



**Capri UNICAP - Plastic Industrial
Cable Glands**

Eaton Product	UNICAP PG11 N°06 PA GR + ASS. LOCKNUT (CAP451112)
Description of the product	The Eaton's Capri UNICAP is a versatile plastic cable gland for use in various industrial and residential applications with non-armored round cables. It features an extended operating temperature range of -20 °C to +100 °C and is rated to IP64 for ultimate protection from dust and water. It is designed for strict adherence to global specifications meeting North American requirements. Available in ISO and PG threads and conforming to EN62444, this gland is available as stand-alone or kitted with relevant accessories.
Homogeneous Environmental Families Covered	The PEP covers Cable Glands of various sizes with range of cable diameters from 3.0mm to 44 mm as mentioned below: CAP451112,CAP450702,CAP451202,CAP450712,CAP450772,CAP451212,CAP451272, CAP450902,CAP450912,CAP450972,CAP451102,CAP451602,CAP451172,CAP451302, CAP451362,CAP451612,CAP451672,CAP452002,CAP451312,CAP451372,CAP451702, CAP452012,CAP452072,CAP451712,CAP451772,CAP452102,CAP452502,CAP452512, CAP452572,CAP452112,CAP452172,CAP452902,CAP453202,CAP452912,CAP452972, CAP453212,CAP453272,CAP453602,CAP454002,CAP454012,CAP454072,CAP453612, CAP453672,CAP454202,CAP454802,CAP455002,CAP454212,CAP454272,CAP454812, CAP454872,CAP456302,CAP455012,CAP455072,CAP456312,CAP456372
Functional unit	To protect the cable entry in electrical enclosures and equipment from ingress of water and dust for lifetime of 20 years. Product shall conform to EN 62444 standard.
Company information	COOPER CAPRI SAS 36-40 Rue des Fontenils, 41600 Nouan-le-Fuzelier, France Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	11.40 g (includes packaging)		
Category PEP Material	Materials	Mass (g)	Percentage (%)
Plastics	Polyamide 6	7.54E-03	66.14 %
Others	Cardboard	1.83E-03	16.05 %
Plastics	Polyamide 6.6 30% GF	1.38E-03	12.11 %
Plastics	Thermoplastic Elastomer	6.50E-04	5.70 %
Total		1.14E-02	100 %

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) without any exemption and the product does not contain any Substance of Very High Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Additional Environmental Information

Manufacturing	The mentioned products are manufactured at direct source supplier in Turkey and then shipped to Eaton facility in France. These facilities are holding management system certifications according to ISO 14001 standard.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	Product needs standard tools which do not require any additional energy source and no waste other than the obsolete product packaging is generated during this step.
Use	Product do not consume any energy or resources during useful life.
End of life	Product has recyclability rate of 1.5% if it is directly shredded & 95 % if it gets properly dismantled prior to shredding. These rates are calculated as per method described in IEC/TR 62635.

Environmental Impacts

The calculation of environmental impacts is the result of a Product Life Cycle Analysis in accordance with ISO 14040/44, covering the entire product lifecycle, i.e. "from cradle to grave" including the following life cycle phases: production, distribution, installation, use and end of life.

System modelling was carried out using the commercial LCA software EIME v5.9.4 with database version CODDE-2022-01.

Manufacturing Phase	The product is manufactured at direct source supplier from Turkey. The packed product is then shipped to Eaton facility Eaton Nouan-Le-Fuzelier, France plant through 2734 km by lorry. <u>Energy model used:</u> Europe
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	Product installed in Europe. Only treatment of packaging waste is considered in this phase. <u>Energy model used:</u> Europe
Use Phase	<u>Reference lifetime:</u> 20 Years (assumed) <u>Usage profile:</u> No energy consumption in use phase of the product. Product do not need any maintenance or replacement during useful life.
End of life Phase	Product used in Europe has followed WEEE directive for product disposal. <u>Energy model used:</u> Europe

