GISPEN S50

1600 X 525 MM PANEL

This product is designed following our circular design strategy derived from the Dutch NPR8313-2 guideline for Circular offices and learning environments. Our circular design strategy focuses on maximizing value of product lifecycles and minimizing raw material extraction.

LIFETIME EXTENSION, REUSE AND RECYCLING

We are committed to keep the environmental footprint of our products as low as possible. With our Circular Hub we make sure that products keep in the cycle for as long as possible. Together we will take care of a sustainable solution.

- Lifetime extension by repair, maintenance or refurbishment
- Take back for reuse
- Reuse parts and/or materials
- Recycling

CIRCULAR DESIGN

- Easily replaceable upholstery
- Lightweight construction, high material efficiency
- Product is designed for easy (dis)assembly with standardized tools

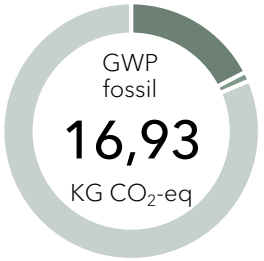
CERTIFICATES

- This product has low VOC emissions, ANSI BIFMA 7.1.e3 furniture sustainability test rapport available

14,2 KG	72,39%	99,87%
WEIGHT	RECYCLED CONTENT*	RECYCLABILITY**

* Total percentage recycled content in product based on suppliers' data and market availability. The source of recycled content is both post-industrial and post-consumer.

** The recyclability percentage is the maximum percentage of the product that is recyclable, based on the availability of recycling facilities in the specified region.



●	Raw materials, incl. extraction and processing	14,58	86%
●	Production, processing and assembly	0,32	2%
●	Distribution, user stage and maintenance	0,00	0%
●	End-of-life stage, waste-processing and disposal	2,52	15%
	Reuse, recovery, recycling potential	-0,49	-3%
	Total	**16,93**	**100%**

MATERIALS	WEIGHT (GR)	% OF TOTAL	RESOURCE
Wood (chipboard) (50% PCR, 50% PIR)	9.341	65,66	Virgin non-renewable and recycled content
Wood (Plywood)	2.428	17,07	Virgin non-renewable
Acoustic textile fibres (77% PCR textile waste, cotton/polyester mix)	1.245	8,75	Virgin non-renewable and recycled content
Textile: Polyester textile	510	3,58	Virgin non-renewable
Polypropylene	38	0,27	Virgin non-renewable
Tape	18	0,12	Virgin non-renewable
Cardboard packaging	647	4,55	Virgin non-renewable
Total	14.227	100%	

Manufactured in
The Netherlands

Production location
The Netherlands

Renewable energy assembly location
100%

MATERIALS

MATERIAL COMPOSITION

Gispen selects its materials following strict criteria when it comes to responsible sourcing, material safety, longevity and the entire lifecycle of a material. Before we choose a material, we first look at material safety of a material, following the cradle-to-cradle philosophy that materials first have to be safe, in order to be circular. We look at minimum impact of material input, by choosing re-used materials over new, virgin materials. We select materials that have a lifespan of more than one economic lifecycle so that the material can be re-used multiple economic lifecycles.

MATERIAL SAFETY

No substances listed on the REACH Candidate list of Substances of Very High Concern (SVHC) have been intentionally added to the homogeneous material or are a known contaminant in the homogeneous material.

MATERIAL SELECTION

- All wood in this product is sourced from suppliers that are certified according to responsible deforestation free programs.
- The acoustic material in this product is made from 77% textile waste from the fashion- and furniture industry.

Want to learn more?
Contact your account manager or visit www.gispen.com

PROCUREMENT

When selecting our suppliers, we require our business partners to comply with the same ethical business behaviour with respect for labour-, human- and environmental rights. Gispen maintains long-term relationships with many of its suppliers, some spanning several decades, which is a key advantage for the further development of products, technologies and materials.

ENVIRONMENTAL PRODUCT DECLARATION

Gispen conducted a life cycle assessment for this product to measure their environmental impacts. Alongside their carbon footprint, we also study other impacts such as resource depletion and water scarcity. This EPD can be found on the following pages.

PRODUCTION AND PACKAGING

For less than 4 pieces, the panels are packed individually and then go to the customer.
For more than 4 pieces, the total is packed on a pallet. The panel is packed with cardboard.

