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Environmental report

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1 Life Cycle Assessment „HILTI_MRP-C 19_01“

1.1 Technical data and material distribution

Table 1.1: Technical data and material distribution

IT- Number	Product name	Pcs. per salespack	Weight [kg]	Material
2408159	MRP-C 19/10	50	3,7875	Steel, Polymer, Cardboard
2408160	MRP-C 19/12	50	3,8155	Steel, Polymer, Cardboard
2408161	MRP-C 19/14	50	4,0785	Steel, Polymer, Cardboard
2408162	MRP-C 19/15	50	4,1020	Steel, Polymer, Cardboard
2408163	MRP-C 19/16	50	4,1145	Steel, Polymer, Cardboard
2408164	MRP-C 19/17	50	4,1360	Steel, Polymer, Cardboard
2408165	MRP-C 19/18	50	4,1515	Steel, Polymer, Cardboard
2408166	MRP-C 19/20	20	1,8228	Steel, Polymer, Cardboard
2408167	MRP-C 19/21	20	1,8308	Steel, Polymer, Cardboard
2408168	MRP-C 19/22	20	1,8334	Steel, Polymer, Cardboard
2408169	MRP-C 19/25	20	1,8520	Steel, Polymer, Cardboard
2408170	MRP-C 19/26	20	1,8638	Steel, Polymer, Cardboard
2408171	MRP-C 19/28	20	1,8706	Steel, Polymer, Cardboard
2408172	MRP-C 19/32	20	1,9914	Steel, Polymer, Cardboard
2408173	MRP-C 19/33	20	2,0018	Steel, Polymer, Cardboard
2408174	MRP-C 19/35	20	3,4086	Steel, Polymer, Cardboard
2408175	MRP-C 19/40	20	3,3932	Steel, Polymer, Cardboard
2408176	MRP-C 19/42	20	3,4102	Steel, Polymer, Cardboard
2408177	MRP-C 19/48	20	3,6798	Steel, Polymer, Cardboard
2408178	MRP-C 19/50	20	3,6918	Steel, Polymer, Cardboard

IT- Number	Product name	Pcs. per salespack	Weight [kg]	Material
2408179	MRP-C 19/54	20	3,9162	Steel, Polymer, Cardboard
2408180	MRP-C 19/57	20	3,9220	Steel, Polymer, Cardboard
2408181	MRP-C 19/60	20	4,5580	Steel, Polymer, Cardboard
2408182	MRP-C 19/63	20	4,8886	Steel, Polymer, Cardboard
2408183	MRP-C 19/64	20	4,8960	Steel, Polymer, Cardboard
2408184	MRP-C 19/66	20	4,9354	Steel, Polymer, Cardboard
2408185	MRP-C 19/75	10	2,8037	Steel, Polymer, Cardboard
2408186	MRP-C 19/76	10	2,8129	Steel, Polymer, Cardboard
2408187	MRP-C 19/88	10	3,9875	Steel, Polymer, Cardboard
2408188	MRP-C 19/90	10	3,9776	Steel, Polymer, Cardboard
2408189	MRP-C 19/108	10	4,3426	Steel, Polymer, Cardboard
2408190	MRP-C 19/110	10	4,4599	Steel, Polymer, Cardboard
2408191	MRP-C 19/114	10	4,5000	Steel, Polymer, Cardboard
2408192	MRP-C 19/125	10	4,8971	Steel, Polymer, Cardboard
2408193	MRP-C 19/133	10	6,1209	Steel, Polymer, Cardboard
2408194	MRP-C 19/140	6	4,4187	Steel, Polymer, Cardboard
2408195	MRP-C 19/160	6	4,5107	Steel, Polymer, Cardboard
2408196	MRP-C 19/168	6	4,7376	Steel, Polymer, Cardboard
2408197	MRP-C 19/180	4	6,4948	Steel, Polymer, Cardboard
2408198	MRP-C 19/200	4	7,0514	Steel, Polymer, Cardboard
2408199	MRP-C 19/219	4	7,6949	Steel, Polymer, Cardboard

1.2 Description of the applied method

A life cycle assessment according to DIN EN ISO 14040/44, was performed on a product of HILTI AG (MRP C 19 (01)), which considers the entire life cycle of the product (cradle to grave). The accounting data come from the source: Sphera LCA for Experts, and are evaluated from IPCC 2001, August 2016.

The entire life cycle of the product is divided into the following stages:

- Raw material acquisition,
- Transport to production,
- Production,
- Transport to consumer,
- Use,
- End of life.

The data for the raw material acquisition of the product is provided by HILTI AG in a specific data collection form.

The “Transportation” scenario is based on the Limit Stretch of the EPTA study published by Sphera and is evaluated according to the weight of the product. The transport to production reflects the distances, which are essential for bringing together the individual components (by sea- a container ship for 16 800 km for 30% of the product weight, by road- a truck for 4 716 km for 70% of the product weight).

Each material is assigned component specific to one or more manufacturing processes to describe the production process as precisely as possible.

The transport to consumer reflects the distribution of the product to the various sales companies within the EU (2 300 km by road in a truck for 100% of the product weight).

The products produce no emissions in the “Use” phase.

In the “End of life” it is assumed, that the entire product is first fed to a reduction process. A Shredder (QZ 1600 HD) from MeWa, is used for separating and crushing the individual materials. The respective credits come from the material recycling of metals, as well as from the energy recovery of the paper and the polymers.

1.3 Life Cycle Assessment

1.3.1 MRP-C 19/10

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408159	MRP-C 19/10	50	3,7875	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,370	7,425	1,158	1,220	0,664	0,000	-4,098
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,27E-11	1,37E-11	1,45E-13	2,59E-11	8,96E-14	0,000	-7,15E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,56E-02	1,38E-02	7,70E-03	2,53E-03	1,51E-03	0,000	-9,89E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,38E-03	1,71E-03	1,08E-03	2,95E-04	3,58E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-8,15E-05	2,46E-03	-4,59E-04	1,81E-04	-5,30E-04	0,000	-1,74E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,24E-06	2,90E-06	1,52E-08	2,57E-07	9,10E-09	0,000	5,79E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,33E+01	9,48E+01	1,58E+01	1,44E+01	9,24E+00	0,000	-5,09E+01
Energy (net calorific value) [MJ]	9,47E+01	9,70E+01	1,58E+01	2,57E+01	9,28E+00	0,000	-5,31E+01
Energy ren. (net calorific value) [MJ]	2,25E+01	1,17E+01	9,66E-02	1,50E+01	5,97E-02	0,000	-4,45E+00
Water consumption [kg]	2,57E+01	1,76E+01	1,14E-01	1,22E+01	6,94E-02	0,000	-4,33E+00
Air pollution [m ³]	3,96E+02	8,03E+02	7,99E+01	9,31E+01	3,17E+01	0,000	-6,12E+02
Water pollution [m ³]	1,22E+00	9,43E-01	9,15E-02	3,72E-01	5,43E-02	0,000	-2,43E-01
Hazardous waste for disposal [kg]	2,14E-07	2,16E-07	3,24E-11	-1,91E-09	1,71E-11	0,000	4,30E-10
Disposed of non-hazardous waste [kg]	1,85E-01	1,04E-01	1,56E-03	1,85E-02	9,25E-04	0,000	5,96E-02
Disposed of radioactive waste [kg]	4,04E-03	7,99E-04	2,52E-05	3,99E-03	1,55E-05	0,000	-7,92E-04

evaluated from CML 2001, August 2016

1.3.2 MRP-C 19/12

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408160	MRP-C 19/12	50	3,8155	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,513	7,506	1,166	1,231	0,669	0,000	-4,060
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,32E-11	1,41E-11	1,46E-13	2,61E-11	9,02E-14	0,000	-7,35E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,58E-02	1,39E-02	7,76E-03	2,55E-03	1,52E-03	0,000	-9,89E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,41E-03	1,72E-03	1,09E-03	2,97E-04	3,61E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,53E-05	2,48E-03	-4,62E-04	1,83E-04	-5,34E-04	0,000	-1,74E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,41E-06	3,07E-06	1,53E-08	2,60E-07	9,17E-09	0,000	5,84E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,54E+01	9,69E+01	1,59E+01	1,45E+01	9,31E+00	0,000	-5,12E+01
Energy (net calorific value) [MJ]	9,69E+01	9,92E+01	1,59E+01	2,59E+01	9,35E+00	0,000	-5,35E+01
Energy ren. (net calorific value) [MJ]	2,27E+01	1,19E+01	9,73E-02	1,51E+01	6,01E-02	0,000	-4,56E+00
Water consumption [kg]	2,63E+01	1,81E+01	1,15E-01	1,23E+01	6,99E-02	0,000	-4,28E+00
Air pollution [m ³]	4,01E+02	8,07E+02	8,05E+01	9,39E+01	3,19E+01	0,000	-6,12E+02
Water pollution [m ³]	1,25E+00	9,69E-01	9,21E-02	3,75E-01	5,47E-02	0,000	-2,45E-01
Hazardous waste for disposal [kg]	2,20E-07	2,21E-07	3,27E-11	-1,93E-09	1,72E-11	0,000	4,01E-10
Disposed of non-hazardous waste [kg]	1,90E-01	1,05E-01	1,57E-03	1,87E-02	9,32E-04	0,000	6,42E-02
Disposed of radioactive waste [kg]	4,06E-03	8,21E-04	2,53E-05	4,03E-03	1,56E-05	0,000	-8,23E-04

evaluated from CML 2001, August 2016

1.3.3 MRP-C 19/14

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408161	MRP-C 19/14	50	4,0785	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,909	8,058	1,247	1,321	0,715	0,000	-4,432
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,55E-11	1,49E-11	1,56E-13	2,80E-11	9,64E-14	0,000	-7,69E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,69E-02	1,49E-02	8,30E-03	2,74E-03	1,63E-03	0,000	-1,07E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,56E-03	1,84E-03	1,17E-03	3,19E-04	3,86E-04	0,000	-1,14E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-7,61E-05	2,66E-03	-4,94E-04	1,96E-04	-5,70E-04	0,000	-1,87E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,57E-06	3,20E-06	1,64E-08	2,79E-07	9,80E-09	0,000	6,22E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,04E+01	1,03E+02	1,70E+01	1,56E+01	9,95E+00	0,000	-5,49E+01
Energy (net calorific value) [MJ]	1,03E+02	1,05E+02	1,70E+01	2,78E+01	1,00E+01	0,000	-5,72E+01
Energy ren. (net calorific value) [MJ]	2,40E+01	1,23E+01	1,04E-01	1,62E+01	6,43E-02	0,000	-4,78E+00
Water consumption [kg]	2,77E+01	1,90E+01	1,23E-01	1,32E+01	7,48E-02	0,000	-4,70E+00
Air pollution [m ³]	4,28E+02	8,67E+02	8,61E+01	1,01E+02	3,41E+01	0,000	-6,60E+02
Water pollution [m ³]	1,31E+00	1,01E+00	9,85E-02	4,03E-01	5,85E-02	0,000	-2,63E-01
Hazardous waste for disposal [kg]	2,25E-07	2,26E-07	3,49E-11	-2,07E-09	1,84E-11	0,000	4,69E-10
Disposed of non-hazardous waste [kg]	1,98E-01	1,12E-01	1,68E-03	2,00E-02	9,96E-04	0,000	6,29E-02
Disposed of radioactive waste [kg]	4,38E-03	8,62E-04	2,71E-05	4,32E-03	1,67E-05	0,000	-8,49E-04

