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SteadyGrid Welded Polypropylene Geogrids

Type III Environmental Product Declaration No. EPD-P 01.10.2026



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**Basic information**

This declaration is the Type III Environmental Product Declaration (EPD) based on EN 15804+A2 and verified according to ISO 14025 by an external auditor. It contains the information on the impacts of the declared construction materials on the environment and their aspects verified by the independent body according to ISO 14025. Basically, comparison or evaluation of EPD data is possible only if all the compared data were created according to EN 15804+A2.

Life cycle assessment (LCA): A1-A3,A4,A5, C1-C4 and D modules in accordance with EN 15804 (Cradle-to-Gate with options). The year of preparing the EPD: 2026

Product standards: EN 13249:2016, EN 13250:2016, EN 13251:2016, EN 13253:2016, EN 13254:2016, EN 13255:2016, EN 13257:2016, EN 13265:2016

Service Life: 100 years.

PCR: EN 15804:2012+A2:2019/AC:2021 serves as core PCR for this EPD

Declared unit: 1 kg.

Reasons for performing LCA: B2B

Representativeness: China, Europe

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EPD Owner

ViaCon AB is the owner of this Environmental Product Declaration and markets the declared products under the SteadyGrid brand. ViaCon AB is incorporated in Sweden (Box 2064, Vallgatan 21, SE-531 02 Lidköping).

Scope of this EPD

This Environmental Product Declaration (EPD) covers welded polypropylene geogrids marketed by ViaCon AB under the SteadyGrid brand. The following commercial variants are covered by this EPD:

- SteadyGrid PP 30/30
- SteadyGrid PP 40/40
- SteadyGrid PP 50/50
- SteadyGrid PP 60/60
- SteadyGrid PP 80/80

The environmental profile is based on primary manufacturing data collected from the production facility for the reference period. Manufacturing takes place in China. The LCA dataset reflects the actual raw-material inputs, production processes, energy consumption, process losses, packaging and transport routes of this facility, as documented in the underlying LCA study.

This declaration is valid exclusively for products manufactured using the production system, material formulation and supply chain documented in the LCA study.

This EPD follows a cradle-to-gate system boundary (Modules A1–A3), transport of the finished product from the manufacturing facility in China to the ViaCon European distribution network (Module A4), construction installation and packaging end-of-life (Module A5), end-of-life Modules C1–C4 and Module D, in accordance with EN 15804+A2.

ViaCon AB is the owner of this EPD and is responsible for its correct application in the market.

Product description

SteadyGrid Welded Polypropylene Geogrids

SteadyGrid geogrids are manufactured from polypropylene strip material joined at the intersections by ultrasonic welding. The product contains mineral additives and UV stabilisation. The finished geogrid is wound onto cardboard cores and protected with polyethylene (PE) film for storage and transport. SteadyGrid PP variants are intended for reinforcement applications. Product-specific mechanical characteristics, dimensions and declared performance are provided in the corresponding ViaCon technical documentation and DoP.

The products are intended for use in the following application areas:

- Transportation infrastructure, including roads and other trafficked areas (excluding asphalt inclusion) and railway construction;
- Earthworks, foundations and retaining structures;
- Erosion-control works, including coastal protection and bank revetments;
- Reservoirs and dams, canals, solid-waste disposal and liquid-waste containment projects, as applicable to the relevant product variant and harmonised standard.

The products primarily fulfil the following technical functions in construction:

- Reinforcement – providing tensile restraint within granular and soil structures and improving load distribution and structural performance;
- Stabilisation of aggregate and reinforced soil structures is an intended application of the reinforcement function.

Product material declaration

The declared unit is 1 kg of finished SteadyGrid geogrid. The product consists of polypropylene (PP) with mineral additives and processing aids. No recycled polymer content is present.

Approximate composition based on recorded raw-material consumption:

Material group	Mass share (%)
Virgin polypropylene (PP)	96
Additives and fillers	4
Total	100.00

Packaging consists of cardboard cores and end caps, polyethylene protective film and minor ancillary packaging, totalling approximately 0.074 kg per kg of product. Packaging is included in the LCA but excluded from the declared product mass.

Substances of Very High Concern (SVHC) — REACH

The product does not contain REACH SVHC substances above 0.1% by mass.