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THIRD PARTY VERIFIED ENVIRONMENTAL PRODUCT DECLARATION

ACCORDING ISO 14025 & EN 15804+A2

COMPANY INFORMATION

Manufacturer:	Royal Ahrend
Production location:	Sint-Oedenrode
Address:	Kofferen 60, 5492 BP Sint-Oedenrode
E-mail:	info@gispen.nl
Website:	www.gispen.com

EPD INFORMATION

Product name:	Gispen S50
Date of issue:	16-07-2025
End of validity:	16-07-2030
PCR:	ISO 14025 & EN 15804+A2
LCA method:	EN 15804+A2
LCA software:	Ecochain Mobius
Version database:	Ecoinvent v3.6 Cut-Off

Declaration from the verifier, Tim Mol 16-7-2025:
"the methodologies and data collection that are described in this report, comply with the requirements that are stated in EN15804+A2, and the standards that it is based on: ISO 14040, ISO 14044 and NEN-EN 15804."

DECLARED PRODUCTS

Gispen S50

SCOPE OF DECLARATION

Functional unit:	One product (piece)
System boundaries:	Cradle-to-grave
Life cycle stages included:	

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
x	x	x	x	x	x	x	x	x	x	MND	MND	x	x	x	x	x

(x = included, MND = module not declared)

PRODUCT INFORMATION

Description of the product:
The S50 is an upholstered vertical desk panel which improves acoustics and creates visual privacy and a sense of security. The panels optimise workplace comfort and employee productivity. The S50 has an acoustic level C according to the NEN-EN-ISO 11654. The recycled acoustic material from textile waste has an acoustic level of A. The S50 panel has a dimension of 1600x525 mm. The cover has a thickness of 50 mm. The product complies with Ansi Bifma M7.1.6 Level e3 VOC-emissie test, EN13501-1, NEN-EN-ISO 11654, NPR 8313-2.

The panel is designed for re-use, according to the circular principles, as stated in the NPR 8313-2. S50 is provided with a replaceable cover. Also, recycled chipboard is used in the production of the panels. The recycled acoustic material from textile waste, consists of 77% recycled textiles. This recycled acoustic material is wedged into the wooden frame and thus not glued. Through these design optimisations the panels have a technical lifetime of 75 years, which means the products last several lifecycles.

Net weight of the materials and packaging of the Gispen S50 is 14,22 kg. This is due to the light weight of the materials in the product, namely 13,58 kg. The packaging consists of cardboard and has a weight of namely 0,6472 kg. The panel packaged with cardboard will then be transported onto a EURO pallet.

Description of manufacturing process:
Materials and parts are delivered at the production facilities in Sint-Oedenrode. Parts are assembled to end product.

Processes that are taking place at our production facility in Sint-Oedenrode includes:
- Cutting
- Stitching
- Upholstering
- Finaly product assembly with manual tooling

Description of packaging materials:
The panel is packaged with cardboard and are placed onto a EURO pallet.

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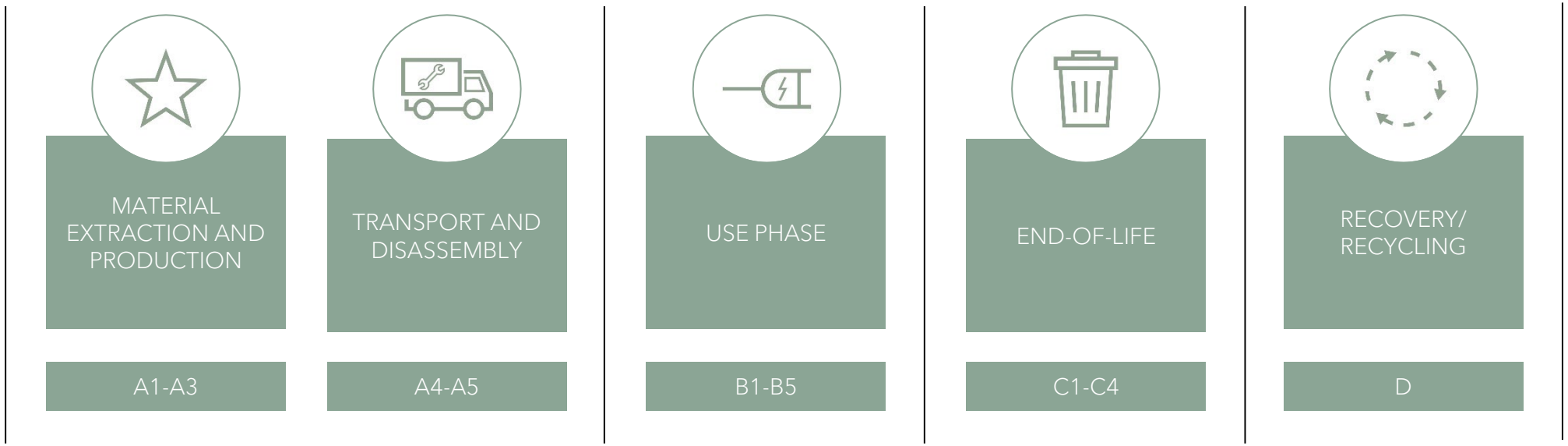
PROCESS BOUNDARY