evaluated from CML 2001, August 2016

1.3.4 MRP-C 19/15

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408162	MRP-C 19/15	50	4,1020	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,029	8,126	1,254	1,330	0,719	0,000	-4,400
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,59E-11	1,53E-11	1,57E-13	2,82E-11	9,70E-14	0,000	-7,85E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,70E-02	1,50E-02	8,34E-03	2,76E-03	1,64E-03	0,000	-1,07E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,59E-03	1,85E-03	1,17E-03	3,21E-04	3,88E-04	0,000	-1,14E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,26E-05	2,68E-03	-4,97E-04	1,97E-04	-5,74E-04	0,000	-1,87E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,71E-06	3,34E-06	1,64E-08	2,81E-07	9,85E-09	0,000	6,26E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,22E+01	1,05E+02	1,71E+01	1,57E+01	1,00E+01	0,000	-5,51E+01
Energy (net calorific value) [MJ]	1,05E+02	1,07E+02	1,71E+01	2,80E+01	1,01E+01	0,000	-5,76E+01
Energy ren. (net calorific value) [MJ]	2,42E+01	1,25E+01	1,05E-01	1,64E+01	6,47E-02	0,000	-4,88E+00
Water consumption [kg]	2,82E+01	1,94E+01	1,24E-01	1,33E+01	7,52E-02	0,000	-4,65E+00
Air pollution [m ³]	4,33E+02	8,71E+02	8,66E+01	1,01E+02	3,43E+01	0,000	-6,61E+02
Water pollution [m ³]	1,33E+00	1,03E+00	9,91E-02	4,06E-01	5,88E-02	0,000	-2,64E-01
Hazardous waste for disposal [kg]	2,30E-07	2,31E-07	3,51E-11	-2,09E-09	1,85E-11	0,000	4,44E-10
Disposed of non-hazardous waste [kg]	2,02E-01	1,13E-01	1,69E-03	2,02E-02	1,00E-03	0,000	6,67E-02
Disposed of radioactive waste [kg]	4,40E-03	8,81E-04	2,72E-05	4,35E-03	1,68E-05	0,000	-8,75E-04

evaluated from CML 2001, August 2016

1.3.5 MRP-C 19/16

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408163	MRP-C 19/16	50	4,1145	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,092	8,162	1,258	1,335	0,722	0,000	-4,383
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,61E-11	1,55E-11	1,58E-13	2,83E-11	9,73E-14	0,000	-7,94E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,71E-02	1,50E-02	8,37E-03	2,77E-03	1,64E-03	0,000	-1,07E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,60E-03	1,86E-03	1,18E-03	3,22E-04	3,89E-04	0,000	-1,14E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,54E-05	2,69E-03	-4,99E-04	1,98E-04	-5,75E-04	0,000	-1,87E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,78E-06	3,41E-06	1,65E-08	2,82E-07	9,88E-09	0,000	6,28E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,32E+01	1,06E+02	1,71E+01	1,58E+01	1,00E+01	0,000	-5,53E+01
Energy (net calorific value) [MJ]	1,06E+02	1,08E+02	1,72E+01	2,81E+01	1,01E+01	0,000	-5,78E+01
Energy ren. (net calorific value) [MJ]	2,43E+01	1,26E+01	1,05E-01	1,64E+01	6,49E-02	0,000	-4,93E+00
Water consumption [kg]	2,85E+01	1,96E+01	1,24E-01	1,33E+01	7,54E-02	0,000	-4,63E+00
Air pollution [m ³]	4,35E+02	8,73E+02	8,68E+01	1,02E+02	3,44E+01	0,000	-6,61E+02
Water pollution [m ³]	1,35E+00	1,05E+00	9,94E-02	4,07E-01	5,90E-02	0,000	-2,65E-01
Hazardous waste for disposal [kg]	2,32E-07	2,34E-07	3,52E-11	-2,10E-09	1,86E-11	0,000	4,31E-10
Disposed of non-hazardous waste [kg]	2,05E-01	1,13E-01	1,69E-03	2,02E-02	1,00E-03	0,000	6,87E-02
Disposed of radioactive waste [kg]	4,41E-03	8,91E-04	2,73E-05	4,36E-03	1,68E-05	0,000	-8,89E-04

evaluated from CML 2001, August 2016

1.3.6 MRP-C 19/17

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408164	MRP-C 19/17	50	4,1360	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,202	8,224	1,264	1,343	0,725	0,000	-4,354
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,65E-11	1,58E-11	1,58E-13	2,85E-11	9,78E-14	0,000	-8,09E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,72E-02	1,51E-02	8,41E-03	2,79E-03	1,65E-03	0,000	-1,07E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,63E-03	1,87E-03	1,18E-03	3,24E-04	3,91E-04	0,000	-1,14E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,28E-05	2,71E-03	-5,01E-04	1,99E-04	-5,78E-04	0,000	-1,88E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,91E-06	3,54E-06	1,66E-08	2,83E-07	9,94E-09	0,000	6,32E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,48E+01	1,07E+02	1,72E+01	1,59E+01	1,01E+01	0,000	-5,56E+01
Energy (net calorific value) [MJ]	1,07E+02	1,10E+02	1,73E+01	2,82E+01	1,01E+01	0,000	-5,81E+01
Energy ren. (net calorific value) [MJ]	2,44E+01	1,28E+01	1,06E-01	1,65E+01	6,52E-02	0,000	-5,01E+00
Water consumption [kg]	2,89E+01	1,99E+01	1,25E-01	1,34E+01	7,58E-02	0,000	-4,59E+00
Air pollution [m ³]	4,39E+02	8,76E+02	8,73E+01	1,02E+02	3,46E+01	0,000	-6,61E+02
Water pollution [m ³]	1,37E+00	1,06E+00	9,99E-02	4,10E-01	5,93E-02	0,000	-2,66E-01
Hazardous waste for disposal [kg]	2,37E-07	2,38E-07	3,54E-11	-2,11E-09	1,87E-11	0,000	4,09E-10
Disposed of non-hazardous waste [kg]	2,09E-01	1,14E-01	1,70E-03	2,04E-02	1,01E-03	0,000	7,22E-02
Disposed of radioactive waste [kg]	4,43E-03	9,08E-04	2,75E-05	4,39E-03	1,69E-05	0,000	-9,13E-04

evaluated from CML 2001, August 2016

1.3.7 MRP-C 19/18

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408165	MRP-C 19/18	50	4,1515	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,281	8,268	1,269	1,349	0,728	0,000	-4,333
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,68E-11	1,61E-11	1,59E-13	2,86E-11	9,82E-14	0,000	-8,19E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,73E-02	1,51E-02	8,44E-03	2,80E-03	1,65E-03	0,000	-1,07E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,64E-03	1,88E-03	1,19E-03	3,26E-04	3,93E-04	0,000	-1,14E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,39E-05	2,73E-03	-5,03E-04	2,00E-04	-5,81E-04	0,000	-1,88E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,01E-06	3,63E-06	1,66E-08	2,85E-07	9,97E-09	0,000	6,35E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,60E+01	1,08E+02	1,73E+01	1,59E+01	1,01E+01	0,000	-5,57E+01
Energy (net calorific value) [MJ]	1,09E+02	1,11E+02	1,74E+01	2,84E+01	1,02E+01	0,000	-5,84E+01
Energy ren. (net calorific value) [MJ]	2,45E+01	1,29E+01	1,06E-01	1,66E+01	6,54E-02	0,000	-5,08E+00
Water consumption [kg]	2,93E+01	2,01E+01	1,25E-01	1,35E+01	7,61E-02	0,000	-4,55E+00
Air pollution [m ³]	4,42E+02	8,78E+02	8,76E+01	1,03E+02	3,47E+01	0,000	-6,62E+02
Water pollution [m ³]	1,38E+00	1,08E+00	1,00E-01	4,11E-01	5,95E-02	0,000	-2,67E-01
Hazardous waste for disposal [kg]	2,40E-07	2,42E-07	3,55E-11	-2,12E-09	1,87E-11	0,000	3,93E-10
Disposed of non-hazardous waste [kg]	2,13E-01	1,15E-01	1,71E-03	2,05E-02	1,01E-03	0,000	7,48E-02
Disposed of radioactive waste [kg]	4,45E-03	9,20E-04	2,76E-05	4,41E-03	1,70E-05	0,000	-9,30E-04

evaluated from CML 2001, August 2016

1.3.8 MRP-C 19/20

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408166	MRP-C 19/20	20	1,8228	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,096	3,291	0,557	0,551	0,320	0,000	-1,623
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,50E-11	7,00E-12	6,98E-14	1,17E-11	4,31E-14	0,000	-3,85E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,64E-03	6,42E-03	3,71E-03	1,14E-03	7,27E-04	0,000	-4,36E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,22E-03	8,56E-04	5,21E-04	1,33E-04	1,72E-04	0,000	-4,66E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,07E-05	1,13E-03	-2,21E-04	8,19E-05	-2,55E-04	0,000	-7,66E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	1,73E-06	1,58E-06	7,31E-09	1,16E-07	4,38E-09	0,000	2,34E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,12E+01	4,62E+01	7,58E+00	6,51E+00	4,45E+00	0,000	-2,35E+01
Energy (net calorific value) [MJ]	4,62E+01	4,74E+01	7,62E+00	1,16E+01	4,47E+00	0,000	-2,48E+01
Energy ren. (net calorific value) [MJ]	1,28E+01	8,32E+00	4,65E-02	6,78E+00	2,87E-02	0,000	-2,36E+00
Water consumption [kg]	1,39E+01	9,81E+00	5,49E-02	5,51E+00	3,34E-02	0,000	-1,53E+00
Air pollution [m ³]	1,89E+02	3,64E+02	3,85E+01	4,20E+01	1,53E+01	0,000	-2,71E+02
Water pollution [m ³]	6,67E-01	5,45E-01	4,40E-02	1,68E-01	2,61E-02	0,000	-1,16E-01
Hazardous waste for disposal [kg]	1,38E-07	1,39E-07	1,56E-11	-8,66E-10	8,23E-12	0,000	8,41E-11
Disposed of non-hazardous waste [kg]	9,75E-02	5,14E-02	7,49E-04	8,36E-03	4,45E-04	0,000	3,66E-02
Disposed of radioactive waste [kg]	1,79E-03	4,28E-04	1,21E-05	1,80E-03	7,45E-06	0,000	-4,59E-04

