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Environmental report

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1 Life Cycle Assessment „HILTI_MRP-C 25_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
2408200	MRP-C 25/10	20	1,8620	Steel, Polymer, Cardboard
2408201	MRP-C 25/12	20	1,8760	Steel, Polymer, Cardboard
2408202	MRP-C 25/14	20	1,8878	Steel, Polymer, Cardboard
2408203	MRP-C 25/15	20	1,8994	Steel, Polymer, Cardboard
2408204	MRP-C 25/16	20	2,0016	Steel, Polymer, Cardboard
2408205	MRP-C 25/17	20	2,0126	Steel, Polymer, Cardboard
2408206	MRP-C 25/18	20	2,0204	Steel, Polymer, Cardboard
2408207	MRP-C 25/20	20	2,0344	Steel, Polymer, Cardboard
2408208	MRP-C 25/21	20	2,0444	Steel, Polymer, Cardboard
2408209	MRP-C 25/22	20	2,0498	Steel, Polymer, Cardboard
2408210	MRP-C 25/25	20	3,3752	Steel, Polymer, Cardboard
2408211	MRP-C 25/26	20	3,3900	Steel, Polymer, Cardboard
2408212	MRP-C 25/28	20	3,3986	Steel, Polymer, Cardboard
2408213	MRP-C 25/32	20	3,4546	Steel, Polymer, Cardboard
2408214	MRP-C 25/33	20	3,6558	Steel, Polymer, Cardboard
2408215	MRP-C 25/35	20	3,7320	Steel, Polymer, Cardboard
2408216	MRP-C 25/40	20	3,7512	Steel, Polymer, Cardboard
2408217	MRP-C 25/42	20	3,9684	Steel, Polymer, Cardboard
2408218	MRP-C 25/48	20	4,0606	Steel, Polymer, Cardboard
2408219	MRP-C 25/50	20	4,0756	Steel, Polymer, Cardboard

IT- Number	Product name	Pcs. per salespack	Weight [kg]	Material
2408220	MRP-C 25/54	20	4,3950	Steel, Polymer, Cardboard
2408221	MRP-C 25/57	20	4,4216	Steel, Polymer, Cardboard
2408222	MRP-C 25/60	20	5,3134	Steel, Polymer, Cardboard
2408223	MRP-C 25/63	20	5,3656	Steel, Polymer, Cardboard
2408224	MRP-C 25/64	20	5,3738	Steel, Polymer, Cardboard
2408225	MRP-C 25/66	20	5,4180	Steel, Polymer, Cardboard
2408226	MRP-C 25/75	10	3,4034	Steel, Polymer, Cardboard
2408227	MRP-C 25/76	10	3,6754	Steel, Polymer, Cardboard
2408228	MRP-C 25/88	10	4,2753	Steel, Polymer, Cardboard
2408229	MRP-C 25/90	10	4,2855	Steel, Polymer, Cardboard
2408230	MRP-C 25/108	10	4,7287	Steel, Polymer, Cardboard
2408231	MRP-C 25/110	10	4,9087	Steel, Polymer, Cardboard
2408232	MRP-C 25/114	10	5,0477	Steel, Polymer, Cardboard
2408233	MRP-C 25/125	10	6,7942	Steel, Polymer, Cardboard
2408234	MRP-C 25/133	10	7,0196	Steel, Polymer, Cardboard
2408235	MRP-C 25/140	6	4,6139	Steel, Polymer, Cardboard
2408236	MRP-C 25/160	6	9,3128	Steel, Polymer, Cardboard
2408237	MRP-C 25/168	6	9,6122	Steel, Polymer, Cardboard
2408238	MRP-C 25/180	4	6,7473	Steel, Polymer, Cardboard
2408239	MRP-C 25/200	4	7,5780	Steel, Polymer, Cardboard
2408240	MRP-C 25/219	4	8,0958	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 25 (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 25/10

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408200	MRP-C 25/10	20	1,8620	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.]	3,291	3,398	0,569	0,566	0,327	0,000	-1,569
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,57E-11	7,69E-12	7,13E-14	1,20E-11	4,40E-14	0,000	-4,08E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,90E-03	6,55E-03	3,79E-03	1,17E-03	7,42E-04	0,000	-4,35E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,26E-03	8,80E-04	5,32E-04	1,37E-04	1,76E-04	0,000	-4,63E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,08E-06	1,16E-03	-2,26E-04	8,40E-05	-2,60E-04	0,000	-7,67E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,01E-06	1,86E-06	7,46E-09	1,19E-07	4,47E-09	0,000	2,59E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,40E+01	4,90E+01	7,75E+00	6,68E+00	4,54E+00	0,000	-2,39E+01
Energy (net calorific value) [MJ]	4,92E+01	5,03E+01	7,78E+00	1,19E+01	4,56E+00	0,000	-2,53E+01
Energy ren. (net calorific value) [MJ]	1,31E+01	8,61E+00	4,75E-02	6,96E+00	2,93E-02	0,000	-2,50E+00
Water consumption [kg]	1,47E+01	1,04E+01	5,61E-02	5,65E+00	3,41E-02	0,000	-1,45E+00
Air pollution [m ³]	1,97E+02	3,70E+02	3,93E+01	4,31E+01	1,56E+01	0,000	-2,71E+02
Water pollution [m ³]	7,08E-01	5,80E-01	4,50E-02	1,73E-01	2,67E-02	0,000	-1,16E-01
Hazardous waste for disposal [kg]	1,50E-07	1,51E-07	1,59E-11	-8,88E-10	8,40E-12	0,000	5,12E-11
Disposed of non-hazardous waste [kg]	1,08E-01	5,26E-02	7,65E-04	8,58E-03	4,55E-04	0,000	4,57E-02
Disposed of radioactive waste [kg]	1,84E-03	4,62E-04	1,24E-05	1,85E-03	7,61E-06	0,000	-4,97E-04

evaluated from CML 2001, August 2016

1.3.2 MRP-C 25/12

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408201	MRP-C 25/12	20	1,8760	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.]	3,362	3,438	0,573	0,571	0,329	0,000	-1,549
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,60E-11	7,92E-12	7,18E-14	1,21E-11	4,44E-14	0,000	-4,17E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	7,99E-03	6,59E-03	3,82E-03	1,18E-03	7,48E-04	0,000	-4,35E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,28E-03	8,88E-04	5,36E-04	1,38E-04	1,78E-04	0,000	-4,63E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	3,47E-06	1,18E-03	-2,27E-04	8,47E-05	-2,62E-04	0,000	-7,67E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,11E-06	1,95E-06	7,52E-09	1,20E-07	4,51E-09	0,000	2,65E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,51E+01	5,00E+01	7,81E+00	6,74E+00	4,58E+00	0,000	-2,41E+01
Energy (net calorific value) [MJ]	5,03E+01	5,14E+01	7,84E+00	1,20E+01	4,60E+00	0,000	-2,55E+01
Energy ren. (net calorific value) [MJ]	1,33E+01	8,72E+00	4,79E-02	7,02E+00	2,96E-02	0,000	-2,55E+00
Water consumption [kg]	1,50E+01	1,06E+01	5,65E-02	5,71E+00	3,44E-02	0,000	-1,42E+00
Air pollution [m ³]	2,00E+02	3,72E+02	3,96E+01	4,35E+01	1,57E+01	0,000	-2,72E+02
Water pollution [m ³]	7,23E-01	5,93E-01	4,53E-02	1,74E-01	2,69E-02	0,000	-1,17E-01
Hazardous waste for disposal [kg]	1,54E-07	1,55E-07	1,61E-11	-8,96E-10	8,47E-12	0,000	3,81E-11
Disposed of non-hazardous waste [kg]	1,12E-01	5,31E-02	7,71E-04	8,66E-03	4,58E-04	0,000	4,87E-02
Disposed of radioactive waste [kg]	1,85E-03	4,74E-04	1,25E-05	1,87E-03	7,66E-06	0,000	-5,11E-04

evaluated from CML 2001, August 2016

1.3.3 MRP-C 25/14

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408202	MRP-C 25/14	20	1,8878	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.]	3,421	3,470	0,577	0,576	0,331	0,000	-1,533
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,62E-11	8,13E-12	7,23E-14	1,22E-11	4,46E-14	0,000	-4,24E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,06E-03	6,63E-03	3,84E-03	1,19E-03	7,53E-04	0,000	-4,35E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,29E-03	8,95E-04	5,40E-04	1,39E-04	1,79E-04	0,000	-4,63E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,07E-05	1,19E-03	-2,29E-04	8,54E-05	-2,64E-04	0,000	-7,68E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,19E-06	2,03E-06	7,57E-09	1,21E-07	4,53E-09	0,000	2,71E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,59E+01	5,09E+01	7,86E+00	6,79E+00	4,61E+00	0,000	-2,42E+01
Energy (net calorific value) [MJ]	5,12E+01	5,23E+01	7,89E+00	1,21E+01	4,63E+00	0,000	-2,57E+01
Energy ren. (net calorific value) [MJ]	1,34E+01	8,80E+00	4,82E-02	7,08E+00	2,98E-02	0,000	-2,60E+00
Water consumption [kg]	1,52E+01	1,08E+01	5,69E-02	5,75E+00	3,46E-02	0,000	-1,40E+00
Air pollution [m ³]	2,02E+02	3,74E+02	3,98E+01	4,39E+01	1,58E+01	0,000	-2,72E+02
Water pollution [m ³]	7,35E-01	6,04E-01	4,56E-02	1,75E-01	2,71E-02	0,000	-1,17E-01
Hazardous waste for disposal [kg]	1,57E-07	1,58E-07	1,62E-11	-9,03E-10	8,52E-12	0,000	2,70E-11
Disposed of non-hazardous waste [kg]	1,15E-01	5,35E-02	7,76E-04	8,73E-03	4,61E-04	0,000	5,13E-02
Disposed of radioactive waste [kg]	1,86E-03	4,84E-04	1,25E-05	1,88E-03	7,71E-06	0,000	-5,23E-04

evaluated from CML 2001, August 2016

1.3.4 MRP-C 25/15

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408203	MRP-C 25/15	20	1,8994	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.]	3,479	3,503	0,581	0,580	0,333	0,000	-1,517
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,64E-11	8,32E-12	7,27E-14	1,23E-11	4,49E-14	0,000	-4,31E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,14E-03	6,67E-03	3,86E-03	1,20E-03	7,57E-04	0,000	-4,35E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,30E-03	9,02E-04	5,43E-04	1,40E-04	1,80E-04	0,000	-4,62E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,77E-05	1,20E-03	-2,30E-04	8,60E-05	-2,66E-04	0,000	-7,68E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,26E-06	2,10E-06	7,61E-09	1,22E-07	4,56E-09	0,000	2,77E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,68E+01	5,18E+01	7,90E+00	6,84E+00	4,63E+00	0,000	-2,44E+01
Energy (net calorific value) [MJ]	5,21E+01	5,31E+01	7,94E+00	1,22E+01	4,66E+00	0,000	-2,59E+01
Energy ren. (net calorific value) [MJ]	1,35E+01	8,89E+00	4,85E-02	7,13E+00	2,99E-02	0,000	-2,64E+00
Water consumption [kg]	1,55E+01	1,10E+01	5,72E-02	5,79E+00	3,48E-02	0,000	-1,37E+00
Air pollution [m ³]	2,04E+02	3,76E+02	4,01E+01	4,42E+01	1,59E+01	0,000	-2,72E+02
Water pollution [m ³]	7,47E-01	6,15E-01	4,59E-02	1,77E-01	2,72E-02	0,000	-1,17E-01
Hazardous waste for disposal [kg]	1,60E-07	1,61E-07	1,63E-11	-9,10E-10	8,57E-12	0,000	1,61E-11
Disposed of non-hazardous waste [kg]	1,18E-01	5,39E-02	7,80E-04	8,79E-03	4,64E-04	0,000	5,37E-02
Disposed of radioactive waste [kg]	1,88E-03	4,94E-04	1,26E-05	1,90E-03	7,76E-06	0,000	-5,35E-04

