

COMPACT

ENVIRONMENTAL PRODUCT DECLARATION

COMPANY INFORMATION:

REC Indovent AB

info@rec-indovent.se

www.rec-indovent.se

Quality certified

ISO 9001:2015

Environmental certified

ISO 14001:2015

Following data concerns Compact with standard length 3 m, in extended state, and inner diameter of 160 mm.

1. PRODUCT DESCRIPTION

Compact is an extensible aluminium duct.
For recommended range of application we refer to the product catalogue.
Compact has Type Approval Certificate no 3439/83.

2. DECLARATION OF CONTENTS

Compact 2000 is made of corrugated, folded aluminium strips.

The product does not contain substances that are included in the Priority guide PRIO from Swedish National Chemical Inspectorate.

3. INPUT MATERIALS

Material:	weight-%	weight(kg)
Low alloy-treated aluminium	100	0,79

The data below is based on 0 % recycling level of the aluminium.

Energy consumption during aluminium production:
160,9 MJ/Compact

Emissions to water during aluminium production (expressed as g/Compact):

Chloride (Cl ⁻)	45,01
Sulphuric acid (H ₂ SO ₄)	26,72
Suspended particles in exhaust water	3,75
Organic carbon (including oil + grease)	0,93
COD	0,24

Emissions to air during aluminium production (expressed as g/Compact 2000):

Carbon dioxide (CO ₂)	9257,50
Carbon monoxide (CO)	75,50
Sulphur oxides (SO _x)	57,90
Nitrogen oxides (NO _x)	22,14
Dust	22,06
Methane (CH ₄)	17,48

4. PRODUCTION

Energy consumption during production phase:
Estimated to 3,5 MJ/Compact

Emissions to water: Does not exist

Emissions to air: Negligible

Production waste (rest products):

2 % of used material per product form production waste. The waste is recycled.

5. DISTRIBUTION OF FINAL PRODUCT

Packing materials: Corrugated cardboard.

The packing material can be recycled and then re-used, producing either new material or energy.

Transportation:

Average emissions from transportation by truck for 100 km (26 tonnes), expressed with characterization factors for a functional unit, weight 0,79 kg:

GWP	0,004 kg CO ₂ -equivalents
AP	0,00002 kg SO ₂ -equivalents
POCP	0,0034 g ethene-equivalents
EP	0 kg PO ₄ ³⁻ -equivalents

The majority of REC Indovent ABs transportations are carried out by truck.

6. USING PHASE

The product is emission free during use.

7. DISPOSED PRODUCT

The disposed product does not contain environmentally hazardous waste. Materials that are parts of the disposed product should be separated in order to enable re-use alternatively recycling.

8. ENVIRONMENTAL IMPACT

Environmental impact that the largest emissions are associated with:

Chloride	No environmental effect
Sulphuric acid	Acidification
Carbon dioxide	Greenhouse effect
Carbon monoxide	Deterioration of absorption of oxygen of the blood
Sulphur oxides	Acidification
Nitrogen oxides	Ground level ozone, acidification, nutrification
Methane	Greenhouse effect

The production of aluminium results in 4,3 g environmentally hazardous waste per Compact.

9. OTHER INFORMATION

Characterization factors according to SS-EN15804. Calculated according to the standard SS-EN 15978. TYPE II - ISO 14025

Characterization factors for production phase:

GWP	(Global Warming Potential)
AP	(Acidification Potential)
POCP	(Photochemical Ozone Creation Potential)
EP	(Eutrophication potential)

9,65 kg CO ₂ - equivalents
0,081 kg SO ₂ - equivalents
8,66 g ethene-e equivalents
0,0029 kg PO ₄ ³⁻ - equivalents