



Product Environmental Profile (PEP)
of 630 kVA Distribution transformer Sphera DT 630/20 family
produced in Mefta Green Transfo Energy Poland Sp. z o.o.
43-190 Mikołów, ul. Żwirki i Wigury 52, Polska



Registration number: MGR-06301-V01.01-EN	Drafting rules: PCR-ed4-EN-2021 09 06
Verifier accreditation number: VH32	Information and reference documents: www.pep-ecopassport.org
Date of issue: 11-2024	Validity period: 5 years
Independent verification of the declaration and data in compliance with ISO 14025: 2006	
Internal: <input type="checkbox"/>	External: <input checked="" type="checkbox"/> VH32
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDomain) PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500:2022 The components of the present PEP may not be compared with components from any other program. Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"	

In accordance with ISO 14025, EN 50693 and PEP ecopassport PCR Ed 4

PEP registration number: **MGR-06301-V01.01-EN**

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Environmental Product Declaration

of multiple products, based on a representative product



In accordance with **ISO 14025:2006**
and **EN 15804:2012+A2/AC:2021**

for

Zipner 90, 110, 150

from

Nerli Gruppen Poland sp. z o.o.;



Programme:
Programme operator:
EPD registration number:
Publication date:
Valid until:

The International EPD® System, www.environdec.com

EPD International AB

EPD-IES-0017173

2024-10-16

2029-10-15

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Product Environmental Profile (PEP)
of 250 kVA Distribution transformer Sphera DT 250/20 family
produced in Mefta Green Transfo Energy Poland Sp. z o.o.
43-190 Mikołów, ul. Żwirki i Wigury 52, Polska



Registration number: MGR-02501-V01.01-EN	Drafting rules: PCR-ed4-EN-2021 09 06
Verifier accreditation number: VH32	Information and reference documents: www.pep-ecopassport.org
Date of issue: 11-2024	Validity period: 5 years
Independent verification of the declaration and data in compliance with ISO 14025: 2006	
Internal: <input type="checkbox"/>	External: <input checked="" type="checkbox"/> VH32
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDomain) PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500:2022 The components of the present PEP may not be compared with components from any other program. Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"	

In accordance with ISO 14025, EN 50693 and PEP ecopassport PCR Ed 4

PEP registration number: **MGR-02501-V01.01-EN**

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Hitachi Energy Poland Sp. z o.o, ul. Żegańska 1,
04-713 Warszawa, Poland



ENVIRONMENTAL PRODUCT DECLARATION

Product Name

Mineral and vegetable oil immersed transformers
GST001/1057N TR 630kVA KNAN 20/0,42kV matricola 110090
GST001/1057 TR 630kVA ONAN 20/0,42kV matricola 110089

Site Plant

Hitachi Energy Poland sp z
o.o.; Łódź, Aleksandrowska
67/93, Poland

GST001/1056N TR 400kVA KNAN 20/0,42kV matricola 110082
GST001/1056 TR 400kVA ONAN 20/0,42kV matricola 110081
in accordance with EN 50693:2019; ISO 14025

Program Operator	EPDItaly, www.epditaly.it
Publisher	EPDItaly
Declaration Number	EPDITALY0491
Registration Number	IT23/99002598
Issue Date	2023-01-16
Valid to	2028-01-15



EPD Hitachi MDT Transformers	04.01.2023	Ver. 7	Page 1 / 19
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Environmental Product Declaration

in accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **HushFree.XM (HUS-AP-006-EUR)**

from **Fabryka Mebli Biurowych Mikomax Sp. z o.o.**
ul. Dostawcza 4 | 93-231 | Łódź | Polska



Programme: The International EPD® System, www.environdec.com
 Programme operator: EPD International AB
 EPD registration number: EPD-IES-0016836
 Publication date: 2024-10-08
 Valid until: 2029-10-08

An EPD should provide current information and may be updated if conditions change. Its validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm; Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com
Version of standard	ISO 14025 and EN 15804:2012+ A2:2019/AC:2021

Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR):