evaluated from CML 2001, August 2016

1.3.5 MRP-C 25/16

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408204	MRP-C 25/16	20	2,0016	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.]	3,622	3,715	0,612	0,615	0,351	0,000	-1,670
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,73E-11	8,57E-12	7,66E-14	1,31E-11	4,73E-14	0,000	-4,43E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,54E-03	7,06E-03	4,07E-03	1,28E-03	7,98E-04	0,000	-4,66E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,36E-03	9,46E-04	5,72E-04	1,48E-04	1,89E-04	0,000	-4,95E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,19E-05	1,27E-03	-2,43E-04	9,12E-05	-2,80E-04	0,000	-8,23E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,31E-06	2,14E-06	8,02E-09	1,30E-07	4,81E-09	0,000	2,93E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,85E+01	5,38E+01	8,33E+00	7,25E+00	4,88E+00	0,000	-2,58E+01
Energy (net calorific value) [MJ]	5,42E+01	5,53E+01	8,37E+00	1,29E+01	4,91E+00	0,000	-2,73E+01
Energy ren. (net calorific value) [MJ]	1,40E+01	9,03E+00	5,11E-02	7,56E+00	3,15E-02	0,000	-2,72E+00
Water consumption [kg]	1,60E+01	1,13E+01	6,03E-02	6,14E+00	3,67E-02	0,000	-1,55E+00
Air pollution [m ³]	2,14E+02	4,00E+02	4,22E+01	4,68E+01	1,67E+01	0,000	-2,91E+02
Water pollution [m ³]	7,69E-01	6,29E-01	4,83E-02	1,87E-01	2,87E-02	0,000	-1,24E-01
Hazardous waste for disposal [kg]	1,62E-07	1,63E-07	1,71E-11	-9,64E-10	9,03E-12	0,000	4,70E-11
Disposed of non-hazardous waste [kg]	1,20E-01	5,66E-02	8,22E-04	9,32E-03	4,89E-04	0,000	5,30E-02
Disposed of radioactive waste [kg]	2,00E-03	5,08E-04	1,33E-05	2,01E-03	8,18E-06	0,000	-5,42E-04

evaluated from CML 2001, August 2016

1.3.6 MRP-C 25/17

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408205	MRP-C 25/17	20	2,0126	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.]	3,677	3,745	0,615	0,619	0,353	0,000	-1,655
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,75E-11	8,76E-12	7,71E-14	1,31E-11	4,76E-14	0,000	-4,50E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,61E-03	7,09E-03	4,09E-03	1,28E-03	8,02E-04	0,000	-4,66E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,37E-03	9,53E-04	5,75E-04	1,49E-04	1,90E-04	0,000	-4,95E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	1,86E-05	1,28E-03	-2,44E-04	9,18E-05	-2,81E-04	0,000	-8,23E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,39E-06	2,21E-06	8,07E-09	1,31E-07	4,83E-09	0,000	2,98E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,93E+01	5,46E+01	8,37E+00	7,30E+00	4,91E+00	0,000	-2,59E+01
Energy (net calorific value) [MJ]	5,50E+01	5,61E+01	8,41E+00	1,30E+01	4,93E+00	0,000	-2,75E+01
Energy ren. (net calorific value) [MJ]	1,40E+01	9,11E+00	5,13E-02	7,61E+00	3,17E-02	0,000	-2,76E+00
Water consumption [kg]	1,62E+01	1,15E+01	6,06E-02	6,18E+00	3,69E-02	0,000	-1,52E+00
Air pollution [m ³]	2,16E+02	4,01E+02	4,25E+01	4,72E+01	1,68E+01	0,000	-2,91E+02
Water pollution [m ³]	7,81E-01	6,39E-01	4,86E-02	1,89E-01	2,88E-02	0,000	-1,24E-01
Hazardous waste for disposal [kg]	1,65E-07	1,66E-07	1,72E-11	-9,71E-10	9,08E-12	0,000	3,67E-11
Disposed of non-hazardous waste [kg]	1,23E-01	5,70E-02	8,27E-04	9,38E-03	4,91E-04	0,000	5,54E-02
Disposed of radioactive waste [kg]	2,01E-03	5,17E-04	1,34E-05	2,02E-03	8,22E-06	0,000	-5,53E-04

evaluated from CML 2001, August 2016

1.3.7 MRP-C 25/18

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408206	MRP-C 25/18	20	2,0204	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.]	3,716	3,767	0,618	0,622	0,354	0,000	-1,644
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,77E-11	8,89E-12	7,74E-14	1,32E-11	4,78E-14	0,000	-4,55E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,66E-03	7,12E-03	4,11E-03	1,29E-03	8,05E-04	0,000	-4,66E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,38E-03	9,58E-04	5,78E-04	1,50E-04	1,91E-04	0,000	-4,95E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,33E-05	1,28E-03	-2,45E-04	9,22E-05	-2,83E-04	0,000	-8,23E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,44E-06	2,26E-06	8,10E-09	1,31E-07	4,85E-09	0,000	3,02E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	4,99E+01	5,52E+01	8,41E+00	7,34E+00	4,93E+00	0,000	-2,60E+01
Energy (net calorific value) [MJ]	5,56E+01	5,67E+01	8,44E+00	1,31E+01	4,95E+00	0,000	-2,76E+01
Energy ren. (net calorific value) [MJ]	1,41E+01	9,17E+00	5,15E-02	7,64E+00	3,18E-02	0,000	-2,79E+00
Water consumption [kg]	1,64E+01	1,16E+01	6,09E-02	6,21E+00	3,70E-02	0,000	-1,51E+00
Air pollution [m ³]	2,18E+02	4,02E+02	4,26E+01	4,74E+01	1,69E+01	0,000	-2,91E+02
Water pollution [m ³]	7,89E-01	6,46E-01	4,88E-02	1,90E-01	2,90E-02	0,000	-1,24E-01
Hazardous waste for disposal [kg]	1,67E-07	1,68E-07	1,73E-11	-9,75E-10	9,12E-12	0,000	2,94E-11
Disposed of non-hazardous waste [kg]	1,25E-01	5,73E-02	8,30E-04	9,43E-03	4,93E-04	0,000	5,71E-02
Disposed of radioactive waste [kg]	2,02E-03	5,24E-04	1,34E-05	2,03E-03	8,25E-06	0,000	-5,61E-04

evaluated from CML 2001, August 2016

1.3.8 MRP-C 25/20

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408207	MRP-C 25/20	20	2,0344	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.]	3,787	3,806	0,622	0,627	0,357	0,000	-1,625
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,79E-11	9,13E-12	7,79E-14	1,33E-11	4,81E-14	0,000	-4,64E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,75E-03	7,16E-03	4,14E-03	1,30E-03	8,11E-04	0,000	-4,66E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,40E-03	9,66E-04	5,82E-04	1,51E-04	1,92E-04	0,000	-4,94E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	3,19E-05	1,29E-03	-2,46E-04	9,30E-05	-2,84E-04	0,000	-8,24E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,53E-06	2,35E-06	8,16E-09	1,32E-07	4,89E-09	0,000	3,09E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	5,09E+01	5,63E+01	8,47E+00	7,40E+00	4,96E+00	0,000	-2,61E+01
Energy (net calorific value) [MJ]	5,67E+01	5,78E+01	8,50E+00	1,32E+01	4,99E+00	0,000	-2,78E+01
Energy ren. (net calorific value) [MJ]	1,42E+01	9,27E+00	5,19E-02	7,71E+00	3,21E-02	0,000	-2,84E+00
Water consumption [kg]	1,67E+01	1,18E+01	6,13E-02	6,26E+00	3,73E-02	0,000	-1,48E+00
Air pollution [m ³]	2,21E+02	4,04E+02	4,29E+01	4,78E+01	1,70E+01	0,000	-2,92E+02
Water pollution [m ³]	8,04E-01	6,59E-01	4,91E-02	1,91E-01	2,92E-02	0,000	-1,25E-01
Hazardous waste for disposal [kg]	1,71E-07	1,72E-07	1,74E-11	-9,83E-10	9,18E-12	0,000	1,62E-11
Disposed of non-hazardous waste [kg]	1,29E-01	5,77E-02	8,36E-04	9,50E-03	4,97E-04	0,000	6,00E-02
Disposed of radioactive waste [kg]	2,03E-03	5,35E-04	1,35E-05	2,05E-03	8,31E-06	0,000	-5,76E-04

evaluated from CML 2001, August 2016

1.3.9 MRP-C 25/21

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408208	MRP-C 25/21	20	2,0444	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.]	3,837	3,834	0,625	0,631	0,359	0,000	-1,611
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,81E-11	9,30E-12	7,83E-14	1,34E-11	4,83E-14	0,000	-4,70E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,82E-03	7,19E-03	4,16E-03	1,31E-03	8,15E-04	0,000	-4,66E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	1,41E-03	9,72E-04	5,84E-04	1,52E-04	1,93E-04	0,000	-4,94E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	3,80E-05	1,30E-03	-2,48E-04	9,35E-05	-2,86E-04	0,000	-8,24E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,60E-06	2,42E-06	8,20E-09	1,33E-07	4,91E-09	0,000	3,13E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	5,17E+01	5,70E+01	8,51E+00	7,44E+00	4,99E+00	0,000	-2,62E+01
Energy (net calorific value) [MJ]	5,74E+01	5,85E+01	8,55E+00	1,33E+01	5,01E+00	0,000	-2,79E+01
Energy ren. (net calorific value) [MJ]	1,43E+01	9,34E+00	5,22E-02	7,75E+00	3,22E-02	0,000	-2,88E+00
Water consumption [kg]	1,69E+01	1,20E+01	6,16E-02	6,30E+00	3,75E-02	0,000	-1,46E+00
Air pollution [m ³]	2,23E+02	4,06E+02	4,32E+01	4,80E+01	1,71E+01	0,000	-2,92E+02
Water pollution [m ³]	8,14E-01	6,68E-01	4,94E-02	1,92E-01	2,93E-02	0,000	-1,25E-01
Hazardous waste for disposal [kg]	1,74E-07	1,75E-07	1,75E-11	-9,89E-10	9,23E-12	0,000	6,83E-12
Disposed of non-hazardous waste [kg]	1,31E-01	5,81E-02	8,40E-04	9,56E-03	4,99E-04	0,000	6,21E-02
Disposed of radioactive waste [kg]	2,04E-03	5,44E-04	1,36E-05	2,06E-03	8,35E-06	0,000	-5,86E-04

