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Environmental report

„MRP-C 32 (01)“

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1 Life Cycle Assessment „HILTI_MRP-C 32_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
2408241	MRP-C 32/10	20	3,4008	Steel, Polymer, Cardboard
2408242	MRP-C 32/12	20	3,4430	Steel, Polymer, Cardboard
2408243	MRP-C 32/14	20	3,4576	Steel, Polymer, Cardboard
2408244	MRP-C 32/15	20	3,4720	Steel, Polymer, Cardboard
2408245	MRP-C 32/16	20	3,4796	Steel, Polymer, Cardboard
2408246	MRP-C 32/17	20	3,4932	Steel, Polymer, Cardboard
2408247	MRP-C 32/18	20	3,4778	Steel, Polymer, Cardboard
2408248	MRP-C 32/20	20	3,6830	Steel, Polymer, Cardboard
2408249	MRP-C 32/21	20	3,6956	Steel, Polymer, Cardboard
2408250	MRP-C 32/22	20	3,7024	Steel, Polymer, Cardboard
2408251	MRP-C 32/25	20	3,7312	Steel, Polymer, Cardboard
2408252	MRP-C 32/26	20	3,7494	Steel, Polymer, Cardboard
2408253	MRP-C 32/28	20	3,9560	Steel, Polymer, Cardboard
2408254	MRP-C 32/32	20	4,0196	Steel, Polymer, Cardboard
2408255	MRP-C 32/33	20	4,0358	Steel, Polymer, Cardboard
2408256	MRP-C 32/35	20	4,1404	Steel, Polymer, Cardboard
2408257	MRP-C 32/40	20	4,4942	Steel, Polymer, Cardboard
2408258	MRP-C 32/42	20	4,8556	Steel, Polymer, Cardboard
2408259	MRP-C 32/48	20	5,0682	Steel, Polymer, Cardboard
2408260	MRP-C 32/50	20	5,0868	Steel, Polymer, Cardboard
2408262	MRP-C 32/54	20	5,1306	Steel, Polymer, Cardboard

IT- Number	Product name	Pcs. per salespack	Weight [kg]	Material
2408263	MRP-C 32/57	20	5,9154	Steel, Polymer, Cardboard
2408264	MRP-C 32/60	20	6,7712	Steel, Polymer, Cardboard
2408265	MRP-C 32/63	10	4,0031	Steel, Polymer, Cardboard
2408266	MRP-C 32/64	10	3,6327	Steel, Polymer, Cardboard
2408267	MRP-C 32/66	10	3,6576	Steel, Polymer, Cardboard
2408268	MRP-C 32/75	10	4,0398	Steel, Polymer, Cardboard
2408269	MRP-C 32/76	10	4,0351	Steel, Polymer, Cardboard
2408270	MRP-C 32/88	10	4,6345	Steel, Polymer, Cardboard
2408271	MRP-C 32/90	10	4,8516	Steel, Polymer, Cardboard
2408272	MRP-C 32/104	10	5,0476	Steel, Polymer, Cardboard
2408273	MRP-C 32/108	10	6,7678	Steel, Polymer, Cardboard
2408274	MRP-C 32/110	10	6,9818	Steel, Polymer, Cardboard
2408275	MRP-C 32/114	10	7,0335	Steel, Polymer, Cardboard
2408276	MRP-C 32/125	10	7,3846	Steel, Polymer, Cardboard
2408277	MRP-C 32/128	10	7,4317	Steel, Polymer, Cardboard
2408278	MRP-C 32/133	10	7,4779	Steel, Polymer, Cardboard
2408279	MRP-C 32/140	6	4,9368	Steel, Polymer, Cardboard
2408280	MRP-C 32/154	6	5,3151	Steel, Polymer, Cardboard
2408281	MRP-C 32/160	6	9,7801	Steel, Polymer, Cardboard
2408282	MRP-C 32/168	6	10,0242	Steel, Polymer, Cardboard
2408283	MRP-C 32/180	4	7,2359	Steel, Polymer, Cardboard
2408284	MRP-C 32/200	4	8,2180	Steel, Polymer, Cardboard
2408285	MRP-C 32/204	4	8,2451	Steel, Polymer, Cardboard
2408261	MRP-C 32/219	4	8,4257	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 32 (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 32/10

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408241	MRP-C 32/10	20	3,4008	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.]	5,687	6,653	1,039	1,095	0,596	0,000	-3,697
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,92E-11	1,21E-11	1,30E-13	2,33E-11	8,04E-14	0,000	-6,35E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,41E-02	1,24E-02	6,92E-03	2,27E-03	1,36E-03	0,000	-8,89E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,16E-03	1,55E-03	9,72E-04	2,65E-04	3,22E-04	0,000	-9,44E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,21E-05	2,22E-03	-4,12E-04	1,63E-04	-4,76E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,87E-06	2,58E-06	1,36E-08	2,31E-07	8,17E-09	0,000	3,80E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,47E+01	8,49E+01	1,42E+01	1,29E+01	8,30E+00	0,000	-4,56E+01
Energy (net calorific value) [MJ]	8,49E+01	8,68E+01	1,42E+01	2,30E+01	8,34E+00	0,000	-4,75E+01
Energy ren. (net calorific value) [MJ]	2,06E+01	1,10E+01	8,68E-02	1,35E+01	5,36E-02	0,000	-3,94E+00
Water consumption [kg]	2,35E+01	1,63E+01	1,02E-01	1,10E+01	6,23E-02	0,000	-3,89E+00
Air pollution [m ³]	3,55E+02	7,21E+02	7,18E+01	8,36E+01	2,85E+01	0,000	-5,51E+02
Water pollution [m ³]	1,07E+00	8,35E-01	8,21E-02	3,34E-01	4,87E-02	0,000	-2,30E-01
Hazardous waste for disposal [kg]	1,59E-07	1,60E-07	2,91E-11	-1,73E-09	1,54E-11	0,000	4,03E-10
Disposed of non-hazardous waste [kg]	1,37E-01	9,41E-02	1,40E-03	1,66E-02	8,30E-04	0,000	2,41E-02
Disposed of radioactive waste [kg]	3,63E-03	7,05E-04	2,26E-05	3,59E-03	1,39E-05	0,000	-6,94E-04

evaluated from CML 2001, August 2016

1.3.2 MRP-C 32/12

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408242	MRP-C 32/12	20	3,4430	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.]	5,794	6,686	1,052	1,102	0,604	0,000	-3,649
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,95E-11	1,25E-11	1,32E-13	2,34E-11	8,14E-14	0,000	-6,57E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,43E-02	1,25E-02	7,00E-03	2,29E-03	1,37E-03	0,000	-8,90E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,21E-03	1,58E-03	9,84E-04	2,66E-04	3,26E-04	0,000	-9,44E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,62E-05	2,24E-03	-4,17E-04	1,64E-04	-4,81E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,98E-06	2,69E-06	1,38E-08	2,33E-07	8,27E-09	0,000	3,74E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,63E+01	8,65E+01	1,43E+01	1,30E+01	8,40E+00	0,000	-4,59E+01
Energy (net calorific value) [MJ]	8,66E+01	8,86E+01	1,44E+01	2,32E+01	8,44E+00	0,000	-4,80E+01
Energy ren. (net calorific value) [MJ]	2,13E+01	1,17E+01	8,78E-02	1,36E+01	5,43E-02	0,000	-4,07E+00
Water consumption [kg]	2,43E+01	1,69E+01	1,04E-01	1,10E+01	6,31E-02	0,000	-3,79E+00
Air pollution [m ³]	3,59E+02	7,25E+02	7,27E+01	8,41E+01	2,88E+01	0,000	-5,52E+02
Water pollution [m ³]	1,11E+00	8,70E-01	8,31E-02	3,36E-01	4,93E-02	0,000	-2,33E-01
Hazardous waste for disposal [kg]	1,69E-07	1,70E-07	2,95E-11	-1,74E-09	1,55E-11	0,000	3,72E-10
Disposed of non-hazardous waste [kg]	1,42E-01	9,56E-02	1,41E-03	1,67E-02	8,41E-04	0,000	2,70E-02
Disposed of radioactive waste [kg]	3,64E-03	7,28E-04	2,29E-05	3,61E-03	1,41E-05	0,000	-7,28E-04

evaluated from CML 2001, August 2016

1.3.3 MRP-C 32/14

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408243	MRP-C 32/14	20	3,4576	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.]	5,870	6,729	1,057	1,107	0,606	0,000	-3,630
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,98E-11	1,27E-11	1,32E-13	2,35E-11	8,18E-14	0,000	-6,67E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,44E-02	1,26E-02	7,03E-03	2,30E-03	1,38E-03	0,000	-8,90E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,23E-03	1,59E-03	9,88E-04	2,68E-04	3,27E-04	0,000	-9,44E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,77E-05	2,25E-03	-4,19E-04	1,65E-04	-4,84E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,06E-06	2,77E-06	1,39E-08	2,34E-07	8,31E-09	0,000	3,72E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,74E+01	8,77E+01	1,44E+01	1,31E+01	8,44E+00	0,000	-4,61E+01
Energy (net calorific value) [MJ]	8,78E+01	8,98E+01	1,45E+01	2,33E+01	8,48E+00	0,000	-4,82E+01
Energy ren. (net calorific value) [MJ]	2,14E+01	1,18E+01	8,82E-02	1,36E+01	5,45E-02	0,000	-4,13E+00
Water consumption [kg]	2,46E+01	1,71E+01	1,04E-01	1,11E+01	6,34E-02	0,000	-3,77E+00
Air pollution [m ³]	3,62E+02	7,28E+02	7,30E+01	8,45E+01	2,89E+01	0,000	-5,52E+02
Water pollution [m ³]	1,12E+00	8,83E-01	8,35E-02	3,38E-01	4,96E-02	0,000	-2,34E-01
Hazardous waste for disposal [kg]	1,71E-07	1,72E-07	2,96E-11	-1,75E-09	1,56E-11	0,000	3,56E-10
Disposed of non-hazardous waste [kg]	1,44E-01	9,62E-02	1,42E-03	1,68E-02	8,44E-04	0,000	2,86E-02
Disposed of radioactive waste [kg]	3,66E-03	7,39E-04	2,30E-05	3,63E-03	1,41E-05	0,000	-7,44E-04

evaluated from CML 2001, August 2016

1.3.4 MRP-C 32/15

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408244	MRP-C 32/15	20	3,4720	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.]	5,945	6,772	1,061	1,113	0,609	0,000	-3,610
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,00E-11	1,29E-11	1,33E-13	2,37E-11	8,21E-14	0,000	-6,78E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,45E-02	1,26E-02	7,06E-03	2,31E-03	1,38E-03	0,000	-8,90E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,24E-03	1,60E-03	9,92E-04	2,69E-04	3,29E-04	0,000	-9,44E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,92E-05	2,26E-03	-4,21E-04	1,65E-04	-4,86E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,15E-06	2,85E-06	1,39E-08	2,35E-07	8,34E-09	0,000	3,71E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,86E+01	8,88E+01	1,44E+01	1,31E+01	8,47E+00	0,000	-4,63E+01
Energy (net calorific value) [MJ]	8,89E+01	9,09E+01	1,45E+01	2,34E+01	8,51E+00	0,000	-4,85E+01
Energy ren. (net calorific value) [MJ]	2,15E+01	1,19E+01	8,86E-02	1,37E+01	5,47E-02	0,000	-4,19E+00
Water consumption [kg]	2,49E+01	1,73E+01	1,05E-01	1,11E+01	6,36E-02	0,000	-3,74E+00
Air pollution [m ³]	3,65E+02	7,30E+02	7,33E+01	8,50E+01	2,90E+01	0,000	-5,52E+02
Water pollution [m ³]	1,13E+00	8,96E-01	8,38E-02	3,40E-01	4,98E-02	0,000	-2,35E-01
Hazardous waste for disposal [kg]	1,73E-07	1,74E-07	2,97E-11	-1,75E-09	1,57E-11	0,000	3,40E-10
Disposed of non-hazardous waste [kg]	1,46E-01	9,67E-02	1,43E-03	1,69E-02	8,48E-04	0,000	3,01E-02
Disposed of radioactive waste [kg]	3,67E-03	7,50E-04	2,31E-05	3,64E-03	1,42E-05	0,000	-7,61E-04

