

Annex

For the following facing options, applicable to ROCKWOOL technical insulation products:

non woven glass fleece, aluminium foil, kraft paper and steel mesh

to the

ENVIRONMENTAL PRODUCT DECLARATION

as per /ISO 14025/ and /EN 15804/

Owner of the Declaration	ROCKWOOL International A/S (ROCKWOOL Nordics)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
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ROCKWOOL stone wool technical insulation
ROCKWOOL International A/S (ROCKWOOL Nordics)

www.ibu-epd.com / <https://epd-online.com>



LCA: Results for the facing options

The LCA approach for the facings options follows the general methodology and assumptions from ROCKWOOL International, as these are explained in the background methodology report and have been verified and approved. This Annex is not a stand-alone document and it is used as a supplementary file to the verified EPD for thermal Insulation for ROCKWOOL Nordics.

Below the impact assessment results and life cycle indicators are presented, for all the possible facing options that can be available in a ROCKWOOL Nordics Thermal Insulation product. If the provided product has the specific facing, its final impact result is given by adding the result of the product, as calculated above, and the result of the specific facing option. Both results are expressed per m² therefore no additional conversion is needed, the final result is given by the formula:

$$\text{Environmental Impact per m}^2_{\text{product X-with facing}} = \text{Environmental Impact}_{\text{product X without facing}} + \text{Environmental Impact}_{\text{facing material}}$$

The disposal scenario for the fibrous tissue is assumed to be landfill for all the facing options.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE			BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES	
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	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	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 m² Non-Woven Glass Fleece

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
GWP	[kg CO ₂ -Eq.]	2,27E-01	2,50E-03	0,00E+00	0,00E+00	0,00E+00	8,79E-04	0,00E+00	1,58E-03	0,00E+00
ODP	[kg CFC11-Eq.]	1,25E-15	1,00E-15	0,00E+00	0,00E+00	0,00E+00	2,93E-16	0,00E+00	1,65E-15	0,00E+00
AP	[kg SO ₂ -Eq.]	1,21E-03	3,33E-06	0,00E+00	0,00E+00	0,00E+00	7,93E-07	0,00E+00	9,39E-06	0,00E+00
EP	[kg (PO ₄) ³ -Eq.]	8,44E-05	5,00E-07	0,00E+00	0,00E+00	0,00E+00	1,65E-07	0,00E+00	1,27E-06	0,00E+00
POCP	[kg ethene-Eq.]	8,33E-05	8,33E-09	0,00E+00	0,00E+00	0,00E+00	3,79E-09	0,00E+00	7,50E-07	0,00E+00
ADPE	[kg Sb-Eq.]	8,27E-06	2,50E-10	0,00E+00	0,00E+00	0,00E+00	6,98E-11	0,00E+00	5,80E-10	0,00E+00
ADPF	[MJ]	3,19E+00	4,17E-02	0,00E+00	0,00E+00	0,00E+00	1,20E-02	0,00E+00	2,08E-02	0,00E+00

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources

RESULTS OF THE LCA - RESOURCE USE: Non-Woven Glass Fleece

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
PERE	[MJ]	5,35E-01	1,67E-03	0,00E+00	0,00E+00	0,00E+00	5,95E-04	0,00E+00	2,50E-03	0,00E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	5,35E-01	1,67E-03	0,00E+00	0,00E+00	0,00E+00	5,95E-04	0,00E+00	2,50E-03	0,00E+00
PENRE	[MJ]	3,44E+00	4,17E-02	0,00E+00	0,00E+00	0,00E+00	1,20E-02	0,00E+00	2,16E-02	0,00E+00
PENRM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,44E+00	4,17E-02	0,00E+00	0,00E+00	0,00E+00	1,20E-02	0,00E+00	2,16E-02	0,00E+00
SM	[kg]	3,16E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	8,02E-04	4,17E-06	0,00E+00	0,00E+00	0,00E+00	1,11E-06	0,00E+00	4,05E-06	0,00E+00

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES:

Non-Woven Glass Fleece

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
HWD	[kg]	3,73E-09	2,14E-09	0,00E+00	0,00E+00	0,00E+00	6,30E-10	0,00E+00	3,43E-10	0,00E+00
NHWD	[kg]	1,91E-02	3,11E-06	0,00E+00	0,00E+00	0,00E+00	9,17E-07	0,00E+00	1,01E-01	0,00E+00
RWD	[kg]	1,14E-04	5,56E-08	0,00E+00	0,00E+00	0,00E+00	1,64E-08	0,00E+00	2,96E-07	0,00E+00
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Caption: HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE								END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	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	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X	