evaluated from CML 2001, August 2016

1.3.10 MRP-C 25/22

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408209	MRP-C 25/22	20	2,0498	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.]	3,864	3,849	0,627	0,633	0,359	0,000	-1,604
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	1,82E-11	9,40E-12	7,85E-14	1,34E-11	4,85E-14	0,000	-4,73E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	8,85E-03	7,21E-03	4,17E-03	1,31E-03	8,17E-04	0,000	-4,66E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	1,41E-03	9,75E-04	5,86E-04	1,53E-04	1,94E-04	0,000	-4,94E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	4,13E-05	1,31E-03	-2,48E-04	9,38E-05	-2,87E-04	0,000	-8,24E-04
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,63E-06	2,45E-06	8,22E-09	1,33E-07	4,92E-09	0,000	3,16E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	5,21E+01	5,74E+01	8,53E+00	7,46E+00	5,00E+00	0,000	-2,63E+01
Energy (net calorific value) [MJ]	5,79E+01	5,89E+01	8,57E+00	1,33E+01	5,02E+00	0,000	-2,80E+01
Energy ren. (net calorific value) [MJ]	1,43E+01	9,38E+00	5,23E-02	7,78E+00	3,23E-02	0,000	-2,90E+00
Water consumption [kg]	1,70E+01	1,20E+01	6,17E-02	6,32E+00	3,76E-02	0,000	-1,45E+00
Air pollution [m ³]	2,24E+02	4,07E+02	4,33E+01	4,82E+01	1,72E+01	0,000	-2,92E+02
Water pollution [m ³]	8,20E-01	6,73E-01	4,95E-02	1,93E-01	2,94E-02	0,000	-1,25E-01
Hazardous waste for disposal [kg]	1,75E-07	1,76E-07	1,76E-11	-9,92E-10	9,25E-12	0,000	1,75E-12
Disposed of non-hazardous waste [kg]	1,32E-01	5,83E-02	8,42E-04	9,59E-03	5,00E-04	0,000	6,32E-02
Disposed of radioactive waste [kg]	2,05E-03	5,48E-04	1,36E-05	2,07E-03	8,37E-06	0,000	-5,91E-04

evaluated from CML 2001, August 2016

1.3.11 MRP-C 25/25

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408210	MRP-C 25/25	20	3,3752	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.]	5,526	6,548	1,032	1,082	0,592	0,000	-3,727
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,90E-11	1,18E-11	1,29E-13	2,30E-11	7,98E-14	0,000	-6,00E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,40E-02	1,23E-02	6,87E-03	2,25E-03	1,35E-03	0,000	-8,83E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,14E-03	1,53E-03	9,65E-04	2,61E-04	3,19E-04	0,000	-9,42E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-7,26E-05	2,20E-03	-4,09E-04	1,61E-04	-4,72E-04	0,000	-1,55E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,89E-06	2,59E-06	1,35E-08	2,28E-07	8,11E-09	0,000	4,93E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,19E+01	8,18E+01	1,40E+01	1,28E+01	8,23E+00	0,000	-4,49E+01
Energy (net calorific value) [MJ]	8,22E+01	8,37E+01	1,41E+01	2,28E+01	8,27E+00	0,000	-4,67E+01
Energy ren. (net calorific value) [MJ]	2,05E+01	1,08E+01	8,61E-02	1,33E+01	5,32E-02	0,000	-3,74E+00
Water consumption [kg]	2,29E+01	1,58E+01	1,02E-01	1,08E+01	6,19E-02	0,000	-3,91E+00
Air pollution [m ³]	3,51E+02	7,17E+02	7,12E+01	8,26E+01	2,82E+01	0,000	-5,48E+02
Water pollution [m ³]	1,06E+00	8,15E-01	8,15E-02	3,30E-01	4,84E-02	0,000	-2,16E-01
Hazardous waste for disposal [kg]	1,81E-07	1,82E-07	2,89E-11	-1,70E-09	1,52E-11	0,000	4,58E-10
Disposed of non-hazardous waste [kg]	1,52E-01	9,25E-02	1,39E-03	1,64E-02	8,24E-04	0,000	4,07E-02
Disposed of radioactive waste [kg]	3,63E-03	6,96E-04	2,24E-05	3,54E-03	1,38E-05	0,000	-6,43E-04

evaluated from CML 2001, August 2016

1.3.12 MRP-C 25/26

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408211	MRP-C 25/26	20	3,3900	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.]	5,601	6,590	1,036	1,087	0,595	0,000	-3,707
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,92E-11	1,20E-11	1,30E-13	2,31E-11	8,02E-14	0,000	-6,10E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,40E-02	1,24E-02	6,90E-03	2,26E-03	1,35E-03	0,000	-8,83E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,15E-03	1,54E-03	9,69E-04	2,63E-04	3,21E-04	0,000	-9,42E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,35E-05	2,21E-03	-4,11E-04	1,62E-04	-4,74E-04	0,000	-1,55E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	2,99E-06	2,69E-06	1,36E-08	2,30E-07	8,14E-09	0,000	5,00E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,30E+01	8,29E+01	1,41E+01	1,28E+01	8,27E+00	0,000	-4,51E+01
Energy (net calorific value) [MJ]	8,33E+01	8,48E+01	1,42E+01	2,29E+01	8,31E+00	0,000	-4,69E+01
Energy ren. (net calorific value) [MJ]	2,07E+01	1,09E+01	8,65E-02	1,34E+01	5,34E-02	0,000	-3,80E+00
Water consumption [kg]	2,32E+01	1,60E+01	1,02E-01	1,09E+01	6,21E-02	0,000	-3,88E+00
Air pollution [m ³]	3,54E+02	7,19E+02	7,16E+01	8,30E+01	2,84E+01	0,000	-5,48E+02
Water pollution [m ³]	1,07E+00	8,29E-01	8,19E-02	3,32E-01	4,86E-02	0,000	-2,17E-01
Hazardous waste for disposal [kg]	1,85E-07	1,87E-07	2,90E-11	-1,71E-09	1,53E-11	0,000	4,44E-10
Disposed of non-hazardous waste [kg]	1,56E-01	9,30E-02	1,39E-03	1,65E-02	8,28E-04	0,000	4,39E-02
Disposed of radioactive waste [kg]	3,64E-03	7,08E-04	2,25E-05	3,56E-03	1,39E-05	0,000	-6,58E-04

evaluated from CML 2001, August 2016

1.3.13 MRP-C 25/28

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408212	MRP-C 25/28	20	3,3986	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.]	5,644	6,614	1,039	1,091	0,596	0,000	-3,695
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,94E-11	1,22E-11	1,30E-13	2,32E-11	8,04E-14	0,000	-6,15E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,41E-02	1,24E-02	6,91E-03	2,26E-03	1,35E-03	0,000	-8,83E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,16E-03	1,55E-03	9,71E-04	2,64E-04	3,22E-04	0,000	-9,42E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,83E-05	2,22E-03	-4,12E-04	1,62E-04	-4,75E-04	0,000	-1,55E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,05E-06	2,75E-06	1,36E-08	2,30E-07	8,16E-09	0,000	5,04E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,37E+01	8,35E+01	1,41E+01	1,29E+01	8,29E+00	0,000	-4,51E+01
Energy (net calorific value) [MJ]	8,39E+01	8,55E+01	1,42E+01	2,29E+01	8,33E+00	0,000	-4,70E+01
Energy ren. (net calorific value) [MJ]	2,07E+01	1,10E+01	8,67E-02	1,34E+01	5,36E-02	0,000	-3,83E+00
Water consumption [kg]	2,34E+01	1,62E+01	1,02E-01	1,09E+01	6,23E-02	0,000	-3,86E+00
Air pollution [m ³]	3,56E+02	7,21E+02	7,17E+01	8,32E+01	2,84E+01	0,000	-5,48E+02
Water pollution [m ³]	1,08E+00	8,37E-01	8,21E-02	3,33E-01	4,87E-02	0,000	-2,17E-01
Hazardous waste for disposal [kg]	1,88E-07	1,89E-07	2,91E-11	-1,72E-09	1,53E-11	0,000	4,36E-10
Disposed of non-hazardous waste [kg]	1,58E-01	9,33E-02	1,40E-03	1,65E-02	8,30E-04	0,000	4,57E-02
Disposed of radioactive waste [kg]	3,65E-03	7,15E-04	2,26E-05	3,57E-03	1,39E-05	0,000	-6,67E-04

evaluated from CML 2001, August 2016

1.3.14 MRP-C 25/32

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408213	MRP-C 25/32	20	3,4546	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.]	5,818	6,682	1,056	1,102	0,606	0,000	-3,628
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,00E-11	1,28E-11	1,32E-13	2,34E-11	8,17E-14	0,000	-6,44E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,44E-02	1,25E-02	7,03E-03	2,29E-03	1,38E-03	0,000	-8,83E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,22E-03	1,58E-03	9,87E-04	2,66E-04	3,27E-04	0,000	-9,41E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,36E-05	2,25E-03	-4,19E-04	1,64E-04	-4,83E-04	0,000	-1,56E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,27E-06	2,96E-06	1,38E-08	2,33E-07	8,30E-09	0,000	5,15E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,62E+01	8,61E+01	1,44E+01	1,30E+01	8,43E+00	0,000	-4,56E+01
Energy (net calorific value) [MJ]	8,66E+01	8,82E+01	1,44E+01	2,32E+01	8,47E+00	0,000	-4,77E+01
Energy ren. (net calorific value) [MJ]	2,15E+01	1,18E+01	8,81E-02	1,36E+01	5,45E-02	0,000	-4,00E+00
Water consumption [kg]	2,44E+01	1,69E+01	1,04E-01	1,10E+01	6,33E-02	0,000	-3,74E+00
Air pollution [m ³]	3,63E+02	7,27E+02	7,29E+01	8,41E+01	2,89E+01	0,000	-5,49E+02
Water pollution [m ³]	1,13E+00	8,84E-01	8,34E-02	3,36E-01	4,95E-02	0,000	-2,19E-01
Hazardous waste for disposal [kg]	2,04E-07	2,05E-07	2,96E-11	-1,73E-09	1,56E-11	0,000	3,94E-10
Disposed of non-hazardous waste [kg]	1,68E-01	9,53E-02	1,42E-03	1,67E-02	8,43E-04	0,000	5,33E-02
Disposed of radioactive waste [kg]	3,68E-03	7,50E-04	2,29E-05	3,61E-03	1,41E-05	0,000	-7,12E-04

