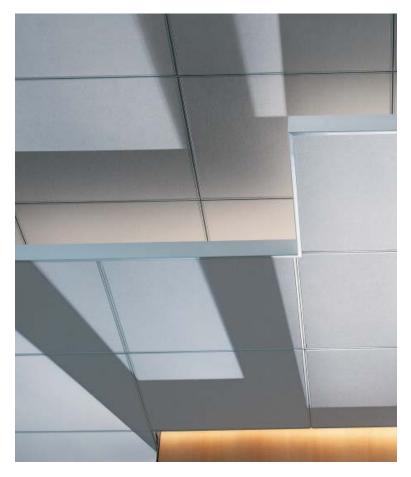
1" HALCYON™ ECO AND HALCYON™ ECO

HEALTHCARE

WITH CLIMAPLUS™ PERFORMANCE



Halcyon™ Eco Acoustical Panels are fine-textured panels with exceptional noise reduction for open-plan offices. Their nondirectional, monolithic visual reduces installation time and waste. They offer exceptional acoustical absorption, are built to last and are mold- and sag-resistant. Easy to install and clean, their noise reduction properties and high light reflectance values make these tiles perfect for open office plans as well as reception and lobby areas. Both Halcyon™ Eco and Halcyon™ Eco Healthcare are manufactured with a plant-based binder and is part of the EcoBlueprint™ portfolio — meeting today's sustainability standards.



For over a century, sustainable practices have naturally been an inherent part of our business at USG. Today, they help shape the innovative products that become the homes where we live, the buildings where we work and the arenas where we play. From the product formulations we choose, to the processes we employ, USG is committed to designing, manufacturing, distributing products that minimize overall environmental impacts and contribute toward a healthier living space. We believe that transparency of product information is essential for our stakeholders and EPDs are the next step toward an even more transparent USG.

For additional information, visit usg.com and usgdesignstudio.com







1" Halcyon™ Eco and Halcyon™ Eco Healthcare Acoustical Ceiling Panels According to ISO 14025, ISO 21930: 2007 and EN 15804

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

PROGRAM OPERATOR	UL Enivironment					
DECLARATION HOLDER	USG					
DECLARATION NUMBER	4788655768.124.1	4788655768.124.1				
DECLARED PRODUCT	1" Halcyon Eco and Eco Healthcare Acoustical ClimaPlus Performance					
REFERENCE PCR	UL Part B: Non-metal Ceiling Panel October 2015-v.1					
DATE OF ISSUE	October 1, 2019					
PERIOD OF VALIDITY	5 Years					
CONTENTS OF THE DECLARATION The PCR review was conducted by:	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications UL Environment					
·		PCR Peer Review Panel epd@ulenvironment.com				
This declaration was independently verifi 14025 by Underwriters Laboratories ☐ INTERNAL	Grant R. Martin					
This life and a second of the	Land and Carlot and Land	Grant R. Martin, UL Environment				
1	This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:					
		Thomas P. Gloria, Industrial Ecology Consultants				

This EPD conforms with ISO 21930:2007 and EN 15804



Environment



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ULCOM/EPD

1" Halcyon™ Eco and Halcyon™ Eco Healthcare Acoustical Ceiling Panels According to ISO 14025, ISO 21930:2007

1. Product System Documentation

1.1. Product Description

Product Identification

Halcyon™ Eco Acoustical Panels are fine-textured panels with exeptional noise reduction for open-plan offices. Nondirectional, monolithic visual reduces installation time and waste. These products are produced using ECOSE binder technology, which is a plant-based green chemistry.

The fiberglass family of products covered by this EPD report consists of a fiberglass basemat laminated with a non-woven veil. These products generally fall under ASTM E1264 Section 5.2 designation as Type XII — Glass fiber base with membrane-faced overlay. This EPD covers the following 1" Halcyon™ Eco and 1" Halcyon™ Eco Healthcare acoustical products: Item nos.: 757312, 757313, 757314, 757315, 757316, 757317, 757318, 757319, 757320, 757340, 757341, 757342, 757348, 757349, 757350, 757351, 757352 and 757353.

1.2. Application

The products represented in this EPD are designed to be installed in a suitable metal grid system typically designed to accommodate a nominal 2'x2' or 2'x4' panel although other sizes are available.

1.3. Technical Data

If relevant for the declared product, the following technical construction data in the delivery status must be provided with reference to the test standard.