evaluated from CML 2001, August 2016

1.3.5 MRP-C 32/16

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408245	MRP-C 32/16	20	3,4796	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.]	5,984	6,794	1,064	1,116	0,610	0,000	-3,600
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,02E-11	1,31E-11	1,33E-13	2,37E-11	8,23E-14	0,000	-6,83E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,45E-02	1,26E-02	7,08E-03	2,32E-03	1,39E-03	0,000	-8,90E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,25E-03	1,60E-03	9,95E-04	2,70E-04	3,29E-04	0,000	-9,44E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,46E-05	2,27E-03	-4,22E-04	1,66E-04	-4,87E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,19E-06	2,90E-06	1,39E-08	2,36E-07	8,36E-09	0,000	3,70E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,92E+01	8,94E+01	1,45E+01	1,32E+01	8,49E+00	0,000	-4,64E+01
Energy (net calorific value) [MJ]	8,95E+01	9,15E+01	1,45E+01	2,35E+01	8,53E+00	0,000	-4,86E+01
Energy ren. (net calorific value) [MJ]	2,16E+01	1,19E+01	8,88E-02	1,37E+01	5,48E-02	0,000	-4,22E+00
Water consumption [kg]	2,50E+01	1,74E+01	1,05E-01	1,12E+01	6,38E-02	0,000	-3,72E+00
Air pollution [m ³]	3,66E+02	7,31E+02	7,34E+01	8,52E+01	2,91E+01	0,000	-5,53E+02
Water pollution [m ³]	1,14E+00	9,03E-01	8,40E-02	3,41E-01	4,99E-02	0,000	-2,36E-01
Hazardous waste for disposal [kg]	1,74E-07	1,75E-07	2,98E-11	-1,76E-09	1,57E-11	0,000	3,32E-10
Disposed of non-hazardous waste [kg]	1,47E-01	9,70E-02	1,43E-03	1,69E-02	8,50E-04	0,000	3,10E-02
Disposed of radioactive waste [kg]	3,68E-03	7,56E-04	2,31E-05	3,65E-03	1,42E-05	0,000	-7,70E-04

evaluated from CML 2001, August 2016

1.3.6 MRP-C 32/17

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408246	MRP-C 32/17	20	3,4932	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.]	6,054	6,834	1,068	1,121	0,613	0,000	-3,582
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,04E-11	1,33E-11	1,34E-13	2,38E-11	8,26E-14	0,000	-6,93E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,46E-02	1,27E-02	7,11E-03	2,33E-03	1,39E-03	0,000	-8,90E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,27E-03	1,61E-03	9,98E-04	2,71E-04	3,31E-04	0,000	-9,43E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,67E-05	2,28E-03	-4,23E-04	1,67E-04	-4,88E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,27E-06	2,97E-06	1,40E-08	2,37E-07	8,39E-09	0,000	3,69E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,02E+01	9,05E+01	1,45E+01	1,32E+01	8,52E+00	0,000	-4,66E+01
Energy (net calorific value) [MJ]	9,06E+01	9,27E+01	1,46E+01	2,36E+01	8,56E+00	0,000	-4,88E+01
Energy ren. (net calorific value) [MJ]	2,17E+01	1,20E+01	8,91E-02	1,38E+01	5,51E-02	0,000	-4,28E+00
Water consumption [kg]	2,53E+01	1,76E+01	1,05E-01	1,12E+01	6,40E-02	0,000	-3,70E+00
Air pollution [m ³]	3,69E+02	7,33E+02	7,37E+01	8,56E+01	2,92E+01	0,000	-5,53E+02
Water pollution [m ³]	1,15E+00	9,15E-01	8,44E-02	3,42E-01	5,01E-02	0,000	-2,37E-01
Hazardous waste for disposal [kg]	1,76E-07	1,77E-07	2,99E-11	-1,77E-09	1,58E-11	0,000	3,17E-10
Disposed of non-hazardous waste [kg]	1,49E-01	9,75E-02	1,44E-03	1,70E-02	8,53E-04	0,000	3,24E-02
Disposed of radioactive waste [kg]	3,69E-03	7,66E-04	2,32E-05	3,67E-03	1,43E-05	0,000	-7,85E-04

evaluated from CML 2001, August 2016

1.3.7 MRP-C 32/18

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408247	MRP-C 32/18	20	3,4778	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.]	6,086	6,881	1,063	1,125	0,610	0,000	-3,593
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,06E-11	1,34E-11	1,33E-13	2,39E-11	8,22E-14	0,000	-6,91E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,46E-02	1,27E-02	7,07E-03	2,34E-03	1,39E-03	0,000	-8,90E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,25E-03	1,60E-03	9,94E-04	2,72E-04	3,29E-04	0,000	-9,43E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,68E-05	2,28E-03	-4,21E-04	1,67E-04	-4,86E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,31E-06	3,02E-06	1,39E-08	2,38E-07	8,35E-09	0,000	3,72E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,07E+01	9,10E+01	1,45E+01	1,33E+01	8,49E+00	0,000	-4,65E+01
Energy (net calorific value) [MJ]	9,11E+01	9,31E+01	1,45E+01	2,37E+01	8,53E+00	0,000	-4,88E+01
Energy ren. (net calorific value) [MJ]	2,12E+01	1,15E+01	8,87E-02	1,39E+01	5,48E-02	0,000	-4,27E+00
Water consumption [kg]	2,52E+01	1,75E+01	1,05E-01	1,13E+01	6,38E-02	0,000	-3,74E+00
Air pollution [m ³]	3,69E+02	7,33E+02	7,34E+01	8,59E+01	2,91E+01	0,000	-5,53E+02
Water pollution [m ³]	1,15E+00	9,04E-01	8,40E-02	3,44E-01	4,98E-02	0,000	-2,36E-01
Hazardous waste for disposal [kg]	1,69E-07	1,71E-07	2,98E-11	-1,77E-09	1,57E-11	0,000	3,20E-10
Disposed of non-hazardous waste [kg]	1,49E-01	9,70E-02	1,43E-03	1,71E-02	8,49E-04	0,000	3,25E-02
Disposed of radioactive waste [kg]	3,70E-03	7,65E-04	2,31E-05	3,68E-03	1,42E-05	0,000	-7,83E-04

evaluated from CML 2001, August 2016

1.3.8 MRP-C 32/20

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408248	MRP-C 32/20	20	3,6830	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.]	6,393	7,312	1,126	1,195	0,646	0,000	-3,886
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,24E-11	1,40E-11	1,41E-13	2,54E-11	8,71E-14	0,000	-7,18E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,54E-02	1,35E-02	7,49E-03	2,48E-03	1,47E-03	0,000	-9,51E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,37E-03	1,69E-03	1,05E-03	2,89E-04	3,48E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,55E-05	2,42E-03	-4,46E-04	1,78E-04	-5,15E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,43E-06	3,11E-06	1,48E-08	2,53E-07	8,85E-09	0,000	3,96E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,45E+01	9,55E+01	1,53E+01	1,41E+01	8,99E+00	0,000	-4,94E+01
Energy (net calorific value) [MJ]	9,57E+01	9,78E+01	1,54E+01	2,51E+01	9,03E+00	0,000	-5,17E+01
Energy ren. (net calorific value) [MJ]	2,23E+01	1,18E+01	9,40E-02	1,47E+01	5,81E-02	0,000	-4,44E+00
Water consumption [kg]	2,63E+01	1,82E+01	1,11E-01	1,20E+01	6,75E-02	0,000	-4,07E+00
Air pollution [m ³]	3,90E+02	7,80E+02	7,77E+01	9,12E+01	3,08E+01	0,000	-5,90E+02
Water pollution [m ³]	1,19E+00	9,37E-01	8,89E-02	3,65E-01	5,28E-02	0,000	-2,51E-01
Hazardous waste for disposal [kg]	1,72E-07	1,73E-07	3,15E-11	-1,88E-09	1,66E-11	0,000	3,73E-10
Disposed of non-hazardous waste [kg]	1,53E-01	1,02E-01	1,51E-03	1,81E-02	8,99E-04	0,000	3,03E-02
Disposed of radioactive waste [kg]	3,95E-03	7,96E-04	2,45E-05	3,91E-03	1,50E-05	0,000	-8,03E-04

evaluated from CML 2001, August 2016

1.3.9 MRP-C 32/21

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408249	MRP-C 32/21	20	3,6956	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.]	6,458	7,349	1,130	1,200	0,648	0,000	-3,869
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,26E-11	1,42E-11	1,41E-13	2,55E-11	8,74E-14	0,000	-7,27E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,55E-02	1,35E-02	7,52E-03	2,49E-03	1,47E-03	0,000	-9,51E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,38E-03	1,69E-03	1,06E-03	2,90E-04	3,50E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,82E-05	2,44E-03	-4,48E-04	1,78E-04	-5,17E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,50E-06	3,18E-06	1,48E-08	2,54E-07	8,88E-09	0,000	3,94E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,55E+01	9,65E+01	1,54E+01	1,42E+01	9,02E+00	0,000	-4,96E+01
Energy (net calorific value) [MJ]	9,67E+01	9,88E+01	1,54E+01	2,52E+01	9,06E+00	0,000	-5,19E+01
Energy ren. (net calorific value) [MJ]	2,24E+01	1,19E+01	9,43E-02	1,48E+01	5,83E-02	0,000	-4,50E+00
Water consumption [kg]	2,66E+01	1,84E+01	1,11E-01	1,20E+01	6,77E-02	0,000	-4,05E+00
Air pollution [m ³]	3,92E+02	7,82E+02	7,80E+01	9,16E+01	3,09E+01	0,000	-5,91E+02
Water pollution [m ³]	1,20E+00	9,48E-01	8,92E-02	3,66E-01	5,30E-02	0,000	-2,52E-01
Hazardous waste for disposal [kg]	1,73E-07	1,75E-07	3,16E-11	-1,89E-09	1,67E-11	0,000	3,59E-10
Disposed of non-hazardous waste [kg]	1,55E-01	1,03E-01	1,52E-03	1,82E-02	9,02E-04	0,000	3,17E-02
Disposed of radioactive waste [kg]	3,96E-03	8,06E-04	2,45E-05	3,93E-03	1,51E-05	0,000	-8,18E-04

evaluated from CML 2001, August 2016

1.3.10 MRP-C 32/22

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408250	MRP-C 32/22	20	3,7024	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.]	6,494	7,370	1,132	1,203	0,649	0,000	-3,860
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,28E-11	1,43E-11	1,42E-13	2,56E-11	8,75E-14	0,000	-7,32E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,55E-02	1,35E-02	7,53E-03	2,50E-03	1,48E-03	0,000	-9,51E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,39E-03	1,70E-03	1,06E-03	2,91E-04	3,50E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,42E-05	2,44E-03	-4,49E-04	1,79E-04	-5,18E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,54E-06	3,22E-06	1,48E-08	2,54E-07	8,89E-09	0,000	3,94E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,60E+01	9,71E+01	1,54E+01	1,42E+01	9,03E+00	0,000	-4,97E+01
Energy (net calorific value) [MJ]	9,72E+01	9,94E+01	1,55E+01	2,53E+01	9,08E+00	0,000	-5,20E+01
Energy ren. (net calorific value) [MJ]	2,24E+01	1,20E+01	9,44E-02	1,48E+01	5,84E-02	0,000	-4,53E+00
Water consumption [kg]	2,67E+01	1,85E+01	1,12E-01	1,20E+01	6,79E-02	0,000	-4,04E+00
Air pollution [m ³]	3,93E+02	7,83E+02	7,81E+01	9,18E+01	3,10E+01	0,000	-5,91E+02
Water pollution [m ³]	1,21E+00	9,54E-01	8,94E-02	3,67E-01	5,31E-02	0,000	-2,52E-01
Hazardous waste for disposal [kg]	1,74E-07	1,76E-07	3,17E-11	-1,90E-09	1,67E-11	0,000	3,52E-10
Disposed of non-hazardous waste [kg]	1,56E-01	1,03E-01	1,52E-03	1,83E-02	9,04E-04	0,000	3,24E-02
Disposed of radioactive waste [kg]	3,96E-03	8,11E-04	2,46E-05	3,94E-03	1,51E-05	0,000	-8,26E-04