Product life cycle

Raw material supply and transport (A1, A2)

Modules A1 and A2 cover the extraction, processing and delivery of raw materials to the contract manufacturing facility in China. The principal input is polypropylene granulate. Mineral additives, processing aids and packaging materials are also included. Transport distances are based on supply chain data supplemented by ecoinvent 3.9.1 background datasets.

Manufacturing (A3)

Manufacturing begins with feeding polypropylene granules and mineral filler to the extrusion process. The formulation is melted and extruded into continuous PP strips with the geometry required for the SteadyGrid product. Extrusion electricity and any other directly consumed utilities are included in Module A3.

The extruded strips are transferred to intermediate storage and conditioned for approximately one day. They are then arranged in the required longitudinal and transverse pattern and joined at the intersections by ultrasonic welding, forming the welded geogrid structure. The welding process is electrically powered and is included in Module A3.

Following welding, the geogrid is inspected, wound onto cardboard cores and protected with polyethylene film. Packaging materials are included in the product system and the finished rolls are prepared for shipment to ViaCon distribution facilities in Europe.

No weaving process, coating or chemical impregnation is applied. The declared production route is based on strip extrusion followed by ultrasonic welding. The declared unit is 1 kg of finished SteadyGrid geogrid. The product consists of polypropylene (PP) with mineral additives and processing aids. No recycled polymer content is present.

Energy use for extrusion, winding, ultrasonic welding, auxiliary equipment, lighting and internal handling is based on actual site data. Manufacturing electricity is represented using the ecoinvent 3.9.1 medium-voltage electricity market for China. Diesel used for forklift operation is included in Module A3.

Production waste and process losses are modelled according to the documented site waste routes. Municipal solid waste and used oil are included using appropriate waste-treatment datasets. Polymer scrap sent for external recycling is reported as MFR; no internal reprocessing of this scrap is assumed in the declared model.