PCR 2019:14 Construction Products, version 1.3.4
 PCR 2019:14-c-PCR-021 c-PCR-021 Furniture (c-PCR to PCR 2019:14) (Adopted from EPD Norway): NPCR 026 PCR - Part B for Furniture; version 2.0; Issue date: 29.09.2022
 EN15804 reference package based on EF 3.1 was used for the calculations
 PCR review was conducted by: The Technical Committee of the International EPD® System See www.environdec.com for a list of members.
 Chair: Claudia A. Peña, University of Concepción, Chile.
 The review panel may be contacted via the Secretariat www.environdec.com/contact - Contact via info@environdec.com

Life Cycle Assessment (LCA)

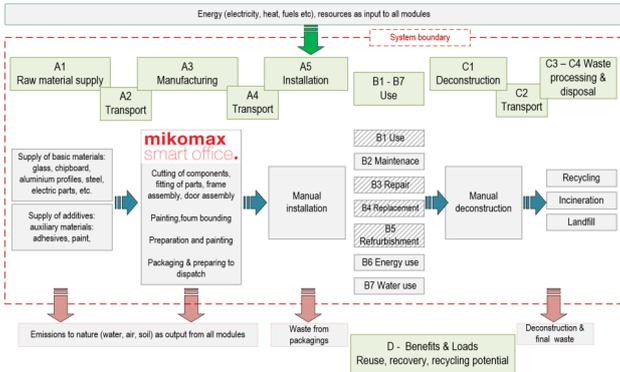
LCA accountability:
 Bogusz Staniszek
 Senior Certification Specialist
 Mikomax Smart Office Centrala / Headquarters
 t: +48 697 081 675
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Technical support

LCA Practitioner: Carbonium Expert Team; www.carbonium.pl
 CRMP Wojciech Piskorski, ul. Ledóchowskich 10, 33-101 Tarnów, Poland
 Wojciech Piskorski; Mob: +48 601 473 692; Wojciech.piskorski@carbonium.pl
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Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
 EPD verification by individual verifier
 Third-party verifier:
 Joanna Zhuravlova, Bureau Veritas Polska
 Approved by: The International EPD® System
 Procedure for follow-up of data during EPD validity involves third party verifier:



LCA information:

Table 2 LCA basic information

Name of the basic LCA report	LCA Report LCA report with annex by Mikomax, Łódź, PL
Intended application	The main objective of the report is to provide information on the environmental performance of Mikomax products produced, and to EPD
Reasons for carrying out the study	The report was created due to the requests of customers, to know the indicators of the environmental performance of the products. The customers, recipients of the product product.
Intended audience	This report is a document containing information on the environmental performance of the products, which has been presented above. The report is intended for internal and external use.
Comparative assertions	LCA report is not intended to be used for comparative purposes.
Scope of presentation of the report and results:	The results of the calculations are in the form of EPD declarations. The organization intends to publish the report, due to its content on product information, which can be considered by its Organizational partners.
Product description	The LCA Report describes the environmental performance of the products, as applied. These products are differentiated by their construction. HushFree.XM series are free-standing spaces, non-permanently connected