evaluated from CML 2001, August 2016

1.3.9 MRP-C 19/21

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408167	MRP-C 19/21	20	1,8308	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,136	3,314	0,560	0,554	0,321	0,000	-1,612
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,51E-11	7,13E-12	7,01E-14	1,18E-11	4,33E-14	0,000	-3,90E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,69E-03	6,45E-03	3,72E-03	1,15E-03	7,30E-04	0,000	-4,36E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,23E-03	8,61E-04	5,23E-04	1,34E-04	1,73E-04	0,000	-4,65E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,61E-05	1,14E-03	-2,22E-04	8,23E-05	-2,56E-04	0,000	-7,66E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	1,78E-06	1,63E-06	7,34E-09	1,17E-07	4,40E-09	0,000	2,36E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,18E+01	4,68E+01	7,62E+00	6,55E+00	4,47E+00	0,000	-2,36E+01
Energy (net calorific value) [MJ]	4,69E+01	4,80E+01	7,65E+00	1,17E+01	4,49E+00	0,000	-2,50E+01
Energy ren. (net calorific value) [MJ]	1,29E+01	8,37E+00	4,67E-02	6,82E+00	2,89E-02	0,000	-2,40E+00
Water consumption [kg]	1,40E+01	9,93E+00	5,51E-02	5,54E+00	3,36E-02	0,000	-1,51E+00
Air pollution [m ³]	1,91E+02	3,66E+02	3,86E+01	4,23E+01	1,53E+01	0,000	-2,71E+02
Water pollution [m ³]	6,75E-01	5,52E-01	4,42E-02	1,69E-01	2,62E-02	0,000	-1,16E-01
Hazardous waste for disposal [kg]	1,40E-07	1,40E-07	1,57E-11	-8,70E-10	8,26E-12	0,000	7,58E-11
Disposed of non-hazardous waste [kg]	9,91E-02	5,17E-02	7,52E-04	8,41E-03	4,47E-04	0,000	3,79E-02
Disposed of radioactive waste [kg]	1,80E-03	4,35E-04	1,22E-05	1,81E-03	7,48E-06	0,000	-4,68E-04

evaluated from CML 2001, August 2016

1.3.10 MRP-C 19/22

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408168	MRP-C 19/22	20	1,8334	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,149	3,321	0,560	0,555	0,322	0,000	-1,609
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,51E-11	7,16E-12	7,02E-14	1,18E-11	4,34E-14	0,000	-3,93E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,70E-03	6,45E-03	3,73E-03	1,15E-03	7,31E-04	0,000	-4,36E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,23E-03	8,62E-04	5,24E-04	1,34E-04	1,73E-04	0,000	-4,66E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,61E-05	1,14E-03	-2,22E-04	8,24E-05	-2,56E-04	0,000	-7,66E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	1,78E-06	1,63E-06	7,35E-09	1,17E-07	4,40E-09	0,000	2,38E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,20E+01	4,70E+01	7,63E+00	6,56E+00	4,47E+00	0,000	-2,37E+01
Energy (net calorific value) [MJ]	4,71E+01	4,83E+01	7,66E+00	1,17E+01	4,49E+00	0,000	-2,50E+01
Energy ren. (net calorific value) [MJ]	1,29E+01	8,39E+00	4,68E-02	6,83E+00	2,89E-02	0,000	-2,41E+00
Water consumption [kg]	1,41E+01	9,95E+00	5,52E-02	5,55E+00	3,36E-02	0,000	-1,51E+00
Air pollution [m ³]	1,91E+02	3,66E+02	3,87E+01	4,23E+01	1,53E+01	0,000	-2,71E+02
Water pollution [m ³]	6,79E-01	5,56E-01	4,43E-02	1,69E-01	2,63E-02	0,000	-1,17E-01
Hazardous waste for disposal [kg]	1,40E-07	1,41E-07	1,57E-11	-8,72E-10	8,28E-12	0,000	7,07E-11
Disposed of non-hazardous waste [kg]	1,00E-01	5,18E-02	7,53E-04	8,42E-03	4,48E-04	0,000	3,86E-02
Disposed of radioactive waste [kg]	1,80E-03	4,36E-04	1,22E-05	1,82E-03	7,49E-06	0,000	-4,72E-04

evaluated from CML 2001, August 2016

1.3.11 MRP-C 19/25

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408169	MRP-C 19/25	20	1,8520	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,244	3,375	0,566	0,562	0,325	0,000	-1,584
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,55E-11	7,46E-12	7,09E-14	1,19E-11	4,38E-14	0,000	-4,05E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,82E-03	6,51E-03	3,77E-03	1,17E-03	7,38E-04	0,000	-4,37E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,25E-03	8,73E-04	5,29E-04	1,36E-04	1,75E-04	0,000	-4,66E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,53E-05	1,15E-03	-2,24E-04	8,35E-05	-2,59E-04	0,000	-7,67E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	1,89E-06	1,74E-06	7,42E-09	1,19E-07	4,45E-09	0,000	2,41E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,34E+01	4,85E+01	7,71E+00	6,64E+00	4,52E+00	0,000	-2,39E+01
Energy (net calorific value) [MJ]	4,85E+01	4,97E+01	7,74E+00	1,18E+01	4,54E+00	0,000	-2,53E+01
Energy ren. (net calorific value) [MJ]	1,30E+01	8,52E+00	4,72E-02	6,92E+00	2,92E-02	0,000	-2,49E+00
Water consumption [kg]	1,45E+01	1,02E+01	5,58E-02	5,62E+00	3,40E-02	0,000	-1,47E+00
Air pollution [m ³]	1,95E+02	3,69E+02	3,91E+01	4,29E+01	1,55E+01	0,000	-2,72E+02
Water pollution [m ³]	6,98E-01	5,73E-01	4,47E-02	1,72E-01	2,65E-02	0,000	-1,18E-01
Hazardous waste for disposal [kg]	1,44E-07	1,45E-07	1,59E-11	-8,83E-10	8,36E-12	0,000	5,14E-11
Disposed of non-hazardous waste [kg]	1,04E-01	5,25E-02	7,61E-04	8,53E-03	4,52E-04	0,000	4,16E-02
Disposed of radioactive waste [kg]	1,82E-03	4,51E-04	1,23E-05	1,84E-03	7,57E-06	0,000	-4,92E-04

evaluated from CML 2001, August 2016

1.3.12 MRP-C 19/26

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408170	MRP-C 19/26	20	1,8638	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,304	3,409	0,570	0,567	0,327	0,000	-1,568
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,57E-11	7,66E-12	7,14E-14	1,20E-11	4,41E-14	0,000	-4,13E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,89E-03	6,55E-03	3,79E-03	1,18E-03	7,43E-04	0,000	-4,37E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,26E-03	8,80E-04	5,33E-04	1,37E-04	1,76E-04	0,000	-4,65E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-8,51E-06	1,16E-03	-2,26E-04	8,41E-05	-2,61E-04	0,000	-7,68E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	1,96E-06	1,81E-06	7,47E-09	1,20E-07	4,48E-09	0,000	2,43E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,43E+01	4,94E+01	7,76E+00	6,69E+00	4,55E+00	0,000	-2,41E+01
Energy (net calorific value) [MJ]	4,95E+01	5,07E+01	7,79E+00	1,19E+01	4,57E+00	0,000	-2,55E+01
Energy ren. (net calorific value) [MJ]	1,31E+01	8,60E+00	4,75E-02	6,97E+00	2,94E-02	0,000	-2,53E+00
Water consumption [kg]	1,47E+01	1,04E+01	5,61E-02	5,67E+00	3,42E-02	0,000	-1,45E+00
Air pollution [m ³]	1,97E+02	3,71E+02	3,93E+01	4,32E+01	1,56E+01	0,000	-2,72E+02
Water pollution [m ³]	7,10E-01	5,84E-01	4,50E-02	1,73E-01	2,67E-02	0,000	-1,18E-01
Hazardous waste for disposal [kg]	1,47E-07	1,48E-07	1,60E-11	-8,90E-10	8,41E-12	0,000	3,90E-11
Disposed of non-hazardous waste [kg]	1,06E-01	5,29E-02	7,66E-04	8,60E-03	4,55E-04	0,000	4,36E-02
Disposed of radioactive waste [kg]	1,83E-03	4,60E-04	1,24E-05	1,85E-03	7,61E-06	0,000	-5,05E-04

evaluated from CML 2001, August 2016

1.3.13 MRP-C 19/28

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408171	MRP-C 19/28	20	1,8706	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,339	3,428	0,572	0,570	0,328	0,000	-1,559
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,58E-11	7,77E-12	7,16E-14	1,21E-11	4,42E-14	0,000	-4,18E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,94E-03	6,57E-03	3,80E-03	1,18E-03	7,46E-04	0,000	-4,37E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,27E-03	8,84E-04	5,35E-04	1,38E-04	1,77E-04	0,000	-4,65E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,57E-06	1,17E-03	-2,27E-04	8,45E-05	-2,62E-04	0,000	-7,68E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,00E-06	1,85E-06	7,50E-09	1,20E-07	4,49E-09	0,000	2,45E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,48E+01	4,99E+01	7,78E+00	6,72E+00	4,56E+00	0,000	-2,42E+01
Energy (net calorific value) [MJ]	5,00E+01	5,12E+01	7,82E+00	1,20E+01	4,59E+00	0,000	-2,56E+01
Energy ren. (net calorific value) [MJ]	1,32E+01	8,65E+00	4,77E-02	7,00E+00	2,95E-02	0,000	-2,56E+00
Water consumption [kg]	1,49E+01	1,05E+01	5,63E-02	5,69E+00	3,43E-02	0,000	-1,44E+00
Air pollution [m ³]	1,98E+02	3,72E+02	3,95E+01	4,34E+01	1,57E+01	0,000	-2,72E+02
Water pollution [m ³]	7,17E-01	5,90E-01	4,52E-02	1,74E-01	2,68E-02	0,000	-1,19E-01
Hazardous waste for disposal [kg]	1,48E-07	1,49E-07	1,60E-11	-8,94E-10	8,44E-12	0,000	3,20E-11
Disposed of non-hazardous waste [kg]	1,08E-01	5,31E-02	7,69E-04	8,64E-03	4,57E-04	0,000	4,47E-02
Disposed of radioactive waste [kg]	1,84E-03	4,66E-04	1,24E-05	1,86E-03	7,64E-06	0,000	-5,13E-04

evaluated from CML 2001, August 2016

1.3.14 MRP-C 19/32

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408172	MRP-C 19/32	20	1,9914	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,577	3,694	0,609	0,611	0,349	0,000	-1,687
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,70E-11	8,33E-12	7,62E-14	1,30E-11	4,71E-14	0,000	-4,43E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,46E-03	7,02E-03	4,05E-03	1,27E-03	7,94E-04	0,000	-4,68E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,35E-03	9,39E-04	5,69E-04	1,48E-04	1,88E-04	0,000	-4,98E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	8,58E-08	1,25E-03	-2,41E-04	9,08E-05	-2,78E-04	0,000	-8,23E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,16E-06	1,99E-06	7,98E-09	1,29E-07	4,78E-09	0,000	2,62E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,80E+01	5,35E+01	8,29E+00	7,22E+00	4,86E+00	0,000	-2,58E+01
Energy (net calorific value) [MJ]	5,36E+01	5,48E+01	8,32E+00	1,29E+01	4,88E+00	0,000	-2,73E+01
Energy ren. (net calorific value) [MJ]	1,38E+01	8,92E+00	5,08E-02	7,52E+00	3,14E-02	0,000	-2,71E+00
Water consumption [kg]	1,58E+01	1,11E+01	6,00E-02	6,11E+00	3,65E-02	0,000	-1,57E+00
Air pollution [m ³]	2,12E+02	3,98E+02	4,20E+01	4,66E+01	1,67E+01	0,000	-2,92E+02
Water pollution [m ³]	7,58E-01	6,22E-01	4,81E-02	1,86E-01	2,85E-02	0,000	-1,27E-01
Hazardous waste for disposal [kg]	1,54E-07	1,54E-07	1,71E-11	-9,60E-10	8,99E-12	0,000	4,27E-11
Disposed of non-hazardous waste [kg]	1,14E-01	5,65E-02	8,18E-04	9,27E-03	4,86E-04	0,000	4,67E-02
Disposed of radioactive waste [kg]	1,98E-03	4,95E-04	1,32E-05	2,00E-03	8,14E-06	0,000	-5,41E-04