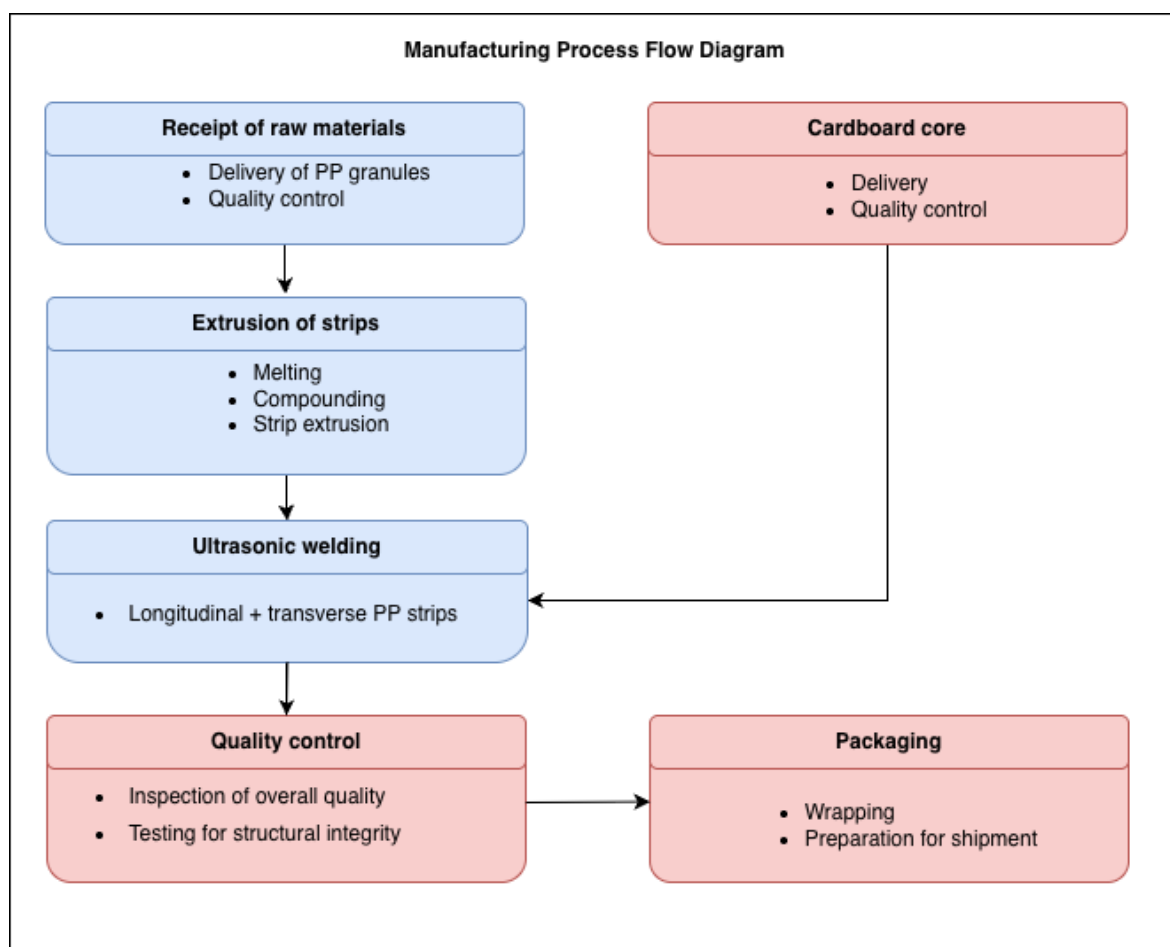


Figure 1 – Diagram of the manufacturing process

Transport to ViaCon European distribution network (A4)

Module A4 covers transport from the manufacturing facility in China to the ViaCon European distribution network. Transport is modelled as approximately 100 km road to the Chinese export port, 19,450 km ocean freight by container ship, and 538.4 km road transport by EURO 6 lorry to European distribution centres, weighted across four distribution locations in Central and Eastern Europe. Transport beyond the distribution centres is not included in Module A4.

ViaCon stock location	Share	Import route / terminal	Distribution centre
ViaCon Poland	35%	Hamburg, Germany	Rydzyna, Poland
ViaCon Lithuania	35%	Klaipėda, Lithuania	Kauno r. sav., Lithuania
ViaCon Romania	15%	Constanța, Romania	Prejmer, Romania
ViaCon Bulgaria	15%	Constanța, Romania	Sofia, Bulgaria

Construction and packaging end-of-life (A5)

Module A5 covers installation of the SteadyGrid geogrid at the construction site and end-of-life treatment of the principal packaging materials generated when the roll is installed: the cardboard core, corrugated cardboard end caps and polyethylene protective film.

The geogrid is installed by unrolling and positioning the product as part of the earthworks or road-construction process. Mechanical handling is represented by 10 minutes of diesel-powered machine operation per 200 kg roll. No additional product-specific consumables are required.

The cardboard core and corrugated end caps are sent to municipal incineration, where the biogenic carbon taken up in Module A1 is released as biogenic CO₂ in Module A5, so the biogenic balance is maintained across the life cycle. The polyethylene film is sent to sanitary landfill. The energy recovered during incineration is not attributed to this product system; EEE, EET and MER are therefore reported as zero, and no packaging-related benefit is declared in Module D.

End of life (C1, C2, C3, C4, D)

The end-of-life scenario reflects the long-term use of geogrids embedded in civil engineering structures. At the end of the service life of the host construction, the geogrid is assumed to be removed together with surrounding soil and construction materials during general earthworks. No dedicated, product-specific deconstruction process is required and no separate collection or recycling of the used PP geogrid is assumed. A conservative scenario of 100% disposal to landfill is applied.

Under this scenario, Module C1 is declared as zero because no dedicated deconstruction or removal process is required for the geogrid itself and any additional energy use attributable specifically to its removal is considered negligible. Module C2 includes transport of the removed geogrid to a waste disposal facility; a generic distance of 50 km is assumed. Module C3 is zero because no waste-processing operation is applied. Module C4 contains the environmental burdens associated with disposal of 1 kg of the PP geogrid to landfill. No material recycling or energy recovery is assumed and Module D is therefore zero.

Table 1. End-of-life scenario for SteadyGrid welded polypropylene geogrids marketed by ViaCon AB

Material	Material recovery	Recycling	Landfilling
SteadyGrid PP geogrid	0%	0%	100%

Life cycle assessment information

Declared Unit

The declared unit is 1 kg of finished SteadyGrid welded polypropylene geogrid, ready for sale and supplied by ViaCon AB. Cardboard cores, corrugated cardboard end caps, polyethylene film and minor ancillary packaging are included in the system boundary in proportion to the packaging quantity required per 1 kg of geogrid; they are not part of the declared unit mass.