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GISPEN S50

RESULTS OF THE ENVIRONMENTAL PERFORMANCE INDICATORS (LCA RESULTS) OF ONE FUNCTIONAL UNIT (One Gispen S50)

[Gispen S50] Impact category	Reference unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D	Total
Acidification (AP)	mol H+ eq	8,05E-02	1,73E-03	2,53E-04	0,00E+00	0,00E+00	1,48E-03	7,04E-03	7,08E-05	-1,24E-02	7,87E-02
Climate change – Biogenic (GWP-b)	kg CO2 eq	-1,93E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,75E+01	2,07E+00	0,00E+00	1,94E-01
Climate change – Fossil (GWP-f)	kg CO2 eq	1,46E+01	3,05E-01	1,90E-02	0,00E+00	0,00E+00	2,59E-01	2,23E+00	2,68E-02	-4,92E-01	1,69E+01
Climate change – Land use and LU change (GWP-luluc)	kg CO2 eq	4,49E-02	1,08E-04	6,12E-06	0,00E+00	0,00E+00	9,17E-05	1,38E-04	1,32E-06	-4,37E-03	4,08E-02
Climate change (GWP-total)	kg CO2 eq	-4,71E+00	3,05E-01	1,90E-02	0,00E+00	0,00E+00	2,59E-01	1,97E+01	2,09E+00	-4,97E-01	1,72E+01
Ecotoxicity, freshwater (ETF)	CTUe	3,91E+02	3,80E+00	3,14E-01	0,00E+00	0,00E+00	3,23E+00	1,84E+01	2,28E-01	-1,19E+02	2,98E+02
Eutrophication, freshwater (EP-fw)	kg P eq	7,41E-04	2,51E-06	2,33E-07	0,00E+00	0,00E+00	2,13E-06	6,35E-06	1,60E-07	-3,92E-05	7,13E-04
Eutrophication, marine (EP-m)	kg N eq	1,59E-02	6,21E-04	1,10E-04	0,00E+00	0,00E+00	5,28E-04	3,37E-03	5,04E-05	-3,62E-03	1,69E-02
Eutrophication, terrestrial (EP-t)	mol N eq	1,94E-01	6,84E-03	1,24E-03	0,00E+00	0,00E+00	5,82E-03	3,52E-02	3,22E-04	-5,94E-02	1,84E-01
Human toxicity, cancer (HTC)	CTUh	3,71E-08	1,35E-10	1,69E-10	0,00E+00	0,00E+00	1,15E-10	4,14E-08	2,95E-12	-1,38E-09	7,76E-08
Human toxicity, non-cancer (HTNC)	CTUh	2,38E-07	4,53E-09	7,33E-10	0,00E+00	0,00E+00	3,85E-09	1,61E-08	3,50E-10	-4,99E-08	2,14E-07
Ionising radiation (IR)	kBq U-235 eq	1,01E+00	2,04E-02	1,04E-03	0,00E+00	0,00E+00	1,74E-02	7,65E-03	4,74E-04	-1,99E-02	1,04E+00
Land use (SQP)	Pt	1,21E+03	4,00E+00	2,02E-01	0,00E+00	0,00E+00	3,40E+00	9,72E-01	4,05E-01	-4,75E+02	7,47E+02
Ozone depletion (ODP)	kg CFC11 eq	1,78E-06	7,02E-08	3,70E-09	0,00E+00	0,00E+00	5,97E-08	6,44E-08	1,68E-09	-1,25E-07	1,86E-06
Particulate matter (PM)	disease inc.	1,89E-06	2,75E-08	2,73E-09	0,00E+00	0,00E+00	2,34E-08	4,18E-08	1,74E-09	-1,68E-07	1,82E-06
Photochemical ozone formation (POCP)	kg NMVOC eq	6,46E-02	1,96E-03	3,36E-04	0,00E+00	0,00E+00	1,66E-03	8,84E-03	1,46E-04	-1,05E-02	6,71E-02
Resource use, fossils (ADP-f)	MJ	2,80E+02	4,68E+00	2,58E-01	0,00E+00	0,00E+00	3,98E+00	3,53E+00	1,14E-01	-6,47E+00	2,86E+02