evaluated from CML 2001, August 2016

1.3.11 MRP-C 32/25

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408251	MRP-C 32/25	20	3,7312	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.]	6,643	7,455	1,140	1,214	0,654	0,000	-3,821
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,33E-11	1,48E-11	1,43E-13	2,58E-11	8,82E-14	0,000	-7,53E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,57E-02	1,36E-02	7,59E-03	2,52E-03	1,49E-03	0,000	-9,52E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,42E-03	1,72E-03	1,07E-03	2,93E-04	3,53E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,78E-06	2,47E-03	-4,52E-04	1,80E-04	-5,22E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,70E-06	3,38E-06	1,50E-08	2,57E-07	8,96E-09	0,000	3,90E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,83E+01	9,94E+01	1,55E+01	1,43E+01	9,10E+00	0,000	-5,00E+01
Energy (net calorific value) [MJ]	9,95E+01	1,02E+02	1,56E+01	2,55E+01	9,15E+00	0,000	-5,24E+01
Energy ren. (net calorific value) [MJ]	2,26E+01	1,22E+01	9,52E-02	1,50E+01	5,88E-02	0,000	-4,65E+00
Water consumption [kg]	2,73E+01	1,90E+01	1,12E-01	1,22E+01	6,84E-02	0,000	-3,98E+00
Air pollution [m ³]	3,99E+02	7,88E+02	7,88E+01	9,27E+01	3,12E+01	0,000	-5,92E+02
Water pollution [m ³]	1,24E+00	9,80E-01	9,01E-02	3,71E-01	5,35E-02	0,000	-2,55E-01
Hazardous waste for disposal [kg]	1,78E-07	1,80E-07	3,19E-11	-1,91E-09	1,68E-11	0,000	3,21E-10
Disposed of non-hazardous waste [kg]	1,61E-01	1,04E-01	1,53E-03	1,84E-02	9,11E-04	0,000	3,56E-02
Disposed of radioactive waste [kg]	3,99E-03	8,33E-04	2,48E-05	3,98E-03	1,52E-05	0,000	-8,59E-04

evaluated from CML 2001, August 2016

1.3.12 MRP-C 32/26

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408252	MRP-C 32/26	20	3,7494	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.]	6,737	7,508	1,146	1,221	0,658	0,000	-3,796
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,36E-11	1,51E-11	1,44E-13	2,60E-11	8,87E-14	0,000	-7,66E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,58E-02	1,37E-02	7,63E-03	2,54E-03	1,49E-03	0,000	-9,52E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,44E-03	1,73E-03	1,07E-03	2,95E-04	3,55E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,35E-05	2,48E-03	-4,54E-04	1,81E-04	-5,24E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,81E-06	3,49E-06	1,50E-08	2,58E-07	9,01E-09	0,000	3,88E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,97E+01	1,01E+02	1,56E+01	1,44E+01	9,15E+00	0,000	-5,03E+01
Energy (net calorific value) [MJ]	1,01E+02	1,03E+02	1,57E+01	2,57E+01	9,19E+00	0,000	-5,27E+01
Energy ren. (net calorific value) [MJ]	2,28E+01	1,23E+01	9,56E-02	1,50E+01	5,91E-02	0,000	-4,72E+00
Water consumption [kg]	2,77E+01	1,93E+01	1,13E-01	1,22E+01	6,87E-02	0,000	-3,95E+00
Air pollution [m ³]	4,02E+02	7,90E+02	7,91E+01	9,32E+01	3,14E+01	0,000	-5,92E+02
Water pollution [m ³]	1,26E+00	9,97E-01	9,05E-02	3,73E-01	5,37E-02	0,000	-2,56E-01
Hazardous waste for disposal [kg]	1,81E-07	1,82E-07	3,21E-11	-1,93E-09	1,69E-11	0,000	3,01E-10
Disposed of non-hazardous waste [kg]	1,64E-01	1,05E-01	1,54E-03	1,85E-02	9,15E-04	0,000	3,75E-02
Disposed of radioactive waste [kg]	4,01E-03	8,48E-04	2,49E-05	4,00E-03	1,53E-05	0,000	-8,79E-04

evaluated from CML 2001, August 2016

1.3.13 MRP-C 32/28

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408253	MRP-C 32/28	20	3,9560	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.]	7,019	7,936	1,209	1,291	0,694	0,000	-4,111
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,54E-11	1,55E-11	1,51E-13	2,75E-11	9,35E-14	0,000	-7,89E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,66E-02	1,45E-02	8,05E-03	2,68E-03	1,58E-03	0,000	-1,02E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,56E-03	1,82E-03	1,13E-03	3,12E-04	3,74E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,25E-08	2,62E-03	-4,79E-04	1,92E-04	-5,53E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,89E-06	3,55E-06	1,59E-08	2,73E-07	9,50E-09	0,000	4,14E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,32E+01	1,05E+02	1,65E+01	1,52E+01	9,65E+00	0,000	-5,31E+01
Energy (net calorific value) [MJ]	1,05E+02	1,07E+02	1,65E+01	2,72E+01	9,70E+00	0,000	-5,57E+01
Energy ren. (net calorific value) [MJ]	2,38E+01	1,26E+01	1,01E-01	1,59E+01	6,24E-02	0,000	-4,87E+00
Water consumption [kg]	2,88E+01	2,00E+01	1,19E-01	1,29E+01	7,25E-02	0,000	-4,31E+00
Air pollution [m ³]	4,22E+02	8,38E+02	8,35E+01	9,86E+01	3,31E+01	0,000	-6,31E+02
Water pollution [m ³]	1,30E+00	1,02E+00	9,55E-02	3,94E-01	5,67E-02	0,000	-2,71E-01
Hazardous waste for disposal [kg]	1,82E-07	1,84E-07	3,39E-11	-2,04E-09	1,79E-11	0,000	3,65E-10
Disposed of non-hazardous waste [kg]	1,67E-01	1,10E-01	1,63E-03	1,96E-02	9,66E-04	0,000	3,45E-02
Disposed of radioactive waste [kg]	4,25E-03	8,75E-04	2,63E-05	4,23E-03	1,62E-05	0,000	-8,93E-04

evaluated from CML 2001, August 2016

1.3.14 MRP-C 32/32

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408254	MRP-C 32/32	20	4,0196	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.]	7,238	8,033	1,229	1,306	0,705	0,000	-4,035
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,60E-11	1,62E-11	1,54E-13	2,78E-11	9,50E-14	0,000	-8,25E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,70E-02	1,46E-02	8,18E-03	2,71E-03	1,60E-03	0,000	-1,02E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,63E-03	1,86E-03	1,15E-03	3,16E-04	3,80E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,84E-05	2,66E-03	-4,87E-04	1,94E-04	-5,62E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,12E-06	3,78E-06	1,61E-08	2,76E-07	9,66E-09	0,000	4,06E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,65E+01	1,08E+02	1,67E+01	1,54E+01	9,81E+00	0,000	-5,38E+01
Energy (net calorific value) [MJ]	1,09E+02	1,11E+02	1,68E+01	2,75E+01	9,85E+00	0,000	-5,65E+01
Energy ren. (net calorific value) [MJ]	2,46E+01	1,34E+01	1,03E-01	1,61E+01	6,34E-02	0,000	-5,09E+00
Water consumption [kg]	2,99E+01	2,08E+01	1,21E-01	1,31E+01	7,37E-02	0,000	-4,18E+00
Air pollution [m ³]	4,31E+02	8,45E+02	8,48E+01	9,97E+01	3,36E+01	0,000	-6,33E+02
Water pollution [m ³]	1,36E+00	1,08E+00	9,71E-02	3,99E-01	5,76E-02	0,000	-2,75E-01
Hazardous waste for disposal [kg]	1,95E-07	1,97E-07	3,44E-11	-2,06E-09	1,81E-11	0,000	3,10E-10
Disposed of non-hazardous waste [kg]	1,75E-01	1,13E-01	1,65E-03	1,98E-02	9,81E-04	0,000	3,97E-02
Disposed of radioactive waste [kg]	4,29E-03	9,14E-04	2,67E-05	4,28E-03	1,64E-05	0,000	-9,51E-04

evaluated from CML 2001, August 2016

1.3.15 MRP-C 32/33

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408255	MRP-C 32/33	20	4,0358	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.]	7,321	8,080	1,234	1,313	0,708	0,000	-4,013
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,63E-11	1,65E-11	1,55E-13	2,79E-11	9,54E-14	0,000	-8,37E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,71E-02	1,47E-02	8,21E-03	2,73E-03	1,61E-03	0,000	-1,02E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,65E-03	1,87E-03	1,15E-03	3,17E-04	3,82E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,80E-05	2,67E-03	-4,89E-04	1,95E-04	-5,64E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,21E-06	3,87E-06	1,62E-08	2,77E-07	9,69E-09	0,000	4,04E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,77E+01	1,10E+02	1,68E+01	1,55E+01	9,85E+00	0,000	-5,40E+01
Energy (net calorific value) [MJ]	1,10E+02	1,12E+02	1,69E+01	2,76E+01	9,89E+00	0,000	-5,67E+01
Energy ren. (net calorific value) [MJ]	2,47E+01	1,36E+01	1,03E-01	1,62E+01	6,36E-02	0,000	-5,16E+00
Water consumption [kg]	3,03E+01	2,11E+01	1,22E-01	1,31E+01	7,40E-02	0,000	-4,15E+00
Air pollution [m ³]	4,34E+02	8,48E+02	8,52E+01	1,00E+02	3,38E+01	0,000	-6,33E+02
Water pollution [m ³]	1,37E+00	1,09E+00	9,75E-02	4,01E-01	5,78E-02	0,000	-2,77E-01
Hazardous waste for disposal [kg]	1,97E-07	1,99E-07	3,46E-11	-2,07E-09	1,82E-11	0,000	2,93E-10
Disposed of non-hazardous waste [kg]	1,77E-01	1,13E-01	1,66E-03	1,99E-02	9,85E-04	0,000	4,15E-02
Disposed of radioactive waste [kg]	4,30E-03	9,27E-04	2,68E-05	4,30E-03	1,65E-05	0,000	-9,69E-04

evaluated from CML 2001, August 2016

1.3.16 MRP-C 32/35

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408256	MRP-C 32/35	20	4,1404	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.]	7,861	8,383	1,266	1,353	0,726	0,000	-3,867
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,84E-11	1,84E-11	1,59E-13	2,88E-11	9,79E-14	0,000	-9,04E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,78E-02	1,50E-02	8,42E-03	2,81E-03	1,65E-03	0,000	-1,02E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,77E-03	1,94E-03	1,18E-03	3,27E-04	3,92E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,02E-04	2,77E-03	-5,02E-04	2,01E-04	-5,79E-04	0,000	-1,79E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,95E-06	4,60E-06	1,66E-08	2,86E-07	9,95E-09	0,000	4,02E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,06E+02	1,18E+02	1,72E+01	1,60E+01	1,01E+01	0,000	-5,51E+01
Energy (net calorific value) [MJ]	1,18E+02	1,20E+02	1,73E+01	2,85E+01	1,01E+01	0,000	-5,82E+01
Energy ren. (net calorific value) [MJ]	2,57E+01	1,44E+01	1,06E-01	1,67E+01	6,53E-02	0,000	-5,55E+00
Water consumption [kg]	3,27E+01	2,29E+01	1,25E-01	1,35E+01	7,59E-02	0,000	-3,94E+00
Air pollution [m ³]	4,54E+02	8,64E+02	8,74E+01	1,03E+02	3,46E+01	0,000	-6,35E+02
Water pollution [m ³]	1,47E+00	1,18E+00	1,00E-01	4,13E-01	5,93E-02	0,000	-2,83E-01
Hazardous waste for disposal [kg]	2,13E-07	2,15E-07	3,55E-11	-2,14E-09	1,87E-11	0,000	2,02E-10
Disposed of non-hazardous waste [kg]	1,94E-01	1,17E-01	1,70E-03	2,05E-02	1,01E-03	0,000	5,36E-02
Disposed of radioactive waste [kg]	4,42E-03	1,01E-03	2,75E-05	4,43E-03	1,69E-05	0,000	-1,08E-03