Allocation

Allocation is performed on a mass basis in accordance with EN 15804+A2. Shared material, energy and waste flows are allocated across on-specification product and co-product output. Polymer scrap sent for external recycling is treated as a waste stream and reported as MFR = 0.02967 kg/DU.

Packaging inputs are assigned according to the actual packaging intensity per declared unit. No material recovery, recycling or energy recovery of the used geogrid is assumed at end of life; accordingly, no product-related benefits are reported in Module D.

System boundary

The life cycle assessment covers product stage Modules A1–A3, transport from the manufacturing facility in China to the ViaCon European distribution network (A4), construction installation and packaging end-of-life (A5), end-of-life Modules C1–C4 and benefits and loads beyond the system boundary (D), in accordance with EN 15804+A2. Modules B1–B7 are not relevant because the geogrid is permanently embedded in civil engineering structures and no maintenance, repair or replacement of the product is required during its service life. Energy and water consumption, emissions and generated wastes are included where relevant. Capital goods and employee transport are excluded in accordance with the applied PCR and programme rules.

Data collection period

Primary production data cover June–July 2026, following relocation to the current manufacturing facility. This period was selected to reflect the production conditions at the new site rather than those at the previous location. The dataset covers a total product output of 33,700 kg. ViaCon AB provided product specification, packaging and logistics data for Modules A4 and A5. The declared market is Europe.

Data quality

Foreground data are based on the manufacturing-site mass and energy balance, including polypropylene and additives, electricity use, production losses, packaging materials and waste treatment. Transport data are based on supplier and ViaCon logistics information. Background datasets are taken from ecoinvent 3.9.1, system model Allocation, cut-off by classification. The data are considered technologically and geographically representative of the declared production system and market; assumptions and remaining data gaps are documented in the LCA study.

Assumptions and estimates

Primary data for Module A3 were collected from the contract manufacturing facility in China for the reference period June - July 2026. For processes where primary data were unavailable, documented secondary data and reasonable assumptions were applied in accordance with EN 15804+A2. Supplier transport, export logistics and packaging intensities are based on actual records where available.

For the end-of-life stage, no dedicated deinstallation process is modelled in C1 because the geogrid is assumed to be removed together with surrounding construction materials during general earthworks and the additional energy attributable specifically to the geogrid is negligible. Module C2 includes transport to a waste disposal facility over a generic distance of 50 km. No waste processing is modelled in C3. The geogrid is represented as 100% landfill in C4. No recycling or energy recovery is assumed for the used geogrid and Module D is zero.

The cardboard core and corrugated cardboard end caps are removed during installation and their stored biogenic carbon is balanced in Module A5. Polyethylene protective film is treated as waste polyethylene sent to sanitary landfill. These packaging flows are separate from the end-of-life scenario of the geogrid itself.

The total contribution of omitted processes is assessed against the EN 15804+A2 cut-off criteria. The difference between the 1 kg declared unit and the total upstream material input reflects manufacturing losses and packaging materials, which are modelled separately within the system boundary.

Calculation rules

LCA was performed using openLCA 2.6.1 in accordance with EN 15804:2012+A2:2019/AC:2021. Characterisation factors: EF 3.1 as required by EN 15804+A2/AC:2021. Background data: ecoinvent 3.9.1, system model Allocation, cut-off by classification.

Geographic representativeness

The product is manufactured in China on behalf of ViaCon AB. Module A4 represents delivery to ViaCon distribution facilities in Poland, Lithuania, Romania and Bulgaria. The declared market is Europe.

Additional information

Manufacturing electricity is based on actual site consumption and is represented using the ecoinvent 3.9.1 medium-voltage electricity market for China. The fossil feedstock energy of polymer raw materials is reported as PENRM in accordance with EN 15804+A2 while preserving $PENRT = PENRE + PENRM$. Materials for Recycling (MFR) in Module A3 amount to 0.02967 kg/DU and represent polymer scrap sent for external material recycling.

Life cycle assessment (LCA) – Results

Table 2. System boundary for the environmental characteristic of the product.

Environmental assessment information (MD – Module Declared, MND – Module Not Declared, MNR – Module Not Relevant)																
Product stage			Construction process		Use stage							End of life				Benefits and loads beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport to distribution warehouse *	Construction - installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse-recovery-recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
MD	MD	MD	MD	MD	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MD	MD	MD	MD	MD

* Module A4 covers transport from the contract manufacturing facility in China to the ViaCon European distribution network (Poland, Lithuania, Romania and Bulgaria), not to the final construction site.

