

## FE Flexible duct

### 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 1 meter FE flexible duct with inner/outer dimension 160/165 mm.**

#### 1. PRODUCT DESCRIPTION

FE is a flexible duct to be used in existing ventilation and exhaust outlet ducts.  
 FE has Type approval certificate no 0699.  
 For recommended range of application we refer to the product catalogue.

#### 2. DECLARATION OF CONTENTS

The duct is made of corrugated, seamed aluminium plated steel.  
 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)
Aluminium plated steel	100	1,00

The product consists of 100 % virgin material.

#### Energy consumption during material production:

Material:	MJ/FE:
Aluminium plated steel	3,53

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

Nitrate (NO <sub>3</sub> <sup>-</sup> )	0,56
Total nitrogen (N <sub>tot</sub> )	0,11
COD	0,023
Suspended particles	5,94*10 <sup>-3</sup>
Fluoride (F <sup>-</sup> )	3,17*10 <sup>-3</sup>
Nickel (Ni)	1,78*10 <sup>-3</sup>

#### Emissions to air during material production (expressed as g/FE):

Carbon dioxide (CO <sub>2</sub> )	451,99
Nitrogen oxides (NO <sub>x</sub> )	0,86
Sulphur oxides (SO <sub>x</sub> )	0,16
Hydrocarbons (HC)	0,079
Dust	0,066

#### 4. PRODUCTION

**Energy consumption during production phase:**  
 Estimated to 4,9 MJ/FE

**Emissions to water:** Does not exist  
**Emissions to air:** Negligable

**Production waste (restproducts):**  
 For each product 1-2 % of total steel consumption forms waste.  
 The production waste is recycled.

#### 5. DISTRIBUTION OF FINAL PRODUCT

**Packing material:** Corrugated cardboard, plastic film and wooden loading pallet.

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

REC Indovent is affiliated with REPA (Return system for packing material)

#### Transportation:

Way of transportation: Truck  
 Fuel: Diesel Swedish Environmental Class 1 (0,001 % sulphur)

#### Estimated emissions due to transportation (expressed as g/FE):

Carbon dioxide (CO <sub>2</sub> )	322,94
Nitrogen oxides (NO <sub>x</sub> )	6,76
Carbon oxide (CO)	1,26

#### 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:**

Nitrate	Nitrification, acidification
Total nitrogen	Nitrification
COD	Consumption of oxygen in seas and lakes
Carbon dioxide	Greenhouse effect
Nitrogen oxides	Groundlevel ozone, acidification, nitrification
Sulphur oxides	Acidification

#### 9. OTHER INFORMATION

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

Characterization factors:	GWP	(Global Warming Potential [CO <sub>2</sub> -equivalent] )	774,93
AP	(Acidification Potential [H <sup>+</sup> /g] )		0,17
POCP	(Photochemical Ozone Creation Potential [ethene-equivalent] )		0,027
NP	(Nitrification Potential [g O <sub>2</sub> /g] )		50,40
HT	(Human Toxicity potential )		6,20