Table 5. Results of calculation – product HushFree.XM

HushFree.XM (HUS-AP-006-EUR)														
Impact category	Unit	A1-A3	A4	A5	B1	B2	B3-B5	B6	B7	C1	C2	C3	C4	D
Climate change	kg CO2 eq	2,21E+03	3,30E+02	2,10E+02	0,00E+00	2,14E+01	ND	2,13E+02	0,00E+00	1,95E+00	3,74E+00	0,00E+00	2,27E+02	-2,28E+02
Climate change - Fossil	kg CO2 eq	2,51E+03	3,30E+02	1,03E+00	0,00E+00	2,13E+01	ND	2,12E+02	0,00E+00	1,94E+00	3,74E+00	0,00E+00	6,49E+01	-2,27E+02
Climate change - Biogenic	kg CO2 eq	-3,04E+02	5,88E-02	2,09E+02	0,00E+00	5,22E-02	ND	5,19E-01	0,00E+00	4,78E-03	6,92E-04	0,00E+00	1,62E+02	-8,31E-01
Climate change - Land use and LU change	kg CO2 eq	4,82E+00	1,35E-01	1,78E-04	0,00E+00	6,50E-02	ND	6,46E-01	0,00E+00	5,92E-03	1,27E-03	0,00E+00	1,36E-03	-2,81E-01
Ozone depletion	kg CFC11 eq	3,48E-05	4,98E-06	2,09E-08	0,00E+00	3,93E-07	ND	3,91E-06	0,00E+00	3,58E-08	7,52E-08	0,00E+00	1,16E-07	-1,80E-06
Acidification	mol H+ eq	1,79E+01	1,37E+00	9,94E-03	0,00E+00	1,25E-01	ND	1,25E+00	0,00E+00	1,14E-02	1,68E-02	0,00E+00	6,60E-02	-1,61E+00
Eutrophication, freshwater	kg P eq	9,62E-01	2,63E-02	4,27E-04	0,00E+00	1,99E-02	ND	1,97E-01	0,00E+00	1,81E-03	2,57E-04	0,00E+00	1,46E-03	-1,11E-01
Eutrophication, marine	kg N eq	3,07E+00	4,94E-01	2,20E-02	0,00E+00	1,97E-02	ND	1,96E-01	0,00E+00	1,79E-03	6,60E-03	0,00E+00	4,13E-01	-2,27E-01
Eutrophication, terrestrial	mol N eq	3,17E+01	5,39E+00	4,62E-02	0,00E+00	1,76E-01	ND	1,75E+00	0,00E+00	1,61E-02	7,20E-02	0,00E+00	3,43E-01	-2,29E+00
Photochemical ozone formation	kg NMVOC eq	1,11E+01	1,92E+00	1,65E-02	0,00E+00	5,81E-02	ND	5,77E-01	0,00E+00	5,29E-03	2,58E-02	0,00E+00	9,21E-02	-7,05E-01
Resource use, minerals and metals /2	kg Sb eq	6,27E-02	1,02E-03	1,91E-06	0,00E+00	2,86E-04	ND	2,85E-03	0,00E+00	2,61E-05	1,16E-05	0,00E+00	1,01E-05	-1,44E-03
Resource use, fossils /2	MJ, net calorific value	1,79E+04	4,62E+02	1,76E+00	0,00E+00	3,56E+02	ND	3,54E+03	0,00E+00	3,25E+01	4,45E+00	0,00E+00	7,64E+00	-2,18E+03
Water use /2	m 3 world eq. deprived	5,29E+02	2,25E+01	0,00E+00	0,00E+00	6,15E+00	ND	6,12E+01	0,00E+00	5,61E-01	2,34E-01	0,00E+00	0,00E+00	-3,01E+01
Climate change GHG_GWP	kg CO2 eq	2,58E+03	3,29E+02	1,14E+01	0,00E+00	2,05E+01	ND	2,04E+02	0,00E+00	1,87E+00	3,74E+00	0,00E+00	6,99E+01	-2,12E+02
Particulate matter	disease inc.	1,73E-04	2,91E-05	1,29E-07	0,00E+00	4,47E-07	ND	4,45E-06	0,00E+00	4,08E-08	3,63E-07	0,00E+00	5,57E-07	-2,33E-05
Ionising radiation /1	kBq U235 eq	1,32E+02	4,06E+00	3,40E-02	0,00E+00	1,37E+01	ND	1,36E+02	0,00E+00	1,25E+00	7,08E-02	0,00E+00	1,35E-01	-4,94E-01
Ecotoxicity, freshwater /2	CTUe	2,32E+04	1,22E+03	3,94E-01	0,00E+00	8,86E+01	ND	8,81E+02	0,00E+00	8,08E+00	1,39E+01	0,00E+00	7,82E+02	-8,44E+02
Human toxicity, cancer /2	CTUh	1,55E-05	1,69E-06	1,27E-08	0,00E+00	5,00E-08	ND	4,97E-07	0,00E+00	4,56E-09	2,53E-08	0,00E+00	4,70E-08	-5,80E-07
Human toxicity, non-cancer /2	CTUh	4,65E-05	2,96E-06	9,39E-08	0,00E+00	3,47E-07	ND	3,45E-06	0,00E+00	3,18E-08	3,72E-08	0,00E+00	2,91E-07	-2,51E-06
Land use	dimensionless	2,49E+04	3,59E+03	2,17E+01	0,00E+00	1,10E+02	ND	1,10E+03	0,00E+00	1,01E+01	4,00E+01	0,00E+00	6,53E+01	-1,45E+03