evaluated from CML 2001, August 2016

1.3.15 MRP-C 25/33

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408214	MRP-C 25/33	20	3,6558	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.]	6,103	7,100	1,117	1,171	0,641	0,000	-3,926
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,17E-11	1,33E-11	1,40E-13	2,49E-11	8,64E-14	0,000	-6,67E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,52E-02	1,33E-02	7,44E-03	2,43E-03	1,46E-03	0,000	-9,44E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,34E-03	1,67E-03	1,04E-03	2,83E-04	3,46E-04	0,000	-1,01E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,46E-05	2,39E-03	-4,43E-04	1,74E-04	-5,11E-04	0,000	-1,66E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,37E-06	3,04E-06	1,47E-08	2,47E-07	8,78E-09	0,000	5,47E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,98E+01	9,02E+01	1,52E+01	1,38E+01	8,92E+00	0,000	-4,84E+01
Energy (net calorific value) [MJ]	9,08E+01	9,24E+01	1,53E+01	2,46E+01	8,96E+00	0,000	-5,05E+01
Energy ren. (net calorific value) [MJ]	2,25E+01	1,21E+01	9,33E-02	1,44E+01	5,76E-02	0,000	-4,15E+00
Water consumption [kg]	2,54E+01	1,76E+01	1,10E-01	1,17E+01	6,70E-02	0,000	-4,08E+00
Air pollution [m ³]	3,84E+02	7,73E+02	7,72E+01	8,93E+01	3,06E+01	0,000	-5,86E+02
Water pollution [m ³]	1,18E+00	9,13E-01	8,83E-02	3,57E-01	5,24E-02	0,000	-2,32E-01
Hazardous waste for disposal [kg]	2,08E-07	2,09E-07	3,13E-11	-1,84E-09	1,65E-11	0,000	4,54E-10
Disposed of non-hazardous waste [kg]	1,73E-01	1,01E-01	1,50E-03	1,78E-02	8,93E-04	0,000	5,21E-02
Disposed of radioactive waste [kg]	3,92E-03	7,79E-04	2,43E-05	3,83E-03	1,49E-05	0,000	-7,27E-04

evaluated from CML 2001, August 2016

1.3.16 MRP-C 25/35

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408215	MRP-C 25/35	20	3,7320	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.]	6,502	7,328	1,141	1,201	0,655	0,000	-3,822
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,31E-11	1,46E-11	1,43E-13	2,55E-11	8,82E-14	0,000	-7,21E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,57E-02	1,36E-02	7,59E-03	2,49E-03	1,49E-03	0,000	-9,45E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,43E-03	1,72E-03	1,07E-03	2,90E-04	3,53E-04	0,000	-1,00E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,64E-06	2,46E-03	-4,52E-04	1,78E-04	-5,22E-04	0,000	-1,66E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,85E-06	3,52E-06	1,50E-08	2,54E-07	8,97E-09	0,000	5,20E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,57E+01	9,63E+01	1,55E+01	1,42E+01	9,11E+00	0,000	-4,94E+01
Energy (net calorific value) [MJ]	9,70E+01	9,86E+01	1,56E+01	2,53E+01	9,15E+00	0,000	-5,17E+01
Energy ren. (net calorific value) [MJ]	2,31E+01	1,27E+01	9,52E-02	1,48E+01	5,88E-02	0,000	-4,46E+00
Water consumption [kg]	2,72E+01	1,89E+01	1,12E-01	1,20E+01	6,84E-02	0,000	-3,94E+00
Air pollution [m ³]	3,98E+02	7,85E+02	7,88E+01	9,16E+01	3,12E+01	0,000	-5,89E+02
Water pollution [m ³]	1,25E+00	9,77E-01	9,01E-02	3,67E-01	5,35E-02	0,000	-2,40E-01
Hazardous waste for disposal [kg]	2,13E-07	2,15E-07	3,20E-11	-1,89E-09	1,68E-11	0,000	3,78E-10
Disposed of non-hazardous waste [kg]	1,81E-01	1,03E-01	1,53E-03	1,82E-02	9,11E-04	0,000	5,66E-02
Disposed of radioactive waste [kg]	4,00E-03	8,40E-04	2,48E-05	3,93E-03	1,52E-05	0,000	-8,12E-04

evaluated from CML 2001, August 2016

1.3.17 MRP-C 25/40

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408216	MRP-C 25/40	20	3,7512	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.]	6,707	7,471	1,147	1,217	0,658	0,000	-3,785
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,40E-11	1,53E-11	1,44E-13	2,59E-11	8,87E-14	0,000	-7,40E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,59E-02	1,37E-02	7,63E-03	2,53E-03	1,50E-03	0,000	-9,44E-03
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,45E-03	1,73E-03	1,07E-03	2,94E-04	3,55E-04	0,000	-1,00E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,82E-05	2,49E-03	-4,54E-04	1,81E-04	-5,25E-04	0,000	-1,67E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,13E-06	3,79E-06	1,50E-08	2,57E-07	9,01E-09	0,000	5,40E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,87E+01	9,93E+01	1,56E+01	1,44E+01	9,15E+00	0,000	-4,97E+01
Energy (net calorific value) [MJ]	1,00E+02	1,02E+02	1,57E+01	2,56E+01	9,20E+00	0,000	-5,21E+01
Energy ren. (net calorific value) [MJ]	2,30E+01	1,24E+01	9,57E-02	1,50E+01	5,91E-02	0,000	-4,58E+00
Water consumption [kg]	2,77E+01	1,93E+01	1,13E-01	1,22E+01	6,88E-02	0,000	-3,91E+00
Air pollution [m ³]	4,05E+02	7,90E+02	7,92E+01	9,29E+01	3,14E+01	0,000	-5,89E+02
Water pollution [m ³]	1,27E+00	9,98E-01	9,06E-02	3,72E-01	5,38E-02	0,000	-2,40E-01
Hazardous waste for disposal [kg]	2,17E-07	2,18E-07	3,21E-11	-1,92E-09	1,69E-11	0,000	3,49E-10
Disposed of non-hazardous waste [kg]	1,89E-01	1,04E-01	1,54E-03	1,85E-02	9,16E-04	0,000	6,40E-02
Disposed of radioactive waste [kg]	4,05E-03	8,67E-04	2,49E-05	3,99E-03	1,53E-05	0,000	-8,44E-04

evaluated from CML 2001, August 2016

1.3.18 MRP-C 25/42

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408217	MRP-C 25/42	20	3,9684	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.]	7,042	7,928	1,213	1,292	0,696	0,000	-4,086
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,60E-11	1,59E-11	1,52E-13	2,75E-11	9,38E-14	0,000	-7,69E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,68E-02	1,45E-02	8,07E-03	2,68E-03	1,58E-03	0,000	-1,01E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,58E-03	1,82E-03	1,13E-03	3,12E-04	3,75E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	2,16E-05	2,64E-03	-4,81E-04	1,92E-04	-5,55E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,28E-06	3,93E-06	1,59E-08	2,73E-07	9,53E-09	0,000	5,75E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,29E+01	1,04E+02	1,65E+01	1,52E+01	9,68E+00	0,000	-5,27E+01
Energy (net calorific value) [MJ]	1,05E+02	1,07E+02	1,66E+01	2,72E+01	9,73E+00	0,000	-5,51E+01
Energy ren. (net calorific value) [MJ]	2,40E+01	1,28E+01	1,01E-01	1,59E+01	6,25E-02	0,000	-4,77E+00
Water consumption [kg]	2,90E+01	2,01E+01	1,20E-01	1,29E+01	7,27E-02	0,000	-4,25E+00
Air pollution [m ³]	4,27E+02	8,40E+02	8,38E+01	9,86E+01	3,32E+01	0,000	-6,28E+02
Water pollution [m ³]	1,33E+00	1,03E+00	9,58E-02	3,94E-01	5,69E-02	0,000	-2,54E-01
Hazardous waste for disposal [kg]	2,22E-07	2,23E-07	3,40E-11	-2,03E-09	1,79E-11	0,000	4,04E-10
Disposed of non-hazardous waste [kg]	1,96E-01	1,10E-01	1,63E-03	1,96E-02	9,69E-04	0,000	6,38E-02
Disposed of radioactive waste [kg]	4,31E-03	9,04E-04	2,64E-05	4,23E-03	1,62E-05	0,000	-8,67E-04

evaluated from CML 2001, August 2016

1.3.19 MRP-C 25/48

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408218	MRP-C 25/48	20	4,0606	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.]	7,336	8,046	1,241	1,311	0,712	0,000	-3,975
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,69E-11	1,69E-11	1,55E-13	2,79E-11	9,60E-14	0,000	-8,17E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,73E-02	1,47E-02	8,26E-03	2,72E-03	1,62E-03	0,000	-1,01E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,68E-03	1,88E-03	1,16E-03	3,17E-04	3,84E-04	0,000	-1,07E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	4,72E-05	2,69E-03	-4,92E-04	1,95E-04	-5,68E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,65E-06	4,29E-06	1,63E-08	2,77E-07	9,75E-09	0,000	5,86E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,73E+01	1,09E+02	1,69E+01	1,55E+01	9,91E+00	0,000	-5,35E+01
Energy (net calorific value) [MJ]	1,10E+02	1,11E+02	1,70E+01	2,76E+01	9,95E+00	0,000	-5,62E+01
Energy ren. (net calorific value) [MJ]	2,53E+01	1,41E+01	1,04E-01	1,61E+01	6,40E-02	0,000	-5,05E+00
Water consumption [kg]	3,07E+01	2,14E+01	1,22E-01	1,31E+01	7,44E-02	0,000	-4,05E+00
Air pollution [m ³]	4,40E+02	8,50E+02	8,57E+01	1,00E+02	3,40E+01	0,000	-6,30E+02
Water pollution [m ³]	1,41E+00	1,11E+00	9,81E-02	4,00E-01	5,82E-02	0,000	-2,58E-01
Hazardous waste for disposal [kg]	2,47E-07	2,49E-07	3,48E-11	-2,06E-09	1,83E-11	0,000	3,35E-10
Disposed of non-hazardous waste [kg]	2,11E-01	1,13E-01	1,67E-03	1,99E-02	9,91E-04	0,000	7,53E-02
Disposed of radioactive waste [kg]	4,36E-03	9,62E-04	2,70E-05	4,29E-03	1,66E-05	0,000	-9,43E-04

evaluated from CML 2001, August 2016

1.3.20 MRP-C 25/50

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408219	MRP-C 25/50	20	4,0756	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.]	7,412	8,089	1,246	1,317	0,715	0,000	-3,955
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,72E-11	1,72E-11	1,56E-13	2,80E-11	9,64E-14	0,000	-8,26E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,74E-02	1,48E-02	8,29E-03	2,73E-03	1,62E-03	0,000	-1,01E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,70E-03	1,89E-03	1,16E-03	3,18E-04	3,86E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	5,66E-05	2,71E-03	-4,94E-04	1,96E-04	-5,70E-04	0,000	-1,78E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,75E-06	4,38E-06	1,63E-08	2,78E-07	9,79E-09	0,000	5,91E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,84E+01	1,10E+02	1,70E+01	1,55E+01	9,94E+00	0,000	-5,37E+01
Energy (net calorific value) [MJ]	1,11E+02	1,12E+02	1,70E+01	2,77E+01	9,99E+00	0,000	-5,64E+01
Energy ren. (net calorific value) [MJ]	2,55E+01	1,42E+01	1,04E-01	1,62E+01	6,42E-02	0,000	-5,10E+00
Water consumption [kg]	3,10E+01	2,16E+01	1,23E-01	1,32E+01	7,47E-02	0,000	-4,02E+00
Air pollution [m ³]	4,43E+02	8,52E+02	8,60E+01	1,00E+02	3,41E+01	0,000	-6,30E+02
Water pollution [m ³]	1,43E+00	1,13E+00	9,84E-02	4,02E-01	5,84E-02	0,000	-2,59E-01
Hazardous waste for disposal [kg]	2,51E-07	2,52E-07	3,49E-11	-2,07E-09	1,84E-11	0,000	3,21E-10
Disposed of non-hazardous waste [kg]	2,14E-01	1,14E-01	1,67E-03	2,00E-02	9,95E-04	0,000	7,82E-02
Disposed of radioactive waste [kg]	4,37E-03	9,75E-04	2,71E-05	4,31E-03	1,67E-05	0,000	-9,59E-04