evaluated from CML 2001, August 2016

1.3.17 MRP-C 32/40

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408257	MRP-C 32/40	20	4,4942	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.]	8,486	9,109	1,374	1,471	0,788	0,000	-4,256
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,16E-11	1,98E-11	1,72E-13	3,13E-11	1,06E-13	0,000	-9,70E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,92E-02	1,64E-02	9,14E-03	3,06E-03	1,79E-03	0,000	-1,11E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,00E-03	2,10E-03	1,28E-03	3,56E-04	4,25E-04	0,000	-1,16E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,04E-04	3,01E-03	-5,45E-04	2,18E-04	-6,28E-04	0,000	-1,95E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,30E-06	4,92E-06	1,80E-08	3,11E-07	1,08E-08	0,000	4,32E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,14E+02	1,27E+02	1,87E+01	1,73E+01	1,10E+01	0,000	-5,99E+01
Energy (net calorific value) [MJ]	1,27E+02	1,30E+02	1,88E+01	3,09E+01	1,10E+01	0,000	-6,31E+01
Energy ren. (net calorific value) [MJ]	2,77E+01	1,54E+01	1,15E-01	1,81E+01	7,08E-02	0,000	-5,96E+00
Water consumption [kg]	3,52E+01	2,46E+01	1,35E-01	1,47E+01	8,24E-02	0,000	-4,36E+00
Air pollution [m ³]	4,92E+02	9,40E+02	9,49E+01	1,12E+02	3,76E+01	0,000	-6,93E+02
Water pollution [m ³]	1,58E+00	1,27E+00	1,09E-01	4,49E-01	6,44E-02	0,000	-3,08E-01
Hazardous waste for disposal [kg]	2,25E-07	2,27E-07	3,85E-11	-2,32E-09	2,03E-11	0,000	2,46E-10
Disposed of non-hazardous waste [kg]	2,06E-01	1,27E-01	1,85E-03	2,23E-02	1,10E-03	0,000	5,40E-02
Disposed of radioactive waste [kg]	4,81E-03	1,09E-03	2,98E-05	4,82E-03	1,84E-05	0,000	-1,15E-03

evaluated from CML 2001, August 2016

1.3.18 MRP-C 32/42

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408258	MRP-C 32/42	20	4,8556	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.]	8,867	8,946	1,484	1,481	0,852	0,000	-3,895
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,18E-11	2,11E-11	1,86E-13	3,15E-11	1,15E-13	0,000	-1,11E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,08E-02	1,71E-02	9,88E-03	3,08E-03	1,94E-03	0,000	-1,12E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,38E-03	2,34E-03	1,39E-03	3,58E-04	4,59E-04	0,000	-1,17E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	6,27E-05	3,07E-03	-5,88E-04	2,20E-04	-6,79E-04	0,000	-1,96E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,61E-06	5,23E-06	1,95E-08	3,13E-07	1,17E-08	0,000	3,71E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,20E+02	1,33E+02	2,02E+01	1,75E+01	1,18E+01	0,000	-6,23E+01
Energy (net calorific value) [MJ]	1,33E+02	1,36E+02	2,03E+01	3,11E+01	1,19E+01	0,000	-6,61E+01
Energy ren. (net calorific value) [MJ]	3,52E+01	2,35E+01	1,24E-01	1,82E+01	7,65E-02	0,000	-6,76E+00
Water consumption [kg]	4,06E+01	2,90E+01	1,46E-01	1,48E+01	8,90E-02	0,000	-3,51E+00
Air pollution [m ³]	5,19E+02	9,61E+02	1,02E+02	1,13E+02	4,06E+01	0,000	-6,99E+02
Water pollution [m ³]	1,86E+00	1,55E+00	1,17E-01	4,52E-01	6,96E-02	0,000	-3,28E-01
Hazardous waste for disposal [kg]	3,31E-07	3,33E-07	4,16E-11	-2,34E-09	2,19E-11	0,000	4,66E-11
Disposed of non-hazardous waste [kg]	2,36E-01	1,40E-01	2,00E-03	2,25E-02	1,19E-03	0,000	7,04E-02
Disposed of radioactive waste [kg]	4,78E-03	1,24E-03	3,22E-05	4,85E-03	1,98E-05	0,000	-1,36E-03

evaluated from CML 2001, August 2016

1.3.19 MRP-C 32/48

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408259	MRP-C 32/48	20	5,0682	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.]	9,406	9,433	1,549	1,557	0,889	0,000	-4,022
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,41E-11	2,24E-11	1,94E-13	3,31E-11	1,20E-13	0,000	-1,18E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,18E-02	1,79E-02	1,03E-02	3,24E-03	2,02E-03	0,000	-1,16E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,53E-03	2,44E-03	1,45E-03	3,76E-04	4,80E-04	0,000	-1,21E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	9,03E-05	3,22E-03	-6,14E-04	2,31E-04	-7,09E-04	0,000	-2,04E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,01E-06	5,61E-06	2,03E-08	3,29E-07	1,22E-08	0,000	3,70E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,28E+02	1,41E+02	2,11E+01	1,83E+01	1,24E+01	0,000	-6,52E+01
Energy (net calorific value) [MJ]	1,42E+02	1,45E+02	2,12E+01	3,27E+01	1,24E+01	0,000	-6,93E+01
Energy ren. (net calorific value) [MJ]	3,64E+01	2,42E+01	1,29E-01	1,92E+01	7,99E-02	0,000	-7,17E+00
Water consumption [kg]	4,27E+01	3,05E+01	1,53E-01	1,56E+01	9,29E-02	0,000	-3,64E+00
Air pollution [m ³]	5,45E+02	1,01E+03	1,07E+02	1,19E+02	4,24E+01	0,000	-7,28E+02
Water pollution [m ³]	1,95E+00	1,62E+00	1,22E-01	4,76E-01	7,26E-02	0,000	-3,45E-01
Hazardous waste for disposal [kg]	3,40E-07	3,42E-07	4,34E-11	-2,46E-09	2,29E-11	0,000	1,65E-11
Disposed of non-hazardous waste [kg]	2,47E-01	1,46E-01	2,08E-03	2,36E-02	1,24E-03	0,000	7,43E-02
Disposed of radioactive waste [kg]	5,01E-03	1,31E-03	3,37E-05	5,10E-03	2,07E-05	0,000	-1,45E-03

evaluated from CML 2001, August 2016

1.3.20 MRP-C 32/50

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408260	MRP-C 32/50	20	5,0868	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	9,488	1,555	1,564	0,892	0,000	-3,997
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,44E-11	2,27E-11	1,95E-13	3,33E-11	1,20E-13	0,000	-1,19E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,19E-02	1,79E-02	1,03E-02	3,25E-03	2,03E-03	0,000	-1,16E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,55E-03	2,45E-03	1,45E-03	3,78E-04	4,81E-04	0,000	-1,21E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,02E-04	3,24E-03	-6,16E-04	2,32E-04	-7,11E-04	0,000	-2,04E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,12E-06	5,72E-06	2,04E-08	3,31E-07	1,22E-08	0,000	3,68E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,29E+02	1,42E+02	2,12E+01	1,84E+01	1,24E+01	0,000	-6,55E+01
Energy (net calorific value) [MJ]	1,43E+02	1,46E+02	2,13E+01	3,29E+01	1,25E+01	0,000	-6,96E+01
Energy ren. (net calorific value) [MJ]	3,65E+01	2,43E+01	1,30E-01	1,93E+01	8,02E-02	0,000	-7,25E+00
Water consumption [kg]	4,31E+01	3,08E+01	1,53E-01	1,57E+01	9,33E-02	0,000	-3,61E+00
Air pollution [m ³]	5,48E+02	1,01E+03	1,07E+02	1,19E+02	4,26E+01	0,000	-7,29E+02
Water pollution [m ³]	1,97E+00	1,64E+00	1,23E-01	4,78E-01	7,29E-02	0,000	-3,47E-01
Hazardous waste for disposal [kg]	3,42E-07	3,45E-07	4,36E-11	-2,47E-09	2,30E-11	0,000	-3,04E-12
Disposed of non-hazardous waste [kg]	2,50E-01	1,46E-01	2,09E-03	2,38E-02	1,24E-03	0,000	7,62E-02
Disposed of radioactive waste [kg]	5,03E-03	1,32E-03	3,38E-05	5,13E-03	2,08E-05	0,000	-1,47E-03

evaluated from CML 2001, August 2016

1.3.21 MRP-C 32/54

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408262	MRP-C 32/54	20	5,1306	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.]	9,729	9,617	1,568	1,581	0,900	0,000	-3,938
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,52E-11	2,35E-11	1,96E-13	3,37E-11	1,21E-13	0,000	-1,22E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,22E-02	1,81E-02	1,04E-02	3,29E-03	2,05E-03	0,000	-1,16E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,60E-03	2,48E-03	1,47E-03	3,82E-04	4,85E-04	0,000	-1,21E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,28E-04	3,28E-03	-6,22E-04	2,35E-04	-7,17E-04	0,000	-2,04E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,38E-06	5,98E-06	2,06E-08	3,34E-07	1,23E-08	0,000	3,63E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,32E+02	1,46E+02	2,13E+01	1,86E+01	1,25E+01	0,000	-6,60E+01
Energy (net calorific value) [MJ]	1,47E+02	1,50E+02	2,14E+01	3,32E+01	1,26E+01	0,000	-7,03E+01
Energy ren. (net calorific value) [MJ]	3,69E+01	2,46E+01	1,31E-01	1,95E+01	8,09E-02	0,000	-7,43E+00
Water consumption [kg]	4,40E+01	3,15E+01	1,55E-01	1,58E+01	9,41E-02	0,000	-3,52E+00
Air pollution [m ³]	5,56E+02	1,01E+03	1,08E+02	1,21E+02	4,29E+01	0,000	-7,30E+02
Water pollution [m ³]	2,01E+00	1,68E+00	1,24E-01	4,83E-01	7,35E-02	0,000	-3,50E-01
Hazardous waste for disposal [kg]	3,48E-07	3,51E-07	4,39E-11	-2,50E-09	2,32E-11	0,000	-4,90E-11
Disposed of non-hazardous waste [kg]	2,56E-01	1,48E-01	2,11E-03	2,40E-02	1,25E-03	0,000	8,09E-02
Disposed of radioactive waste [kg]	5,07E-03	1,35E-03	3,41E-05	5,18E-03	2,10E-05	0,000	-1,52E-03

evaluated from CML 2001, August 2016

1.3.22 MRP-C 32/57

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408263	MRP-C 32/57	20	5,9154	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.]	10,773	11,237	1,808	1,848	1,037	0,000	-5,158
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,18E-11	2,51E-11	2,26E-13	3,93E-11	1,40E-13	0,000	-1,30E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,53E-02	2,11E-02	1,20E-02	3,84E-03	2,36E-03	0,000	-1,41E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,04E-03	2,82E-03	1,69E-03	4,47E-04	5,60E-04	0,000	-1,47E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	7,23E-05	3,81E-03	-7,17E-04	2,75E-04	-8,27E-04	0,000	-2,47E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,64E-06	6,16E-06	2,37E-08	3,91E-07	1,42E-08	0,000	4,63E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,45E+02	1,61E+02	2,46E+01	2,18E+01	1,44E+01	0,000	-7,70E+01
Energy (net calorific value) [MJ]	1,62E+02	1,65E+02	2,47E+01	3,89E+01	1,45E+01	0,000	-8,14E+01
Energy ren. (net calorific value) [MJ]	4,06E+01	2,56E+01	1,51E-01	2,28E+01	9,32E-02	0,000	-7,97E+00
Water consumption [kg]	4,78E+01	3,39E+01	1,78E-01	1,85E+01	1,08E-01	0,000	-4,93E+00
Air pollution [m ³]	6,34E+02	1,20E+03	1,25E+02	1,41E+02	4,95E+01	0,000	-8,79E+02
Water pollution [m ³]	2,16E+00	1,78E+00	1,43E-01	5,65E-01	8,48E-02	0,000	-4,05E-01
Hazardous waste for disposal [kg]	3,52E-07	3,55E-07	5,06E-11	-2,92E-09	2,67E-11	0,000	2,04E-10
Disposed of non-hazardous waste [kg]	2,69E-01	1,69E-01	2,43E-03	2,81E-02	1,44E-03	0,000	6,83E-02
Disposed of radioactive waste [kg]	6,01E-03	1,45E-03	3,93E-05	6,06E-03	2,42E-05	0,000	-1,57E-03