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **weber.floor 4020**

from **Saint-Gobain Construction Product Polska Sp. z o.o.**



Programme: The International EPD® System, www.environdec.com
 Programme operator: EPD International AB
 EPD registration number: S-P-13003
 Publication date: 2024-03-20
 Valid until: 2029-03-19

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Environmental Product Declaration

EPD of multiple products, based on worst-case results in accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **HushPhone (HUS-BX-218), HushHybrid (HUS-BX-220)**

from **Fabryka Mebli Biurowych Mikomax Sp. z o.o.**
 ul. Dostawcza 4 | 93-231 | Łódź | Polska



Programme: The International EPD® System, www.environdec.com
 Programme operator: EPD International AB
 EPD registration number: EPD-IES-0015152
 Publication date: 2024-06-26
 Valid until: 2029-06-24

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **HushAccess.L (HUS-BX-221)**

from **Fabryka Mebli Biurowych Mikomax Sp. z o.o.**
 ul. Dostawcza 4 | 93-231 | Łódź | Polska



Programme: The International EPD® System, www.environdec.com
 Programme operator: EPD International AB
 EPD registration number: EPD-IES-0015153
 Publication date: 2024-06-26
 Valid until: 2029-06-24

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Corotop

Corotop S.A.



ENVIRONMENTAL PRODUCT DECLARATION

Product Name Alpha brand air, wind, vapour and water barrier membranes for roof and façade application: Alpha Basis Vindspaeerre Alpha Pro Vindspaeerre Alpha Pro ML 140 Alpha Pro MH 230	Site Plants: Corotop S.A. 46-053 Chrzęstowice ul. Ozimska 2A, Poland Corotop S.A. 46-040 Ozimek ul. Kolejowa 1, Poland
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in accordance with **ISO 14025 and EN 15804:2012+A2:2019/AC:2021**

Program Operator	EPDItaly, www.epditaly.it
Publisher	EPDItaly
Declaration Number	EPD-COROTOP-Membranes-Alpha-001
Registration Number	EPDITALY1125
Issue Date	2023-12-19
Valid to	2028-12-18



Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **C80 – venetian blinds**

from **Nerli Gruppen Poland sp. z o.o.;**
Kościerzycze 130; 49-314 Piszczowice; PL



Programme: The International EPD® System, www.environdec.com
Programme operator: EPD International AB
EPD registration number: EPD-IES-0017179
Publication date: 2024-10-16
Valid until: 2029-10-15

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **Markisolette - awning blind**

from **Nerli Gruppen Poland sp. z o.o.;**
Kościerzycze 130; 49-314 Piszczowice; PL



Programme: The International EPD® System, www.environdec.com
Programme operator: EPD International AB
EPD registration number: EPD-IES-0017178
Publication date: 2024-10-16
Valid until: 2029-10-15

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **weber.floor 4310**

from **Saint-Gobain Construction Product Polska Sp. z o.o.**



Programme: The International EPD® System, www.environdec.com
Programme operator: EPD International AB
EPD registration number: S-P-13012
Publication date: 2024-03-20
Valid until: 2029-03-19

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Environmental Product Declaration



in accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **Silekol® 229 - urea-formaldehyde resin for glass veil**

from **Silekol Spółka z o.o.**
ul. Mostowa 30K | 47-220 | Kędzierzyn-Koźle | Poland



Programme: The International EPD® System, www.environdec.com
Programme operator: EPD International AB
EPD registration number: EPD-IES-0023089
Publication date: 2025-06-25
Valid until: 2030-06-25

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



Environmental Product Declaration

of multiple products based on a representative product in accordance with ISO 14025:2006 and EN 15804:2012+A2/AC:2021

for **Formaldehyde-phenol resin for laminates (type Resil 3XXX)**

from **Silekol Spółka z o.o.**
ul. Mostowa 30K | 47-220 | Kędzierzyn-Koźle | Poland