evaluated from CML 2001, August 2016

1.3.21 MRP-C 25/54

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408220	MRP-C 25/54	20	4,3950	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.]	7,921	8,764	1,343	1,426	0,771	0,000	-4,384
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,01E-11	1,82E-11	1,68E-13	3,03E-11	1,04E-13	0,000	-8,71E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,87E-02	1,60E-02	8,94E-03	2,96E-03	1,75E-03	0,000	-1,10E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,89E-03	2,03E-03	1,26E-03	3,45E-04	4,16E-04	0,000	-1,16E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	4,99E-05	2,93E-03	-5,32E-04	2,12E-04	-6,15E-04	0,000	-1,94E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,00E-06	4,61E-06	1,76E-08	3,01E-07	1,06E-08	0,000	6,43E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,05E+02	1,17E+02	1,83E+01	1,68E+01	1,07E+01	0,000	-5,81E+01
Energy (net calorific value) [MJ]	1,18E+02	1,20E+02	1,84E+01	3,00E+01	1,08E+01	0,000	-6,09E+01
Energy ren. (net calorific value) [MJ]	2,71E+01	1,47E+01	1,12E-01	1,76E+01	6,93E-02	0,000	-5,39E+00
Water consumption [kg]	3,29E+01	2,29E+01	1,32E-01	1,43E+01	8,06E-02	0,000	-4,50E+00
Air pollution [m ³]	4,76E+02	9,25E+02	9,28E+01	1,09E+02	3,68E+01	0,000	-6,87E+02
Water pollution [m ³]	1,51E+00	1,18E+00	1,06E-01	4,35E-01	6,30E-02	0,000	-2,80E-01
Hazardous waste for disposal [kg]	2,59E-07	2,61E-07	3,76E-11	-2,24E-09	1,98E-11	0,000	3,96E-10
Disposed of non-hazardous waste [kg]	2,25E-01	1,22E-01	1,81E-03	2,16E-02	1,07E-03	0,000	7,88E-02
Disposed of radioactive waste [kg]	4,75E-03	1,03E-03	2,92E-05	4,67E-03	1,80E-05	0,000	-9,97E-04

evaluated from CML 2001, August 2016

1.3.22 MRP-C 25/57

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408221	MRP-C 25/57	20	4,4216	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.]	8,055	8,839	1,351	1,436	0,775	0,000	-4,347
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,06E-11	1,87E-11	1,69E-13	3,05E-11	1,05E-13	0,000	-8,88E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,88E-02	1,61E-02	8,99E-03	2,98E-03	1,76E-03	0,000	-1,10E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,92E-03	2,05E-03	1,26E-03	3,47E-04	4,18E-04	0,000	-1,16E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	6,65E-05	2,95E-03	-5,36E-04	2,13E-04	-6,18E-04	0,000	-1,94E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,18E-06	4,78E-06	1,77E-08	3,03E-07	1,06E-08	0,000	6,53E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,07E+02	1,19E+02	1,84E+01	1,69E+01	1,08E+01	0,000	-5,84E+01
Energy (net calorific value) [MJ]	1,20E+02	1,22E+02	1,85E+01	3,02E+01	1,08E+01	0,000	-6,13E+01
Energy ren. (net calorific value) [MJ]	2,73E+01	1,49E+01	1,13E-01	1,77E+01	6,97E-02	0,000	-5,49E+00
Water consumption [kg]	3,34E+01	2,33E+01	1,33E-01	1,44E+01	8,11E-02	0,000	-4,45E+00
Air pollution [m ³]	4,81E+02	9,29E+02	9,33E+01	1,10E+02	3,70E+01	0,000	-6,87E+02
Water pollution [m ³]	1,54E+00	1,21E+00	1,07E-01	4,38E-01	6,34E-02	0,000	-2,81E-01
Hazardous waste for disposal [kg]	2,66E-07	2,68E-07	3,79E-11	-2,26E-09	2,00E-11	0,000	3,71E-10
Disposed of non-hazardous waste [kg]	2,32E-01	1,23E-01	1,82E-03	2,18E-02	1,08E-03	0,000	8,39E-02
Disposed of radioactive waste [kg]	4,78E-03	1,05E-03	2,94E-05	4,70E-03	1,81E-05	0,000	-1,02E-03

evaluated from CML 2001, August 2016

1.3.23 MRP-C 25/60

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408222	MRP-C 25/60	20	5,3134	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.]	9,201	10,857	1,624	1,511	0,932	0,000	-5,723
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,35E-11	2,09E-11	2,03E-13	3,21E-11	1,26E-13	0,000	-9,85E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	2,20E-02	1,97E-02	1,08E-02	3,14E-03	2,12E-03	0,000	-1,37E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,40E-03	2,47E-03	1,52E-03	3,65E-04	5,03E-04	0,000	-1,46E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,30E-05	3,54E-03	-6,44E-04	2,24E-04	-7,43E-04	0,000	-2,42E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,40E-06	4,97E-06	2,13E-08	3,19E-07	1,28E-08	0,000	7,68E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,21E+02	1,39E+02	2,21E+01	1,78E+01	1,30E+01	0,000	-7,09E+01
Energy (net calorific value) [MJ]	1,35E+02	1,42E+02	2,22E+01	3,18E+01	1,30E+01	0,000	-7,39E+01
Energy ren. (net calorific value) [MJ]	2,89E+01	1,62E+01	1,36E-01	1,86E+01	8,37E-02	0,000	-6,13E+00
Water consumption [kg]	3,44E+01	2,51E+01	1,60E-01	1,51E+01	9,74E-02	0,000	-6,04E+00
Air pollution [m ³]	5,48E+02	1,13E+03	1,12E+02	1,15E+02	4,45E+01	0,000	-8,56E+02
Water pollution [m ³]	1,65E+00	1,33E+00	1,28E-01	4,61E-01	7,62E-02	0,000	-3,42E-01
Hazardous waste for disposal [kg]	2,73E-07	2,75E-07	4,55E-11	-2,38E-09	2,40E-11	0,000	6,54E-10
Disposed of non-hazardous waste [kg]	2,46E-01	1,48E-01	2,18E-03	2,29E-02	1,30E-03	0,000	7,13E-02
Disposed of radioactive waste [kg]	5,11E-03	1,18E-03	3,53E-05	4,95E-03	2,17E-05	0,000	-1,08E-03

evaluated from CML 2001, August 2016

1.3.24 MRP-C 25/63

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408223	MRP-C 25/63	20	5,3656	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.]	9,370	10,992	1,640	1,522	0,941	0,000	-5,725
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,41E-11	2,15E-11	2,05E-13	3,24E-11	1,27E-13	0,000	-1,01E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,23E-02	1,99E-02	1,09E-02	3,16E-03	2,14E-03	0,000	-1,38E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,44E-03	2,49E-03	1,53E-03	3,68E-04	5,08E-04	0,000	-1,46E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,93E-05	3,58E-03	-6,50E-04	2,26E-04	-7,50E-04	0,000	-2,44E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,58E-06	5,15E-06	2,15E-08	3,21E-07	1,29E-08	0,000	7,81E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,24E+02	1,42E+02	2,23E+01	1,80E+01	1,31E+01	0,000	-7,15E+01
Energy (net calorific value) [MJ]	1,38E+02	1,45E+02	2,24E+01	3,20E+01	1,32E+01	0,000	-7,46E+01
Energy ren. (net calorific value) [MJ]	2,91E+01	1,64E+01	1,37E-01	1,87E+01	8,46E-02	0,000	-6,25E+00
Water consumption [kg]	3,50E+01	2,55E+01	1,62E-01	1,52E+01	9,84E-02	0,000	-6,03E+00
Air pollution [m ³]	5,54E+02	1,14E+03	1,13E+02	1,16E+02	4,49E+01	0,000	-8,62E+02
Water pollution [m ³]	1,68E+00	1,36E+00	1,30E-01	4,65E-01	7,69E-02	0,000	-3,45E-01
Hazardous waste for disposal [kg]	2,80E-07	2,82E-07	4,59E-11	-2,40E-09	2,42E-11	0,000	6,36E-10
Disposed of non-hazardous waste [kg]	2,52E-01	1,50E-01	2,20E-03	2,31E-02	1,31E-03	0,000	7,60E-02
Disposed of radioactive waste [kg]	5,14E-03	1,21E-03	3,56E-05	4,98E-03	2,19E-05	0,000	-1,11E-03

evaluated from CML 2001, August 2016

1.3.25 MRP-C 25/64

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408224	MRP-C 25/64	20	5,3738	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.]	9,396	11,013	1,643	1,524	0,942	0,000	-5,725
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,42E-11	2,15E-11	2,06E-13	3,24E-11	1,27E-13	0,000	-1,01E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,23E-02	1,99E-02	1,09E-02	3,16E-03	2,14E-03	0,000	-1,38E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,45E-03	2,50E-03	1,54E-03	3,68E-04	5,08E-04	0,000	-1,47E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,72E-05	3,59E-03	-6,51E-04	2,26E-04	-7,51E-04	0,000	-2,44E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,61E-06	5,18E-06	2,15E-08	3,22E-07	1,29E-08	0,000	7,83E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,24E+02	1,42E+02	2,24E+01	1,80E+01	1,31E+01	0,000	-7,16E+01
Energy (net calorific value) [MJ]	1,38E+02	1,45E+02	2,25E+01	3,20E+01	1,32E+01	0,000	-7,48E+01
Energy ren. (net calorific value) [MJ]	2,92E+01	1,65E+01	1,37E-01	1,88E+01	8,47E-02	0,000	-6,26E+00
Water consumption [kg]	3,51E+01	2,56E+01	1,62E-01	1,52E+01	9,85E-02	0,000	-6,03E+00
Air pollution [m ³]	5,56E+02	1,14E+03	1,13E+02	1,16E+02	4,50E+01	0,000	-8,63E+02
Water pollution [m ³]	1,69E+00	1,36E+00	1,30E-01	4,65E-01	7,70E-02	0,000	-3,45E-01
Hazardous waste for disposal [kg]	2,81E-07	2,83E-07	4,60E-11	-2,40E-09	2,43E-11	0,000	6,34E-10
Disposed of non-hazardous waste [kg]	2,53E-01	1,50E-01	2,21E-03	2,31E-02	1,31E-03	0,000	7,68E-02
Disposed of radioactive waste [kg]	5,15E-03	1,21E-03	3,57E-05	4,99E-03	2,20E-05	0,000	-1,11E-03