evaluated from CML 2001, August 2016

1.3.23 MRP-C 32/60

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408264	MRP-C 32/60	20	6,7712	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.]	11,871	13,224	2,070	1,877	1,188	0,000	-6,487
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,39E-11	2,75E-11	2,59E-13	4,00E-11	1,60E-13	0,000	-1,39E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,83E-02	2,46E-02	1,38E-02	3,90E-03	2,70E-03	0,000	-1,67E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,50E-03	3,23E-03	1,94E-03	4,54E-04	6,41E-04	0,000	-1,75E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,86E-05	4,38E-03	-8,20E-04	2,79E-04	-9,47E-04	0,000	-2,93E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,87E-06	6,37E-06	2,71E-08	3,97E-07	1,63E-08	0,000	5,71E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,59E+02	1,81E+02	2,82E+01	2,21E+01	1,65E+01	0,000	-8,89E+01
Energy (net calorific value) [MJ]	1,76E+02	1,85E+02	2,83E+01	3,95E+01	1,66E+01	0,000	-9,35E+01
Energy ren. (net calorific value) [MJ]	4,17E+01	2,69E+01	1,73E-01	2,31E+01	1,07E-01	0,000	-8,56E+00
Water consumption [kg]	4,82E+01	3,55E+01	2,04E-01	1,88E+01	1,24E-01	0,000	-6,46E+00
Air pollution [m ³]	6,93E+02	1,39E+03	1,43E+02	1,43E+02	5,67E+01	0,000	-1,04E+03
Water pollution [m ³]	2,27E+00	1,90E+00	1,64E-01	5,74E-01	9,70E-02	0,000	-4,64E-01
Hazardous waste for disposal [kg]	3,57E-07	3,60E-07	5,80E-11	-2,97E-09	3,06E-11	0,000	4,78E-10
Disposed of non-hazardous waste [kg]	2,81E-01	1,93E-01	2,78E-03	2,85E-02	1,65E-03	0,000	5,46E-02
Disposed of radioactive waste [kg]	6,20E-03	1,58E-03	4,50E-05	6,15E-03	2,77E-05	0,000	-1,61E-03

evaluated from CML 2001, August 2016

1.3.24 MRP-C 32/63

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408265	MRP-C 32/63	10	4,0031	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.]	6,643	7,067	1,224	1,046	0,702	0,000	-3,395
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,93E-11	1,53E-11	1,53E-13	2,23E-11	9,47E-14	0,000	-8,52E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,67E-02	1,41E-02	8,14E-03	2,17E-03	1,60E-03	0,000	-9,37E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,74E-03	1,95E-03	1,14E-03	2,53E-04	3,79E-04	0,000	-9,83E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-8,58E-05	2,44E-03	-4,85E-04	1,55E-04	-5,60E-04	0,000	-1,64E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,70E-06	3,43E-06	1,60E-08	2,21E-07	9,62E-09	0,000	2,54E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,92E+01	1,01E+02	1,67E+01	1,23E+01	9,77E+00	0,000	-5,09E+01
Energy (net calorific value) [MJ]	9,88E+01	1,04E+02	1,67E+01	2,20E+01	9,81E+00	0,000	-5,37E+01
Energy ren. (net calorific value) [MJ]	2,87E+01	2,09E+01	1,02E-01	1,29E+01	6,31E-02	0,000	-5,22E+00
Water consumption [kg]	3,00E+01	2,24E+01	1,21E-01	1,05E+01	7,34E-02	0,000	-3,04E+00
Air pollution [m ³]	3,98E+02	7,84E+02	8,45E+01	7,98E+01	3,35E+01	0,000	-5,84E+02
Water pollution [m ³]	1,43E+00	1,23E+00	9,67E-02	3,19E-01	5,74E-02	0,000	-2,72E-01
Hazardous waste for disposal [kg]	2,71E-07	2,73E-07	3,43E-11	-1,65E-09	1,81E-11	0,000	1,58E-10
Disposed of non-hazardous waste [kg]	1,69E-01	1,15E-01	1,64E-03	1,59E-02	9,77E-04	0,000	3,50E-02
Disposed of radioactive waste [kg]	3,40E-03	9,50E-04	2,66E-05	3,43E-03	1,64E-05	0,000	-1,02E-03

evaluated from CML 2001, August 2016

1.3.25 MRP-C 32/64

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408266	MRP-C 32/64	10	3,6327	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.]	6,385	7,350	1,110	1,047	0,637	0,000	-3,758
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,96E-11	1,44E-11	1,39E-13	2,23E-11	8,59E-14	0,000	-7,23E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,51E-02	1,34E-02	7,39E-03	2,18E-03	1,45E-03	0,000	-9,31E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,36E-03	1,70E-03	1,04E-03	2,53E-04	3,44E-04	0,000	-9,79E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,03E-05	2,40E-03	-4,40E-04	1,56E-04	-5,08E-04	0,000	-1,63E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,54E-06	3,26E-06	1,46E-08	2,21E-07	8,73E-09	0,000	3,19E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,49E+01	9,72E+01	1,51E+01	1,23E+01	8,86E+00	0,000	-4,86E+01
Energy (net calorific value) [MJ]	9,47E+01	9,95E+01	1,52E+01	2,20E+01	8,90E+00	0,000	-5,09E+01
Energy ren. (net calorific value) [MJ]	2,06E+01	1,20E+01	9,27E-02	1,29E+01	5,73E-02	0,000	-4,46E+00
Water consumption [kg]	2,47E+01	1,80E+01	1,09E-01	1,05E+01	6,66E-02	0,000	-3,94E+00
Air pollution [m ³]	3,74E+02	7,66E+02	7,67E+01	7,99E+01	3,04E+01	0,000	-5,79E+02
Water pollution [m ³]	1,14E+00	9,37E-01	8,77E-02	3,20E-01	5,21E-02	0,000	-2,53E-01
Hazardous waste for disposal [kg]	1,57E-07	1,58E-07	3,11E-11	-1,65E-09	1,64E-11	0,000	3,48E-10
Disposed of non-hazardous waste [kg]	1,41E-01	1,02E-01	1,49E-03	1,59E-02	8,87E-04	0,000	2,00E-02
Disposed of radioactive waste [kg]	3,47E-03	8,11E-04	2,41E-05	3,43E-03	1,48E-05	0,000	-8,16E-04

evaluated from CML 2001, August 2016

1.3.26 MRP-C 32/66

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408267	MRP-C 32/66	10	3,6576	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.]	6,473	7,417	1,118	1,053	0,641	0,000	-3,755
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,99E-11	1,46E-11	1,40E-13	2,24E-11	8,65E-14	0,000	-7,34E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,52E-02	1,35E-02	7,44E-03	2,19E-03	1,46E-03	0,000	-9,34E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,38E-03	1,71E-03	1,05E-03	2,55E-04	3,46E-04	0,000	-9,83E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,29E-05	2,42E-03	-4,43E-04	1,56E-04	-5,11E-04	0,000	-1,64E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,63E-06	3,35E-06	1,47E-08	2,23E-07	8,79E-09	0,000	3,19E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,62E+01	9,86E+01	1,52E+01	1,24E+01	8,92E+00	0,000	-4,90E+01
Energy (net calorific value) [MJ]	9,60E+01	1,01E+02	1,53E+01	2,21E+01	8,97E+00	0,000	-5,13E+01
Energy ren. (net calorific value) [MJ]	2,07E+01	1,21E+01	9,33E-02	1,30E+01	5,77E-02	0,000	-4,53E+00
Water consumption [kg]	2,50E+01	1,82E+01	1,10E-01	1,05E+01	6,71E-02	0,000	-3,93E+00
Air pollution [m ³]	3,78E+02	7,71E+02	7,72E+01	8,04E+01	3,06E+01	0,000	-5,81E+02
Water pollution [m ³]	1,16E+00	9,52E-01	8,83E-02	3,22E-01	5,24E-02	0,000	-2,55E-01
Hazardous waste for disposal [kg]	1,59E-07	1,60E-07	3,13E-11	-1,66E-09	1,65E-11	0,000	3,36E-10
Disposed of non-hazardous waste [kg]	1,43E-01	1,03E-01	1,50E-03	1,60E-02	8,93E-04	0,000	2,13E-02
Disposed of radioactive waste [kg]	3,48E-03	8,24E-04	2,43E-05	3,45E-03	1,49E-05	0,000	-8,32E-04

evaluated from CML 2001, August 2016

1.3.27 MRP-C 32/75

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408268	MRP-C 32/75	10	4,0398	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.]	7,376	8,257	1,235	1,145	0,709	0,000	-3,969
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,34E-11	1,72E-11	1,55E-13	2,44E-11	9,55E-14	0,000	-8,40E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,70E-02	1,49E-02	8,22E-03	2,38E-03	1,61E-03	0,000	-1,01E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,67E-03	1,91E-03	1,15E-03	2,77E-04	3,82E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	3,30E-05	2,69E-03	-4,89E-04	1,70E-04	-5,65E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,45E-06	4,15E-06	1,62E-08	2,42E-07	9,70E-09	0,000	3,37E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,88E+01	1,12E+02	1,68E+01	1,35E+01	9,86E+00	0,000	-5,38E+01
Energy (net calorific value) [MJ]	1,09E+02	1,15E+02	1,69E+01	2,41E+01	9,90E+00	0,000	-5,66E+01
Energy ren. (net calorific value) [MJ]	2,30E+01	1,39E+01	1,03E-01	1,41E+01	6,37E-02	0,000	-5,17E+00
Water consumption [kg]	2,85E+01	2,10E+01	1,22E-01	1,15E+01	7,41E-02	0,000	-4,11E+00
Air pollution [m ³]	4,21E+02	8,46E+02	8,53E+01	8,74E+01	3,38E+01	0,000	-6,32E+02
Water pollution [m ³]	1,32E+00	1,09E+00	9,75E-02	3,50E-01	5,79E-02	0,000	-2,81E-01
Hazardous waste for disposal [kg]	1,83E-07	1,84E-07	3,46E-11	-1,81E-09	1,82E-11	0,000	3,06E-10
Disposed of non-hazardous waste [kg]	1,64E-01	1,15E-01	1,66E-03	1,74E-02	9,86E-04	0,000	2,97E-02
Disposed of radioactive waste [kg]	3,78E-03	9,56E-04	2,68E-05	3,75E-03	1,65E-05	0,000	-9,72E-04

evaluated from CML 2001, August 2016

1.3.28 MRP-C 32/76

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408269	MRP-C 32/76	10	4,0351	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.]	7,393	8,250	1,233	1,147	0,708	0,000	-3,945
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,35E-11	1,73E-11	1,54E-13	2,44E-11	9,54E-14	0,000	-8,44E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,70E-02	1,49E-02	8,21E-03	2,38E-03	1,61E-03	0,000	-1,01E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,67E-03	1,91E-03	1,15E-03	2,77E-04	3,82E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	3,72E-05	2,69E-03	-4,89E-04	1,70E-04	-5,64E-04	0,000	-1,77E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,47E-06	4,17E-06	1,62E-08	2,43E-07	9,69E-09	0,000	3,35E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,90E+01	1,13E+02	1,68E+01	1,35E+01	9,84E+00	0,000	-5,38E+01
Energy (net calorific value) [MJ]	1,10E+02	1,15E+02	1,69E+01	2,41E+01	9,89E+00	0,000	-5,65E+01
Energy ren. (net calorific value) [MJ]	2,30E+01	1,39E+01	1,03E-01	1,41E+01	6,36E-02	0,000	-5,19E+00
Water consumption [kg]	2,86E+01	2,10E+01	1,22E-01	1,15E+01	7,40E-02	0,000	-4,08E+00
Air pollution [m ³]	4,22E+02	8,45E+02	8,52E+01	8,75E+01	3,38E+01	0,000	-6,30E+02
Water pollution [m ³]	1,32E+00	1,10E+00	9,74E-02	3,50E-01	5,78E-02	0,000	-2,81E-01
Hazardous waste for disposal [kg]	1,83E-07	1,85E-07	3,45E-11	-1,81E-09	1,82E-11	0,000	2,95E-10
Disposed of non-hazardous waste [kg]	1,65E-01	1,15E-01	1,66E-03	1,74E-02	9,85E-04	0,000	3,06E-02
Disposed of radioactive waste [kg]	3,78E-03	9,59E-04	2,68E-05	3,76E-03	1,65E-05	0,000	-9,79E-04