evaluated from CML 2001, August 2016

1.3.15 MRP-C 19/33

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408173	MRP-C 19/33	20	2,0018	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	3,630	3,724	0,612	0,615	0,351	0,000	-1,673
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,72E-11	8,50E-12	7,66E-14	1,31E-11	4,73E-14	0,000	-4,50E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,52E-03	7,06E-03	4,07E-03	1,28E-03	7,98E-04	0,000	-4,68E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,36E-03	9,45E-04	5,72E-04	1,49E-04	1,89E-04	0,000	-4,98E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	6,15E-06	1,26E-03	-2,43E-04	9,13E-05	-2,80E-04	0,000	-8,24E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,22E-06	2,05E-06	8,03E-09	1,30E-07	4,81E-09	0,000	2,65E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,88E+01	5,42E+01	8,33E+00	7,26E+00	4,88E+00	0,000	-2,59E+01
Energy (net calorific value) [MJ]	5,44E+01	5,57E+01	8,37E+00	1,29E+01	4,91E+00	0,000	-2,75E+01
Energy ren. (net calorific value) [MJ]	1,39E+01	9,00E+00	5,11E-02	7,57E+00	3,16E-02	0,000	-2,76E+00
Water consumption [kg]	1,60E+01	1,13E+01	6,03E-02	6,15E+00	3,67E-02	0,000	-1,55E+00
Air pollution [m ³]	2,14E+02	4,00E+02	4,23E+01	4,69E+01	1,67E+01	0,000	-2,92E+02
Water pollution [m ³]	7,69E-01	6,31E-01	4,83E-02	1,88E-01	2,87E-02	0,000	-1,27E-01
Hazardous waste for disposal [kg]	1,56E-07	1,57E-07	1,71E-11	-9,67E-10	9,04E-12	0,000	3,20E-11
Disposed of non-hazardous waste [kg]	1,16E-01	5,69E-02	8,22E-04	9,33E-03	4,89E-04	0,000	4,84E-02
Disposed of radioactive waste [kg]	1,99E-03	5,03E-04	1,33E-05	2,01E-03	8,18E-06	0,000	-5,52E-04

evaluated from CML 2001, August 2016

1.3.16 MRP-C 19/35

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408174	MRP-C 19/35	20	3,4086	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	5,713	6,661	1,042	1,096	0,598	0,000	-3,684
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,95E-11	1,23E-11	1,31E-13	2,33E-11	8,06E-14	0,000	-6,32E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,41E-02	1,24E-02	6,93E-03	2,28E-03	1,36E-03	0,000	-8,86E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,17E-03	1,55E-03	9,74E-04	2,65E-04	3,23E-04	0,000	-9,43E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,47E-05	2,23E-03	-4,13E-04	1,63E-04	-4,77E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,01E-06	2,71E-06	1,37E-08	2,32E-07	8,19E-09	0,000	4,35E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,49E+01	8,49E+01	1,42E+01	1,29E+01	8,32E+00	0,000	-4,55E+01
Energy (net calorific value) [MJ]	8,52E+01	8,69E+01	1,42E+01	2,31E+01	8,36E+00	0,000	-4,74E+01
Energy ren. (net calorific value) [MJ]	2,08E+01	1,10E+01	8,70E-02	1,35E+01	5,37E-02	0,000	-3,93E+00
Water consumption [kg]	2,37E+01	1,64E+01	1,03E-01	1,10E+01	6,25E-02	0,000	-3,86E+00
Air pollution [m ³]	3,57E+02	7,22E+02	7,19E+01	8,37E+01	2,85E+01	0,000	-5,50E+02
Water pollution [m ³]	1,08E+00	8,43E-01	8,23E-02	3,35E-01	4,89E-02	0,000	-2,25E-01
Hazardous waste for disposal [kg]	1,73E-07	1,74E-07	2,92E-11	-1,73E-09	1,54E-11	0,000	4,09E-10
Disposed of non-hazardous waste [kg]	1,48E-01	9,41E-02	1,40E-03	1,66E-02	8,32E-04	0,000	3,47E-02
Disposed of radioactive waste [kg]	3,65E-03	7,16E-04	2,26E-05	3,59E-03	1,39E-05	0,000	-6,92E-04

evaluated from CML 2001, August 2016

1.3.17 MRP-C 19/40

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408175	MRP-C 19/40	20	3,3932	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	5,630	6,613	1,037	1,090	0,595	0,000	-3,705
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,92E-11	1,20E-11	1,30E-13	2,32E-11	8,02E-14	0,000	-6,20E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,41E-02	1,24E-02	6,90E-03	2,26E-03	1,35E-03	0,000	-8,86E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,16E-03	1,54E-03	9,70E-04	2,63E-04	3,21E-04	0,000	-9,43E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,45E-05	2,21E-03	-4,11E-04	1,62E-04	-4,75E-04	0,000	-1,55E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,93E-06	2,63E-06	1,36E-08	2,30E-07	8,15E-09	0,000	4,50E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,36E+01	8,36E+01	1,41E+01	1,29E+01	8,28E+00	0,000	-4,53E+01
Energy (net calorific value) [MJ]	8,39E+01	8,56E+01	1,42E+01	2,29E+01	8,32E+00	0,000	-4,72E+01
Energy ren. (net calorific value) [MJ]	2,06E+01	1,09E+01	8,66E-02	1,34E+01	5,35E-02	0,000	-3,86E+00
Water consumption [kg]	2,33E+01	1,61E+01	1,02E-01	1,09E+01	6,22E-02	0,000	-3,89E+00
Air pollution [m ³]	3,54E+02	7,20E+02	7,16E+01	8,32E+01	2,84E+01	0,000	-5,49E+02
Water pollution [m ³]	1,07E+00	8,31E-01	8,19E-02	3,33E-01	4,86E-02	0,000	-2,22E-01
Hazardous waste for disposal [kg]	1,74E-07	1,75E-07	2,91E-11	-1,72E-09	1,53E-11	0,000	4,27E-10
Disposed of non-hazardous waste [kg]	1,48E-01	9,34E-02	1,39E-03	1,65E-02	8,28E-04	0,000	3,56E-02
Disposed of radioactive waste [kg]	3,64E-03	7,05E-04	2,25E-05	3,57E-03	1,39E-05	0,000	-6,72E-04

evaluated from CML 2001, August 2016

1.3.18 MRP-C 19/42

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408176	MRP-C 19/42	20	3,4102	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	5,717	6,662	1,042	1,096	0,598	0,000	-3,682
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,95E-11	1,23E-11	1,31E-13	2,33E-11	8,06E-14	0,000	-6,32E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,42E-02	1,24E-02	6,94E-03	2,28E-03	1,36E-03	0,000	-8,86E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,17E-03	1,55E-03	9,75E-04	2,65E-04	3,23E-04	0,000	-9,43E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,45E-05	2,23E-03	-4,13E-04	1,63E-04	-4,77E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,03E-06	2,73E-06	1,37E-08	2,32E-07	8,19E-09	0,000	4,53E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,49E+01	8,49E+01	1,42E+01	1,29E+01	8,32E+00	0,000	-4,55E+01
Energy (net calorific value) [MJ]	8,52E+01	8,69E+01	1,43E+01	2,31E+01	8,36E+00	0,000	-4,74E+01
Energy ren. (net calorific value) [MJ]	2,08E+01	1,11E+01	8,70E-02	1,35E+01	5,38E-02	0,000	-3,93E+00
Water consumption [kg]	2,37E+01	1,64E+01	1,03E-01	1,10E+01	6,25E-02	0,000	-3,85E+00
Air pollution [m ³]	3,57E+02	7,23E+02	7,20E+01	8,37E+01	2,85E+01	0,000	-5,50E+02
Water pollution [m ³]	1,09E+00	8,46E-01	8,23E-02	3,35E-01	4,89E-02	0,000	-2,23E-01
Hazardous waste for disposal [kg]	1,78E-07	1,79E-07	2,92E-11	-1,73E-09	1,54E-11	0,000	4,10E-10
Disposed of non-hazardous waste [kg]	1,51E-01	9,41E-02	1,40E-03	1,66E-02	8,33E-04	0,000	3,83E-02
Disposed of radioactive waste [kg]	3,65E-03	7,19E-04	2,26E-05	3,59E-03	1,39E-05	0,000	-6,91E-04

evaluated from CML 2001, August 2016

1.3.19 MRP-C 19/48

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408177	MRP-C 19/48	20	3,6798	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,177	7,133	1,125	1,176	0,645	0,000	-3,902
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,17E-11	1,34E-11	1,41E-13	2,50E-11	8,70E-14	0,000	-6,88E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,53E-02	1,34E-02	7,48E-03	2,44E-03	1,47E-03	0,000	-9,47E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,36E-03	1,69E-03	1,05E-03	2,84E-04	3,48E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,55E-05	2,39E-03	-4,46E-04	1,75E-04	-5,15E-04	0,000	-1,66E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,32E-06	3,00E-06	1,48E-08	2,48E-07	8,84E-09	0,000	4,80E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,11E+01	9,18E+01	1,53E+01	1,39E+01	8,98E+00	0,000	-4,88E+01
Energy (net calorific value) [MJ]	9,21E+01	9,40E+01	1,54E+01	2,47E+01	9,02E+00	0,000	-5,10E+01
Energy ren. (net calorific value) [MJ]	2,28E+01	1,25E+01	9,39E-02	1,45E+01	5,80E-02	0,000	-4,27E+00
Water consumption [kg]	2,59E+01	1,80E+01	1,11E-01	1,18E+01	6,75E-02	0,000	-4,04E+00
Air pollution [m ³]	3,85E+02	7,75E+02	7,77E+01	8,97E+01	3,08E+01	0,000	-5,88E+02
Water pollution [m ³]	1,19E+00	9,32E-01	8,89E-02	3,59E-01	5,27E-02	0,000	-2,40E-01
Hazardous waste for disposal [kg]	1,98E-07	2,00E-07	3,15E-11	-1,85E-09	1,66E-11	0,000	4,19E-10
Disposed of non-hazardous waste [kg]	1,65E-01	1,02E-01	1,51E-03	1,78E-02	8,98E-04	0,000	4,25E-02
Disposed of radioactive waste [kg]	3,91E-03	7,85E-04	2,44E-05	3,85E-03	1,50E-05	0,000	-7,59E-04