evaluated from CML 2001, August 2016

1.3.26 MRP-C 25/66

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408225	MRP-C 25/66	20	5,4180	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.]	9,540	11,127	1,656	1,533	0,950	0,000	-5,726
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	4,47E-11	2,20E-11	2,07E-13	3,26E-11	1,28E-13	0,000	-1,03E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,26E-02	2,01E-02	1,10E-02	3,18E-03	2,16E-03	0,000	-1,39E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,48E-03	2,52E-03	1,55E-03	3,71E-04	5,13E-04	0,000	-1,47E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,55E-05	3,62E-03	-6,56E-04	2,28E-04	-7,58E-04	0,000	-2,45E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,77E-06	5,34E-06	2,17E-08	3,24E-07	1,30E-08	0,000	7,95E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,26E+02	1,44E+02	2,25E+01	1,81E+01	1,32E+01	0,000	-7,22E+01
Energy (net calorific value) [MJ]	1,41E+02	1,48E+02	2,26E+01	3,22E+01	1,33E+01	0,000	-7,54E+01
Energy ren. (net calorific value) [MJ]	2,94E+01	1,67E+01	1,38E-01	1,89E+01	8,54E-02	0,000	-6,37E+00
Water consumption [kg]	3,56E+01	2,60E+01	1,63E-01	1,53E+01	9,93E-02	0,000	-6,02E+00
Air pollution [m ³]	5,61E+02	1,15E+03	1,14E+02	1,17E+02	4,53E+01	0,000	-8,67E+02
Water pollution [m ³]	1,72E+00	1,39E+00	1,31E-01	4,68E-01	7,77E-02	0,000	-3,48E-01
Hazardous waste for disposal [kg]	2,87E-07	2,89E-07	4,64E-11	-2,41E-09	2,45E-11	0,000	6,19E-10
Disposed of non-hazardous waste [kg]	2,59E-01	1,51E-01	2,23E-03	2,33E-02	1,32E-03	0,000	8,10E-02
Disposed of radioactive waste [kg]	5,17E-03	1,24E-03	3,60E-05	5,02E-03	2,21E-05	0,000	-1,14E-03

evaluated from CML 2001, August 2016

1.3.27 MRP-C 25/75

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408226	MRP-C 25/75	10	3,4034	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.]	5,938	6,767	1,040	0,937	0,597	0,000	-3,403
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,72E-11	1,37E-11	1,30E-13	1,99E-11	8,05E-14	0,000	-6,70E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,42E-02	1,25E-02	6,92E-03	1,95E-03	1,36E-03	0,000	-8,53E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,23E-03	1,61E-03	9,73E-04	2,27E-04	3,22E-04	0,000	-9,00E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,74E-05	2,23E-03	-4,12E-04	1,39E-04	-4,76E-04	0,000	-1,50E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,56E-06	3,30E-06	1,36E-08	1,98E-07	8,18E-09	0,000	4,10E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	7,87E+01	9,00E+01	1,42E+01	1,11E+01	8,30E+00	0,000	-4,48E+01
Energy (net calorific value) [MJ]	8,75E+01	9,22E+01	1,42E+01	1,97E+01	8,34E+00	0,000	-4,70E+01
Energy ren. (net calorific value) [MJ]	1,98E+01	1,22E+01	8,68E-02	1,15E+01	5,36E-02	0,000	-4,14E+00
Water consumption [kg]	2,31E+01	1,70E+01	1,03E-01	9,38E+00	6,24E-02	0,000	-3,48E+00
Air pollution [m ³]	3,49E+02	7,10E+02	7,18E+01	7,15E+01	2,85E+01	0,000	-5,32E+02
Water pollution [m ³]	1,10E+00	9,09E-01	8,22E-02	2,86E-01	4,88E-02	0,000	-2,23E-01
Hazardous waste for disposal [kg]	1,89E-07	1,90E-07	2,91E-11	-1,48E-09	1,54E-11	0,000	3,23E-10
Disposed of non-hazardous waste [kg]	1,55E-01	9,57E-02	1,40E-03	1,42E-02	8,31E-04	0,000	4,33E-02
Disposed of radioactive waste [kg]	3,13E-03	7,88E-04	2,26E-05	3,07E-03	1,39E-05	0,000	-7,61E-04

evaluated from CML 2001, August 2016

1.3.28 MRP-C 25/76

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408227	MRP-C 25/76	10	3,6754	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.]	6,270	7,317	1,123	1,032	0,645	0,000	-3,848
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	2,94E-11	1,42E-11	1,41E-13	2,20E-11	8,69E-14	0,000	-6,93E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,52E-02	1,35E-02	7,48E-03	2,14E-03	1,47E-03	0,000	-9,39E-03
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	2,37E-03	1,72E-03	1,05E-03	2,50E-04	3,48E-04	0,000	-9,93E-04
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,17E-05	2,42E-03	-4,45E-04	1,53E-04	-5,14E-04	0,000	-1,65E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,61E-06	3,32E-06	1,47E-08	2,18E-07	8,83E-09	0,000	4,55E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	8,26E+01	9,48E+01	1,53E+01	1,22E+01	8,97E+00	0,000	-4,86E+01
Energy (net calorific value) [MJ]	9,24E+01	9,71E+01	1,54E+01	2,17E+01	9,01E+00	0,000	-5,08E+01
Energy ren. (net calorific value) [MJ]	2,11E+01	1,25E+01	9,38E-02	1,27E+01	5,79E-02	0,000	-4,30E+00
Water consumption [kg]	2,43E+01	1,78E+01	1,11E-01	1,03E+01	6,74E-02	0,000	-4,00E+00
Air pollution [m ³]	3,75E+02	7,74E+02	7,76E+01	7,88E+01	3,08E+01	0,000	-5,85E+02
Water pollution [m ³]	1,15E+00	9,37E-01	8,87E-02	3,15E-01	5,27E-02	0,000	-2,41E-01
Hazardous waste for disposal [kg]	1,91E-07	1,92E-07	3,15E-11	-1,63E-09	1,66E-11	0,000	4,21E-10
Disposed of non-hazardous waste [kg]	1,60E-01	1,03E-01	1,51E-03	1,57E-02	8,97E-04	0,000	3,96E-02
Disposed of radioactive waste [kg]	3,47E-03	8,17E-04	2,44E-05	3,38E-03	1,50E-05	0,000	-7,67E-04

evaluated from CML 2001, August 2016

1.3.29 MRP-C 25/88

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408228	MRP-C 25/88	10	4,2753	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.]	7,062	7,639	1,307	1,102	0,750	0,000	-3,734
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,15E-11	1,65E-11	1,64E-13	2,34E-11	1,01E-13	0,000	-8,71E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,78E-02	1,52E-02	8,70E-03	2,29E-03	1,70E-03	0,000	-1,01E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,91E-03	2,08E-03	1,22E-03	2,66E-04	4,05E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-8,37E-05	2,64E-03	-5,18E-04	1,64E-04	-5,98E-04	0,000	-1,77E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,20E-06	3,90E-06	1,71E-08	2,33E-07	1,03E-08	0,000	4,36E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,41E+01	1,07E+02	1,78E+01	1,30E+01	1,04E+01	0,000	-5,41E+01
Energy (net calorific value) [MJ]	1,04E+02	1,10E+02	1,79E+01	2,32E+01	1,05E+01	0,000	-5,70E+01
Energy ren. (net calorific value) [MJ]	2,99E+01	2,15E+01	1,09E-01	1,36E+01	6,74E-02	0,000	-5,35E+00
Water consumption [kg]	3,12E+01	2,33E+01	1,29E-01	1,10E+01	7,84E-02	0,000	-3,40E+00
Air pollution [m ³]	4,26E+02	8,45E+02	9,02E+01	8,41E+01	3,58E+01	0,000	-6,29E+02
Water pollution [m ³]	1,51E+00	1,28E+00	1,03E-01	3,36E-01	6,13E-02	0,000	-2,75E-01
Hazardous waste for disposal [kg]	3,12E-07	3,14E-07	3,66E-11	-1,74E-09	1,93E-11	0,000	2,54E-10
Disposed of non-hazardous waste [kg]	2,02E-01	1,22E-01	1,76E-03	1,67E-02	1,04E-03	0,000	6,07E-02
Disposed of radioactive waste [kg]	3,65E-03	1,02E-03	2,84E-05	3,61E-03	1,75E-05	0,000	-1,03E-03

evaluated from CML 2001, August 2016

1.3.30 MRP-C 25/90

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408229	MRP-C 25/90	10	4,2855	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.]	7,095	7,665	1,310	1,104	0,752	0,000	-3,735
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,16E-11	1,66E-11	1,64E-13	2,35E-11	1,01E-13	0,000	-8,75E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,79E-02	1,52E-02	8,72E-03	2,29E-03	1,71E-03	0,000	-1,01E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	2,92E-03	2,08E-03	1,22E-03	2,67E-04	4,05E-04	0,000	-1,06E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-8,11E-05	2,65E-03	-5,19E-04	1,64E-04	-5,99E-04	0,000	-1,77E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,24E-06	3,93E-06	1,72E-08	2,33E-07	1,03E-08	0,000	4,38E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,46E+01	1,08E+02	1,78E+01	1,30E+01	1,05E+01	0,000	-5,42E+01
Energy (net calorific value) [MJ]	1,05E+02	1,10E+02	1,79E+01	2,32E+01	1,05E+01	0,000	-5,72E+01
Energy ren. (net calorific value) [MJ]	2,99E+01	2,15E+01	1,09E-01	1,36E+01	6,75E-02	0,000	-5,38E+00
Water consumption [kg]	3,13E+01	2,34E+01	1,29E-01	1,10E+01	7,86E-02	0,000	-3,40E+00
Air pollution [m ³]	4,28E+02	8,47E+02	9,05E+01	8,42E+01	3,59E+01	0,000	-6,30E+02
Water pollution [m ³]	1,52E+00	1,29E+00	1,03E-01	3,37E-01	6,14E-02	0,000	-2,76E-01
Hazardous waste for disposal [kg]	3,13E-07	3,15E-07	3,67E-11	-1,74E-09	1,93E-11	0,000	2,50E-10
Disposed of non-hazardous waste [kg]	2,03E-01	1,22E-01	1,76E-03	1,68E-02	1,05E-03	0,000	6,15E-02
Disposed of radioactive waste [kg]	3,66E-03	1,03E-03	2,85E-05	3,62E-03	1,75E-05	0,000	-1,03E-03

evaluated from CML 2001, August 2016

1.3.31 MRP-C 25/108

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408230	MRP-C 25/108	10	4,7287	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.]	7,956	8,657	1,445	1,232	0,829	0,000	-4,207
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,56E-11	1,87E-11	1,81E-13	2,62E-11	1,12E-13	0,000	-9,61E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,98E-02	1,69E-02	9,62E-03	2,56E-03	1,89E-03	0,000	-1,12E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,21E-03	2,29E-03	1,35E-03	2,98E-04	4,47E-04	0,000	-1,18E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-6,52E-05	2,96E-03	-5,73E-04	1,83E-04	-6,61E-04	0,000	-1,97E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,85E-06	4,51E-06	1,90E-08	2,60E-07	1,14E-08	0,000	5,10E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,06E+02	1,21E+02	1,97E+01	1,45E+01	1,15E+01	0,000	-6,02E+01
Energy (net calorific value) [MJ]	1,18E+02	1,24E+02	1,98E+01	2,59E+01	1,16E+01	0,000	-6,34E+01
Energy ren. (net calorific value) [MJ]	3,20E+01	2,26E+01	1,21E-01	1,52E+01	7,45E-02	0,000	-5,91E+00
Water consumption [kg]	3,43E+01	2,56E+01	1,42E-01	1,23E+01	8,67E-02	0,000	-3,91E+00
Air pollution [m ³]	4,76E+02	9,43E+02	9,98E+01	9,40E+01	3,96E+01	0,000	-7,01E+02
Water pollution [m ³]	1,66E+00	1,40E+00	1,14E-01	3,76E-01	6,78E-02	0,000	-3,04E-01
Hazardous waste for disposal [kg]	3,33E-07	3,35E-07	4,05E-11	-1,94E-09	2,13E-11	0,000	3,01E-10
Disposed of non-hazardous waste [kg]	2,26E-01	1,35E-01	1,94E-03	1,87E-02	1,15E-03	0,000	6,92E-02
Disposed of radioactive waste [kg]	4,10E-03	1,14E-03	3,14E-05	4,04E-03	1,93E-05	0,000	-1,13E-03

