

This appendix refers to the EPD MD-21013-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

Environmental performance for Steel 1a: DX51D+Z140, t=0,56 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.86E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.28E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.60E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	4.05E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.87E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	2.51E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.21E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.20E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.20E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.35E+01	8.53E-01	1.60E-01	3.16E-02	7.50E-02	3.23E-01	1.72E-02	-1.10E+01
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
PENRT	[MJ]	2.35E+01	8.53E-01	1.60E-01	3.16E-02	7.50E-02	3.23E-01	1.72E-02	-1.10E+01
SM	[kg]	4.16E-01	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
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
FW	[m ³]	2.27E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	3.79E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 2a: S250GD+Z100, t=0,46 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.84E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.25E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.48E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	4.01E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.79E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	2.18E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.18E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.24E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.24E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.40E+01	8.53E-01	1.60E-01	3.16E-02	7.50E-02	3.23E-01	1.72E-02	-1.10E+01
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
PENRT	[MJ]	2.40E+01	8.53E-01	1.60E-01	3.16E-02	7.50E-02	3.23E-01	1.72E-02	-1.10E+01
SM	[kg]	4.13E-01	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
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
FW	[m ³]	2.35E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
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*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	4.90E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
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Environmental performance for Steel 3a: S250GD+Z275, t=0,9 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.88E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.32E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.80E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	4.13E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	9.00E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	3.06E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.26E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
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RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.22E+00	8.17E-03	1,23E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.22E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.23E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.23E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.15E-01	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
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
FW	[m ³]	2.31E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
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*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	4.52E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 3b: S250GD+Z275, t=1,0 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.87E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.29E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.69E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	4.09E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.93E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	2.75E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.23E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.14E+00	8.17E-03	1.23E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.14E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.15E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.15E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.20E-01	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
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
FW	[m ³]	2.17E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	3.37E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 3c: S250GD+275, t=1,50 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.82E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.23E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.36E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	3.96E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.71E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	1.84E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.15E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.22E+00	8.17E-03	1.23E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.22E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.23E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.23E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.15E-01	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
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
FW	[m ³]	2.31E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	4.52E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 4a: S350GD+Z275, t=1,0 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.87E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.29E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.69E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	4.09E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.93E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	2.75E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.23E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.17E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.17E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.18E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.18E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.18E-01	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
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
FW	[m ³]	2.23E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	3.83E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 4b: S350GD+Z275, t=1,25 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.84E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.25E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.49E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	4.01E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.80E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	2.21E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.18E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.14E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.14E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.15E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.15E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.20E-01	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
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
FW	[m ³]	2.17E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	3.37E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 4c: S350GD+Z275, t=1,50 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.82E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.23E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.36E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	3.96E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.71E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	1.84E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.15E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.10E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.10E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.11E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.11E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.22E-01	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
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
FW	[m ³]	2.10E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1,73E-05	-5,45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	2.79E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.95E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 4d: S350GD+Z275, t=2,0 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.80E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.20E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.19E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	3.90E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.60E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	1.39E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.11E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.08E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.08E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.09E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.09E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.24E-01	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
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
FW	[m ³]	2.06E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	2.45E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.94E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 4e: S350GD+Z275, t=2,5 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.78E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.18E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.09E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	3.86E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.54E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	1.12E-03	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.09E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.07E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.07E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.07E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.07E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.25E-01	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
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
FW	[m ³]	2.04E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	2.22E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.94E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Environmental performance for Steel 4f: S350GD+Z275, t=3,0 mm

ENVIRONMENTAL IMPACTS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1.77E+00	5.44E-02	1.44E-02	2.16E-03	4.51E-03	2.07E-02	5.81E-04	-1.05E+00
ODP	[kg CFC11-eq.]	1.16E-07	9.58E-09	4.68E-10	3.70E-10	8.51E-10	2.72E-09	1.89E-10	-5.13E-08
AP	[kg SO ₂ -eq.]	1.03E-02	4.70E-04	3.42E-05	1.61E-05	1.75E-05	2.13E-04	4.16E-06	-4.35E-03
EP	[kg PO ₄ ³⁻ -eq.]	3.83E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	5.65E-05	1.82E-07	-2.40E-03
POCP	[kg ethene-eq.]	8.49E-03	4.85E-04	2.40E-05	3.01E-05	2.57E-05	1.86E-04	6.06E-06	-5.21E-03
ADPE	[kg Sb-eq.]	9.35E-04	8.19E-07	5.07E-08	3.32E-09	7.75E-08	1.22E-06	5.30E-09	-1.93E-05
ADPF	[MJ]	2.07E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.07E+00	8.17E-03	1.24E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PERM	[MJ]	0.00E+00	0.00E+00	7.43E-03*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.07E+00	8.17E-03	1.31E-01	1.61E-04	8.91E-04	4.78E-02	1.31E-04	-1.10E+00
PENRE	[MJ]	2.07E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
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
PENRT	[MJ]	2.07E+01	8.03E-01	1.52E-01	2.98E-02	7.06E-02	3.04E-01	1.62E-02	-1.05E+01
SM	[kg]	4.25E-01	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
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
FW	[m ³]	2.04E-02	8.77E-05	4.84E-04	1.53E-06	8.05E-06	1.44E-04	1.73E-05	-5.45E-03
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								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

*from wood packaging

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	2.22E-04	1.72E-06	7.69E-08	8.10E-08	1.71E-07	9.18E-07	2.42E-08	-7.53E-05
NHWD	[kg]	6.94E-01	5.52E-02	6.99E-03	3.60E-05	6.15E-03	8.96E-03	1.10E-01	6.14E-03
RWD	[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
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
MFR	[kg]	0.00E+00	0.00E+00	4.21E-02	0.00E+00	0.00E+00	8.90E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	7.77E-02	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
EE	[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
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; EE = Exported energy.								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Ninkie Bendtsen
Third party verifier of MD-21013-EN

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