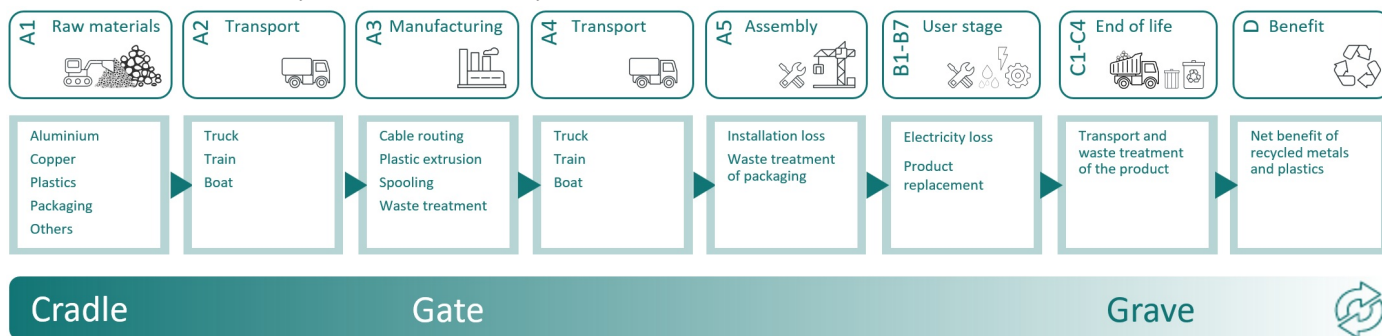


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

System boundary:

The flowchart below illustrates the system boundaries of the analysis:



Additional technical information:

Article 20155130AFUMEX PLUS 5G2,5 represent the product with the highest expenditure of materials, and energy consumption during manufacturing of the following articles in the product family:

- 20155125 AFUMEX PLUS 3G1,5 R100
- 20235709 AFUMEX PLUS 3G1,5 R100/4800
- 20235710 AFUMEX PLUS 3G1,5 T500
- 20235711 AFUMEX PLUS 3G2,5 R100/3600
- 20235712 AFUMEX PLUS 3G2,5 T500
- 20155046 AFUMEX PLUS 5G1,5 R100
- 20235713 AFUMEX PLUS 5G1,5 R100/3600
- 20235714 AFUMEX PLUS 5G1,5 T500
- 20235715 AFUMEX PLUS 5G2,5 R100/3000
- 20235716 AFUMEX PLUS 5G2,5 T500

Additional Norwegian requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Electricity, Finland (kWh)	ecoinvent 3.6	255,20	g CO ₂ -eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Danish List of Undesirable Substances.

Indoor environment

Additional Environmental Information

Environmental impact indicators EN 15804+A1 and NPCR Part A v2.0									
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3
GWP	kg CO ₂ -eq	9,77E-01	2,94E-02	3,33E-02	2,64E-02	2,42E-02	0	0	0
ODP	kg CFC11 -eq	5,29E-08	5,53E-09	4,46E-09	4,83E-09	1,36E-09	0	0	0
POCP	kg C ₂ H ₄ -eq	2,56E-03	4,40E-06	3,67E-06	7,07E-06	5,15E-05	0	0	0
AP	kg SO ₂ -eq	6,45E-02	8,46E-05	7,68E-05	2,14E-04	1,29E-03	0	0	0
EP	kg PO ₄ ³⁻ -eq	3,24E-03	9,23E-06	1,06E-05	2,34E-05	6,54E-05	0	0	0
ADPM	kg Sb -eq	4,32E-04	4,96E-07	1,79E-07	3,86E-07	8,65E-06	0	0	0
ADPE	MJ	1,46E+01	4,50E-01	6,80E-01	3,90E-01	3,22E-01	0	0	0
GWPIOBC	kg CO ₂ -eq	1,02E+00	2,97E-02	2,84E-02	2,67E-02	2,48E-02	0	0	0

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP	kg CO ₂ -eq	0	0	3,14E+00	0	0	5,42E-03	1,40E-01	4,81E-03	-2,82E-02
ODP	kg CFC11 -eq	0	0	8,73E-08	0	0	1,03E-09	9,70E-11	2,69E-10	-1,70E-09
POCP	kg C ₂ H ₄ -eq	0	0	3,15E-04	0	0	7,07E-07	1,83E-07	9,28E-07	-1,26E-04
AP	kg SO ₂ -eq	0	0	6,84E-03	0	0	1,09E-05	1,22E-05	3,46E-06	-3,04E-03
EP	kg PO ₄ ³⁻ -eq	0	0	1,27E-03	0	0	1,19E-06	3,81E-06	3,04E-06	-1,39E-04
ADPM	kg Sb -eq	0	0	2,00E-05	0	0	9,36E-08	5,01E-09	8,65E-09	-1,97E-05
ADPE	MJ	0	0	2,91E+01	0	0	8,36E-02	9,27E-03	2,29E-02	-2,82E-01
GWPIOBC	kg CO ₂ -eq	0	0	3,14E+00	0	0	5,48E-03	1,40E-01	8,27E-04	-1,80E-02

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources; GWP-IIBC/GHG Global warming potential calculated according to the principle of instantaneous oxidation (except emissions and uptake of biogenic carbon)