Mandatory Environmental Impact Indicators

Phases	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Global warming (GWP100)	kg CO ₂ equivalent	9.99E-02	9.51E-02	2.69E-03	2.29E-04	0.00E+00	1.94E-03
Ozone depletion (ODP)	kg CFC-11 equivalent	8.54E-10	7.73E-10	5.44E-12	4.64E-13	0.00E+00	7.46E-11
Acidification of soil and water	kg SO ₂ equivalent	2.94E-04	2.78E-04	1.21E-05	1.08E-06	0.00E+00	2.38E-06
Water eutrophication (EP)	kg PO ₄ ³⁻ equivalent.	7.15E-05	6.76E-05	2.77E-06	2.51E-07	0.00E+00	8.07E-07
Photochemical Ozone formation (POCP)	kg C ₂ H ₄ equivalent.	2.36E-05	2.24E-05	8.58E-07	7.80E-08	0.00E+00	2.60E-07
Abiotic depletion (elements) (ADPe)	kg Sb equivalent	4.95E-07	4.95E-07	1.08E-10	9.15E-12	0.00E+00	2.24E-11
Abiotic depletion (fossil fuels) (ADP_f)	MJ	6.77E-01	6.26E-01	3.78E-02	3.21E-03	0.00E+00	9.15E-03
Water pollution (WP)	m ³	1.81E+00	1.22E+00	4.42E-01	3.76E-02	0.00E+00	1.12E-01
Air pollution (AP)	m ³	4.31E+00	4.09E+00	1.10E-01	1.06E-02	0.00E+00	1.00E-01

Additional Inventory Flow Indicators

Phases	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	1.86E-02	1.85E-02	5.06E-05	4.34E-06	0.00E+00	1.25E-05
Use of renewable primary energy resources used as raw materials	MJ	5.93E-03	5.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.45E-02	2.44E-02	5.06E-05	4.34E-06	0.00E+00	1.25E-05
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	5.24E-01	4.71E-01	3.79E-02	3.23E-03	0.00E+00	1.19E-02
Use of non-renewable primary energy resources used as raw materials	MJ	2.93E-01	2.93E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	8.17E-01	7.64E-01	3.79E-02	3.23E-03	0.00E+00	1.19E-02
Use of secondary materials	kg	1.50E-03	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m ³	3.00E-02	3.00E-02	2.40E-07	2.05E-08	0.00E+00	1.51E-06
Hazardous waste disposed of	kg	1.94E-02	3.67E-04	0.00E+00	6.64E-10	0.00E+00	1.90E-02
Non-hazardous waste disposed of	kg	3.13E-02	3.11E-02	9.55E-05	1.11E-05	0.00E+00	3.74E-05
Radioactive waste disposed of	kg	2.04E-05	2.02E-05	6.80E-08	5.80E-09	0.00E+00	6.65E-08
Materials for recycling	kg	1.95E-03	0.00E+00	0.00E+00	1.81E-03	0.00E+00	1.44E-04
Materials for energy recovery	kg	1.83E-05	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	MJ	8.41E-01	7.88E-01	3.80E-02	3.23E-03	0.00E+00	1.19E-02

To evaluate the environmental impact of other products covered by this PEP, multiply the impact figures by

Factors for Manufacturing, Distribution, Installation, Use and End-of-Life Phase:

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
CAP451112 (Reference Product)	All Phases	1.00								
CAP450702	Manufacturing	0.40	0.37	0.43	0.40	0.42	0.45	0.40	0.38	0.40
	Distribution	0.39								
	Installation	0.51	0.59	0.49	0.51	0.49	0.50	0.49	0.49	0.50
	Use	1.00								
	End of Life	0.38								
CAP450712	Manufacturing	0.58	0.57	0.60	0.58	0.59	0.61	0.58	0.58	0.58
	Distribution	0.58								
	Installation	1.01								
	Use	1.00								
	End of Life	0.51	0.50	0.50	0.51	0.50	0.50	0.50	0.51	0.50
CAP450772	Manufacturing	0.66	0.65	0.68	0.67	0.67	0.69	0.66	0.66	0.66
	Distribution	0.66								
	Installation	1.55	1.87	1.48	1.57	1.49	1.44	1.48	1.48	1.54
	Use	1.00								
	End of Life	0.51	0.50	0.50	0.51	0.50	0.50	0.50	0.51	0.50
CAP450902	Manufacturing	0.61	0.59	0.63	0.61	0.62	0.64	0.61	0.60	0.61
	Distribution	0.61								
	Installation	0.64	0.65	0.63	0.64	0.63	0.61	0.63	0.64	0.64
	Use	1.00								
	End of Life	0.62	0.61	0.61	0.61	0.60	0.61	0.61	0.61	0.60
CAP450912	Manufacturing	0.81	0.79	0.83	0.82	0.82	0.84	0.81	0.80	0.81
	Distribution	0.79								
	Installation	0.99								
	Use	1.00								
	End of Life	0.77	0.75	0.76	0.76	0.75	0.75	0.75	0.76	0.75
CAP450972	Manufacturing	0.86	0.83	0.87	0.86	0.87	0.89	0.86	0.84	0.86
	Distribution	0.83								
	Installation	1.30	1.53	1.25	1.32	1.25	1.21	1.24	1.25	1.29
	Use	1.00								
	End of Life	0.77	0.75	0.76	0.76	0.75	0.75	0.75	0.76	0.75
CAP451102	Manufacturing	0.81	0.78	0.82	0.81	0.82	0.84	0.81	0.79	0.81
	Distribution	0.79								
	Installation	0.40	0.33	0.41	0.39	0.41	0.39	0.41	0.41	0.40