Programme: The International EPD® System, www.environdec.com
 Programme operator: EPD International AB
 EPD registration number: EPD-IES-0023088
 Publication date: 2025-06-25
 Valid until: 2030-06-25

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com
Version of standard	ISO 14025 and EN 15804:2012+ A2:2019/AC:2021

Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

Product Category Rules (PCR): PCR 2021:03 BASIC CHEMICALS, version 1.1.5, 2025-04-11; valid until 2026-05-03

Product Category Rules (PCR):

EN15804 reference package based on EF 3.1 was used for the calculations
 PCR review was conducted by: The Technical Committee of the International EPD® System. See www.environdec.com for a list of members.
 PCR moderator Emre Can Çorumlu (freelancer), emrecanorumlu@gmail.com
 PCR Committee: Semtrio Sustainability Consulting, Spin360 Srl
 The review panel may be contacted via the Secretariat www.environdec.com/contact - Contact via info@environdec.com

Life Cycle Assessment (LCA)

LCA accountability:

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 mob. +48 795 530 055
 e-mail: karolina.rosiak@silekol.pl
 www: www.silekol.pl

Technical support

LCA Practitioner: Carbonium Expert Team; www.carbonium.pl
 CRMP Wojciech Piskorski, ul. Ledóchowskich 10, 33-101 Tarnów, Poland
 Wojciech Piskorski; Mob: +48 601 473 692; Wojciech.piskorski@carbonium.pl
 Ryszard Ścigała Mob: +48 883 200 510; ryszard.scigala@carbonium.pl

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

EPD verification by individual verifier

Third-party verifier:

Joanna Zhuravlova, Bureau Veritas Polska

Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes No

Corotop

Corotop S.A.



ENVIRONMENTAL PRODUCT DECLARATION

Product Name	Site Plants:
COROTOP® air, wind, vapour and water barrier membranes for roof, wall and façade application:	
Corotop® Green Strong	Corotop S.A. 46-053 Chrzastowice ul. Ozimska 2A, Poland
Corotop® Mono	Corotop® Active Control
Corotop® Open	Corotop® Metallic
Corotop® Extra Protect	Corotop® Variant
Corotop® X-tream^2	Corotop® Thermo Control
	Corotop® Pure
	Corotop S.A. 46-040 Ozimek ul. Kolejowa 1, Poland

in accordance with ISO 14025 and EN 15804:2012+A2:2019/AC:2021

Program Operator	EPDItaly, www.epditaly.it
Publisher	EPDItaly
Declaration Number	EPD-COROTOP-Membranes-Part-B-001
Registration Number	EPDITALY1124
Issue Date	2023-12-19
Valid to	2028-12-18



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Kapitał wpłacony: 733 073 zł
Sąd Rejonowy w Opolu,
VIII Wydział Gospodarczy

KRS 0000320802
NIP 754-10-13-532
Regon 530993551
Konto 30 1150 1194 0000 0000 0868 5382

Zarząd:
Prezes Zarządu: Piotr Górski

Corotop

Corotop S.A.



ENVIRONMENTAL PRODUCT DECLARATION

Product Name	Site Plants:
Alpha brand air, wind, vapour and water barrier membranes for roof and façade application:	
Alpha Basis Vindspaeerre	Corotop S.A. 46-053 Chrzastowice ul. Ozimska 2A, Poland
Alpha Pro Vindspaeerre	Corotop S.A. 46-040 Ozimek ul. Kolejowa 1, Poland
Alpha Pro ML 140	
Alpha Pro MH 230	

in accordance with ISO 14025 and EN 15804:2012+A2:2019/AC:2021

Program Operator	EPDItaly, www.epditaly.it
Publisher	EPDItaly
Declaration Number	EPD-COROTOP-Membranes-Alpha-001
Registration Number	EPDITALY1125
Issue Date	2023-12-19
Valid to	2028-12-18



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Kapitał wpłacony: 733 073 zł
Sąd Rejonowy w Opolu,
VIII Wydział Gospodarczy

KRS 0000320802
NIP 754-10-13-532
Regon 530993551
Konto 30 1150 1194 0000 0000 0868 5382

Zarząd:
Prezes Zarządu: Piotr Górski