evaluated from CML 2001, August 2016

1.3.29 MRP-C 32/88

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408270	MRP-C 32/88	10	4,6345	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.]	8,232	8,467	1,417	1,202	0,813	0,000	-3,666
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,53E-11	1,99E-11	1,77E-13	2,56E-11	1,10E-13	0,000	-1,05E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	1,96E-02	1,64E-02	9,43E-03	2,50E-03	1,85E-03	0,000	-1,06E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,24E-03	2,28E-03	1,32E-03	2,91E-04	4,39E-04	0,000	-1,10E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,49E-06	2,89E-03	-5,62E-04	1,79E-04	-6,48E-04	0,000	-1,85E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,14E-06	4,83E-06	1,86E-08	2,54E-07	1,11E-08	0,000	2,74E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,12E+02	1,26E+02	1,93E+01	1,42E+01	1,13E+01	0,000	-5,89E+01
Energy (net calorific value) [MJ]	1,23E+02	1,29E+02	1,94E+01	2,53E+01	1,14E+01	0,000	-6,25E+01
Energy ren. (net calorific value) [MJ]	3,26E+01	2,40E+01	1,18E-01	1,48E+01	7,30E-02	0,000	-6,39E+00
Water consumption [kg]	3,62E+01	2,72E+01	1,40E-01	1,20E+01	8,50E-02	0,000	-3,23E+00
Air pollution [m ³]	4,72E+02	9,06E+02	9,78E+01	9,17E+01	3,88E+01	0,000	-6,63E+02
Water pollution [m ³]	1,72E+00	1,49E+00	1,12E-01	3,67E-01	6,64E-02	0,000	-3,17E-01
Hazardous waste for disposal [kg]	3,15E-07	3,16E-07	3,97E-11	-1,90E-09	2,09E-11	0,000	6,06E-11
Disposed of non-hazardous waste [kg]	2,08E-01	1,35E-01	1,90E-03	1,83E-02	1,13E-03	0,000	5,21E-02
Disposed of radioactive waste [kg]	3,89E-03	1,18E-03	3,08E-05	3,94E-03	1,89E-05	0,000	-1,28E-03

evaluated from CML 2001, August 2016

1.3.30 MRP-C 32/90

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408271	MRP-C 32/90	10	4,8516	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.]	8,511	8,914	1,483	1,274	0,851	0,000	-4,011
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,70E-11	2,03E-11	1,86E-13	2,71E-11	1,15E-13	0,000	-1,07E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,05E-02	1,73E-02	9,87E-03	2,65E-03	1,93E-03	0,000	-1,13E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,36E-03	2,38E-03	1,39E-03	3,08E-04	4,59E-04	0,000	-1,17E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,48E-05	3,04E-03	-5,88E-04	1,89E-04	-6,78E-04	0,000	-1,97E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,20E-06	4,87E-06	1,95E-08	2,70E-07	1,17E-08	0,000	3,03E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,15E+02	1,30E+02	2,02E+01	1,50E+01	1,18E+01	0,000	-6,20E+01
Energy (net calorific value) [MJ]	1,27E+02	1,33E+02	2,03E+01	2,68E+01	1,19E+01	0,000	-6,56E+01
Energy ren. (net calorific value) [MJ]	3,36E+01	2,42E+01	1,24E-01	1,57E+01	7,65E-02	0,000	-6,53E+00
Water consumption [kg]	3,72E+01	2,78E+01	1,46E-01	1,28E+01	8,89E-02	0,000	-3,63E+00
Air pollution [m ³]	4,93E+02	9,57E+02	1,02E+02	9,73E+01	4,06E+01	0,000	-7,04E+02
Water pollution [m ³]	1,76E+00	1,51E+00	1,17E-01	3,89E-01	6,95E-02	0,000	-3,32E-01
Hazardous waste for disposal [kg]	3,15E-07	3,17E-07	4,15E-11	-2,02E-09	2,19E-11	0,000	1,34E-10
Disposed of non-hazardous waste [kg]	2,11E-01	1,40E-01	1,99E-03	1,94E-02	1,18E-03	0,000	4,83E-02
Disposed of radioactive waste [kg]	4,15E-03	1,21E-03	3,22E-05	4,18E-03	1,98E-05	0,000	-1,29E-03

evaluated from CML 2001, August 2016

1.3.31 MRP-C 32/104

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408272	MRP-C 32/104	10	5,0476	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.]	9,102	9,530	1,543	1,341	0,885	0,000	-4,198
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,95E-11	2,19E-11	1,93E-13	2,86E-11	1,19E-13	0,000	-1,12E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,14E-02	1,81E-02	1,03E-02	2,79E-03	2,01E-03	0,000	-1,18E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,49E-03	2,47E-03	1,44E-03	3,24E-04	4,78E-04	0,000	-1,22E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,71E-05	3,21E-03	-6,12E-04	1,99E-04	-7,06E-04	0,000	-2,06E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,71E-06	5,36E-06	2,02E-08	2,84E-07	1,21E-08	0,000	3,21E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,23E+02	1,39E+02	2,10E+01	1,58E+01	1,23E+01	0,000	-6,49E+01
Energy (net calorific value) [MJ]	1,35E+02	1,43E+02	2,11E+01	2,82E+01	1,24E+01	0,000	-6,88E+01
Energy ren. (net calorific value) [MJ]	3,38E+01	2,40E+01	1,29E-01	1,65E+01	7,96E-02	0,000	-6,87E+00
Water consumption [kg]	3,88E+01	2,90E+01	1,52E-01	1,34E+01	9,25E-02	0,000	-3,87E+00
Air pollution [m ³]	5,19E+02	1,00E+03	1,07E+02	1,02E+02	4,22E+01	0,000	-7,36E+02
Water pollution [m ³]	1,82E+00	1,57E+00	1,22E-01	4,10E-01	7,23E-02	0,000	-3,47E-01
Hazardous waste for disposal [kg]	3,13E-07	3,15E-07	4,32E-11	-2,12E-09	2,28E-11	0,000	1,28E-10
Disposed of non-hazardous waste [kg]	2,22E-01	1,46E-01	2,07E-03	2,04E-02	1,23E-03	0,000	5,21E-02
Disposed of radioactive waste [kg]	4,36E-03	1,28E-03	3,35E-05	4,40E-03	2,06E-05	0,000	-1,36E-03

evaluated from CML 2001, August 2016

1.3.32 MRP-C 32/108

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408273	MRP-C 32/108	10	6,7678	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.]	11,105	13,050	2,069	1,917	1,187	0,000	-7,117
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,35E-11	2,47E-11	2,59E-13	4,08E-11	1,60E-13	0,000	-1,24E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,80E-02	2,48E-02	1,38E-02	3,99E-03	2,70E-03	0,000	-1,73E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,42E-03	3,20E-03	1,93E-03	4,64E-04	6,40E-04	0,000	-1,82E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,37E-04	4,37E-03	-8,20E-04	2,85E-04	-9,46E-04	0,000	-3,03E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,99E-06	5,48E-06	2,71E-08	4,05E-07	1,63E-08	0,000	5,91E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,47E+02	1,68E+02	2,82E+01	2,26E+01	1,65E+01	0,000	-8,88E+01
Energy (net calorific value) [MJ]	1,65E+02	1,72E+02	2,83E+01	4,03E+01	1,66E+01	0,000	-9,26E+01
Energy ren. (net calorific value) [MJ]	4,20E+01	2,57E+01	1,73E-01	2,36E+01	1,07E-01	0,000	-7,68E+00
Water consumption [kg]	4,59E+01	3,36E+01	2,04E-01	1,92E+01	1,24E-01	0,000	-7,21E+00
Air pollution [m ³]	6,83E+02	1,41E+03	1,43E+02	1,46E+02	5,66E+01	0,000	-1,08E+03
Water pollution [m ³]	2,12E+00	1,73E+00	1,63E-01	5,86E-01	9,70E-02	0,000	-4,62E-01
Hazardous waste for disposal [kg]	3,15E-07	3,17E-07	5,79E-11	-3,03E-09	3,05E-11	0,000	8,06E-10
Disposed of non-hazardous waste [kg]	2,42E-01	1,91E-01	2,78E-03	2,91E-02	1,65E-03	0,000	1,78E-02
Disposed of radioactive waste [kg]	6,46E-03	1,45E-03	4,49E-05	6,28E-03	2,77E-05	0,000	-1,35E-03

evaluated from CML 2001, August 2016

1.3.33 MRP-C 32/110

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408274	MRP-C 32/110	10	6,9818	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.]	11,783	13,608	2,134	1,961	1,224	0,000	-7,144
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,59E-11	2,69E-11	2,67E-13	4,18E-11	1,65E-13	0,000	-1,32E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,90E-02	2,56E-02	1,42E-02	4,08E-03	2,78E-03	0,000	-1,76E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,60E-03	3,32E-03	2,00E-03	4,74E-04	6,61E-04	0,000	-1,84E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-7,59E-05	4,55E-03	-8,46E-04	2,91E-04	-9,76E-04	0,000	-3,09E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,76E-06	6,24E-06	2,80E-08	4,15E-07	1,68E-08	0,000	5,95E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,56E+02	1,79E+02	2,91E+01	2,31E+01	1,70E+01	0,000	-9,15E+01
Energy (net calorific value) [MJ]	1,75E+02	1,83E+02	2,92E+01	4,13E+01	1,71E+01	0,000	-9,56E+01
Energy ren. (net calorific value) [MJ]	4,30E+01	2,67E+01	1,78E-01	2,42E+01	1,10E-01	0,000	-8,15E+00
Water consumption [kg]	4,84E+01	3,56E+01	2,10E-01	1,96E+01	1,28E-01	0,000	-7,21E+00
Air pollution [m ³]	7,11E+02	1,45E+03	1,47E+02	1,50E+02	5,84E+01	0,000	-1,10E+03
Water pollution [m ³]	2,22E+00	1,83E+00	1,69E-01	5,99E-01	1,00E-01	0,000	-4,77E-01
Hazardous waste for disposal [kg]	3,29E-07	3,32E-07	5,98E-11	-3,10E-09	3,15E-11	0,000	7,54E-10
Disposed of non-hazardous waste [kg]	2,59E-01	1,98E-01	2,87E-03	2,98E-02	1,70E-03	0,000	2,64E-02
Disposed of radioactive waste [kg]	6,60E-03	1,55E-03	4,64E-05	6,43E-03	2,85E-05	0,000	-1,46E-03