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GISPEN S50

RESULTS OF THE ENVIRONMENTAL PERFORMANCE INDICATORS (LCA RESULTS) OF ONE FUNCTIONAL UNIT (One Gispen S50)

[Gispen S50] Impact category	Reference unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D	Total
Resource use, minerals, and metals (ADP-mm)	kg Sb eq	2,26E-04	7,88E-06	4,00E-07	0,00E+00	0,00E+00	6,71E-06	3,24E-06	2,71E-08	-5,82E-06	2,39E-04
Water use (WDP)	m3 depriv.	1,09E+01	1,43E-02	2,45E-03	0,00E+00	0,00E+00	1,22E-02	1,44E-01	1,90E-03	-5,04E-02	1,10E+01
Components for re-use (CRU)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energy, primary, non-renewable (PENRT)	MJ	2,98E+02	4,96E+00	2,74E-01	0,00E+00	0,00E+00	4,22E+00	3,83E+00	1,21E-01	-6,97E+00	3,05E+02
Energy, primary, non-renewable, excluding materials (PENRE)	MJ	2,78E+02	4,96E+00	2,74E-01	0,00E+00	0,00E+00	4,22E+00	3,83E+00	1,21E-01	-6,97E+00	2,84E+02
Energy, primary, non-renewable, materials (PENRM)	MJ	2,08E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,08E+01
Energy, primary, renewable (PERT)	MJ	2,77E+02	6,71E-02	5,64E-03	0,00E+00	0,00E+00	5,71E-02	1,54E-01	1,16E-03	-9,90E+01	1,78E+02
Energy, primary, renewable, excluding materials (PERE)	MJ	8,30E+01	6,71E-02	5,64E-03	0,00E+00	0,00E+00	5,71E-02	1,54E-01	1,16E-03	-9,90E+01	-1,57E+01
Energy, primary, renewable, materials (PERM)	MJ	1,94E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,94E+02
Energy, primary, total (PET)	MJ	5,08E+02	5,03E+00	2,80E-01	0,00E+00	0,00E+00	4,28E+00	3,98E+00	1,23E-01	-1,06E+02	4,16E+02
Exported energy, electric (EEE)	MJ	3,44E-01	0,00E+00	1,39E+00	0,00E+00	0,00E+00	0,00E+00	3,25E+01	0,00E+00	0,00E+00	3,42E+01
Exported energy, thermal (EET)	MJ	5,93E-01	0,00E+00	2,39E+00	0,00E+00	0,00E+00	0,00E+00	5,59E+01	0,00E+00	0,00E+00	5,89E+01
Materials for energy recovery (MER)	kg	1,29E-01	0,00E+00	5,50E-01	0,00E+00	0,00E+00	0,00E+00	1,21E+01	0,00E+00	0,00E+00	1,28E+01
Materials for recycling (MFR)	kg	3,46E-04	0,00E+00	3,24E-02	0,00E+00	0,00E+00	0,00E+00	1,93E-05	0,00E+00	0,00E+00	3,27E-02
Secondary fuel, non-renewable (NRSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Secondary fuel, renewable (RSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Secondary material (SM)	kg	5,54E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,54E+00

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GISPEN S50

RESULTS OF THE ENVIRONMENTAL PERFORMANCE INDICATORS (LCA RESULTS) OF ONE FUNCTIONAL UNIT (One Gispen S50)

[Gispen S50] Impact category	Reference unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D	Total
Waste, hazardous (HWD)	kg	3,05E-03	1,20E-05	6,80E-07	0,00E+00	0,00E+00	1,02E-05	1,04E-05	2,60E-07	-1,86E-05	3,06E-03
Waste, non-hazardous (NHWD)	kg	2,41E+00	2,90E-01	1,54E-02	0,00E+00	0,00E+00	2,47E-01	1,61E-01	1,69E-01	-1,78E-01	3,11E+00
Waste, radioactive (RWD)	kg	1,11E-03	3,18E-05	1,56E-06	0,00E+00	0,00E+00	2,71E-05	8,12E-06	7,51E-07	-3,03E-05	1,15E-03
Water, freshwater use (FW)	m3	3,02E-01	5,29E-04	2,93E-04	0,00E+00	0,00E+00	4,50E-04	8,42E-03	4,78E-05	-1,36E-03	3,11E-01