SteadyGrid Welded Polypropylene Geogrids

Disclaimer 1 – applies to the indicator IRP (ionising radiation, human health): This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator. Disclaimer 2 – applies to the indicators ADP-minerals&metals, ADP-fossil, WDP, ETP-fw, HTP-c, HTP-nc and SQP: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Table 3 Life cycle assessment (LCA) results of SteadyGrid welded polypropylene geogrids marketed by ViaCon AB – environmental impacts (DU: 1 kg)

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Global Warming Potential (Total)	kg CO2 eq.	2,41E+00	1,16E-01	5,58E-01	3,09E+00	2,52E-01	1,57E-01	MNR	0,00E+00	5,08E-03	0,00E+00	1,09E-01	0,00E+00
Global Warming Potential (Fossil Fuels)	kg CO2 eq.	2,49E+00	1,16E-01	5,61E-01	3,17E+00	2,51E-01	7,14E-02	MNR	0,00E+00	5,08E-03	0,00E+00	1,09E-01	0,00E+00
Global Warming Potential (Biogenic)	kg CO2 eq.	-8,19E-02	4,56E-05	-3,20E-03	-8,50E-02	2,10E-06	8,58E-02	MNR	0,00E+00	1,93E-06	0,00E+00	9,43E-05	0,00E+00
Global Warming Potential (Land Use and Land Use Change)	kg CO2 eq.	1,34E-03	6,14E-05	2,20E-04	1,62E-03	1,80E-04	8,20E-06	MNR	0,00E+00	2,61E-06	0,00E+00	8,99E-06	0,00E+00
Global Warming Potential except emissions and uptake of biogenic carbon (GWP-IOBC/GHG)	kg CO2 eq.	2,50E+00	1,16E-01	5,62E-01	3,18E+00	2,52E-01	7,14E-02	MNR	0,00E+00	5,08E-03	0,00E+00	1,09E-01	0,00E+00
Ozone Depletion Potential	kg CFC-11 eq.	1,28E-08	1,95E-09	1,00E-09	1,57E-08	4,21E-09	1,14E-09	MNR	0,00E+00	8,63E-11	0,00E+00	2,78E-10	0,00E+00
Acidification Potential	mol H+ eq.	1,05E-02	3,60E-04	2,97E-03	1,38E-02	6,02E-03	2,60E-04	MNR	0,00E+00	1,39E-05	0,00E+00	8,55E-05	0,00E+00
Abiotic Depletion for Fossil Resources Potential (ADPF)	MJ	8,15E+01	1,75E+00	5,51E+00	8,88E+01	3,26E+00	8,95E-01	MNR	0,00E+00	7,73E-02	0,00E+00	2,59E-01	0,00E+00
Abiotic Depletion Potential for Non-Fossil Resources (ADPE)	kg Sb eq.	5,49E-06	2,35E-07	1,41E-07	5,87E-06	2,38E-07	1,55E-08	MNR	0,00E+00	9,82E-09	0,00E+00	1,40E-08	0,00E+00
Eutrophication Potential (Freshwater)	kg P eq.	5,20E-04	9,77E-06	1,00E-04	6,30E-04	1,06E-05	2,29E-06	MNR	0,00E+00	4,26E-07	0,00E+00	1,58E-06	0,00E+00
Eutrophication Potential (Marine)	kg N eq.	2,08E-03	9,36E-05	6,30E-04	2,80E-03	1,51E-03	1,20E-04	MNR	0,00E+00	3,66E-06	0,00E+00	4,10E-04	0,00E+00
Eutrophication Potential (Terrestrial)	mol N eq.	2,17E-02	9,80E-04	6,72E-03	2,94E-02	1,66E-02	1,13E-03	MNR	0,00E+00	3,79E-05	0,00E+00	3,40E-04	0,00E+00
Formation Potential of Tropospheric Ozone (POCP)	kg NMVOC eq.	8,96E-03	4,80E-04	1,79E-03	1,12E-02	4,61E-03	3,80E-04	MNR	0,00E+00	2,00E-05	0,00E+00	1,40E-04	0,00E+00
Water Deprivation Potential (WDP)	m3 World eq.	8,61E-01	8,73E-03	6,40E-02	9,33E-01	1,11E-02	5,99E-03	MNR	0,00E+00	3,90E-04	0,00E+00	1,46E-03	0,00E+00