evaluated from CML 2001, August 2016

1.3.20 MRP-C 19/50

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408178	MRP-C 19/50	20	3,6918	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,238	7,168	1,128	1,180	0,647	0,000	-3,886
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,19E-11	1,36E-11	1,41E-13	2,51E-11	8,73E-14	0,000	-6,97E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,54E-02	1,34E-02	7,51E-03	2,45E-03	1,47E-03	0,000	-9,47E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,38E-03	1,69E-03	1,06E-03	2,85E-04	3,49E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,84E-05	2,40E-03	-4,47E-04	1,75E-04	-5,16E-04	0,000	-1,66E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,39E-06	3,07E-06	1,48E-08	2,49E-07	8,87E-09	0,000	4,82E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,20E+01	9,27E+01	1,54E+01	1,39E+01	9,01E+00	0,000	-4,90E+01
Energy (net calorific value) [MJ]	9,31E+01	9,49E+01	1,54E+01	2,48E+01	9,05E+00	0,000	-5,12E+01
Energy ren. (net calorific value) [MJ]	2,29E+01	1,26E+01	9,42E-02	1,45E+01	5,82E-02	0,000	-4,32E+00
Water consumption [kg]	2,61E+01	1,82E+01	1,11E-01	1,18E+01	6,77E-02	0,000	-4,02E+00
Air pollution [m ³]	3,88E+02	7,77E+02	7,79E+01	9,01E+01	3,09E+01	0,000	-5,88E+02
Water pollution [m ³]	1,20E+00	9,43E-01	8,91E-02	3,60E-01	5,29E-02	0,000	-2,41E-01
Hazardous waste for disposal [kg]	2,01E-07	2,02E-07	3,16E-11	-1,86E-09	1,67E-11	0,000	4,06E-10
Disposed of non-hazardous waste [kg]	1,67E-01	1,02E-01	1,52E-03	1,79E-02	9,01E-04	0,000	4,44E-02
Disposed of radioactive waste [kg]	3,93E-03	7,95E-04	2,45E-05	3,86E-03	1,51E-05	0,000	-7,72E-04

evaluated from CML 2001, August 2016

1.3.21 MRP-C 19/54

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408179	MRP-C 19/54	20	3,9162	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,678	7,702	1,197	1,263	0,687	0,000	-4,171
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,43E-11	1,46E-11	1,50E-13	2,69E-11	9,26E-14	0,000	-7,37E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,63E-02	1,43E-02	7,97E-03	2,62E-03	1,56E-03	0,000	-1,01E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,51E-03	1,79E-03	1,12E-03	3,05E-04	3,71E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,94E-05	2,57E-03	-4,74E-04	1,88E-04	-5,48E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,66E-06	3,32E-06	1,57E-08	2,67E-07	9,41E-09	0,000	5,12E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,78E+01	9,92E+01	1,63E+01	1,49E+01	9,55E+00	0,000	-5,22E+01
Energy (net calorific value) [MJ]	9,97E+01	1,02E+02	1,64E+01	2,66E+01	9,60E+00	0,000	-5,45E+01
Energy ren. (net calorific value) [MJ]	2,39E+01	1,27E+01	9,99E-02	1,56E+01	6,17E-02	0,000	-4,57E+00
Water consumption [kg]	2,76E+01	1,92E+01	1,18E-01	1,26E+01	7,18E-02	0,000	-4,35E+00
Air pollution [m ³]	4,13E+02	8,29E+02	8,27E+01	9,64E+01	3,28E+01	0,000	-6,28E+02
Water pollution [m ³]	1,27E+00	9,88E-01	9,46E-02	3,86E-01	5,61E-02	0,000	-2,57E-01
Hazardous waste for disposal [kg]	2,03E-07	2,05E-07	3,35E-11	-1,99E-09	1,77E-11	0,000	4,44E-10
Disposed of non-hazardous waste [kg]	1,75E-01	1,08E-01	1,61E-03	1,92E-02	9,56E-04	0,000	4,53E-02
Disposed of radioactive waste [kg]	4,21E-03	8,43E-04	2,60E-05	4,14E-03	1,60E-05	0,000	-8,14E-04

evaluated from CML 2001, August 2016

1.3.22 MRP-C 19/57

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408180	MRP-C 19/57	20	3,9220	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,706	7,717	1,199	1,265	0,688	0,000	-4,163
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,44E-11	1,47E-11	1,50E-13	2,69E-11	9,27E-14	0,000	-7,40E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,64E-02	1,43E-02	7,98E-03	2,63E-03	1,56E-03	0,000	-1,01E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,52E-03	1,79E-03	1,12E-03	3,06E-04	3,71E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,62E-05	2,58E-03	-4,75E-04	1,88E-04	-5,48E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,70E-06	3,36E-06	1,57E-08	2,67E-07	9,42E-09	0,000	5,20E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,82E+01	9,96E+01	1,63E+01	1,49E+01	9,57E+00	0,000	-5,22E+01
Energy (net calorific value) [MJ]	1,00E+02	1,02E+02	1,64E+01	2,66E+01	9,61E+00	0,000	-5,46E+01
Energy ren. (net calorific value) [MJ]	2,39E+01	1,28E+01	1,00E-01	1,56E+01	6,18E-02	0,000	-4,59E+00
Water consumption [kg]	2,77E+01	1,92E+01	1,18E-01	1,27E+01	7,19E-02	0,000	-4,34E+00
Air pollution [m ³]	4,14E+02	8,30E+02	8,28E+01	9,66E+01	3,28E+01	0,000	-6,28E+02
Water pollution [m ³]	1,27E+00	9,94E-01	9,47E-02	3,86E-01	5,62E-02	0,000	-2,57E-01
Hazardous waste for disposal [kg]	2,06E-07	2,08E-07	3,36E-11	-1,99E-09	1,77E-11	0,000	4,39E-10
Disposed of non-hazardous waste [kg]	1,78E-01	1,09E-01	1,61E-03	1,92E-02	9,58E-04	0,000	4,75E-02
Disposed of radioactive waste [kg]	4,21E-03	8,48E-04	2,60E-05	4,14E-03	1,60E-05	0,000	-8,19E-04

evaluated from CML 2001, August 2016

1.3.23 MRP-C 19/60

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408181	MRP-C 19/60	20	4,5580	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,500	9,144	1,393	1,285	0,799	0,000	-5,122
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,59E-11	1,64E-11	1,75E-13	2,73E-11	1,08E-13	0,000	-8,07E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,86E-02	1,69E-02	9,27E-03	2,67E-03	1,82E-03	0,000	-1,20E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,87E-03	2,10E-03	1,30E-03	3,11E-04	4,31E-04	0,000	-1,28E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,22E-04	2,99E-03	-5,52E-04	1,91E-04	-6,37E-04	0,000	-2,11E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,86E-06	3,50E-06	1,83E-08	2,71E-07	1,09E-08	0,000	6,04E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,81E+01	1,14E+02	1,90E+01	1,52E+01	1,11E+01	0,000	-6,10E+01
Energy (net calorific value) [MJ]	1,10E+02	1,17E+02	1,91E+01	2,70E+01	1,12E+01	0,000	-6,34E+01
Energy ren. (net calorific value) [MJ]	2,50E+01	1,40E+01	1,16E-01	1,58E+01	7,18E-02	0,000	-5,04E+00
Water consumption [kg]	2,82E+01	2,05E+01	1,37E-01	1,29E+01	8,36E-02	0,000	-5,42E+00
Air pollution [m ³]	4,58E+02	9,73E+02	9,62E+01	9,81E+01	3,81E+01	0,000	-7,47E+02
Water pollution [m ³]	1,36E+00	1,09E+00	1,10E-01	3,92E-01	6,53E-02	0,000	-3,00E-01
Hazardous waste for disposal [kg]	2,16E-07	2,17E-07	3,90E-11	-2,02E-09	2,06E-11	0,000	6,36E-10
Disposed of non-hazardous waste [kg]	1,88E-01	1,27E-01	1,87E-03	1,95E-02	1,11E-03	0,000	3,91E-02
Disposed of radioactive waste [kg]	4,35E-03	9,46E-04	3,03E-05	4,21E-03	1,86E-05	0,000	-8,57E-04

evaluated from CML 2001, August 2016

1.3.24 MRP-C 19/63

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408182	MRP-C 19/63	20	4,8886	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,971	9,839	1,494	1,390	0,857	0,000	-5,610
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,86E-11	1,72E-11	1,87E-13	2,96E-11	1,16E-13	0,000	-8,46E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,99E-02	1,82E-02	9,94E-03	2,89E-03	1,95E-03	0,000	-1,30E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,05E-03	2,25E-03	1,40E-03	3,36E-04	4,63E-04	0,000	-1,39E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,41E-04	3,22E-03	-5,92E-04	2,07E-04	-6,84E-04	0,000	-2,29E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,03E-06	3,64E-06	1,96E-08	2,94E-07	1,17E-08	0,000	6,50E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,04E+02	1,21E+02	2,03E+01	1,64E+01	1,19E+01	0,000	-6,56E+01
Energy (net calorific value) [MJ]	1,17E+02	1,24E+02	2,04E+01	2,92E+01	1,20E+01	0,000	-6,81E+01
Energy ren. (net calorific value) [MJ]	2,65E+01	1,45E+01	1,25E-01	1,71E+01	7,71E-02	0,000	-5,29E+00
Water consumption [kg]	2,98E+01	2,16E+01	1,47E-01	1,39E+01	8,96E-02	0,000	-5,98E+00
Air pollution [m ³]	4,91E+02	1,05E+03	1,03E+02	1,06E+02	4,09E+01	0,000	-8,08E+02
Water pollution [m ³]	1,43E+00	1,14E+00	1,18E-01	4,24E-01	7,01E-02	0,000	-3,22E-01
Hazardous waste for disposal [kg]	2,20E-07	2,22E-07	4,19E-11	-2,19E-09	2,21E-11	0,000	7,31E-10
Disposed of non-hazardous waste [kg]	1,96E-01	1,36E-01	2,01E-03	2,11E-02	1,19E-03	0,000	3,61E-02
Disposed of radioactive waste [kg]	4,72E-03	9,94E-04	3,25E-05	4,55E-03	2,00E-05	0,000	-8,83E-04

evaluated from CML 2001, August 2016

1.3.25 MRP-C 19/64

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408183	MRP-C 19/64	20	4,8960	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,994	9,858	1,496	1,392	0,859	0,000	-5,611
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,87E-11	1,73E-11	1,87E-13	2,96E-11	1,16E-13	0,000	-8,49E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	2,00E-02	1,82E-02	9,96E-03	2,89E-03	1,95E-03	0,000	-1,30E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,06E-03	2,25E-03	1,40E-03	3,36E-04	4,63E-04	0,000	-1,39E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,40E-04	3,22E-03	-5,93E-04	2,07E-04	-6,85E-04	0,000	-2,29E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,05E-06	3,66E-06	1,96E-08	2,94E-07	1,18E-08	0,000	6,51E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,04E+02	1,21E+02	2,04E+01	1,64E+01	1,19E+01	0,000	-6,57E+01
Energy (net calorific value) [MJ]	1,18E+02	1,24E+02	2,05E+01	2,93E+01	1,20E+01	0,000	-6,82E+01
Energy ren. (net calorific value) [MJ]	2,66E+01	1,45E+01	1,25E-01	1,71E+01	7,72E-02	0,000	-5,31E+00
Water consumption [kg]	2,99E+01	2,17E+01	1,47E-01	1,39E+01	8,98E-02	0,000	-5,98E+00
Air pollution [m ³]	4,92E+02	1,05E+03	1,03E+02	1,06E+02	4,10E+01	0,000	-8,09E+02
Water pollution [m ³]	1,44E+00	1,15E+00	1,18E-01	4,25E-01	7,02E-02	0,000	-3,23E-01
Hazardous waste for disposal [kg]	2,21E-07	2,22E-07	4,19E-11	-2,19E-09	2,21E-11	0,000	7,28E-10
Disposed of non-hazardous waste [kg]	1,97E-01	1,36E-01	2,01E-03	2,11E-02	1,20E-03	0,000	3,66E-02
Disposed of radioactive waste [kg]	4,72E-03	9,98E-04	3,25E-05	4,56E-03	2,00E-05	0,000	-8,87E-04