evaluated from CML 2001, August 2016

1.3.34 MRP-C 32/114

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408275	MRP-C 32/114	10	7,0335	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.]	11,960	13,746	2,150	1,973	1,234	0,000	-7,142
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,65E-11	2,74E-11	2,69E-13	4,20E-11	1,66E-13	0,000	-1,34E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,93E-02	2,58E-02	1,43E-02	4,10E-03	2,80E-03	0,000	-1,77E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,65E-03	3,35E-03	2,01E-03	4,77E-04	6,66E-04	0,000	-1,85E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,08E-05	4,59E-03	-8,52E-04	2,93E-04	-9,84E-04	0,000	-3,11E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,94E-06	6,42E-06	2,82E-08	4,17E-07	1,69E-08	0,000	5,95E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,59E+02	1,81E+02	2,93E+01	2,33E+01	1,72E+01	0,000	-9,22E+01
Energy (net calorific value) [MJ]	1,78E+02	1,86E+02	2,94E+01	4,15E+01	1,72E+01	0,000	-9,63E+01
Energy ren. (net calorific value) [MJ]	4,33E+01	2,70E+01	1,79E-01	2,43E+01	1,11E-01	0,000	-8,28E+00
Water consumption [kg]	4,90E+01	3,61E+01	2,12E-01	1,98E+01	1,29E-01	0,000	-7,20E+00
Air pollution [m ³]	7,18E+02	1,46E+03	1,48E+02	1,51E+02	5,88E+01	0,000	-1,10E+03
Water pollution [m ³]	2,25E+00	1,86E+00	1,70E-01	6,03E-01	1,01E-01	0,000	-4,80E-01
Hazardous waste for disposal [kg]	3,33E-07	3,36E-07	6,02E-11	-3,12E-09	3,17E-11	0,000	7,33E-10
Disposed of non-hazardous waste [kg]	2,63E-01	1,99E-01	2,89E-03	3,00E-02	1,72E-03	0,000	2,89E-02
Disposed of radioactive waste [kg]	6,64E-03	1,58E-03	4,67E-05	6,47E-03	2,87E-05	0,000	-1,49E-03

evaluated from CML 2001, August 2016

1.3.35 MRP-C 32/125

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408276	MRP-C 32/125	10	7,3846	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.]	12,651	14,526	2,257	2,092	1,295	0,000	-7,519
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,99E-11	2,90E-11	2,83E-13	4,45E-11	1,75E-13	0,000	-1,41E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,08E-02	2,71E-02	1,50E-02	4,35E-03	2,94E-03	0,000	-1,86E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,88E-03	3,51E-03	2,11E-03	5,06E-04	6,99E-04	0,000	-1,95E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,84E-05	4,84E-03	-8,95E-04	3,11E-04	-1,03E-03	0,000	-3,27E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	7,36E-06	6,81E-06	2,96E-08	4,43E-07	1,77E-08	0,000	6,20E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,68E+02	1,92E+02	3,07E+01	2,47E+01	1,80E+01	0,000	-9,70E+01
Energy (net calorific value) [MJ]	1,88E+02	1,96E+02	3,09E+01	4,40E+01	1,81E+01	0,000	-1,01E+02
Energy ren. (net calorific value) [MJ]	4,51E+01	2,77E+01	1,88E-01	2,58E+01	1,16E-01	0,000	-8,73E+00
Water consumption [kg]	5,16E+01	3,79E+01	2,22E-01	2,10E+01	1,35E-01	0,000	-7,61E+00
Air pollution [m ³]	7,57E+02	1,54E+03	1,56E+02	1,60E+02	6,18E+01	0,000	-1,16E+03
Water pollution [m ³]	2,37E+00	1,95E+00	1,78E-01	6,39E-01	1,06E-01	0,000	-5,06E-01
Hazardous waste for disposal [kg]	3,41E-07	3,44E-07	6,32E-11	-3,31E-09	3,33E-11	0,000	7,64E-10
Disposed of non-hazardous waste [kg]	2,76E-01	2,09E-01	3,03E-03	3,18E-02	1,80E-03	0,000	2,96E-02
Disposed of radioactive waste [kg]	7,03E-03	1,66E-03	4,90E-05	6,86E-03	3,02E-05	0,000	-1,57E-03

evaluated from CML 2001, August 2016

1.3.36 MRP-C 32/128

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408277	MRP-C 32/128	10	7,4317	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.]	12,814	14,652	2,271	2,103	1,303	0,000	-7,515
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	6,04E-11	2,95E-11	2,85E-13	4,48E-11	1,76E-13	0,000	-1,43E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,10E-02	2,73E-02	1,51E-02	4,37E-03	2,96E-03	0,000	-1,87E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,92E-03	3,53E-03	2,12E-03	5,09E-04	7,03E-04	0,000	-1,95E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,44E-05	4,87E-03	-9,00E-04	3,13E-04	-1,04E-03	0,000	-3,28E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	7,53E-06	6,98E-06	2,98E-08	4,45E-07	1,79E-08	0,000	6,19E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,71E+02	1,94E+02	3,09E+01	2,48E+01	1,81E+01	0,000	-9,76E+01
Energy (net calorific value) [MJ]	1,90E+02	1,99E+02	3,11E+01	4,42E+01	1,82E+01	0,000	-1,02E+02
Energy ren. (net calorific value) [MJ]	4,53E+01	2,80E+01	1,90E-01	2,59E+01	1,17E-01	0,000	-8,85E+00
Water consumption [kg]	5,22E+01	3,84E+01	2,24E-01	2,11E+01	1,36E-01	0,000	-7,60E+00
Air pollution [m ³]	7,63E+02	1,55E+03	1,57E+02	1,61E+02	6,22E+01	0,000	-1,17E+03
Water pollution [m ³]	2,39E+00	1,97E+00	1,79E-01	6,43E-01	1,07E-01	0,000	-5,10E-01
Hazardous waste for disposal [kg]	3,45E-07	3,48E-07	6,36E-11	-3,33E-09	3,35E-11	0,000	7,44E-10
Disposed of non-hazardous waste [kg]	2,80E-01	2,11E-01	3,05E-03	3,20E-02	1,81E-03	0,000	3,19E-02
Disposed of radioactive waste [kg]	7,06E-03	1,69E-03	4,94E-05	6,90E-03	3,04E-05	0,000	-1,60E-03

evaluated from CML 2001, August 2016

1.3.37 MRP-C 32/133

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408278	MRP-C 32/133	10	7,4779	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.]	12,977	14,776	2,286	2,114	1,311	0,000	-7,510
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	6,10E-11	3,00E-11	2,86E-13	4,50E-11	1,77E-13	0,000	-1,45E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,13E-02	2,74E-02	1,52E-02	4,40E-03	2,98E-03	0,000	-1,87E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,96E-03	3,56E-03	2,14E-03	5,11E-04	7,08E-04	0,000	-1,96E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,02E-05	4,91E-03	-9,06E-04	3,14E-04	-1,05E-03	0,000	-3,29E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	7,70E-06	7,14E-06	3,00E-08	4,47E-07	1,80E-08	0,000	6,18E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,73E+02	1,97E+02	3,11E+01	2,49E+01	1,82E+01	0,000	-9,82E+01
Energy (net calorific value) [MJ]	1,93E+02	2,02E+02	3,13E+01	4,45E+01	1,83E+01	0,000	-1,03E+02
Energy ren. (net calorific value) [MJ]	4,56E+01	2,82E+01	1,91E-01	2,61E+01	1,18E-01	0,000	-8,97E+00
Water consumption [kg]	5,28E+01	3,88E+01	2,25E-01	2,12E+01	1,37E-01	0,000	-7,59E+00
Air pollution [m ³]	7,69E+02	1,56E+03	1,58E+02	1,61E+02	6,26E+01	0,000	-1,17E+03
Water pollution [m ³]	2,42E+00	2,00E+00	1,81E-01	6,46E-01	1,07E-01	0,000	-5,13E-01
Hazardous waste for disposal [kg]	3,49E-07	3,51E-07	6,40E-11	-3,34E-09	3,38E-11	0,000	7,24E-10
Disposed of non-hazardous waste [kg]	2,84E-01	2,12E-01	3,07E-03	3,21E-02	1,83E-03	0,000	3,43E-02
Disposed of radioactive waste [kg]	7,09E-03	1,71E-03	4,97E-05	6,93E-03	3,06E-05	0,000	-1,63E-03

evaluated from CML 2001, August 2016

1.3.38 MRP-C 32/140

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408279	MRP-C 32/140	6	4,9368	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.]	8,302	9,038	1,509	1,320	0,866	0,000	-4,430
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,79E-11	1,94E-11	1,89E-13	2,81E-11	1,17E-13	0,000	-1,00E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,07E-02	1,77E-02	1,00E-02	2,75E-03	1,97E-03	0,000	-1,18E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,38E-03	2,41E-03	1,41E-03	3,19E-04	4,67E-04	0,000	-1,23E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,75E-05	3,10E-03	-5,98E-04	1,96E-04	-6,90E-04	0,000	-2,06E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,94E-06	4,59E-06	1,98E-08	2,79E-07	1,19E-08	0,000	3,38E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,11E+02	1,26E+02	2,05E+01	1,56E+01	1,20E+01	0,000	-6,30E+01
Energy (net calorific value) [MJ]	1,24E+02	1,29E+02	2,06E+01	2,78E+01	1,21E+01	0,000	-6,63E+01
Energy ren. (net calorific value) [MJ]	3,43E+01	2,39E+01	1,26E-01	1,63E+01	7,78E-02	0,000	-6,15E+00
Water consumption [kg]	3,68E+01	2,74E+01	1,49E-01	1,32E+01	9,05E-02	0,000	-4,10E+00
Air pollution [m ³]	4,98E+02	9,87E+02	1,04E+02	1,01E+02	4,13E+01	0,000	-7,35E+02
Water pollution [m ³]	1,71E+00	1,46E+00	1,19E-01	4,04E-01	7,08E-02	0,000	-3,35E-01
Hazardous waste for disposal [kg]	2,99E-07	3,01E-07	4,23E-11	-2,09E-09	2,23E-11	0,000	3,16E-10
Disposed of non-hazardous waste [kg]	1,97E-01	1,42E-01	2,03E-03	2,01E-02	1,21E-03	0,000	3,19E-02
Disposed of radioactive waste [kg]	4,39E-03	1,17E-03	3,28E-05	4,33E-03	2,02E-05	0,000	-1,17E-03

evaluated from CML 2001, August 2016

1.3.39 MRP-C 32/154

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408280	MRP-C 32/154	6	5,3151	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.]	8,969	9,867	1,625	1,438	0,932	0,000	-4,892
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,12E-11	2,09E-11	2,03E-13	3,06E-11	1,26E-13	0,000	-1,07E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,22E-02	1,91E-02	1,08E-02	2,99E-03	2,12E-03	0,000	-1,28E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,61E-03	2,58E-03	1,52E-03	3,48E-04	5,03E-04	0,000	-1,33E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,61E-05	3,36E-03	-6,44E-04	2,14E-04	-7,43E-04	0,000	-2,25E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,31E-06	4,94E-06	2,13E-08	3,04E-07	1,28E-08	0,000	3,75E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,20E+02	1,36E+02	2,21E+01	1,69E+01	1,30E+01	0,000	-6,82E+01
Energy (net calorific value) [MJ]	1,33E+02	1,40E+02	2,22E+01	3,02E+01	1,30E+01	0,000	-7,16E+01
Energy ren. (net calorific value) [MJ]	3,61E+01	2,47E+01	1,36E-01	1,77E+01	8,38E-02	0,000	-6,55E+00
Water consumption [kg]	3,92E+01	2,91E+01	1,60E-01	1,44E+01	9,74E-02	0,000	-4,62E+00
Air pollution [m ³]	5,38E+02	1,07E+03	1,12E+02	1,10E+02	4,45E+01	0,000	-8,00E+02
Water pollution [m ³]	1,82E+00	1,54E+00	1,28E-01	4,39E-01	7,62E-02	0,000	-3,62E-01
Hazardous waste for disposal [kg]	3,06E-07	3,08E-07	4,55E-11	-2,28E-09	2,40E-11	0,000	3,81E-10
Disposed of non-hazardous waste [kg]	2,09E-01	1,53E-01	2,18E-03	2,18E-02	1,30E-03	0,000	3,09E-02
Disposed of radioactive waste [kg]	4,79E-03	1,25E-03	3,53E-05	4,72E-03	2,17E-05	0,000	-1,23E-03