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
	Use	1.00								
	End of Life	0.88	0.86	0.86	0.87	0.86	0.86	0.86	0.87	0.86
CAP451172	Manufacturing	1.03	1.00	1.05	1.03	1.04	1.06	1.03	1.00	1.03
	Distribution	0.98								
	Installation	0.92	1.02	0.90	0.92	0.90	0.86	0.89	0.90	0.91
	Use	1.00								
	End of Life	1.03	1.00	1.01	1.02	1.00	1.00	1.00	1.01	1.00
CAP451202	Manufacturing	0.39	0.38	0.40	0.39	0.40	0.41	0.39	0.40	0.39
	Distribution	0.41								
	Installation	0.49	0.45	0.50	0.48	0.50	0.47	0.50	0.50	0.49
	Use	1.00								
CAP451212	End of Life	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	Manufacturing	0.58	0.57	0.60	0.59	0.60	0.61	0.59	0.58	0.58
	Distribution	0.59								
	Installation	0.99	0.99	0.99	0.99	1.00	0.99	0.99	0.99	0.99
	Use	1.00								
CAP451272	End of Life	0.52	0.51	0.51	0.52	0.51	0.51	0.51	0.52	0.51
	Manufacturing	0.58	0.57	0.60	0.58	0.59	0.61	0.58	0.58	0.58
	Distribution	0.58								
	Installation	0.99	1.13	0.97	1.00	0.97	0.94	0.96	0.97	0.99
	Use	1.00								
CAP451302	End of Life	0.52	0.51	0.51	0.52	0.51	0.51	0.51	0.52	0.51
	Manufacturing	1.00	0.97	1.02	1.01	1.02	1.04	1.01	0.98	1.01
	Distribution	0.96								
	Installation	0.71	0.75	0.71	0.72	0.71	0.68	0.70	0.71	0.71
	Use	1.00								
CAP451312	End of Life	1.05	1.01	1.02	1.03	1.01	1.01	1.01	1.03	1.01
	Manufacturing	1.27	1.23	1.29	1.27	1.28	1.31	1.28	1.23	1.27
	Distribution	1.20								
	Installation	0.99								
	Use	1.00								
CAP451362	End of Life	1.29	1.24	1.25	1.27	1.24	1.24	1.24	1.26	1.24
	Manufacturing	1.00	0.97	1.02	1.01	1.02	1.04	1.01	0.98	1.01
	Distribution	0.96								
	Installation	0.71	0.75	0.71	0.72	0.71	0.68	0.70	0.71	0.71
	Use	1.00								
	End of Life	1.05	1.01	1.02	1.03	1.01	1.01	1.01	1.03	1.01
	Manufacturing	1.25	1.22	1.28	1.26	1.27	1.29	1.26	1.22	1.26
	Distribution	1.19								