evaluated from CML 2001, August 2016

1.3.26 MRP-C 19/66

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408184	MRP-C 19/66	20	4,9354	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	8,113	9,960	1,509	1,399	0,866	0,000	-5,620
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,91E-11	1,76E-11	1,89E-13	2,97E-11	1,17E-13	0,000	-8,64E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	2,01E-02	1,83E-02	1,00E-02	2,91E-03	1,97E-03	0,000	-1,31E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,09E-03	2,27E-03	1,41E-03	3,38E-04	4,67E-04	0,000	-1,39E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,32E-04	3,25E-03	-5,98E-04	2,08E-04	-6,90E-04	0,000	-2,30E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,17E-06	3,77E-06	1,98E-08	2,96E-07	1,19E-08	0,000	6,57E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,06E+02	1,23E+02	2,05E+01	1,65E+01	1,20E+01	0,000	-6,62E+01
Energy (net calorific value) [MJ]	1,19E+02	1,26E+02	2,06E+01	2,94E+01	1,21E+01	0,000	-6,88E+01
Energy ren. (net calorific value) [MJ]	2,67E+01	1,47E+01	1,26E-01	1,72E+01	7,78E-02	0,000	-5,39E+00
Water consumption [kg]	3,02E+01	2,20E+01	1,49E-01	1,40E+01	9,05E-02	0,000	-5,98E+00
Air pollution [m ³]	4,97E+02	1,06E+03	1,04E+02	1,07E+02	4,13E+01	0,000	-8,13E+02
Water pollution [m ³]	1,46E+00	1,16E+00	1,19E-01	4,27E-01	7,07E-02	0,000	-3,25E-01
Hazardous waste for disposal [kg]	2,25E-07	2,26E-07	4,23E-11	-2,20E-09	2,23E-11	0,000	7,17E-10
Disposed of non-hazardous waste [kg]	2,01E-01	1,37E-01	2,03E-03	2,12E-02	1,20E-03	0,000	3,92E-02
Disposed of radioactive waste [kg]	4,74E-03	1,02E-03	3,28E-05	4,58E-03	2,02E-05	0,000	-9,08E-04

evaluated from CML 2001, August 2016

1.3.27 MRP-C 19/75

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408185	MRP-C 19/75	10	2,8037	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	4,741	5,496	0,857	0,759	0,492	0,000	-2,863
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,15E-11	1,06E-11	1,07E-13	1,61E-11	6,63E-14	0,000	-5,44E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,16E-02	1,03E-02	5,70E-03	1,58E-03	1,12E-03	0,000	-7,11E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,81E-03	1,32E-03	8,01E-04	1,83E-04	2,65E-04	0,000	-7,53E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,24E-05	1,81E-03	-3,40E-04	1,13E-04	-3,92E-04	0,000	-1,25E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,60E-06	2,39E-06	1,12E-08	1,60E-07	6,74E-09	0,000	3,24E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	6,26E+01	7,22E+01	1,17E+01	8,95E+00	6,84E+00	0,000	-3,70E+01
Energy (net calorific value) [MJ]	6,98E+01	7,40E+01	1,17E+01	1,60E+01	6,87E+00	0,000	-3,88E+01
Energy ren. (net calorific value) [MJ]	1,63E+01	1,02E+01	7,15E-02	9,35E+00	4,42E-02	0,000	-3,37E+00
Water consumption [kg]	1,84E+01	1,36E+01	8,44E-02	7,60E+00	5,14E-02	0,000	-2,94E+00
Air pollution [m ³]	2,82E+02	5,84E+02	5,92E+01	5,79E+01	2,35E+01	0,000	-4,42E+02
Water pollution [m ³]	8,89E-01	7,35E-01	6,77E-02	2,32E-01	4,02E-02	0,000	-1,86E-01
Hazardous waste for disposal [kg]	1,53E-07	1,54E-07	2,40E-11	-1,20E-09	1,27E-11	0,000	2,82E-10
Disposed of non-hazardous waste [kg]	1,23E-01	7,87E-02	1,15E-03	1,15E-02	6,84E-04	0,000	3,05E-02
Disposed of radioactive waste [kg]	2,53E-03	6,23E-04	1,86E-05	2,49E-03	1,15E-05	0,000	-6,12E-04

evaluated from CML 2001, August 2016

1.3.28 MRP-C 19/76

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408186	MRP-C 19/76	10	2,8129	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	4,768	5,520	0,860	0,761	0,493	0,000	-2,865
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,16E-11	1,07E-11	1,08E-13	1,62E-11	6,65E-14	0,000	-5,47E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,16E-02	1,03E-02	5,72E-03	1,58E-03	1,12E-03	0,000	-7,13E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,82E-03	1,32E-03	8,04E-04	1,84E-04	2,66E-04	0,000	-7,55E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,05E-05	1,82E-03	-3,41E-04	1,13E-04	-3,93E-04	0,000	-1,25E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,63E-06	2,42E-06	1,13E-08	1,61E-07	6,76E-09	0,000	3,25E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	6,30E+01	7,27E+01	1,17E+01	8,98E+00	6,86E+00	0,000	-3,72E+01
Energy (net calorific value) [MJ]	7,02E+01	7,44E+01	1,18E+01	1,60E+01	6,90E+00	0,000	-3,89E+01
Energy ren. (net calorific value) [MJ]	1,63E+01	1,02E+01	7,18E-02	9,37E+00	4,43E-02	0,000	-3,39E+00
Water consumption [kg]	1,85E+01	1,37E+01	8,47E-02	7,61E+00	5,16E-02	0,000	-2,94E+00
Air pollution [m ³]	2,83E+02	5,85E+02	5,94E+01	5,81E+01	2,35E+01	0,000	-4,43E+02
Water pollution [m ³]	8,94E-01	7,39E-01	6,79E-02	2,32E-01	4,03E-02	0,000	-1,86E-01
Hazardous waste for disposal [kg]	1,54E-07	1,55E-07	2,41E-11	-1,20E-09	1,27E-11	0,000	2,79E-10
Disposed of non-hazardous waste [kg]	1,24E-01	7,90E-02	1,16E-03	1,15E-02	6,87E-04	0,000	3,11E-02
Disposed of radioactive waste [kg]	2,53E-03	6,28E-04	1,87E-05	2,49E-03	1,15E-05	0,000	-6,17E-04

evaluated from CML 2001, August 2016

1.3.29 MRP-C 19/88

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408187	MRP-C 19/88	10	3,9875	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,215	6,887	1,219	1,008	0,699	0,000	-3,597
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,78E-11	1,39E-11	1,53E-13	2,14E-11	9,43E-14	0,000	-7,85E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,64E-02	1,41E-02	8,11E-03	2,09E-03	1,59E-03	0,000	-9,51E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,69E-03	1,93E-03	1,14E-03	2,44E-04	3,77E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,55E-04	2,40E-03	-4,83E-04	1,50E-04	-5,58E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,27E-06	2,99E-06	1,60E-08	2,13E-07	9,58E-09	0,000	3,59E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,24E+01	9,46E+01	1,66E+01	1,19E+01	9,73E+00	0,000	-5,04E+01
Energy (net calorific value) [MJ]	9,18E+01	9,71E+01	1,67E+01	2,12E+01	9,77E+00	0,000	-5,30E+01
Energy ren. (net calorific value) [MJ]	2,85E+01	2,08E+01	1,02E-01	1,24E+01	6,29E-02	0,000	-4,83E+00
Water consumption [kg]	2,81E+01	2,11E+01	1,20E-01	1,01E+01	7,31E-02	0,000	-3,27E+00
Air pollution [m ³]	3,87E+02	7,84E+02	8,42E+01	7,69E+01	3,34E+01	0,000	-5,92E+02
Water pollution [m ³]	1,37E+00	1,17E+00	9,63E-02	3,08E-01	5,71E-02	0,000	-2,61E-01
Hazardous waste for disposal [kg]	2,86E-07	2,87E-07	3,41E-11	-1,59E-09	1,80E-11	0,000	2,85E-10
Disposed of non-hazardous waste [kg]	1,72E-01	1,14E-01	1,64E-03	1,53E-02	9,74E-04	0,000	4,06E-02
Disposed of radioactive waste [kg]	3,33E-03	8,99E-04	2,65E-05	3,30E-03	1,63E-05	0,000	-9,08E-04

evaluated from CML 2001, August 2016

1.3.30 MRP-C 19/90

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408188	MRP-C 19/90	10	3,9776	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,165	6,857	1,216	1,004	0,698	0,000	-3,610
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,76E-11	1,38E-11	1,52E-13	2,13E-11	9,41E-14	0,000	-7,78E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,63E-02	1,41E-02	8,09E-03	2,09E-03	1,59E-03	0,000	-9,51E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,68E-03	1,93E-03	1,14E-03	2,43E-04	3,76E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,61E-04	2,39E-03	-4,82E-04	1,49E-04	-5,56E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,21E-06	2,94E-06	1,59E-08	2,12E-07	9,55E-09	0,000	3,65E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,16E+01	9,38E+01	1,66E+01	1,18E+01	9,70E+00	0,000	-5,03E+01
Energy (net calorific value) [MJ]	9,10E+01	9,63E+01	1,66E+01	2,11E+01	9,75E+00	0,000	-5,28E+01
Energy ren. (net calorific value) [MJ]	2,84E+01	2,07E+01	1,01E-01	1,24E+01	6,27E-02	0,000	-4,79E+00
Water consumption [kg]	2,79E+01	2,09E+01	1,20E-01	1,00E+01	7,29E-02	0,000	-3,28E+00
Air pollution [m ³]	3,85E+02	7,82E+02	8,40E+01	7,66E+01	3,33E+01	0,000	-5,91E+02
Water pollution [m ³]	1,36E+00	1,16E+00	9,60E-02	3,07E-01	5,70E-02	0,000	-2,59E-01
Hazardous waste for disposal [kg]	2,86E-07	2,87E-07	3,41E-11	-1,58E-09	1,80E-11	0,000	2,95E-10
Disposed of non-hazardous waste [kg]	1,72E-01	1,13E-01	1,63E-03	1,52E-02	9,71E-04	0,000	4,05E-02
Disposed of radioactive waste [kg]	3,33E-03	8,91E-04	2,64E-05	3,29E-03	1,63E-05	0,000	-8,96E-04

