

PE30

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 4 m of PE30 with dimension 160 mm.

1. PRODUCT DESCRIPTION

PE30 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

PE30 has a 25 mm mineral wool blanket insulation and a cover of polyethylene.

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	65	0,8
Polyethylene film	35	0,44
Total		1,22

Energy consumption during material production

Material:	MJ/PE30
Mineral wool	22,08
Polyethylene film	49,5
Total	71,6

Emissions to water during material production (expressed as g/PE30):

COD	0,21
Chrome trioxide (CrO ₃)	0,12
Suspended material	0,10
Natrium(Na ⁺)	0,08

Emissions to air during material production (expressed as g/PE30):

Carbon dioxide (CO ₂)	1340,00
Nitrogen oxides (NO _x)	5,82
Sulphur oxides (SO _x)	3,65
Hydro Carbons (HC)	2,99
Methane (CH ₄)	2,55
Ammonium hydrate (NH ₃)	2,40

4. PRODUCTION

Estimated energy consumption during production phase:

1 MJ /4 m PE30

Emissions to water: Does not exist

Emissions to air: Does not exist

Production waste (rest products):

Approximately 0,5 % of the raw material forms waste. Waste of polyethylene is recycled, mineral wool goes to landfill.

5. DISTRIBUTION OF FINAL PRODUCT

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

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

Transportation:

Average emissions from transportation by truck for 100 km (26 tonnes), expressed with characterization factors for a functional unit, weight 1,22 kg:

GWP	0,006 kg CO ₂ -equivalents
AP	0,00002 kg SO ₂ - equivalents
POCP	0,0035 g ethene-equivalents
EP	0,00001 kg PO ₄ ³⁻ -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:

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)	0,13 kg CO ₂ - equivalents
AP (Acidification Potential)		0,29 g SO ₂ - equivalents
POCP (Photochemical Ozone Creation Potential)		0,00086 g ethene-e equivalents
EP (Eutrophication potential)		0,60 g PO ₄ ³⁻ - equivalents