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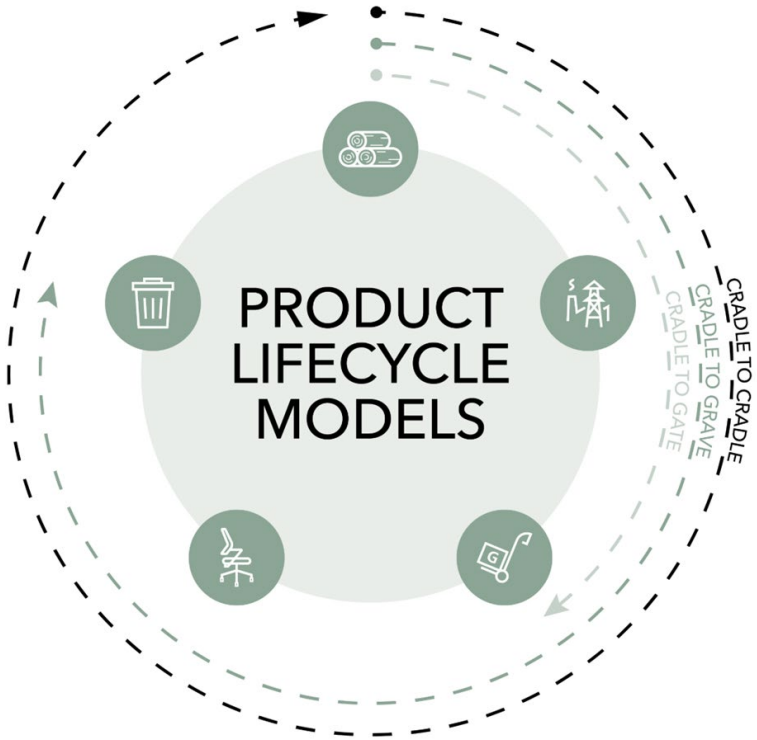
ADDITIONAL TECHNICAL INFORMATION

Modules A1 to A3 cover the material extraction and production. Module A1 includes the extraction of raw materials for the Gispen S50, along with the transport and packaging of these raw materials. In module A2, the transportation of the materials from the suppliers to the production facility in Sint-Oedenrode is accounted for. The energy consumption of the production site is considered in Module A3. Furthermore, the production waste is taking into account in this module. As a worst-case scenario, 1% production waste for every material is accounted. For the end-of-life treatment percentages and transport distances, standard values from the NMD Assessment Method are considered. Modules A4 and A5 are part of the transport and disassembly. A4 addresses the transport from the production site to the customers, using the default distance of 150 km as defined by the NMD Assessment Method. The impact of the disposal of the packaging is accounted for in Module A5. For the end-of-life treatment percentages and transport distances the default values of NMD are considered. The use phase is calculated in Module B. In the case of the panels there is no use phase which means it is zero. C1 until C4 represents the end-of-life stage. After their useful life, the products are manually disassembled, resulting in zero impact for Module C1 for the demolition. Thereafter, the materials are transported (C2) to waste processing to be processed (C3-C4). The transport distance and waste treatment values are calculated according to the NMD Assessment Method. Module D is the last module, which are the benefits and burdens for recovery and recycling. The steps of the NMD Assessment Method are followed to calculate the impact.



DISCLAIMER

This LCA is calculated according to the Cradle-to-Grave model. From the moment a product leaves the factory (cradle) to the end of its life cycle, in which the use phase and waste phase; namely when the waste is or is being removed, are taken into account. (grave). Please be aware that EPDs of competitors within the same product category calculated with a Cradle-to-Gate model or with different methods may not be comparable.

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REFERENCES

ISO 14040
DIN EN ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework; EN ISO 14040:2006

ISO 14044
DIN EN ISO 14044:2006-10, Environmental management - Life cycle assessment - Requirements and guidelines; EN ISO 14040:2006

ISO 14025
DIN EN ISO 14025:2011-10: Environmental labels and declarations – Type III environmental declarations – Principles and procedures

EN 15804+A2
NEN-EN 15804:2012+A2:2019: Sustainability of construction works – Environmental Product Declarations – Core rules for the product category of construction products

NMD-assessment method 1.1
'Environmental Performance Assessment Method for Construction Works', Stichting National Environmental Database, versie 1.1, maart 2022.

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SUSTAINABLE DESIGN