Table 4. Life cycle assessment (LCA) results of SteadyGrid welded polypropylene geogrids marketed by ViaCon AB – additional impact indicators (DU: 1 kg)

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Potential Incidence of Disease due to PM Emissions	Disease Incidence	1,04E-07	8,33E-09	4,13E-08	1,54E-07	9,80E-09	3,47E-09	MNR	0,00E+00	3,83E-10	0,00E+00	1,80E-09	0,00E+00
Potential Human Exposure Efficiency Relative to U235 (IRP)	kBq U235 eq.	6,42E-02	1,59E-03	2,40E-02	8,98E-02	2,19E-03	4,50E-04	MNR	0,00E+00	7,03E-05	0,00E+00	3,50E-04	0,00E+00
Potential Comparative Toxic Unit for Ecosystems (ETP-fw)	CTUe	6,88E+00	9,25E-01	1,57E+00	9,37E+00	1,59E+00	5,14E-01	MNR	0,00E+00	4,06E-02	0,00E+00	1,79E-01	0,00E+00
Potential Comparative Toxic Unit for Humans - Non-Cancer (HTP-nc)	CTUh	1,40E-08	1,08E-09	4,98E-09	2,01E-08	1,12E-09	3,44E-10	MNR	0,00E+00	4,81E-11	0,00E+00	2,36E-10	0,00E+00
Potential Comparative Toxic Unit for Humans - Cancer (HTP-c)	CTUh	5,70E-10	5,11E-11	1,12E-10	7,33E-10	1,08E-10	4,79E-11	MNR	0,00E+00	2,21E-12	0,00E+00	6,90E-12	0,00E+00
Potential Soil Quality Index (SQP)	Dimensionless	1,77E+01	1,64E+00	1,06E+00	2,04E+01	1,01E+00	7,37E-02	MNR	0,00E+00	7,76E-02	0,00E+00	5,80E-01	0,00E+00

Table 5. Life cycle assessment (LCA) results of SteadyGrid welded polypropylene geogrids marketed by ViaCon AB – resource use (DU: 1 kg)

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Total use of non-renewable primary energy resources (PENRT)	MJ	8,15E+01	1,75E+00	5,51E+00	8,88E+01	3,26E+00	8,95E-01	MNR	0,00E+00	7,73E-02	0,00E+00	2,59E-01	0,00E+00
Total use of renewable primary energy resources (PERT)	MJ	3,65E+00	2,24E-02	5,80E-01	4,25E+00	2,91E-02	5,56E-03	MNR	0,00E+00	9,70E-04	0,00E+00	4,69E-03	0,00E+00
Use of non-renewable primary energy as energy carrier (PENRE)	MJ	3,62E+01	1,75E+00	5,51E+00	4,35E+01	3,26E+00	8,95E-01	MNR	0,00E+00	7,73E-02	0,00E+00	2,59E-01	0,00E+00
Use of non-renewable primary energy as raw materials (PENRM)	MJ	4,53E+01	0,00E+00	0,00E+00	4,53E+01	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels (NRSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable primary energy as energy carrier (PERE)	MJ	3,65E+00	2,24E-02	5,80E-01	4,25E+00	2,91E-02	5,56E-03	MNR	0,00E+00	9,70E-04	0,00E+00	4,69E-03	0,00E+00
Use of renewable primary energy as raw materials (PERM)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels (RSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of secondary materials (SM)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water (FW)	m3	4,12E-02	3,30E-04	1,75E-03	4,33E-02	3,70E-04	1,80E-04	MNR	0,00E+00	1,45E-05	0,00E+00	2,80E-04	0,00E+00

Table 6. Life cycle assessment (LCA) results of SteadyGrid welded polypropylene geogrids marketed by ViaCon AB – waste categories (DU: 1 kg)

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Hazardous Waste Disposed (HWD)	kg	3,86E-05	1,09E-05	3,52E-06	5,31E-05	1,71E-05	5,95E-06	MNR	0,00E+00	4,85E-07	0,00E+00	1,27E-06	0,00E+00
Non-Hazardous Waste Disposed (NHWD)	kg	2,04E-03	3,87E-05	1,49E-02	1,70E-02	7,28E-05	1,93E-02	MNR	0,00E+00	1,66E-06	0,00E+00	1,00E+00	0,00E+00
Radioactive Waste Disposed (RWD)	kg	1,60E-05	3,78E-07	5,76E-06	2,21E-05	5,14E-07	1,04E-07	MNR	0,00E+00	1,67E-08	0,00E+00	8,51E-08	0,00E+00

