

YGVN

ENVIRONMENTAL PRODUCT DECLARATION

COMPANY INFORMATION:

REC Indovent AB

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Quality certified

ISO 9001:2015

Environmental certified

ISO 14001:2015

Following data denotes YGVN grille in size 200*200 mm.

1. PRODUCT DESCRIPTION

YGVN external wall grille is mainly used as an intake grille for fresh air.

For recommended range of application we refer to the product catalogue.

2. DECLARATION OF CONTENTS

The grille is moulded of aluminium. The back of the grille is equipped with a mosquito net.

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	95,60	0,688
Stainless steel	4,40	0,032

Energy consumption during material production

Material:	MJ/YGVN
Aluminium	30,53
Stainless steel	0,11
Total:	30,64

Emissions to water during material production (expressed as g/YGVN):

Gypsum (Anhydrite, CaSO ₄)	41,28
COD	25,27
Fluoride (F ⁻)	1,14
BOD	1,09
Total nitrogen (N _{tot})	6,08*10 ⁻³

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

Carbon dioxide (CO ₂)	131,13
Dust	7,52
Nitrogen oxides (NO _x)	0,35
Total fluoride (F _{tot})	0,30
Sulphur oxides (SO _x)	0,094
Chlorine gas (Cl ₂)	0,076

4. PRODUCTION

Energy consumption during production phase:

No data available

Emissions to water: No data available

Emissions to air: No data available

Production waste (rest products):

No data available

5. DISTRIBUTION OF FINAL PRODUCT

Packing material: Cardboard paper
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 0,72kg:

GWP	0,0037 kg CO ₂ -equivalents
AP	0,012 g SO ₂ - equivalents
POCP	0,0021 g ethene-equivalents
EP	0,0031 g PO ₄ ³⁻ -equivalents

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

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:

Gypsum	Irritant action on mucous membranes and respiratory tract
COD + BOD	Consumption of oxygen in seas and lakes
Total nitrogen	Nitrification
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 for production phase:

GWP (Global Warming Potential)

AP (Acidification Potential)

POCP (Photochemical Ozone Creation Potential)

EP (Eutrophication potential)

0,13 kg CO₂- equivalents

0,29 g SO₂- equivalents

0,00086 g ethene-e equivalents

0,60 g PO₄³⁻- equivalents