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
CAP451372	Installation	0.95	1.06	0.92	0.95	0.92	0.89	0.92	0.92	0.94
	Use	1.00								
	End of Life	1.29	1.24	1.25	1.27	1.24	1.24	1.24	1.26	1.24
CAP451602	Manufacturing	0.85	0.83	0.87	0.86	0.86	0.88	0.85	0.83	0.85
	Distribution	0.82								
	Installation	0.39	0.31	0.40	0.38	0.40	0.38	0.40	0.40	0.39
	Use	1.00								
	End of Life	0.93	0.90	0.91	0.92	0.90	0.91	0.91	0.92	0.90
CAP451612	Manufacturing	1.09	1.06	1.11	1.10	1.11	1.13	1.10	1.07	1.10
	Distribution	1.04								
	Installation	0.99								
	Use	1.00								
	End of Life	1.09	1.05	1.06	1.07	1.05	1.05	1.05	1.07	1.05
CAP451672	Manufacturing	1.07	1.04	1.09	1.07	1.08	1.11	1.07	1.04	1.07
	Distribution	1.02								
	Installation	0.87	0.97	0.86	0.88	0.86	0.83	0.85	0.86	0.87
	Use	1.00								
	End of Life	1.09	1.05	1.06	1.07	1.05	1.05	1.05	1.07	1.05
CAP451702	Manufacturing	1.27	1.23	1.29	1.27	1.28	1.31	1.27	1.23	1.27
	Distribution	1.20								
	Installation	0.81	0.89	0.80	0.82	0.80	0.77	0.80	0.80	0.81
	Use	1.00								
	End of Life	1.32	1.27	1.28	1.30	1.28	1.28	1.28	1.30	1.28
CAP451712	Manufacturing	1.61	1.56	1.63	1.61	1.63	1.65	1.62	1.56	1.62
	Distribution	1.51								
	Installation	1.25								
	Use	1.00								
	End of Life	1.62	1.56	1.57	1.60	1.56	1.57	1.56	1.59	1.56
CAP451772	Manufacturing	1.62	1.57	1.64	1.62	1.63	1.66	1.63	1.57	1.62
	Distribution	1.52								
	Installation	1.34	1.60	1.30	1.36	1.30	1.26	1.29	1.29	1.34
	Use	1.00								
	End of Life	1.62	1.56	1.57	1.60	1.56	1.57	1.56	1.59	1.56
CAP452002	Manufacturing	1.10	1.07	1.12	1.11	1.11	1.14	1.11	1.07	1.10
	Distribution	1.05								
	Installation	0.59								
	Use	1.00								
	End of Life	1.18	1.14	1.14	1.16	1.14	1.14	1.14	1.16	1.14
	Manufacturing	1.38	1.34	1.40	1.38	1.39	1.42	1.39	1.34	1.38

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
CAP452012	Distribution	1.30								
	Installation	1.00								
	Use	1.00								
	End of Life	1.41	1.36	1.37	1.39	1.36	1.36	1.36	1.38	1.36
CAP452072	Manufacturing	1.37	1.32	1.39	1.37	1.38	1.41	1.37	1.32	1.37
	Distribution	1.29								
	Installation	0.95	1.06	0.92	0.95	0.92	0.89	0.92	0.92	0.94
	Use	1.00								
	End of Life	1.41	1.36	1.37	1.39	1.36	1.36	1.36	1.38	1.36
CAP452102	Manufacturing	2.03	1.97	2.05	2.03	2.05	2.08	2.05	1.96	2.04
	Distribution	1.90								
	Installation	1.04	1.19	1.01	1.05	1.01	0.98	1.01	1.01	1.04
	Use	1.00								
	End of Life	2.15	2.07	2.08	2.12	2.07	2.07	2.07	2.11	2.07
CAP452112	Manufacturing	2.78	2.69	2.79	2.77	2.79	2.82	2.82	2.69	2.80
	Distribution	2.60								
	Installation	3.03								
	Use	1.00								
	End of Life	2.61	2.51	2.53	2.57	2.51	2.52	2.51	2.56	2.51
CAP452172	Manufacturing	2.53	2.45	2.55	2.53	2.54	2.57	2.57	2.45	2.55
	Distribution	2.36								
	Installation	1.66	2.03	1.60	1.70	1.60	1.55	1.59	1.59	1.66
	Use	1.00								
	End of Life	2.61	2.51	2.53	2.57	2.51	2.52	2.51	2.56	2.51
CAP452502	Manufacturing	2.12	2.05	2.14	2.12	2.14	2.17	2.15	2.05	2.13
	Distribution	1.98								
	Installation	0.89	0.98	0.87	0.89	0.87	0.84	0.86	0.87	0.88
	Use	1.00								
	End of Life	2.28	2.19	2.21	2.25	2.20	2.20	2.20	2.23	2.20
CAP452512	Manufacturing	2.60	2.52	2.62	2.60	2.61	2.64	2.64	2.51	2.62
	Distribution	2.43								
	Installation	2.02								
	Use	1.00								
	End of Life	2.61	2.51	2.52	2.57	2.51	2.51	2.51	2.55	2.51
CAP452572	Manufacturing	2.51	2.42	2.53	2.51	2.53	2.56	2.54	2.41	2.52
	Distribution	2.33								
	Installation	1.42	1.58	1.39	1.44	1.39	1.40	1.39	1.39	1.42
	Use	1.00								
	End of Life	2.66	2.51	2.53	2.59	2.51	2.52	2.51	2.58	2.52

