸ 5.33	364.89	9.09	0.00	0.00	11.36
Air acidification	mg H+	80.59	77-54	1.36	0.00	0.00	1.69
Water Toxicity	dm³	343.49	340.50	1.33	0.00	0.00	1.66
Water Eutrophication	mg PO ₄	88.93	88.53	0.18	0.00	0.00	0.22
Hazardous waste production	g	24.93	24.92	0.00	0.00	0.00	0.00



Environmental impacts



turing [M], Distribution [D], Installation [I], Use [U], and End-of-life [E]. Products in this range do not have

any environmental impact during the Installation phase.

Modelling hypothesis and method:

- The calculation was performed on the ELKO RS16 double corner box, reference 6769.
- Product packaging is included.
- Installation components: no additional components are included.
- Scenario for the Use phase: this

product range is included in the category Enclosures. (Assumed service life is 20 years.)

The electrical power model used for calculation is the European model.

End-of-life impacts are based on a

worst case transport distance to the recycling plant (1000 km).



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