

# A25 DUCT INSULATION AND PROTECTION AGAINST CONDENSATION

## ENVIRONMENTAL PRODUCT DECLARATION

COMPANY INFORMATION: REC Indovent AB

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Quality certified ISO 9001:2015  
Environmental certified ISO 14001:2015

Following data concerns 5 m of A25 with dimension 125 mm.

### 1. PRODUCT DESCRIPTION

A25 is suitable for ventilation ducts where protection against condensation and/or thermal insulation is required. For recommended range of application we refer to the product sheet.

### 2. DECLARATION OF CONTENTS

A25 has a 25 mm mineral wool blanket insulation and a cover of aluminium. The aluminium is lined with polyethylene and polyester film.

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)
Mineral wool	82,3	1,14
Aluminium film	5,4	0,075
Polyethylene	4,9	0,068
Polyester	4,9	0,068

Data for aluminium is based on 70 % recycled material.

### Energy consumption during material production

Material:	MJ/A25
Mineral wool	31,47
Aluminium film	8,30
Polyethylene	5,44
Polyester	5,14
Total	50,35

### Emissions to water during material production (expressed as g/A25):

Chloride (Cl)	1,81
Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> )	0,90
Dissolved organic compounds	0,68
Suspended material	0,20
COD	0,20

### Emissions to air during material production (expressed as g/A25):

Carbon dioxide (CO <sub>2</sub> )	1515,90
Sulphur oxides (SO <sub>x</sub> )	5,71
Nitrogen oxides (NO <sub>x</sub> )	5,14
Carbon monoxide (CO)	4,18
Ammonium hydrate (NH <sub>3</sub> )	3,42
Dust	3,11

### 4. PRODUCTION

**Energy consumption during production phase:**  
0,05 kWh/5m

**Emissions to water:** Does not exist

**Emissions to air:** Does not exist

### Production waste (rest products):

5 cm of waste per 5 m of product. Waste of aluminium is recycled, mineral wool goes to landfill.

### 5. DISTRIBUTION OF FINAL PRODUCT

**Packing material:** Wooden pallet, shrink film and plastic band.

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

REC Indovent AB is affiliated with REPA. (return system for packing material).

### Transportation:

Average emissions from transportation by truck for 100 km (26 tonnes), expressed with characterization factors for a functional unit, weight 1,35 kg:

<b>GWP</b>	0,05 kg CO <sub>2</sub> -equivalents
<b>AP</b>	0,18 g SO <sub>2</sub> -equivalents
<b>POCP</b>	0,028 g ethene-equivalents
<b>EP</b>	0,042 g PO <sub>4</sub> <sup>3-</sup> -equivalents

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

### 6. USING PHASE

Please see product sheet

### 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
Dissolved organic substances	Consumption of oxygen in seas and lakes
Carbon dioxide	Greenhouse effect
Sulphur oxides	Acidification
Nitrogen oxides	Groundlevel ozone, acidification, nitrification
Carbon monoxide	Deterioration of absorption of oxygen of the blood

### 9. OTHER INFORMATION

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

<b>Characterization factors for production phase:</b>	<b>GWP</b> (Global Warming Potential)	1,57 kg CO <sub>2</sub> - equivalents
	<b>AP</b> (Acidification Potential)	0,015 kg SO <sub>2</sub> - equivalents
	<b>POCP</b> (Photochemical Ozone Creation Potential)	1,25 g ethene-e equivalents
	<b>EP</b> (Eutrophication potential)	0,067 g PO <sub>4</sub> <sup>3-</sup> - equivalents