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
CAP452902	Manufacturing	3.49	3.40	3.50	3.48	3.50	3.53	3.57	3.39	3.53
	Distribution	3.28								
	Installation	2.27	2.84	2.16	2.32	2.17	2.11	2.15	2.16	2.26
	Use	1.00								
	End of Life	3.64	3.49	3.52	3.58	3.50	3.51	3.50	3.56	3.50
CAP452912	Manufacturing	4.21	4.11	4.21	4.18	4.21	4.23	4.34	4.10	4.26
	Distribution	3.98								
	Installation	3.04								
	Use	1.00								
	End of Life	4.33	4.16	4.19	4.26	4.16	4.17	4.16	4.24	4.16
CAP452972	Manufacturing	4.02	3.92	4.02	3.99	4.02	4.04	4.13	3.91	4.06
	Distribution	3.79								
	Installation	1.97	2.44	1.88	2.01	1.88	1.83	1.87	1.88	1.96
	Use	1.00								
	End of Life	4.33	4.16	4.19	4.26	4.16	4.17	4.16	4.24	4.16
CAP453202	Manufacturing	3.74	3.64	3.74	3.72	3.74	3.77	3.83	3.63	3.78
	Distribution	3.52								
	Installation	1.93	2.38	1.84	1.97	1.84	1.79	1.83	1.84	1.92
	Use	1.00								
	End of Life	4.00	3.84	3.86	3.93	3.84	3.85	3.84	3.91	3.84
CAP453212	Manufacturing	4.48	4.37	4.47	4.44	4.48	4.49	4.62	4.36	4.53
	Distribution	4.25								
	Installation	3.09								
	Use	1.00								
	End of Life	4.65	4.46	4.49	4.57	4.47	4.47	4.47	4.55	4.47
CAP453272	Manufacturing	4.32	4.21	4.31	4.28	4.32	4.33	4.45	4.20	4.37
	Distribution	4.08								
	Installation	2.21	2.77	2.11	2.26	2.11	2.06	2.10	2.10	2.21
	Use	1.00								
	End of Life	4.65	4.46	4.49	4.57	4.47	4.47	4.47	4.55	4.47
CAP453602	Manufacturing	6.62	6.53	6.54	6.51	6.57	6.52	6.97	6.53	6.74
	Distribution	6.46								
	Installation	4.17	5.39	3.94	4.28	3.95	3.86	3.91	3.93	4.15
	Use	1.00								
	End of Life	7.24	6.94	6.99	7.12	6.95	6.96	6.95	7.08	6.95
CAP453612	Manufacturing	7.77	7.71	7.63	7.61	7.69	7.58	8.29	7.73	7.94
	Distribution	7.72								
	Installation	4.15								
	Use	1.00								


Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
	End of Life	8.75	8.39	8.45	8.61	8.40	8.42	8.40	8.56	8.40
CAP453672	Manufacturing	8.48	8.45	8.30	8.28	8.36	8.22	9.12	8.48	8.69
	Distribution	8.53								
	Installation	9.93	13.11	9.32	10.22	9.34	9.15	9.25	9.28	9.87
	Use	1.00								
	End of Life	8.75	8.39	8.45	8.61	8.40	8.42	8.40	8.56	8.40
CAP454002	Manufacturing	7.61	7.55	7.49	7.46	7.53	7.44	8.11	7.56	7.78
	Distribution	7.54								
	Installation	9.03	11.91	8.48	9.29	8.50	8.33	8.42	8.45	8.98
	Use	1.00								
	End of Life	7.70	7.38	7.43	7.57	7.39	7.40	7.39	7.53	7.39
CAP454012	Manufacturing	7.63	7.56	7.50	7.48	7.55	7.45	8.13	7.58	7.80
	Distribution	7.56								
	Installation	4.14								
	Use	1.00								
	End of Life	8.56	8.20	8.26	8.41	8.22	8.23	8.22	8.37	8.22
CAP454072	Manufacturing	8.19	8.15	8.03	8.00	8.09	7.96	8.78	8.17	8.38
	Distribution	8.19								
	Installation	8.73	11.50	8.20	8.98	8.22	8.05	8.13	8.17	8.68
	Use	1.00								
	End of Life	8.56	8.20	8.26	8.41	8.22	8.23	8.22	8.37	8.22
CAP454202	Manufacturing	8.36	8.33	8.19	8.17	8.26	8.11	8.98	8.36	8.57
	Distribution	8.39								
	Installation	8.98	11.84	8.43	9.24	8.45	8.28	8.37	8.40	8.93
	Use	1.00								
	End of Life	8.76	8.40	8.46	8.62	8.41	8.43	8.41	8.57	8.41
CAP454212	Manufacturing	9.38	9.41	9.14	9.12	9.23	9.01	10.20	9.46	9.65
	Distribution	9.60								
	Installation	8.36								
	Use	1.00								
	End of Life	10.25	9.82	9.89	10.07	9.84	9.85	9.84	10.02	9.83
CAP454272	Manufacturing	9.64	9.69	9.38	9.36	9.47	9.24	10.52	9.74	9.93
	Distribution	9.91								
	Installation	11.17	14.78	10.48	11.50	10.51	10.29	10.40	10.44	11.11
	Use	1.00								
	End of Life	10.25	9.82	9.89	10.07	9.84	9.85	9.84	10.02	9.83
CAP454802	Manufacturing	9.28	9.30	9.05	9.03	9.13	8.92	10.08	9.35	9.54
	Distribution	9.47								
	Installation	10.75	14.21	10.08	11.07	10.11	9.90	10.01	10.05	10.69