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 m² Aluminium Foil

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
GWP	[kg CO ₂ -Eq.]	7,26E-01	1,67E-03	0,00E+00	0,00E+00	0,00E+00	6,57E-04	0,00E+00	1,21E-03	0,00E+00
ODP	[kg CFC11-Eq.]	8,33E-12	7,50E-16	0,00E+00	0,00E+00	0,00E+00	2,21E-16	0,00E+00	1,23E-15	0,00E+00
AP	[kg SO ₂ -Eq.]	3,47E-03	2,50E-06	0,00E+00	0,00E+00	0,00E+00	5,93E-07	0,00E+00	7,18E-06	0,00E+00
EP	[kg (PO ₄) ³ -Eq.]	2,15E-04	4,17E-07	0,00E+00	0,00E+00	0,00E+00	1,25E-07	0,00E+00	9,78E-07	0,00E+00
POCP	[kg ethene-Eq.]	2,21E-04	8,33E-09	0,00E+00	0,00E+00	0,00E+00	2,80E-09	0,00E+00	5,65E-07	0,00E+00
ADPE	[kg Sb-Eq.]	3,52E-07	2,50E-10	0,00E+00	0,00E+00	0,00E+00	5,25E-11	0,00E+00	4,35E-10	0,00E+00
ADPF	[MJ]	8,18E+00	3,33E-02	0,00E+00	0,00E+00	0,00E+00	8,97E-03	0,00E+00	1,57E-02	0,00E+00

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources

RESULTS OF THE LCA - RESOURCE USE: Aluminium Foil

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
PERE	[MJ]	5,26E-01	5,83E-03	0,00E+00	0,00E+00	0,00E+00	1,86E-03	0,00E+00	7,84E-03	0,00E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	5,26E-01	5,83E-03	0,00E+00	0,00E+00	0,00E+00	1,86E-03	0,00E+00	7,84E-03	0,00E+00
PENRE	[MJ]	8,25E+00	1,25E-01	0,00E+00	0,00E+00	0,00E+00	3,70E-02	0,00E+00	6,64E-02	0,00E+00
PENRM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	8,25E+00	1,25E-01	0,00E+00	0,00E+00	0,00E+00	3,70E-02	0,00E+00	6,64E-02	0,00E+00
SM	[kg]	3,16E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,32E-03	1,17E-05	0,00E+00	0,00E+00	0,00E+00	3,46E-06	0,00E+00	1,28E-05	0,00E+00

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES:

Aluminium Foil

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
HWD	[kg]	7,36E-09	1,60E-09	0,00E+00	0,00E+00	0,00E+00	4,72E-10	0,00E+00	2,57E-10	0,00E+00
NHWD	[kg]	1,87E-01	2,34E-06	0,00E+00	0,00E+00	0,00E+00	6,88E-07	0,00E+00	7,54E-02	0,00E+00
RWD	[kg]	6,25E-04	4,17E-08	0,00E+00	0,00E+00	0,00E+00	1,23E-08	0,00E+00	2,22E-07	0,00E+00
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Caption: HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	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	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 m² Kraft Paper

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
GWP	[kg CO ₂ -Eq.]	-9,37E-02	2,50E-03	0,00E+00	0,00E+00	0,00E+00	7,67E-04	0,00E+00	9,85E-02	0,00E+00
ODP	[kg CFC11-Eq.]	8,33E-12	9,17E-16	0,00E+00	0,00E+00	0,00E+00	2,59E-16	0,00E+00	1,55E-14	0,00E+00
AP	[kg SO ₂ -Eq.]	1,76E-04	2,50E-06	0,00E+00	0,00E+00	0,00E+00	6,98E-07	0,00E+00	2,66E-05	0,00E+00
EP	[kg (PO ₄) ³ -Eq.]	5,03E-05	5,00E-07	0,00E+00	0,00E+00	0,00E+00	1,47E-07	0,00E+00	3,41E-05	0,00E+00
POCP	[kg ethene-Eq.]	2,33E-05	8,33E-09	0,00E+00	0,00E+00	0,00E+00	3,28E-09	0,00E+00	2,45E-05	0,00E+00
ADPE	[kg Sb-Eq.]	3,26E-08	2,50E-10	0,00E+00	0,00E+00	0,00E+00	6,12E-11	0,00E+00	1,31E-09	0,00E+00
ADPF	[MJ]	5,18E-01	3,33E-02	0,00E+00	0,00E+00	0,00E+00	1,05E-02	0,00E+00	9,06E-02	0,00E+00