Table 7. Life cycle assessment (LCA) results of SteadyGrid welded polypropylene geogrids marketed by ViaCon AB – Output flows (DU: 1 kg)

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Components for Re-Use (CRU)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for Recycling (MFR)	kg	0,00E+00	0,00E+00	2,97E-02	2,97E-02	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for Energy Recovery (MER)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported Energy (EEE + EET)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Verification

The external verification of this Environmental Product Declaration (EPD) has been carried out in accordance with ISO 14025.

This EPD is valid for 5 years from the date of issue, provided that no significant changes occur in the product, production process, or background data.

After the validity period, the EPD shall be reviewed and, if necessary, updated and re-verified in accordance with EN 15804 and ISO 14025.

EPD Contributors

ViaCon Polska representative:	Mariusz Peroński, Product Portfolio & Sourcing Director
ViaCon Group representative:	Craig Lee (Internal reviewer)
EPD External verifier:	Izabela Sztamberek Sochan, Ph.D.
Note: The sole ownership and liability of this declaration are with the owner. Construction product declarations may not be comparable if they do not comply with EN 15804. For detailed information on comparability, please refer to EN 15804 and ISO 14025.	

Normative references

- EN 15804:2012+A2:2019/AC:2021, Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products
- ISO 14025:2006, Environmental labels and declarations — Type III environmental declarations — Principles and procedures
- ISO 14040:2006, Environmental management — Life cycle assessment — Principles and framework
- ISO 14044:2006, Environmental management — Life cycle assessment — Requirements and guidelines
- ISO 21930:2017, Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services
- EN 15941:2024, Sustainability of construction works — Data quality for environmental assessment of products and construction works — Selection and use of data
- EN 13249:2016, Geotextiles and geotextile-related products — Characteristics required for use in the construction of roads and other trafficked areas
- EN 13250:2016, Geotextiles and geotextile-related products — Characteristics required for use in railway construction
- EN 13251:2016, Geotextiles and geotextile-related products — Characteristics required for use in earthworks, foundations and retaining structures
- EN 13253:2016, Geotextiles and geotextile-related products — Characteristics required for use in erosion control works
- EN 13254:2016, Geotextiles and geotextile-related products — Characteristics required for use in the construction of reservoirs and dams
- EN 13255:2016, Geotextiles and geotextile-related products — Characteristics required for use in the construction of canals
- EN 13257:2016, Geotextiles and geotextile-related products — Characteristics required for use in solid waste disposal
- EN 13265:2016, Geotextiles and geotextile-related products — Characteristics required for use in liquid waste containment projects
- EN ISO 10319:2015, Geosynthetics — Wide-width tensile test
- Dedal Attestation & Certification (2026), Certificate of Conformity of Factory Production Control No. 1922-CPR-2219, including Annex I dated 14.07.2026
- ecoinvent Association (2023/2024), ecoinvent database v3.9.1, system model: allocation, cut-off by classification, Zurich, Switzerland
- Multicert Sp. z o.o. (2024), General Programme Instructions of the EPD Polska Programme, Warsaw, Poland

EPD Certification



VIACON

CERTIFICATE

TYPE III EPD DECLARATION

(ENVIRONMENTAL PRODUCT DECLARATION)

Reg. No. EPD-P 01.10.2026



This document confirms that the Environmental Product Declaration developed by **ViaCon AB** for

SteadyGrid Welded Polypropylene Geogrids

manufactured in accordance with standards:

EN 13249, EN 13250, EN 13251, EN 13253, EN 13254, EN 13255, EN 13257, EN 13265 meets the requirements of standards **EN 15804:2012+A2:2019/AC:2021** and **ISO 14025**, and that the data contained therein has been prepared correctly.

The Declaration was published on October 14, 2026 and is valid until October 14, 2031, or until it is deregistered or its publication on the website www.epd.org.pl is discontinued.

Authenticity of this certificate can be confirmed in the public register at www.epd.org.pl



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EPD Polska Verifier



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Warsaw, October 14, 2026