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
	Use	1.00								
	End of Life	9.78	9.37	9.44	9.61	9.39	9.40	9.39	9.56	9.39
CAP454812	Manufacturing	10.14	10.22	9.83	9.82	9.94	9.66	11.14	10.29	10.46
	Distribution	10.53								
	Installation	8.33								
	Use	1.00								
	End of Life	11.41	10.93	11.01	11.21	10.95	10.97	10.95	11.15	10.95
CAP454872	Manufacturing	10.33	10.43	10.01	10.00	10.12	9.82	11.38	10.51	10.67
	Distribution	10.77								
	Installation	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86
	Use	1.00								
	End of Life	11.41	10.93	11.01	11.21	10.95	10.97	10.95	11.15	10.95
CAP455002	Manufacturing	8.98	8.99	8.77	8.75	8.85	8.67	9.73	9.03	9.23
	Distribution	9.12								
	Installation	6.04	7.90	5.69	6.21	5.70	5.58	5.65	5.67	6.01
	Use	1.00								
	End of Life	10.21	9.78	9.85	10.03	9.80	9.81	9.80	9.98	9.80
CAP455012	Manufacturing	10.19	10.28	9.88	9.87	9.99	9.71	11.21	10.36	10.52
	Distribution	10.60								
	Installation	8.36								
	Use	1.00								
	End of Life	11.49	11.01	11.09	11.29	11.03	11.04	11.03	11.23	11.03
CAP455072	Manufacturing	10.34	10.45	10.02	10.01	10.13	9.84	11.40	10.53	10.69
	Distribution	10.79								
	Installation	10.35	13.67	9.71	10.65	9.73	9.53	9.63	9.67	10.29
	Use	1.00								
	End of Life	11.49	11.01	11.09	11.29	11.03	11.04	11.03	11.23	11.03
CAP456302	Manufacturing	9.85	9.92	9.57	9.56	9.67	9.42	10.79	9.98	10.16
	Distribution	10.18								
	Installation	6.42	8.41	6.04	6.60	6.06	5.93	6.00	6.02	6.39
	Use	1.00								
	End of Life	11.44	10.96	11.05	11.25	10.98	11.00	10.99	11.19	10.98
CAP456312	Manufacturing	11.38	11.58	10.95	10.95	11.10	10.69	12.72	11.70	11.81
	Distribution	12.14								
	Installation	8.36								
	Use	1.00								
	End of Life	13.41	12.84	12.94	13.18	12.87	12.89	12.87	13.10	12.86
	Manufacturing	13.57	14.09	12.83	12.86	13.09	12.34	15.73	14.28	14.25
	Distribution	15.30								

Part No	Phases	Global warming (Kg CO ₂ eq.)	Ozone depletion (kg CFC-11 eq.)	Acidification of soil and water (kg SO ₂ eq.)	Eutrophication (kg PO ₄ ³⁻ eq.)	Photochemical Ozone formation (kg ethylene eq.)	Depletion of abiotic resources-elements (kg Sb eq.)	Depletion of abiotic resources - fossil fuels (MJ)	Water pollution (m ³)	Air pollution (m ³)
CAP456372	Installation	30.47	40.64	28.46	31.46	28.53	29.23	28.31	28.30	30.22
	Use	1.00								
	End of Life	13.44	12.84	12.92	13.18	12.88	12.89	12.86	13.12	12.90

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Independent verification of the declaration and data, in compliance with ISO 14025: 2010			
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The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025: 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			