1" HALCYON™ ECO 1" HALCYON™ ECO TEST METHOD **Noise Reduction Coefficient** C423 0.95 0.95 (NRC) **Articulation Class (AC)** E1111 and Classification E1110 N/A N/A E1414 and Classification E413 Ceiling Attenuation Class (CAC) 20 20 Fire Rating Class A Class A F84 **Light Reflection** F1477 0.90 0.90

Table 1: Technical Data

1.4. Placing on the Market / Application Rules

The respective standard and general technical approval for these products are indicated above. Further detail may be found on the USG.com website.

1.5. Delivery Status

The products under consideration are typically delivered in bundles of 12 pieces per carton, surrounded by a cardboard sleeve and wrapped with plastic.









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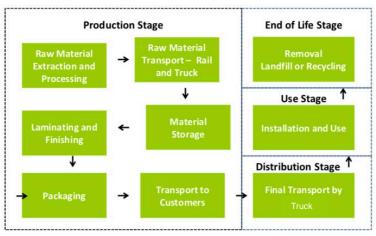
1.6. Base Materials

Table 2: Material Composition

MATERIAL	1" HALCYON™ ECO	1" HALCYON TM ECO HEALTHCARE	
Basemat	86%	86%	
Adhesive	2%	2%	
Veil	6%	6%	
Dry coating	6%	6%	
Sum	100%	100%	

1.7. Manufacture

Fiberglass acoustical ceiling panels consist of a 3rd party supplied fiberglass basemat laminated inhouse with a non- woven fiberglass veil. Fabrication of the finished product consists of laminating the fiberglass basemat with the appropriate laminate and painting the product, trimming and packaging. The finishing unit processes are dominated by the use of water-based paint, which contains ingredients such as calcium carbonate, clay, latex, titanium dioxide (TiO2) and other chemicals. Shrink-wrap and corrugated strip are used as packing materials. Painting may involve two or more coatings with a drying cycle between coatings. After inspection, the ceiling panels are packaged for shipment.



1.8. Environment and Health During Manufacturing

All appropriate equipment required by federal, state and local regulations are in place at all USG manufacturing facilities.

1.9. Installation

The ceiling panels must be installed in accordance with all applicable USG Interiors installation guidelines. Approved installation procedures are provided in the Ceiling Systems Handbook published by the Ceiling and Interior Systems Construction Association and must be followed. Installation of USG's ceiling and grid products is accomplished by manual labor using mostly hand tools. No material or energy inputs are required on the jobsite.

1.10. Packaging

USG Interiors ceiling panels are packaged using cardboard sleeves and are then wrapped in plastic shrink wrap. USG encourages the proper recycling of these packaging materials. Both the production and disposal of these packaging materials was modeled in this LCA study.







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1.11. Conditions of Use

To insure the longevity of the product, panels should not be exposed to moisture, high humidity or high temperature. Criteria can be found in the USG warranty information specific for each product.

1.12. Environment and Health During Use

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Proper personal protective gear should be worn by installer for protection.

1.13. Reference Service Life

A default RSL of 75 years shall be assumed for the product and ceiling panel mounting system. An assumed Estimated Service Life (ESL) of 75 years shall be used for building life.

1.14. Extraordinary Effects

Fire

All ceiling products covered by this study are certified to be Class A (flame spread of 25 or less, smoke developed of 50 or less per ASTM C84).

Water

Moisture must not come in contact with the ceiling panel as a result of a leaking roof, a sweating pipe, a leaking radiator, a flood, condensation on windows, condensation on more subtle surfaces where dew points are reached, humidified air from the HVAC system or any other similar causes.

Mechanical Destruction

The product must be installed and maintained in accordance with current USG written instructions and best industry practice, including the CISCA Handbook and ASTM C636, "Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels."

2. LCA Calculation Rules

2.1. Declared Unit

The declared unit for ceiling panels is defined as one square meter with optional reporting of one square foot (12"x12") of ceiling panel.







1" Halcyon™ Eco and Halcyon™ Eco Healthcare Acoustical Ceiling Panels

According to ISO 14025, ISO 21930:2007

Table 3: Declared Unit

Name	1" Halcyon™ Eco (METRIC)	1" HALCYON™ ECO HEALTHCARE (METRIC)	1" HALCYON™ ECO (STANDARD)	1" Halcyon™ Eco Healthcare (Standard)	
Declared Unit	0.093 m ²	0.093 m ²	1 ft ²	1 ft ²	
Declared Thickness	2.54 cm	2.54 cm	1 in	1 in	
Surface weight per declared unit	2.255 kg/m²	2.255 kg/m ²	0.462 lb/ft ²	0.462 lb/ft ²	

For purposes of defining a functional unit, an ESL of a building in North America of 75 years shall be used.

2.2. System Boundary

This EPD represents a "cradle-to-grave" LCA analysis for fiberglass ceiling panels. It covers all the production steps from raw material extraction (i.e., the cradle) to end of life disposal (grave).

2.3. Estimates and Assumptions

In the case of the fiberglass ceiling panel production at the Greenville, MS plant, data collection of energy and raw material inputs were aided by the presence of an extensive computer monitoring system. All fiberglass ceiling product raw material and energy inputs are specific to the specific fiberglass product produced at the Greenville, MS plant.

Additional data limitations include the use of proxy processes rather than actual supplier generated primary data. The data is limited in that the primary data was collected during the 2017 year and changes in operations may increase/decrease impacts in the future. Other data limitations include the use of secondary data sets instead of primary data for upstream and downstream processes, local impacts vs. global impacts, possible impacts vs. actual impacts, inherent uncertainty in the data sets, accuracy and precision of impact assessment methodology, etc.

2.4. Cut-off Criteria

All inputs and outputs to a (unit) process were included in the calculation for which data is available.

In case of insufficient input data or data gaps for a unit process, the cut-off criteria was 1% of renewable and non-renewable primary energy usage and 1% of the total mass of that unit process. The total neglected input flows did not exceed 5% of energy usage and mass.

As such, some minor additives fell well below the cut-off criteria and were therefore not included in this study.

2.5. Background Data

All background data were sourced from critically reviewed GaBi databases. LCA data for the fibergalss basemat was obtained from a published and verified EPD for this material.

2.6. Data Quality

The LCA model was created using the GaBi ts software (version 8.7.0.18). Specific comments related to data quality requirements cited in ISO 14025 Section 4.2.3.6.2 include the following.





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Temporal: In the case of fiberglass ceiling tile production, the LCI data for all raw material and energy inputs was collected from the Greenville, MS plant for the 2017 production year. The LCA results for the fiberglass basemat were derived from a 2017 published EPD for this product.

Geographical: Where possible, all processes were chosen as being representative of US manufacturing processes.

Technical: The data selected for this study is specific to the technology used in the preparation of the various raw materials.

Precision: The raw material usage amounts were derived from plant quality data on finished products, coatings usage plant data and product formulas.

Completeness: Virtually all the significant raw material flows (> 99%) in fiberglass ceiling panel production has been modeled. The exception consists of transportation of the coating raw materials; the effect of which was determined to be less than 1% of the total.

Representative: Where possible all the data sets were selected to be representative of US-based production, are less than 10 years in age and are representative of the technology being employed.

Consistency: All the manufacturing processes were modeled in a consistent manner throughout this study in accordance with the goal and scope definitions.

Reproducibility: The information contained in this study, including raw material, energy and transportation distance inputs, have been fully documented in the LCA report.

Sources of Data: The sources for the processes used in this study have been fully provided in the LCA report and are representative of the material and energy sources used in actual production.

Uncertainty: The relative uncertainty associated with this study has been minimized. No significant assumptions have been made

2.7. Period under Review

In the case of fiberglass ceiling tile production, the LCI data for all raw material and energy inputs was collected from the Greenville, MS plant for the 2017 production year. The LCA results for the fiberglass basemat were derived from a 2017 published EPD for this product.

2.8. Allocation

Energy inputs were allocated on a mass basis so that 100% of the gas and electricity used in fiberglass production were allocated to specific types of fiberglass products based on the mass of those products. Raw material inputs were allocated to specific products based on established product formulas.

2.9. Comparability

A comparison or evaluation of EPD data is only possible if all data sets to be compared are 1) created according to EN 15804 and 2) are considered in a whole building context or utilize identical defined use stage scenarios. Comparisons are only allowable when EPDs report cradle-to-grave information using a functional unit. Refer to section 5.3 of EN 15804 for further information. Comparison of the environmental performance of ceiling panels using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR. Full conformance with the PCR for North American Ceiling Panels allows EPD comparability only when all stages of a ceiling panel life cycle have been considered. However, variations and deviations are possible.







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3. LCA: Scenarios and additional technical information

Table 4: Transport to the building site (A4)

NAME	VALUE	Unit
Fuel type	Diesel	-
Liters of fuel	0.453	l/100km
Vehicle type	US Truck	-
Transport distance	1,300	km
Capacity	0.67	-
Gross density of products transported	72.1	kg/m³

Table 5: Installation into the building (A5)

NAME	VALUE	Unit
Ancillary materials	0	kg
Net freshwater consumption specified by water source and fate	0	m ³
Other resources	0	kg
Electricity consumption	0	kWh
Other energy carriers	0	MJ
Material loss	7% of delivered weight	%
Ceiling Panel Mounting System (CPMS)	~ 180	kg/MSF
Output substances following waste treatment on site	7% of delivered weight	%
Dust in the air	~ 0	kg
VOC emissions	< 0.5	μg/m³

Table 6: Use or application of the installed product (B1)

NAME	VALUE	Unit
RSL	75	years
VOC	< 9	μg/m³

Table 7: Maintenance (B2)

NAME	VALUE	Unit		
Maintenance process information	As required by the PCR, a standard Life expectancy for ceiling panels based on historic practices of 75 years shall be used. No maintenance is required.			
Maintenance cycle	0	Number/ RSL		
Maintenance cycle	0	Number/ ESL		
Water consumption	0	m ³		
Other resources	0	kg		







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Electricity consumption	0	kWh
Other energy carriers	0	MJ
Material loss	0	kg

Table 8: End of life (C1-C4)

NAME		1" Halcyon™ Eco	1" HALCYON™ ECO HEALTHCARE	Unit
Collection process	Collected separately	0	0	kg
(specified by type)	Collected with mixed construction waste	210	209	kg/MSF
	Reuse	0	0	kg
	Recycling	0	0	kg
Recovery	Landfill	210	209	kg/MSF
(specified by type)	Incineration	0	0	kg
	Incineration with energy recovery	0	0	kg
	Energy conversion efficiency rate	0	0	-
Disposal	Product or material for final deposition	210	209	kg/MSF
Removals of bioge	enic carbon (excluding packaging)	0	0	kg CO ₂

4. Life Cycle Assessment Results

Table 9: Description of the system boundary modules

PROD	DUCT S	TAGE	IC	STRUC T- DN CESS AGE	USE STAGE END OF LIFE STAGE					BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY						
A1	A2	А3	A4	A5	B1	B2	В3	В4	В5	В6	В7	C1	C2	C3	C4	D
Raw material supply	Transport	Manufacturing	Transport from gate to site	Assembly/Install	esn	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling Potential
Х	Х	Х	Х	Х	Х	X	X	Χ	Х	Х	Χ	Х	Х	Х	Х	MND





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Table 10: Acronym Key

ABBREVIATION	PARAMETER	Unit
	Life Cycle Impact Assessment Indicators	
GWP	Global Warming Potential	kg CO₂ eq.
ODP	Ozone Depletion Potential	kg CFC-11 eq.
AP	Acidification Potential	kg SO ₂ eq.
EP	Eutrophication Potential	kg N eq.
POCP	Photochemical ozone creation potential	kg O₃ eq.
ADP	Abiotic resource depletion potential – fossil fuels	MJ, LHV
	Resource Use Parameters	
RPRE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ, net calorific value (LHV)
RPRM	Use of renewable primary energy resources used as raw materials	MJ, net calorific value
RPRT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value
NRPRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ, net calorific value
NRPRM	Use of non-renewable primary energy resources used as raw materials	MJ, net calorific value
NRPRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value
SM	Use of secondary materials	kg
RSF	Use of renewable secondary fuels	MJ, net calorific value
NRSF	Use of non-renewable secondary fuels	MJ, net calorific value
RE	Recovered energy	MJ, net calorific value
FW	Net use of fresh water	m3
	Waste Parameters	
HWD	Disposed-of-hazardous waste	kg
NHWD	Disposed-of non-hazardous waste	kg
RWD	Radioactive Waste Disposed	kg
	Output Flow Parameters	
CRU	Components for reuse	kg
MFR	Materials for recycling	kg
MER	Materials for energy recovery	kg
EE	Exported energy	MJ