evaluated from CML 2001, August 2016

1.3.32 MRP-C 25/110

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408231	MRP-C 25/110	10	4,9087	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.]	8,501	9,129	1,500	1,267	0,861	0,000	-4,257
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,74E-11	2,04E-11	1,88E-13	2,70E-11	1,16E-13	0,000	-1,03E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,06E-02	1,76E-02	9,98E-03	2,63E-03	1,96E-03	0,000	-1,15E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,36E-03	2,39E-03	1,40E-03	3,06E-04	4,64E-04	0,000	-1,21E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,40E-05	3,10E-03	-5,95E-04	1,88E-04	-6,86E-04	0,000	-2,03E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,38E-06	5,03E-06	1,97E-08	2,68E-07	1,18E-08	0,000	4,87E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,14E+02	1,29E+02	2,04E+01	1,49E+01	1,20E+01	0,000	-6,26E+01
Energy (net calorific value) [MJ]	1,26E+02	1,33E+02	2,05E+01	2,66E+01	1,20E+01	0,000	-6,60E+01
Energy ren. (net calorific value) [MJ]	3,28E+01	2,33E+01	1,25E-01	1,56E+01	7,74E-02	0,000	-6,30E+00
Water consumption [kg]	3,61E+01	2,72E+01	1,48E-01	1,27E+01	9,00E-02	0,000	-3,94E+00
Air pollution [m ³]	4,98E+02	9,79E+02	1,04E+02	9,67E+01	4,11E+01	0,000	-7,23E+02
Water pollution [m ³]	1,74E+00	1,48E+00	1,19E-01	3,87E-01	7,04E-02	0,000	-3,20E-01
Hazardous waste for disposal [kg]	3,38E-07	3,39E-07	4,20E-11	-2,00E-09	2,22E-11	0,000	2,58E-10
Disposed of non-hazardous waste [kg]	2,34E-01	1,41E-01	2,02E-03	1,92E-02	1,20E-03	0,000	7,07E-02
Disposed of radioactive waste [kg]	4,20E-03	1,21E-03	3,26E-05	4,15E-03	2,01E-05	0,000	-1,22E-03

evaluated from CML 2001, August 2016

1.3.33 MRP-C 25/114

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408232	MRP-C 25/114	10	5,0477	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.]	8,754	9,436	1,543	1,308	0,885	0,000	-4,418
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,86E-11	2,10E-11	1,93E-13	2,78E-11	1,19E-13	0,000	-1,05E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,12E-02	1,81E-02	1,03E-02	2,72E-03	2,01E-03	0,000	-1,19E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	3,44E-03	2,45E-03	1,44E-03	3,16E-04	4,78E-04	0,000	-1,25E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-2,18E-05	3,20E-03	-6,12E-04	1,94E-04	-7,06E-04	0,000	-2,10E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,54E-06	5,18E-06	2,02E-08	2,77E-07	1,21E-08	0,000	5,07E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,17E+02	1,33E+02	2,10E+01	1,54E+01	1,23E+01	0,000	-6,45E+01
Energy (net calorific value) [MJ]	1,29E+02	1,36E+02	2,11E+01	2,75E+01	1,24E+01	0,000	-6,80E+01
Energy ren. (net calorific value) [MJ]	3,35E+01	2,36E+01	1,29E-01	1,61E+01	7,96E-02	0,000	-6,46E+00
Water consumption [kg]	3,70E+01	2,78E+01	1,52E-01	1,31E+01	9,25E-02	0,000	-4,12E+00
Air pollution [m ³]	5,12E+02	1,01E+03	1,07E+02	9,98E+01	4,22E+01	0,000	-7,46E+02
Water pollution [m ³]	1,78E+00	1,51E+00	1,22E-01	4,00E-01	7,23E-02	0,000	-3,29E-01
Hazardous waste for disposal [kg]	3,42E-07	3,44E-07	4,32E-11	-2,06E-09	2,28E-11	0,000	2,80E-10
Disposed of non-hazardous waste [kg]	2,40E-01	1,45E-01	2,07E-03	1,99E-02	1,23E-03	0,000	7,19E-02
Disposed of radioactive waste [kg]	4,34E-03	1,25E-03	3,35E-05	4,29E-03	2,06E-05	0,000	-1,25E-03

evaluated from CML 2001, August 2016

1.3.34 MRP-C 25/125

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408233	MRP-C 25/125	10	6,7942	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.]	10,905	13,026	2,077	1,896	1,192	0,000	-7,285
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,32E-11	2,43E-11	2,60E-13	4,03E-11	1,61E-13	0,000	-1,18E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,80E-02	2,49E-02	1,38E-02	3,94E-03	2,71E-03	0,000	-1,74E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,41E-03	3,20E-03	1,94E-03	4,58E-04	6,43E-04	0,000	-1,84E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,66E-04	4,39E-03	-8,23E-04	2,82E-04	-9,50E-04	0,000	-3,06E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,06E-06	5,53E-06	2,72E-08	4,01E-07	1,63E-08	0,000	8,15E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,43E+02	1,64E+02	2,83E+01	2,24E+01	1,66E+01	0,000	-8,86E+01
Energy (net calorific value) [MJ]	1,61E+02	1,68E+02	2,84E+01	3,99E+01	1,67E+01	0,000	-9,21E+01
Energy ren. (net calorific value) [MJ]	4,18E+01	2,56E+01	1,73E-01	2,34E+01	1,07E-01	0,000	-7,36E+00
Water consumption [kg]	4,48E+01	3,29E+01	2,05E-01	1,90E+01	1,25E-01	0,000	-7,39E+00
Air pollution [m ³]	6,82E+02	1,42E+03	1,43E+02	1,45E+02	5,68E+01	0,000	-1,08E+03
Water pollution [m ³]	2,11E+00	1,71E+00	1,64E-01	5,79E-01	9,74E-02	0,000	-4,41E-01
Hazardous waste for disposal [kg]	3,59E-07	3,61E-07	5,82E-11	-2,99E-09	3,07E-11	0,000	9,30E-10
Disposed of non-hazardous waste [kg]	2,72E-01	1,90E-01	2,79E-03	2,88E-02	1,66E-03	0,000	4,86E-02
Disposed of radioactive waste [kg]	6,47E-03	1,45E-03	4,51E-05	6,21E-03	2,78E-05	0,000	-1,25E-03

evaluated from CML 2001, August 2016

1.3.35 MRP-C 25/133

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408234	MRP-C 25/133	10	7,0196	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.]	11,338	13,530	2,146	1,961	1,231	0,000	-7,530
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,52E-11	2,53E-11	2,69E-13	4,17E-11	1,66E-13	0,000	-1,22E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	2,89E-02	2,58E-02	1,43E-02	4,08E-03	2,80E-03	0,000	-1,80E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	4,55E-03	3,30E-03	2,01E-03	4,74E-04	6,64E-04	0,000	-1,90E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,59E-04	4,55E-03	-8,50E-04	2,91E-04	-9,82E-04	0,000	-3,17E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	6,36E-06	5,82E-06	2,81E-08	4,14E-07	1,69E-08	0,000	8,47E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,49E+02	1,71E+02	2,92E+01	2,31E+01	1,71E+01	0,000	-9,17E+01
Energy (net calorific value) [MJ]	1,67E+02	1,75E+02	2,93E+01	4,13E+01	1,72E+01	0,000	-9,53E+01
Energy ren. (net calorific value) [MJ]	4,29E+01	2,61E+01	1,79E-01	2,42E+01	1,11E-01	0,000	-7,63E+00
Water consumption [kg]	4,63E+01	3,40E+01	2,11E-01	1,96E+01	1,29E-01	0,000	-7,65E+00
Air pollution [m ³]	7,06E+02	1,47E+03	1,48E+02	1,50E+02	5,87E+01	0,000	-1,12E+03
Water pollution [m ³]	2,18E+00	1,76E+00	1,70E-01	5,99E-01	1,01E-01	0,000	-4,56E-01
Hazardous waste for disposal [kg]	3,68E-07	3,70E-07	6,01E-11	-3,09E-09	3,17E-11	0,000	9,58E-10
Disposed of non-hazardous waste [kg]	2,82E-01	1,97E-01	2,88E-03	2,98E-02	1,71E-03	0,000	5,16E-02
Disposed of radioactive waste [kg]	6,70E-03	1,50E-03	4,66E-05	6,42E-03	2,87E-05	0,000	-1,30E-03

evaluated from CML 2001, August 2016

1.3.36 MRP-C 25/140

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408235	MRP-C 25/140	6	4,6139	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.]	7,239	8,186	1,410	1,212	0,809	0,000	-4,379
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	3,40E-11	1,65E-11	1,77E-13	2,58E-11	1,09E-13	0,000	-8,56E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	1,91E-02	1,65E-02	9,38E-03	2,52E-03	1,84E-03	0,000	-1,12E-02
Eutrication Potential (EP) [kg (PO ₄) ³⁻ - eq.]	3,10E-03	2,23E-03	1,32E-03	2,93E-04	4,37E-04	0,000	-1,17E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-1,40E-04	2,85E-03	-5,59E-04	1,80E-04	-6,45E-04	0,000	-1,96E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,11E-06	3,77E-06	1,85E-08	2,56E-07	1,11E-08	0,000	4,78E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	9,56E+01	1,09E+02	1,92E+01	1,43E+01	1,13E+01	0,000	-5,84E+01
Energy (net calorific value) [MJ]	1,07E+02	1,12E+02	1,93E+01	2,55E+01	1,13E+01	0,000	-6,11E+01
Energy ren. (net calorific value) [MJ]	3,24E+01	2,26E+01	1,18E-01	1,49E+01	7,27E-02	0,000	-5,29E+00
Water consumption [kg]	3,26E+01	2,43E+01	1,39E-01	1,21E+01	8,46E-02	0,000	-4,07E+00
Air pollution [m ³]	4,55E+02	9,24E+02	9,74E+01	9,25E+01	3,86E+01	0,000	-6,97E+02
Water pollution [m ³]	1,56E+00	1,31E+00	1,11E-01	3,70E-01	6,61E-02	0,000	-2,96E-01
Hazardous waste for disposal [kg]	3,11E-07	3,13E-07	3,95E-11	-1,91E-09	2,08E-11	0,000	4,47E-10
Disposed of non-hazardous waste [kg]	1,97E-01	1,31E-01	1,90E-03	1,84E-02	1,13E-03	0,000	4,39E-02
Disposed of radioactive waste [kg]	4,10E-03	1,04E-03	3,06E-05	3,97E-03	1,89E-05	0,000	-9,60E-04

evaluated from CML 2001, August 2016

1.3.37 MRP-C 25/160

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408236	MRP-C 25/160	6	9,3128	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.]	12,710	17,378	2,787	2,716	1,599	0,000	-11,770
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	7,03E-11	2,43E-11	3,49E-13	5,78E-11	2,16E-13	0,000	-1,24E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,63E-02	3,40E-02	1,85E-02	5,65E-03	3,63E-03	0,000	-2,55E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	5,55E-03	4,13E-03	2,61E-03	6,57E-04	8,63E-04	0,000	-2,71E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,51E-04	5,89E-03	-1,10E-03	4,04E-04	-1,27E-03	0,000	-4,46E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	4,89E-06	4,15E-06	3,66E-08	5,74E-07	2,19E-08	0,000	1,11E-07
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,60E+02	1,89E+02	3,79E+01	3,21E+01	2,22E+01	0,000	-1,21E+02
Energy (net calorific value) [MJ]	1,87E+02	1,94E+02	3,81E+01	5,72E+01	2,23E+01	0,000	-1,24E+02
Energy ren. (net calorific value) [MJ]	5,34E+01	2,74E+01	2,33E-01	3,35E+01	1,44E-01	0,000	-7,87E+00
Water consumption [kg]	5,17E+01	3,67E+01	2,75E-01	2,72E+01	1,67E-01	0,000	-1,26E+01
Air pollution [m ³]	8,85E+02	1,98E+03	1,92E+02	2,08E+02	7,63E+01	0,000	-1,58E+03
Water pollution [m ³]	2,34E+00	1,76E+00	2,20E-01	8,30E-01	1,31E-01	0,000	-6,04E-01
Hazardous waste for disposal [kg]	3,22E-07	3,24E-07	7,81E-11	-4,29E-09	4,12E-11	0,000	2,09E-09
Disposed of non-hazardous waste [kg]	2,55E-01	2,48E-01	3,75E-03	4,12E-02	2,23E-03	0,000	-4,06E-02
Disposed of radioactive waste [kg]	9,47E-03	1,52E-03	6,06E-05	8,90E-03	3,73E-05	0,000	-1,05E-03

evaluated from CML 2001, August 2016

1.3.38 MRP-C 25/168

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408237	MRP-C 25/168	6	9,6122	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.]	13,165	18,014	2,878	2,811	1,651	0,000	-12,189
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	7,28E-11	2,52E-11	3,61E-13	5,98E-11	2,23E-13	0,000	-1,27E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,75E-02	3,51E-02	1,92E-02	5,84E-03	3,75E-03	0,000	-2,64E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	5,72E-03	4,26E-03	2,69E-03	6,80E-04	8,91E-04	0,000	-2,80E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-5,62E-04	6,09E-03	-1,14E-03	4,18E-04	-1,32E-03	0,000	-4,62E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,09E-06	4,32E-06	3,78E-08	5,94E-07	2,26E-08	0,000	1,15E-07
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,66E+02	1,96E+02	3,92E+01	3,32E+01	2,30E+01	0,000	-1,25E+02
Energy (net calorific value) [MJ]	1,94E+02	2,01E+02	3,94E+01	5,92E+01	2,31E+01	0,000	-1,28E+02
Energy ren. (net calorific value) [MJ]	5,48E+01	2,79E+01	2,40E-01	3,46E+01	1,48E-01	0,000	-8,12E+00
Water consumption [kg]	5,33E+01	3,78E+01	2,84E-01	2,82E+01	1,73E-01	0,000	-1,31E+01
Air pollution [m ³]	9,15E+02	2,05E+03	1,99E+02	2,15E+02	7,88E+01	0,000	-1,63E+03
Water pollution [m ³]	2,41E+00	1,81E+00	2,27E-01	8,59E-01	1,35E-01	0,000	-6,24E-01
Hazardous waste for disposal [kg]	3,27E-07	3,29E-07	8,06E-11	-4,44E-09	4,25E-11	0,000	2,17E-09
Disposed of non-hazardous waste [kg]	2,63E-01	2,56E-01	3,87E-03	4,27E-02	2,30E-03	0,000	-4,22E-02
Disposed of radioactive waste [kg]	9,80E-03	1,57E-03	6,25E-05	9,21E-03	3,85E-05	0,000	-1,08E-03

evaluated from CML 2001, August 2016

1.3.39 MRP-C 25/180

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408238	MRP-C 25/180	4	6,7473	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.]	9,351	12,530	2,062	1,970	1,183	0,000	-8,395
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,09E-11	1,81E-11	2,58E-13	4,19E-11	1,60E-13	0,000	-9,46E-12
Acidification Potential (AP) [kg SO ₂ -eq.]	2,69E-02	2,49E-02	1,37E-02	4,10E-03	2,69E-03	0,000	-1,85E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,17E-03	3,09E-03	1,93E-03	4,76E-04	6,38E-04	0,000	-1,97E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-4,16E-04	4,29E-03	-8,18E-04	2,93E-04	-9,44E-04	0,000	-3,24E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	3,66E-06	3,13E-06	2,70E-08	4,16E-07	1,62E-08	0,000	7,81E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,18E+02	1,39E+02	2,81E+01	2,33E+01	1,65E+01	0,000	-8,88E+01
Energy (net calorific value) [MJ]	1,38E+02	1,43E+02	2,82E+01	4,15E+01	1,65E+01	0,000	-9,12E+01
Energy ren. (net calorific value) [MJ]	4,15E+01	2,30E+01	1,72E-01	2,43E+01	1,06E-01	0,000	-6,00E+00
Water consumption [kg]	3,95E+01	2,83E+01	2,03E-01	1,97E+01	1,24E-01	0,000	-8,81E+00
Air pollution [m ³]	6,51E+02	1,45E+03	1,42E+02	1,51E+02	5,65E+01	0,000	-1,14E+03
Water pollution [m ³]	1,80E+00	1,39E+00	1,63E-01	6,02E-01	9,67E-02	0,000	-4,45E-01
Hazardous waste for disposal [kg]	2,74E-07	2,76E-07	5,78E-11	-3,11E-09	3,05E-11	0,000	1,44E-09
Disposed of non-hazardous waste [kg]	1,96E-01	1,85E-01	2,77E-03	2,99E-02	1,65E-03	0,000	-2,32E-02
Disposed of radioactive waste [kg]	6,84E-03	1,16E-03	4,48E-05	6,45E-03	2,76E-05	0,000	-8,37E-04

evaluated from CML 2001, August 2016

1.3.40 MRP-C 25/200

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408239	MRP-C 25/200	4	7,5780	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.]	11,274	14,514	2,316	2,181	1,329	0,000	-9,067
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	5,86E-11	2,33E-11	2,90E-13	4,64E-11	1,79E-13	0,000	-1,16E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,06E-02	2,81E-02	1,54E-02	4,54E-03	3,02E-03	0,000	-2,04E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	4,76E-03	3,51E-03	2,17E-03	5,28E-04	7,17E-04	0,000	-2,16E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,29E-04	4,91E-03	-9,18E-04	3,25E-04	-1,06E-03	0,000	-3,58E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,22E-06	4,63E-06	3,04E-08	4,61E-07	1,82E-08	0,000	7,68E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,45E+02	1,69E+02	3,15E+01	2,58E+01	1,85E+01	0,000	-1,00E+02
Energy (net calorific value) [MJ]	1,66E+02	1,73E+02	3,17E+01	4,59E+01	1,86E+01	0,000	-1,03E+02
Energy ren. (net calorific value) [MJ]	4,54E+01	2,55E+01	1,93E-01	2,69E+01	1,19E-01	0,000	-7,29E+00
Water consumption [kg]	4,62E+01	3,35E+01	2,28E-01	2,19E+01	1,39E-01	0,000	-9,53E+00
Air pollution [m ³]	7,45E+02	1,62E+03	1,60E+02	1,67E+02	6,34E+01	0,000	-1,27E+03
Water pollution [m ³]	2,09E+00	1,64E+00	1,83E-01	6,67E-01	1,09E-01	0,000	-5,11E-01
Hazardous waste for disposal [kg]	2,89E-07	2,91E-07	6,49E-11	-3,45E-09	3,42E-11	0,000	1,44E-09
Disposed of non-hazardous waste [kg]	2,23E-01	2,09E-01	3,11E-03	3,31E-02	1,85E-03	0,000	-2,42E-02
Disposed of radioactive waste [kg]	7,54E-03	1,41E-03	5,03E-05	7,15E-03	3,10E-05	0,000	-1,10E-03

evaluated from CML 2001, August 2016

1.3.41 MRP-C 25/219

IT- Number	Product name	Pcs. per Sales pack	Weight [kg]	Material
2408240	MRP-C 25/219	4	8,0958	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.]	12,106	15,630	2,474	2,341	1,420	0,000	-9,759
Ozone Depletion Potential (ODP, catalytic) [kg R11-eq.]	6,30E-11	2,50E-11	3,10E-13	4,98E-11	1,91E-13	0,000	-1,23E-11
Acidification Potential (AP) [kg SO ₂ -eq.]	3,27E-02	3,01E-02	1,65E-02	4,87E-03	3,23E-03	0,000	-2,19E-02
Eutrophication Potential (EP) [kg (PO ₄) ³⁻ -eq.]	5,07E-03	3,74E-03	2,31E-03	5,66E-04	7,66E-04	0,000	-2,31E-03
Photochemical Oxidant Potential (POCP) [kg Ethene-eq.]	-3,40E-04	5,27E-03	-9,81E-04	3,48E-04	-1,13E-03	0,000	-3,84E-03
Abiotic Depletion Potential non-Fossil Resources (ADPE) [kg Sb-eq.]	5,63E-06	5,00E-06	3,25E-08	4,95E-07	1,94E-08	0,000	8,29E-08
Abiotic Depletion Potential Fossil Fuels (ADPF) [MJ]	1,56E+02	1,82E+02	3,37E+01	2,76E+01	1,98E+01	0,000	-1,07E+02
Energy (net calorific value) [MJ]	1,79E+02	1,86E+02	3,38E+01	4,93E+01	1,98E+01	0,000	-1,10E+02
Energy ren. (net calorific value) [MJ]	4,78E+01	2,64E+01	2,07E-01	2,88E+01	1,28E-01	0,000	-7,77E+00
Water consumption [kg]	4,91E+01	3,56E+01	2,44E-01	2,35E+01	1,48E-01	0,000	-1,03E+01
Air pollution [m ³]	7,97E+02	1,74E+03	1,71E+02	1,79E+02	6,77E+01	0,000	-1,36E+03
Water pollution [m ³]	2,21E+00	1,73E+00	1,95E-01	7,15E-01	1,16E-01	0,000	-5,46E-01
Hazardous waste for disposal [kg]	2,97E-07	2,99E-07	6,93E-11	-3,70E-09	3,65E-11	0,000	1,56E-09
Disposed of non-hazardous waste [kg]	2,37E-01	2,23E-01	3,33E-03	3,56E-02	1,98E-03	0,000	-2,72E-02
Disposed of radioactive waste [kg]	8,09E-03	1,50E-03	5,38E-05	7,67E-03	3,31E-05	0,000	-1,17E-03

evaluated from CML 2001, August 2016