evaluated from CML 2001, August 2016

1.3.40 MRP-C 32/160

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408281	MRP-C 32/160	6	9,7801	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.]	14,237	18,938	2,989	2,941	1,715	0,000	-12,346
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	7,70E-11	2,80E-11	3,74E-13	6,26E-11	2,31E-13	0,000	-1,42E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,93E-02	3,65E-02	1,99E-02	6,12E-03	3,90E-03	0,000	-2,71E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	6,01E-03	4,45E-03	2,80E-03	7,11E-04	9,25E-04	0,000	-2,87E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,91E-04	6,37E-03	-1,18E-03	4,38E-04	-1,37E-03	0,000	-4,75E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,82E-06	5,04E-06	3,92E-08	6,22E-07	2,35E-08	0,000	9,91E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,82E+02	2,13E+02	4,07E+01	3,47E+01	2,39E+01	0,000	-1,31E+02
Energy (net calorific value) [MJ]	2,10E+02	2,18E+02	4,09E+01	6,19E+01	2,40E+01	0,000	-1,34E+02
Energy ren. (net calorific value) [MJ]	5,68E+01	2,92E+01	2,49E-01	3,62E+01	1,54E-01	0,000	-8,98E+00
Water consumption [kg]	5,77E+01	4,09E+01	2,95E-01	2,95E+01	1,79E-01	0,000	-1,32E+01
Air pollution [m ³]	9,61E+02	2,13E+03	2,06E+02	2,25E+02	8,18E+01	0,000	-1,68E+03
Water pollution [m ³]	2,56E+00	1,95E+00	2,36E-01	8,99E-01	1,40E-01	0,000	-6,68E-01
Hazardous waste for disposal [kg]	3,06E-07	3,09E-07	8,37E-11	-4,65E-09	4,41E-11	0,000	2,06E-09
Disposed of non-hazardous waste [kg]	2,58E-01	2,68E-01	4,02E-03	4,47E-02	2,39E-03	0,000	-6,15E-02
Disposed of radioactive waste [kg]	1,02E-02	1,69E-03	6,50E-05	9,64E-03	4,00E-05	0,000	-1,27E-03

evaluated from CML 2001, August 2016

1.3.41 MRP-C 32/168

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408282	MRP-C 32/168	6	10,0242	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.]	14,656	19,470	3,064	3,017	1,758	0,000	-12,653
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	7,91E-11	2,89E-11	3,84E-13	6,42E-11	2,37E-13	0,000	-1,46E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	4,03E-02	3,74E-02	2,04E-02	6,28E-03	4,00E-03	0,000	-2,78E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	6,16E-03	4,56E-03	2,87E-03	7,30E-04	9,48E-04	0,000	-2,94E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,93E-04	6,54E-03	-1,21E-03	4,49E-04	-1,40E-03	0,000	-4,86E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,05E-06	5,25E-06	4,02E-08	6,38E-07	2,41E-08	0,000	1,02E-07
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,87E+02	2,20E+02	4,17E+01	3,56E+01	2,45E+01	0,000	-1,34E+02
Energy (net calorific value) [MJ]	2,17E+02	2,24E+02	4,19E+01	6,35E+01	2,46E+01	0,000	-1,38E+02
Energy ren. (net calorific value) [MJ]	5,80E+01	2,96E+01	2,56E-01	3,72E+01	1,58E-01	0,000	-9,23E+00
Water consumption [kg]	5,91E+01	4,20E+01	3,02E-01	3,02E+01	1,84E-01	0,000	-1,36E+01
Air pollution [m ³]	9,87E+02	2,18E+03	2,12E+02	2,31E+02	8,39E+01	0,000	-1,72E+03
Water pollution [m ³]	2,63E+00	2,00E+00	2,42E-01	9,22E-01	1,44E-01	0,000	-6,85E-01
Hazardous waste for disposal [kg]	3,11E-07	3,13E-07	8,58E-11	-4,77E-09	4,52E-11	0,000	2,11E-09
Disposed of non-hazardous waste [kg]	2,65E-01	2,75E-01	4,12E-03	4,58E-02	2,45E-03	0,000	-6,25E-02
Disposed of radioactive waste [kg]	1,04E-02	1,74E-03	6,66E-05	9,89E-03	4,10E-05	0,000	-1,31E-03

evaluated from CML 2001, August 2016

1.3.42 MRP-C 32/180

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408283	MRP-C 32/180	4	7,2359	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.]	10,469	13,678	2,212	2,136	1,269	0,000	-8,826
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,59E-11	2,08E-11	2,77E-13	4,55E-11	1,71E-13	0,000	-1,08E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,91E-02	2,68E-02	1,47E-02	4,44E-03	2,88E-03	0,000	-1,97E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,51E-03	3,32E-03	2,07E-03	5,17E-04	6,85E-04	0,000	-2,09E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,74E-04	4,64E-03	-8,77E-04	3,18E-04	-1,01E-03	0,000	-3,45E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,33E-06	3,77E-06	2,90E-08	4,52E-07	1,74E-08	0,000	6,93E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,34E+02	1,57E+02	3,01E+01	2,52E+01	1,77E+01	0,000	-9,58E+01
Energy (net calorific value) [MJ]	1,55E+02	1,60E+02	3,02E+01	4,50E+01	1,77E+01	0,000	-9,86E+01
Energy ren. (net calorific value) [MJ]	4,41E+01	2,43E+01	1,85E-01	2,63E+01	1,14E-01	0,000	-6,81E+00
Water consumption [kg]	4,38E+01	3,14E+01	2,18E-01	2,14E+01	1,33E-01	0,000	-9,29E+00
Air pollution [m ³]	7,07E+02	1,55E+03	1,53E+02	1,63E+02	6,05E+01	0,000	-1,22E+03
Water pollution [m ³]	1,96E+00	1,53E+00	1,75E-01	6,53E-01	1,04E-01	0,000	-4,93E-01
Hazardous waste for disposal [kg]	2,62E-07	2,64E-07	6,20E-11	-3,38E-09	3,27E-11	0,000	1,42E-09
Disposed of non-hazardous waste [kg]	1,97E-01	1,99E-01	2,97E-03	3,24E-02	1,77E-03	0,000	-3,92E-02
Disposed of radioactive waste [kg]	7,36E-03	1,28E-03	4,81E-05	7,00E-03	2,96E-05	0,000	-1,00E-03

evaluated from CML 2001, August 2016

1.3.43 MRP-C 32/200

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408284	MRP-C 32/200	4	8,2180	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.]	12,818	16,013	2,512	2,396	1,441	0,000	-9,545
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	6,57E-11	2,74E-11	3,15E-13	5,10E-11	1,94E-13	0,000	-1,33E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,36E-02	3,05E-02	1,67E-02	4,98E-03	3,28E-03	0,000	-2,19E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	5,23E-03	3,82E-03	2,35E-03	5,80E-04	7,78E-04	0,000	-2,30E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,41E-04	5,39E-03	-9,96E-04	3,56E-04	-1,15E-03	0,000	-3,84E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,50E-06	5,87E-06	3,29E-08	5,07E-07	1,97E-08	0,000	7,47E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,66E+02	1,92E+02	3,42E+01	2,83E+01	2,01E+01	0,000	-1,09E+02
Energy (net calorific value) [MJ]	1,90E+02	1,97E+02	3,43E+01	5,04E+01	2,01E+01	0,000	-1,12E+02
Energy ren. (net calorific value) [MJ]	4,89E+01	2,74E+01	2,10E-01	2,95E+01	1,30E-01	0,000	-8,33E+00
Water consumption [kg]	5,24E+01	3,80E+01	2,48E-01	2,40E+01	1,51E-01	0,000	-1,00E+01
Air pollution [m ³]	8,22E+02	1,76E+03	1,73E+02	1,83E+02	6,88E+01	0,000	-1,36E+03
Water pollution [m ³]	2,33E+00	1,84E+00	1,98E-01	7,32E-01	1,18E-01	0,000	-5,62E-01
Hazardous waste for disposal [kg]	3,00E-07	3,02E-07	7,04E-11	-3,79E-09	3,71E-11	0,000	1,42E-09
Disposed of non-hazardous waste [kg]	2,45E-01	2,28E-01	3,38E-03	3,64E-02	2,01E-03	0,000	-2,48E-02
Disposed of radioactive waste [kg]	8,23E-03	1,61E-03	5,46E-05	7,86E-03	3,36E-05	0,000	-1,32E-03

evaluated from CML 2001, August 2016

1.3.44 MRP-C 32/204

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408285	MRP-C 32/204	4	8,2451	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.]	12,910	16,085	2,520	2,402	1,446	0,000	-9,544
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	6,60E-11	2,77E-11	3,16E-13	5,11E-11	1,95E-13	0,000	-1,34E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,37E-02	3,06E-02	1,68E-02	5,00E-03	3,29E-03	0,000	-2,19E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	5,26E-03	3,84E-03	2,36E-03	5,81E-04	7,80E-04	0,000	-2,30E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,33E-04	5,41E-03	-9,99E-04	3,57E-04	-1,15E-03	0,000	-3,85E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,60E-06	5,97E-06	3,31E-08	5,08E-07	1,98E-08	0,000	7,47E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,68E+02	1,94E+02	3,43E+01	2,84E+01	2,01E+01	0,000	-1,09E+02
Energy (net calorific value) [MJ]	1,91E+02	1,98E+02	3,45E+01	5,06E+01	2,02E+01	0,000	-1,13E+02
Energy ren. (net calorific value) [MJ]	4,91E+01	2,75E+01	2,10E-01	2,96E+01	1,30E-01	0,000	-8,40E+00
Water consumption [kg]	5,27E+01	3,82E+01	2,48E-01	2,41E+01	1,51E-01	0,000	-1,00E+01
Air pollution [m ³]	8,26E+02	1,76E+03	1,74E+02	1,84E+02	6,90E+01	0,000	-1,36E+03
Water pollution [m ³]	2,34E+00	1,85E+00	1,99E-01	7,34E-01	1,18E-01	0,000	-5,64E-01
Hazardous waste for disposal [kg]	3,02E-07	3,04E-07	7,06E-11	-3,80E-09	3,72E-11	0,000	1,41E-09
Disposed of non-hazardous waste [kg]	2,47E-01	2,29E-01	3,39E-03	3,65E-02	2,01E-03	0,000	-2,36E-02
Disposed of radioactive waste [kg]	8,25E-03	1,62E-03	5,48E-05	7,88E-03	3,37E-05	0,000	-1,34E-03

evaluated from CML 2001, August 2016

1.3.45 MRP-C 32/219

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408261	MRP-C 32/219	4	8,4257	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.]	13,348	16,515	2,575	2,452	1,478	0,000	-9,672
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	6,78E-11	2,89E-11	3,23E-13	5,22E-11	1,99E-13	0,000	-1,39E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,45E-02	3,13E-02	1,71E-02	5,10E-03	3,36E-03	0,000	-2,23E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	5,39E-03	3,93E-03	2,41E-03	5,93E-04	7,97E-04	0,000	-2,34E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,10E-04	5,54E-03	-1,02E-03	3,65E-04	-1,18E-03	0,000	-3,92E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,98E-06	6,33E-06	3,38E-08	5,19E-07	2,02E-08	0,000	7,55E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,74E+02	2,01E+02	3,51E+01	2,89E+01	2,06E+01	0,000	-1,11E+02
Energy (net calorific value) [MJ]	1,98E+02	2,05E+02	3,52E+01	5,16E+01	2,07E+01	0,000	-1,15E+02
Energy ren. (net calorific value) [MJ]	5,00E+01	2,81E+01	2,15E-01	3,02E+01	1,33E-01	0,000	-8,69E+00
Water consumption [kg]	5,43E+01	3,94E+01	2,54E-01	2,46E+01	1,54E-01	0,000	-1,02E+01
Air pollution [m ³]	8,47E+02	1,80E+03	1,78E+02	1,87E+02	7,05E+01	0,000	-1,39E+03
Water pollution [m ³]	2,41E+00	1,91E+00	2,03E-01	7,50E-01	1,21E-01	0,000	-5,77E-01
Hazardous waste for disposal [kg]	3,09E-07	3,11E-07	7,21E-11	-3,88E-09	3,80E-11	0,000	1,40E-09
Disposed of non-hazardous waste [kg]	2,56E-01	2,34E-01	3,46E-03	3,73E-02	2,06E-03	0,000	-2,07E-02
Disposed of radioactive waste [kg]	8,41E-03	1,68E-03	5,60E-05	8,04E-03	3,44E-05	0,000	-1,40E-03

evaluated from CML 2001, August 2016