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources

RESULTS OF THE LCA - RESOURCE USE: Kraft Paper

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
PERE	[MJ]	3,14E+00	1,67E-03	0,00E+00	0,00E+00	0,00E+00	5,26E-04	0,00E+00	6,90E-03	0,00E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,14E+00	1,67E-03	0,00E+00	0,00E+00	0,00E+00	5,26E-04	0,00E+00	6,90E-03	0,00E+00
PENRE	[MJ]	6,02E-01	3,33E-02	0,00E+00	0,00E+00	0,00E+00	1,06E-02	0,00E+00	9,40E-02	0,00E+00
PENRM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	6,02E-01	3,33E-02	0,00E+00	0,00E+00	0,00E+00	1,06E-02	0,00E+00	9,40E-02	0,00E+00
SM	[kg]	3,16E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	4,43E-04	3,33E-06	0,00E+00	0,00E+00	0,00E+00	9,83E-07	0,00E+00	1,22E-05	0,00E+00

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES:

Kraft Paper

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
HWD	[kg]	3,81E-08	1,88E-09	0,00E+00	0,00E+00	0,00E+00	5,54E-10	0,00E+00	3,65E-10	-7,50E-11
NHWD	[kg]	9,27E-04	2,74E-06	0,00E+00	0,00E+00	0,00E+00	8,07E-07	0,00E+00	6,52E-02	-3,05E-05
RWD	[kg]	3,55E-05	4,89E-08	0,00E+00	0,00E+00	0,00E+00	1,44E-08	0,00E+00	1,43E-06	-1,27E-06
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Caption: HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	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	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 m² Steel Mesh

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
GWP	[kg CO ₂ -Eq.]	6,38E-01	8,33E-03	0,00E+00	0,00E+00	0,00E+00	2,45E-03	0,00E+00	4,51E-03	0,00E+00
ODP	[kg CFC11-Eq.]	8,34E-12	2,75E-15	0,00E+00	0,00E+00	0,00E+00	8,19E-16	0,00E+00	4,58E-15	0,00E+00
AP	[kg SO ₂ -Eq.]	2,19E-03	7,50E-06	0,00E+00	0,00E+00	0,00E+00	2,22E-06	0,00E+00	2,66E-05	0,00E+00
EP	[kg (PO ₄) ³ -Eq.]	1,88E-04	1,58E-06	0,00E+00	0,00E+00	0,00E+00	4,66E-07	0,00E+00	3,68E-06	0,00E+00
POCP	[kg ethene-Eq.]	2,94E-04	3,33E-08	0,00E+00	0,00E+00	0,00E+00	1,06E-08	0,00E+00	2,12E-06	0,00E+00
ADPE	[kg Sb-Eq.]	5,04E-05	6,67E-10	0,00E+00	0,00E+00	0,00E+00	1,95E-10	0,00E+00	1,62E-09	0,00E+00
ADPF	[MJ]	7,31E+00	1,17E-01	0,00E+00	0,00E+00	0,00E+00	3,37E-02	0,00E+00	5,87E-02	0,00E+00

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources

RESULTS OF THE LCA - RESOURCE USE: Steel Mesh

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
PERE	[MJ]	4,78E-01	5,46E-03	0,00E+00	0,00E+00	0,00E+00	1,68E-03	0,00E+00	7,07E-03	0,00E+00
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	4,78E-01	5,46E-03	0,00E+00	0,00E+00	0,00E+00	1,68E-03	0,00E+00	7,07E-03	0,00E+00
PENRE	[MJ]	7,53E+00	1,16E-01	0,00E+00	0,00E+00	0,00E+00	3,35E-02	0,00E+00	6,03E-02	0,00E+00
PENRM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	7,53E+00	1,16E-01	0,00E+00	0,00E+00	0,00E+00	3,35E-02	0,00E+00	6,03E-02	0,00E+00
SM	[kg]	3,16E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	2,99E-03	1,08E-05	0,00E+00	0,00E+00	0,00E+00	3,12E-06	0,00E+00	1,16E-05	0,00E+00

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES:

Steel Mesh

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
HWD	[kg]	7,98E-09	5,99E-09	0,00E+00	0,00E+00	0,00E+00	1,76E-09	0,00E+00	9,60E-10	0,00E+00
NHWD	[kg]	8,82E-03	8,72E-06	0,00E+00	0,00E+00	0,00E+00	2,57E-06	0,00E+00	2,81E-01	0,00E+00
RWD	[kg]	1,08E-04	1,56E-07	0,00E+00	0,00E+00	0,00E+00	4,58E-08	0,00E+00	8,29E-07	0,00E+00
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Caption: HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy