

This appendix refers to the EPD MD-22014-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 2a: S250GD+Z100, t=0.46 mm, b=45 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 <sub>2</sub> -eq.]	1.86E+00	5.41E-02	1.44E-02	2.16E-03	4.51E-03	7.64E-02	1.39E-07	-1.07E+00
ODP	[kg CFC11-eq.]	1.26E-07	9.53E-09	4.68E-10	3.7E-10	8.51E-10	3.04E-09	4.55E-14	-5.1E-08
AP	[kg SO <sub>2</sub> -eq.]	1.48E-02	4.64E-04	3.42E-05	1.61E-05	1.75E-05	2.41E-04	9.99E-10	-4.36E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	3.99E-03	1.21E-05	2.45E-05	2.38E-07	9.82E-07	6.26E-05	4.37E-11	-2.42E-03
POCP	[kg ethene-eq.]	8.99E-03	4.80E-04	2.40E-05	3.01E-05	2.57E-05	2.14E-04	1.45E-09	-5.18E-03
ADPE	[kg Sb-eq.]	2.16E-03	8.16E-07	5.07E-08	3.32E-09	7.75E-08	1.35E-06	1.27E-12	-1.90E-05
ADPF	[MJ]	2.28E+01	7.99E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> 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]	2.19E+00	8.13E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+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]	2.19E+00	8.13E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+00
PENRE	[MJ]	2.28E+01	7.99E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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]	2.28E+01	7.99E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+01
SM	[kg]	4.11E-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 <sup>3</sup> ]	2.27E-02	8.74E-05	4.84E-04	1.53E-06	8.05E-06	1.64E-04	4.15E-09	-6.64E-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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.								

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]	3.75E-04	1.71E-06	7.69E-08	3,75E-04	1.71E-07	1.07E-06	5.81E-12	-7.41E-05
NHWD	[kg]	6.80E-01	5.51E-02	6.95E-03	6,80E-01	6.15E-03	1.03E-02	2.64E-05	9.67E-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	5.91E-06	0,00E+00	0.00E+00	9.82E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	9.22E-07	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0,00E+00	0.00E+00	5.61E-01	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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.								

Environmental performance for Steel 2a: S250GD+Z100, t=0.46 mm, b=70 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 <sub>2</sub> -eq.]	1.86E+00	5.41E-02	1.44E-02	2.16E-03	4.51E-03	8.48E-02	1.39E-07	-1.07E+00
ODP	[kg CFC11-eq.]	1.26E-07	9.52E-09	4.68E-10	3.70E-10	8.51E-10	3.04E-09	4.54E-14	-5.09E-08
AP	[kg SO <sub>2</sub> -eq.]	1.48E-02	4.63E-04	3.42E-05	1.61E-05	1.75E-05	2.41E-04	9.96E-10	-4.36E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	3.99E-03	1.20E-05	2.45E-05	2.38E-07	9.82E-07	6.24E-05	4.36E-11	-2.42E-03
POCP	[kg ethene-eq.]	9.04E-03	4.79E-04	2.40E-05	3.01E-05	2.57E-05	2.15E-04	1.45E-09	-5.17E-03
ADPE	[kg Sb-eq.]	2.15E-03	8.15E-07	5.07E-08	3.32E-09	7.75E-08	1.35E-06	1.27E-12	-1.90E-05
ADPF	[MJ]	2.30E+01	7.98E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.88E-06	-1.07E+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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> 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]	2.19E+00	8.12E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+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]	2.19E+00	8.12E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+00
PENRE	[MJ]	2.30E+01	7.98E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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]	2.30E+01	7.98E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+01
SM	[kg]	4.09E-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 <sup>3</sup> ]	2.27E-02	8.72E-05	4.84E-04	1.53E-06	8.05E-06	1.64E-04	4.15E-09	-6.64E-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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.								

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]	3.74E-04	1.71E-06	7.69E-08	3,74E-04	1.71E-07	1.07E-06	5.81E-12	-7.41E-05
NHWD	[kg]	6.79E-01	5.50E-02	6.95E-03	6,79E-01	6.15E-03	1.03E-02	2.64E-05	9.67E-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	5.91E-06	0,00E+00	0.00E+00	9.82E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	9.22E-07	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0,00E+00	0.00E+00	5.61E-01	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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,0000000000112.								

Environmental performance for Steel 2a: S250GD+Z100, t=0.46 mm, b=95 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 <sub>2</sub> -eq.]	1.87E+00	5.40E-02	1.44E-02	2.16E-03	4.51E-03	8.99E-02	1.39E-07	-1.07E+00
ODP	[kg CFC11-eq.]	1.26E-07	9.51E-09	4.68E-10	3.70E-10	8.51E-10	3.04E-09	4.53E-14	-5.09E-08
AP	[kg SO <sub>2</sub> -eq.]	1.48E-02	4.62E-04	3.42E-05	1.61E-05	1.75E-05	2.41E-04	9.94E-10	-4.37E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	3.99E-03	1.20E-05	2.45E-05	2.38E-07	9.82E-07	6.24E-05	4.35E-11	-2.42E-03
POCP	[kg ethene-eq.]	9.08E-03	4.79E-04	2.40E-05	3.01E-05	2.57E-05	2.15E-04	1.45E-09	-5.17E-03
ADPE	[kg Sb-eq.]	2.15E-03	8.14E-07	5.07E-08	3.32E-09	7.75E-08	1.35E-06	1.27E-12	-1.89E-05
ADPF	[MJ]	2.32E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.87E-06	-1.07E+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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,000000000112.								

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	8.11E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+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	8.11E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+00
PENRE	[MJ]	2.32E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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]	2.32E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+01
SM	[kg]	4.09E-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 <sup>3</sup> ]	2.28E-02	8.72E-05	4.84E-04	1.53E-06	8.05E-06	1.64E-04	4.15E-09	-6.64E-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 <sup>2</sup> or 195, while 1,12E-11 is the same as 1,12*10 <sup>-11</sup> or 0,000000000112.								

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]	3,74E-04	1,71E-06	7,69E-08	3,74E-04	1,71E-07	1,07E-06	5,81E-12	-7,41E-05
NHWD	[kg]	6,78E-01	5,50E-02	6,95E-03	6,78E-01	6,15E-03	1,03E-02	2,64E-05	9,67E-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	5,91E-06	0,00E+00	0,00E+00	9,82E-01	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	9,22E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,61E-01	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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

Environmental performance for Steel 2a: S250GD+Z100. t=0.46 mm. b=120 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 <sub>2</sub> -eq.]	1.87E+00	5.40E-02	1.44E-02	2.16E-03	4.51E-03	9.41E-02	1.39E-07	-1.07E+00
ODP	[kg CFC11-eq.]	1.26E-07	9.50E-09	4.68E-10	3.70E-10	8.51E-10	3.03E-09	4.52E-14	-5.08E-08
AP	[kg SO <sub>2</sub> -eq.]	1.48E-02	4.62E-04	3.42E-05	1.61E-05	1.75E-05	2.41E-04	9.93E-10	-4.37E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	3.99E-03	1.20E-05	2.45E-05	2.38E-07	9.82E-07	6.23E-05	4.34E-11	-2.42E-03
POCP	[kg ethene-eq.]	9.10E-03	4.78E-04	2.40E-05	3.01E-05	2.57E-05	2.16E-04	1.45E-09	-5.17E-03
ADPE	[kg Sb-eq.]	2.14E-03	8.14E-07	5.07E-08	3.32E-09	7.75E-08	1.35E-06	1.27E-12	-1.89E-05
ADPF	[MJ]	2.33E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.40E-01	3.87E-06	-1.07E+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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

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	8.11E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+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	8.11E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+00
PENRE	[MJ]	2.33E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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]	2.33E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+01
SM	[kg]	4.08E-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 <sup>3</sup> ]	2.28E-02	8.71E-05	4.84E-04	1.53E-06	8.05E-06	1.64E-04	4.15E-09	-6.64E-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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

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]	3.73E-04	1.71E-06	7.69E-08	3.73E-04	1.71E-07	1.07E-06	5.81E-12	-7.41E-05
NHWD	[kg]	6.78E-01	5.49E-02	6.95E-03	6.78E-01	6.15E-03	1.03E-02	2.64E-05	9.67E-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	5.91E-06	0.00E+00	0.00E+00	9.82E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-01	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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

Environmental performance for Steel 2a: S250GD+Z100. t=0.46 mm. b=145 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 <sub>2</sub> -eq.]	1.87E+00	5.40E-02	1.44E-02	2.16E-03	4.51E-03	8.54E-02	1.39E-07	-1.07E+00
ODP	[kg CFC11-eq.]	1.26E-07	9.51E-09	4.68E-10	3.70E-10	8.51E-10	3.04E-09	4.53E-14	-5.09E-08
AP	[kg SO <sub>2</sub> -eq.]	1.48E-02	4.63E-04	3.42E-05	1.61E-05	1.75E-05	2.41E-04	9.96E-10	-4.36E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	3.99E-03	1.20E-05	2.45E-05	2.38E-07	9.82E-07	6.24E-05	4.35E-11	-2.42E-03
POCP	[kg ethene-eq.]	9.06E-03	4.79E-04	2.40E-05	3.01E-05	2.57E-05	2.15E-04	1.45E-09	-5.17E-03
ADPE	[kg Sb-eq.]	2.15E-03	8.14E-07	5.07E-08	3.32E-09	7.75E-08	1.35E-06	1.27E-12	-1.90E-05
ADPF	[MJ]	2.31E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.88E-06	-1.07E+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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

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	8.12E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+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	8.12E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+00
PENRE	[MJ]	2.31E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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]	2.31E+01	7.97E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+01
SM	[kg]	4.93E-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 <sup>3</sup> ]	2.28E-02	8.72E-05	4.84E-04	1.53E-06	8.05E-06	1.64E-04	4.15E-09	-6.64E-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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

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]	3.74E-04	1.71E-06	7.69E-08	3.74E-04	1.71E-07	1.07E-06	5.81E-12	-7.41E-05
NHWD	[kg]	6.79E-01	5.50E-02	6.95E-03	6.79E-01	6.15E-03	1.03E-02	2.64E-05	9.67E-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	5.91E-06	0.00E+00	0.00E+00	9.82E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-01	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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

Environmental performance for Steel 2a: S250GD+Z100. t=0.46 mm. b=160 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 <sub>2</sub> -eq.]	1.87E+00	5.40E-02	1.44E-02	2.16E-03	4.51E-03	8.12E-02	1.39E-07	-1.07E+00
ODP	[kg CFC11-eq.]	1.26E-07	9.51E-09	4.68E-10	3.70E-10	8.51E-10	3.04E-09	4.54E-14	-5.09E-08
AP	[kg SO <sub>2</sub> -eq.]	1.49E-02	4.63E-04	3.42E-05	1.61E-05	1.75E-05	2.41E-04	9.97E-10	-4.36E-03
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	4.00E-03	1.20E-05	2.45E-05	2.38E-07	9.82E-07	6.25E-05	4.36E-11	-2.42E-03
POCP	[kg ethene-eq.]	9.05E-03	4.79E-04	2.40E-05	3.01E-05	2.57E-05	2.14E-04	1.45E-09	-5.17E-03
ADPE	[kg Sb-eq.]	2.16E-03	8.15E-07	5.07E-08	3.32E-09	7.75E-08	1.35E-06	1.27E-12	-1.90E-05
ADPF	[MJ]	2.30E+01	7.98E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.88E-06	-1.07E+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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

RESOURCE USE PER 1 kg of light gauge steel profile with foam									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[MJ]	2.19E+00	8.12E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+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]	2.19E+00	8.12E-03	1.31E-01	1.61E-04	8.91E-04	5.28E-02	3.15E-08	-1.20E+00
PENRE	[MJ]	2.30E+01	7.98E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+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]	2.30E+01	7.98E-01	1.52E-01	2.98E-02	7.06E-02	3.41E-01	3.89E-06	-1.06E+01
SM	[kg]	4.10E-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 <sup>3</sup> ]	2.27E-02	8.72E-05	4.84E-04	1.53E-06	8.05E-06	1.64E-04	4.15E-09	-6.64E-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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

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]	3.75E-04	1.71E-06	7.69E-08	8.10E-08	1.71E-07	1.07E-06	5.81E-12	-7.41E-05
NHWD	[kg]	6.80E-01	5.50E-02	6.95E-03	3.52E-05	6.15E-03	1.03E-02	2.64E-05	9.67E-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	5.91E-06	0.00E+00	0.00E+00	9.82E-01	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-01	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 <sup>2</sup> or 195. while 1.12E-11 is the same as 1.12*10 <sup>-11</sup> or 0.000000000112.								

Checked and approved by

Ninkie Bendtsen  
Third party verifier of MD-22014-EN

Martha Katrine Sørensen  
EPD Danmark