evaluated from CML 2001, August 2016

1.3.31 MRP-C 19/108

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408189	MRP-C 19/108	10	4,3426	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,981	7,761	1,327	1,111	0,762	0,000	-3,980
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,11E-11	1,58E-11	1,66E-13	2,36E-11	1,03E-13	0,000	-8,60E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,79E-02	1,55E-02	8,83E-03	2,31E-03	1,73E-03	0,000	-1,04E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,92E-03	2,10E-03	1,24E-03	2,69E-04	4,11E-04	0,000	-1,10E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,32E-04	2,67E-03	-5,26E-04	1,65E-04	-6,07E-04	0,000	-1,83E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,82E-06	3,52E-06	1,74E-08	2,35E-07	1,04E-08	0,000	4,09E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,27E+01	1,06E+02	1,81E+01	1,31E+01	1,06E+01	0,000	-5,54E+01
Energy (net calorific value) [MJ]	1,03E+02	1,09E+02	1,82E+01	2,34E+01	1,06E+01	0,000	-5,82E+01
Energy ren. (net calorific value) [MJ]	2,98E+01	2,12E+01	1,11E-01	1,37E+01	6,84E-02	0,000	-5,30E+00
Water consumption [kg]	3,05E+01	2,28E+01	1,31E-01	1,11E+01	7,96E-02	0,000	-3,70E+00
Air pollution [m ³]	4,26E+02	8,64E+02	9,17E+01	8,48E+01	3,63E+01	0,000	-6,50E+02
Water pollution [m ³]	1,48E+00	1,26E+00	1,05E-01	3,39E-01	6,22E-02	0,000	-2,85E-01
Hazardous waste for disposal [kg]	2,96E-07	2,97E-07	3,72E-11	-1,75E-09	1,96E-11	0,000	3,17E-10
Disposed of non-hazardous waste [kg]	1,90E-01	1,24E-01	1,78E-03	1,69E-02	1,06E-03	0,000	4,60E-02
Disposed of radioactive waste [kg]	3,68E-03	9,92E-04	2,88E-05	3,64E-03	1,77E-05	0,000	-9,94E-04

evaluated from CML 2001, August 2016

1.3.32 MRP-C 19/110

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408190	MRP-C 19/110	10	4,4599	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,253	8,046	1,363	1,126	0,782	0,000	-4,064
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,20E-11	1,67E-11	1,71E-13	2,39E-11	1,05E-13	0,000	-8,87E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,84E-02	1,59E-02	9,07E-03	2,34E-03	1,78E-03	0,000	-1,07E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,00E-03	2,16E-03	1,27E-03	2,72E-04	4,22E-04	0,000	-1,13E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,18E-04	2,76E-03	-5,40E-04	1,67E-04	-6,24E-04	0,000	-1,88E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,11E-06	3,80E-06	1,79E-08	2,38E-07	1,07E-08	0,000	4,40E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,64E+01	1,11E+02	1,86E+01	1,33E+01	1,09E+01	0,000	-5,68E+01
Energy (net calorific value) [MJ]	1,07E+02	1,13E+02	1,86E+01	2,37E+01	1,09E+01	0,000	-5,97E+01
Energy ren. (net calorific value) [MJ]	3,02E+01	2,16E+01	1,14E-01	1,39E+01	7,03E-02	0,000	-5,46E+00
Water consumption [kg]	3,13E+01	2,36E+01	1,34E-01	1,13E+01	8,18E-02	0,000	-3,79E+00
Air pollution [m ³]	4,39E+02	8,88E+02	9,41E+01	8,59E+01	3,73E+01	0,000	-6,67E+02
Water pollution [m ³]	1,52E+00	1,30E+00	1,08E-01	3,44E-01	6,39E-02	0,000	-2,91E-01
Hazardous waste for disposal [kg]	3,06E-07	3,08E-07	3,82E-11	-1,78E-09	2,01E-11	0,000	3,23E-10
Disposed of non-hazardous waste [kg]	2,00E-01	1,27E-01	1,83E-03	1,71E-02	1,09E-03	0,000	5,22E-02
Disposed of radioactive waste [kg]	3,74E-03	1,03E-03	2,96E-05	3,69E-03	1,82E-05	0,000	-1,03E-03

evaluated from CML 2001, August 2016

1.3.33 MRP-C 19/114

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408191	MRP-C 19/114	10	4,5000	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,372	8,149	1,375	1,133	0,789	0,000	-4,075
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,24E-11	1,71E-11	1,72E-13	2,41E-11	1,06E-13	0,000	-9,01E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,86E-02	1,61E-02	9,15E-03	2,35E-03	1,79E-03	0,000	-1,08E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,03E-03	2,18E-03	1,29E-03	2,74E-04	4,26E-04	0,000	-1,13E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,09E-04	2,79E-03	-5,45E-04	1,68E-04	-6,29E-04	0,000	-1,89E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,23E-06	3,92E-06	1,80E-08	2,40E-07	1,08E-08	0,000	4,46E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,81E+01	1,12E+02	1,87E+01	1,34E+01	1,10E+01	0,000	-5,73E+01
Energy (net calorific value) [MJ]	1,09E+02	1,15E+02	1,88E+01	2,38E+01	1,10E+01	0,000	-6,03E+01
Energy ren. (net calorific value) [MJ]	3,04E+01	2,18E+01	1,15E-01	1,40E+01	7,09E-02	0,000	-5,54E+00
Water consumption [kg]	3,16E+01	2,39E+01	1,36E-01	1,13E+01	8,25E-02	0,000	-3,79E+00
Air pollution [m ³]	4,44E+02	8,96E+02	9,50E+01	8,65E+01	3,77E+01	0,000	-6,71E+02
Water pollution [m ³]	1,54E+00	1,32E+00	1,09E-01	3,46E-01	6,45E-02	0,000	-2,93E-01
Hazardous waste for disposal [kg]	3,10E-07	3,11E-07	3,85E-11	-1,79E-09	2,03E-11	0,000	3,12E-10
Disposed of non-hazardous waste [kg]	2,03E-01	1,29E-01	1,85E-03	1,72E-02	1,10E-03	0,000	5,46E-02
Disposed of radioactive waste [kg]	3,77E-03	1,05E-03	2,99E-05	3,71E-03	1,84E-05	0,000	-1,05E-03

evaluated from CML 2001, August 2016

1.3.34 MRP-C 19/125

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408192	MRP-C 19/125	10	4,8971	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	8,140	9,030	1,497	1,265	0,859	0,000	-4,511
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,62E-11	1,88E-11	1,87E-13	2,69E-11	1,16E-13	0,000	-9,81E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	2,03E-02	1,76E-02	9,96E-03	2,63E-03	1,95E-03	0,000	-1,18E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,29E-03	2,36E-03	1,40E-03	3,06E-04	4,63E-04	0,000	-1,24E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-9,78E-05	3,07E-03	-5,93E-04	1,88E-04	-6,85E-04	0,000	-2,07E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,70E-06	4,35E-06	1,96E-08	2,67E-07	1,18E-08	0,000	4,80E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,08E+02	1,24E+02	2,04E+01	1,49E+01	1,19E+01	0,000	-6,28E+01
Energy (net calorific value) [MJ]	1,20E+02	1,27E+02	2,05E+01	2,66E+01	1,20E+01	0,000	-6,60E+01
Energy ren. (net calorific value) [MJ]	3,24E+01	2,27E+01	1,25E-01	1,56E+01	7,72E-02	0,000	-6,04E+00
Water consumption [kg]	3,45E+01	2,59E+01	1,47E-01	1,27E+01	8,98E-02	0,000	-4,27E+00
Air pollution [m ³]	4,88E+02	9,83E+02	1,03E+02	9,65E+01	4,10E+01	0,000	-7,37E+02
Water pollution [m ³]	1,67E+00	1,42E+00	1,18E-01	3,86E-01	7,02E-02	0,000	-3,22E-01
Hazardous waste for disposal [kg]	3,20E-07	3,22E-07	4,19E-11	-2,00E-09	2,21E-11	0,000	3,52E-10
Disposed of non-hazardous waste [kg]	2,18E-01	1,40E-01	2,01E-03	1,92E-02	1,20E-03	0,000	5,58E-02
Disposed of radioactive waste [kg]	4,20E-03	1,14E-03	3,25E-05	4,14E-03	2,00E-05	0,000	-1,14E-03

evaluated from CML 2001, August 2016

1.3.35 MRP-C 19/133

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408193	MRP-C 19/133	10	6,1209	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	9,502	11,520	1,871	1,667	1,073	0,000	-6,629
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,60E-11	2,06E-11	2,34E-13	3,55E-11	1,45E-13	0,000	-1,05E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,50E-02	2,24E-02	1,24E-02	3,46E-03	2,44E-03	0,000	-1,58E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,94E-03	2,88E-03	1,75E-03	4,03E-04	5,79E-04	0,000	-1,67E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,29E-04	3,89E-03	-7,42E-04	2,48E-04	-8,56E-04	0,000	-2,77E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,82E-06	4,36E-06	2,45E-08	3,52E-07	1,47E-08	0,000	6,95E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,24E+02	1,44E+02	2,55E+01	1,97E+01	1,49E+01	0,000	-7,98E+01
Energy (net calorific value) [MJ]	1,40E+02	1,47E+02	2,56E+01	3,51E+01	1,50E+01	0,000	-8,29E+01
Energy ren. (net calorific value) [MJ]	3,81E+01	2,38E+01	1,56E-01	2,05E+01	9,65E-02	0,000	-6,56E+00
Water consumption [kg]	3,92E+01	2,89E+01	1,84E-01	1,67E+01	1,12E-01	0,000	-6,70E+00
Air pollution [m ³]	6,02E+02	1,27E+03	1,29E+02	1,27E+02	5,12E+01	0,000	-9,80E+02
Water pollution [m ³]	1,87E+00	1,52E+00	1,48E-01	5,09E-01	8,77E-02	0,000	-4,01E-01
Hazardous waste for disposal [kg]	3,24E-07	3,26E-07	5,24E-11	-2,63E-09	2,76E-11	0,000	8,56E-10
Disposed of non-hazardous waste [kg]	2,34E-01	1,72E-01	2,51E-03	2,53E-02	1,49E-03	0,000	3,31E-02
Disposed of radioactive waste [kg]	5,68E-03	1,26E-03	4,07E-05	5,46E-03	2,50E-05	0,000	-1,11E-03

evaluated from CML 2001, August 2016

1.3.36 MRP-C 19/140

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408194	MRP-C 19/140	6	4,4187	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,538	7,796	1,351	1,166	0,775	0,000	-4,550
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,15E-11	1,41E-11	1,69E-13	2,48E-11	1,04E-13	0,000	-7,64E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,80E-02	1,59E-02	8,99E-03	2,42E-03	1,76E-03	0,000	-1,11E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,89E-03	2,10E-03	1,26E-03	2,82E-04	4,18E-04	0,000	-1,17E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,17E-04	2,71E-03	-5,35E-04	1,73E-04	-6,18E-04	0,000	-1,94E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,16E-06	2,84E-06	1,77E-08	2,47E-07	1,06E-08	0,000	4,47E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,53E+01	9,88E+01	1,84E+01	1,38E+01	1,08E+01	0,000	-5,65E+01
Energy (net calorific value) [MJ]	9,65E+01	1,01E+02	1,85E+01	2,45E+01	1,08E+01	0,000	-5,88E+01
Energy ren. (net calorific value) [MJ]	3,03E+01	2,05E+01	1,13E-01	1,44E+01	6,96E-02	0,000	-4,75E+00
Water consumption [kg]	2,92E+01	2,16E+01	1,33E-01	1,17E+01	8,10E-02	0,000	-4,38E+00
Air pollution [m ³]	4,26E+02	8,96E+02	9,33E+01	8,91E+01	3,70E+01	0,000	-6,89E+02
Water pollution [m ³]	1,40E+00	1,16E+00	1,07E-01	3,56E-01	6,33E-02	0,000	-2,88E-01
Hazardous waste for disposal [kg]	2,70E-07	2,71E-07	3,78E-11	-1,84E-09	1,99E-11	0,000	5,62E-10
Disposed of non-hazardous waste [kg]	1,67E-01	1,25E-01	1,82E-03	1,77E-02	1,08E-03	0,000	2,18E-02
Disposed of radioactive waste [kg]	3,96E-03	9,08E-04	2,93E-05	3,82E-03	1,81E-05	0,000	-8,16E-04

evaluated from CML 2001, August 2016

1.3.37 MRP-C 19/160

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408195	MRP-C 19/160	6	4,5107	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	6,831	8,045	1,379	1,181	0,791	0,000	-4,566
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,24E-11	1,50E-11	1,73E-13	2,51E-11	1,07E-13	0,000	-7,95E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,84E-02	1,62E-02	9,17E-03	2,46E-03	1,80E-03	0,000	-1,12E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,97E-03	2,16E-03	1,29E-03	2,86E-04	4,27E-04	0,000	-1,19E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,93E-04	2,78E-03	-5,47E-04	1,76E-04	-6,31E-04	0,000	-1,97E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,49E-06	3,17E-06	1,81E-08	2,50E-07	1,08E-08	0,000	4,68E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,95E+01	1,03E+02	1,88E+01	1,39E+01	1,10E+01	0,000	-5,76E+01
Energy (net calorific value) [MJ]	1,01E+02	1,06E+02	1,89E+01	2,49E+01	1,11E+01	0,000	-6,00E+01
Energy ren. (net calorific value) [MJ]	3,07E+01	2,09E+01	1,15E-01	1,46E+01	7,11E-02	0,000	-4,94E+00
Water consumption [kg]	3,01E+01	2,25E+01	1,36E-01	1,18E+01	8,27E-02	0,000	-4,37E+00
Air pollution [m ³]	4,38E+02	9,14E+02	9,52E+01	9,02E+01	3,77E+01	0,000	-6,99E+02
Water pollution [m ³]	1,45E+00	1,21E+00	1,09E-01	3,61E-01	6,46E-02	0,000	-2,93E-01
Hazardous waste for disposal [kg]	2,81E-07	2,82E-07	3,86E-11	-1,86E-09	2,04E-11	0,000	5,38E-10
Disposed of non-hazardous waste [kg]	1,77E-01	1,28E-01	1,85E-03	1,79E-02	1,10E-03	0,000	2,89E-02
Disposed of radioactive waste [kg]	4,01E-03	9,52E-04	3,00E-05	3,87E-03	1,84E-05	0,000	-8,61E-04

evaluated from CML 2001, August 2016

1.3.38 MRP-C 19/168

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408196	MRP-C 19/168	6	4,7376	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	7,379	8,582	1,448	1,250	0,831	0,000	-4,732
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,48E-11	1,64E-11	1,81E-13	2,66E-11	1,12E-13	0,000	-8,58E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,95E-02	1,71E-02	9,64E-03	2,60E-03	1,89E-03	0,000	-1,18E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,14E-03	2,27E-03	1,35E-03	3,02E-04	4,48E-04	0,000	-1,24E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,65E-04	2,95E-03	-5,74E-04	1,86E-04	-6,63E-04	0,000	-2,06E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,93E-06	3,59E-06	1,90E-08	2,64E-07	1,14E-08	0,000	4,70E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,72E+01	1,12E+02	1,97E+01	1,48E+01	1,16E+01	0,000	-6,07E+01
Energy (net calorific value) [MJ]	1,09E+02	1,15E+02	1,98E+01	2,63E+01	1,16E+01	0,000	-6,33E+01
Energy ren. (net calorific value) [MJ]	3,19E+01	2,16E+01	1,21E-01	1,54E+01	7,47E-02	0,000	-5,31E+00
Water consumption [kg]	3,22E+01	2,40E+01	1,43E-01	1,25E+01	8,69E-02	0,000	-4,54E+00
Air pollution [m ³]	4,65E+02	9,61E+02	1,00E+02	9,55E+01	3,96E+01	0,000	-7,32E+02
Water pollution [m ³]	1,54E+00	1,28E+00	1,14E-01	3,82E-01	6,79E-02	0,000	-3,10E-01
Hazardous waste for disposal [kg]	2,87E-07	2,89E-07	4,06E-11	-1,97E-09	2,14E-11	0,000	5,25E-10
Disposed of non-hazardous waste [kg]	1,87E-01	1,34E-01	1,95E-03	1,90E-02	1,16E-03	0,000	3,08E-02
Disposed of radioactive waste [kg]	4,23E-03	1,02E-03	3,15E-05	4,10E-03	1,94E-05	0,000	-9,41E-04

evaluated from CML 2001, August 2016

1.3.39 MRP-C 19/180

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408197	MRP-C 19/180	4	6,4948	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	8,645	11,927	1,985	1,888	1,139	0,000	-8,294
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,78E-11	1,60E-11	2,49E-13	4,02E-11	1,54E-13	0,000	-8,69E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	2,57E-02	2,40E-02	1,32E-02	3,93E-03	2,59E-03	0,000	-1,80E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,96E-03	2,96E-03	1,86E-03	4,57E-04	6,15E-04	0,000	-1,92E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,73E-04	4,09E-03	-7,87E-04	2,81E-04	-9,08E-04	0,000	-3,15E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,90E-06	2,39E-06	2,60E-08	3,99E-07	1,56E-08	0,000	7,37E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,09E+02	1,29E+02	2,70E+01	2,23E+01	1,58E+01	0,000	-8,57E+01
Energy (net calorific value) [MJ]	1,27E+02	1,32E+02	2,71E+01	3,97E+01	1,59E+01	0,000	-8,77E+01
Energy ren. (net calorific value) [MJ]	4,00E+01	2,20E+01	1,66E-01	2,32E+01	1,02E-01	0,000	-5,54E+00
Water consumption [kg]	3,67E+01	2,62E+01	1,96E-01	1,89E+01	1,19E-01	0,000	-8,73E+00
Air pollution [m ³]	6,18E+02	1,40E+03	1,37E+02	1,44E+02	5,43E+01	0,000	-1,11E+03
Water pollution [m ³]	1,68E+00	1,28E+00	1,57E-01	5,77E-01	9,31E-02	0,000	-4,31E-01
Hazardous waste for disposal [kg]	2,52E-07	2,54E-07	5,56E-11	-2,98E-09	2,93E-11	0,000	1,47E-09
Disposed of non-hazardous waste [kg]	1,73E-01	1,77E-01	2,67E-03	2,87E-02	1,59E-03	0,000	-3,69E-02
Disposed of radioactive waste [kg]	6,57E-03	1,05E-03	4,31E-05	6,18E-03	2,65E-05	0,000	-7,31E-04

evaluated from CML 2001, August 2016

1.3.40 MRP-C 19/200

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408198	MRP-C 19/200	4	7,0514	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	10,003	13,275	2,155	2,004	1,237	0,000	-8,668
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,29E-11	1,99E-11	2,70E-13	4,26E-11	1,67E-13	0,000	-1,01E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,82E-02	2,61E-02	1,43E-02	4,17E-03	2,81E-03	0,000	-1,92E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,37E-03	3,25E-03	2,02E-03	4,85E-04	6,67E-04	0,000	-2,04E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,98E-04	4,51E-03	-8,54E-04	2,98E-04	-9,86E-04	0,000	-3,37E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,21E-06	3,66E-06	2,83E-08	4,24E-07	1,69E-08	0,000	8,12E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,27E+02	1,50E+02	2,93E+01	2,37E+01	1,72E+01	0,000	-9,29E+01
Energy (net calorific value) [MJ]	1,47E+02	1,53E+02	2,95E+01	4,22E+01	1,73E+01	0,000	-9,54E+01
Energy ren. (net calorific value) [MJ]	4,25E+01	2,39E+01	1,80E-01	2,47E+01	1,11E-01	0,000	-6,41E+00
Water consumption [kg]	4,12E+01	2,98E+01	2,12E-01	2,01E+01	1,29E-01	0,000	-9,10E+00
Air pollution [m ³]	6,81E+02	1,51E+03	1,49E+02	1,53E+02	5,90E+01	0,000	-1,19E+03
Water pollution [m ³]	1,89E+00	1,48E+00	1,70E-01	6,12E-01	1,01E-01	0,000	-4,66E-01
Hazardous waste for disposal [kg]	2,86E-07	2,88E-07	6,04E-11	-3,16E-09	3,18E-11	0,000	1,46E-09
Disposed of non-hazardous waste [kg]	2,10E-01	1,94E-01	2,90E-03	3,04E-02	1,72E-03	0,000	-1,88E-02
Disposed of radioactive waste [kg]	6,97E-03	1,25E-03	4,68E-05	6,57E-03	2,88E-05	0,000	-9,18E-04

evaluated from CML 2001, August 2016

1.3.41 MRP-C 19/219

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408199	MRP-C 19/219	4	7,6949	Steel, Polymer, Cardboard

Environmental impact category	Total	Raw material acquisition	Transport to production	Production	Transport to consumer	Use	End of life
Global Warming Potential (GWP 100 years) [kg CO ₂ -eq.]	11,279	14,722	2,352	2,205	1,350	0,000	-9,349
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,90E-11	2,30E-11	2,95E-13	4,69E-11	1,82E-13	0,000	-1,14E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,10E-02	2,86E-02	1,57E-02	4,59E-03	3,07E-03	0,000	-2,09E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,80E-03	3,55E-03	2,20E-03	5,33E-04	7,28E-04	0,000	-2,21E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,66E-04	4,98E-03	-9,32E-04	3,28E-04	-1,08E-03	0,000	-3,66E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,09E-06	4,49E-06	3,08E-08	4,66E-07	1,85E-08	0,000	8,46E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,44E+02	1,69E+02	3,20E+01	2,60E+01	1,88E+01	0,000	-1,02E+02
Energy (net calorific value) [MJ]	1,66E+02	1,73E+02	3,22E+01	4,64E+01	1,89E+01	0,000	-1,05E+02
Energy ren. (net calorific value) [MJ]	4,57E+01	2,54E+01	1,96E-01	2,72E+01	1,21E-01	0,000	-7,22E+00
Water consumption [kg]	4,59E+01	3,33E+01	2,32E-01	2,21E+01	1,41E-01	0,000	-9,85E+00
Air pollution [m ³]	7,52E+02	1,65E+03	1,62E+02	1,69E+02	6,44E+01	0,000	-1,30E+03
Water pollution [m ³]	2,09E+00	1,63E+00	1,86E-01	6,74E-01	1,10E-01	0,000	-5,13E-01
Hazardous waste for disposal [kg]	2,98E-07	3,00E-07	6,59E-11	-3,48E-09	3,47E-11	0,000	1,53E-09
Disposed of non-hazardous waste [kg]	2,30E-01	2,12E-01	3,16E-03	3,35E-02	1,88E-03	0,000	-2,03E-02
Disposed of radioactive waste [kg]	7,65E-03	1,41E-03	5,11E-05	7,23E-03	3,14E-05	0,000	-1,06E-03

evaluated from CML 2001, August 2016