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3.1 Life Cycle Inventory Results

Table 11: North American Impact Assessment Results for 1" Halcyon™ Eco

TRACI v2.1	Units	A1-A3	A4-A5	B1-B7	C1-C4
GWP	kg CO ₂ eq.	1.03E+03	2.97E+01	0.00E+00	3.12E+00
ODP	kg CFC-11 eq.	5.02E-06	4.30E-15	0.00E+00	1.84E-12
AP	kg SO ₂ eq.	2.59E-06	1.51E-01	0.00E+00	2.00E-02
EP	kg N eq.	3.11E-01	1.44E-02	0.00E+00	9.18E-04
POCP	kg O₃ eq.	3.53E+01	3.29E+00	0.00E+00	3.78E-01
ADP	MJ, LHV	1.47E+03	5.28E+01	0.00E+00	5.52E+00

Table 12: North American Impact Assessment Results for 1" Halcyon™ Eco Healthcare

TRACI v2.1	Units	A1-A3	A4-A5	B1-B7	C1-C4
GWP	kg CO ₂ eq.	1.04E+03	2.97E+01	0.00E+00	3.12E+00
ODP	kg CFC-11 eq.	5.02E-06	4.30E-15	0.00E+00	1.84E-12
AP	kg SO ₂ eq.	2.61E-06	1.51E-01	0.00E+00	2.00E-02
EP	kg N eq.	3.12E-01	1.44E-02	0.00E+00	9.17E-04
POCP	kg O₃ eq.	3.56E+01	3.28E+00	0.00E+00	3.78E-01
ADP	MJ, LHV	1.48E+03	5.28E+01	0.00E+00	5.52E+00

3.2. Life Cycle Inventory Results

Table 13: Resource Use for 1" Halcyon™ Eco

PARAMETER	Units	A1-A3
RPR _E	MJ, LHV	7.46E+02
RPR_M	MJ, LHV	0.00E+00
RPR_T	MJ, LHV	7.46E+02
NRPR _E	MJ, LHV	1.83E+04
$NRPR_M$	MJ, LHV	5.25E+02
$NRPR_T$	MJ, LHV	1.83E+04
SM	MJ, LHV	1.57E+02
RSF	MJ, LHV	0.00E+00





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NRSF	MJ, LHV	0.00E+00
RE	MJ, LHV	0.00E+00
FW	m³	9.42E+01

Table 14: Resource Use for 1" Halcyon™ Eco Healthcare

PARAMETER	Units	A1-A3
RPR _E	MJ, LHV	7.96E+02
RPR_M	MJ, LHV	0.00E+00
RPR_T	MJ, LHV	7.96E+02
NRPR _E	MJ, LHV	2.68E+04
NRPR _M	MJ, LHV	5.25E+02
$NRPR_T$	MJ, LHV	2.68E+04
SM	MJ, LHV	1.57E+02
RSF	MJ, LHV	0.00E+00
NRSF	MJ, LHV	0.00E+00
RE	MJ, LHV	0.00E+00
FW	m³	9.42E+01

Table 15: Output Flows and Waste Categories for 1" Halcyon™ Eco

PARAMETER	Units	A1-A3
HWD	kg	8.58E-04
NHWD	kg	7.54E+02
RWD	kg	2.40E-01
CRU	kg	0.00E+00
R	kg	0.00E+00
MER	kg	0.00E+00
EE	MJ, LHV	0.00E+00

Table 16: Output Flows and Waste Categories for 1" Halcyon™ Eco Healthcare

PARAMETER	UNITS	A1-A3	
HWD	kg	8.58E-04	
NHWD	kg	7.79E+02	





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RWD	kg	2.45E-01
CRU	kg	0.00E+00
R	kg	0.00E+00
MER	kg	0.00E+00
EE	MJ, LHV	0.00E+00

4. LCA Interpretation

The cradle-to-gate LCA results for the production of 1" Halcyon™ Eco panels were dominated by contributions from the production of the fiberglass basemat. For example, the fiberglass basemat contribution for the 1" Halcyon™ Eco product contributed more than 58% of the total A1-C4 global warming potential.

Improvements should be directed at working with the 3rd party fiberglass supplier to lower the contribution attributable to the basemat.

5. References

LCA Report

LCA Report for USG Fiberglass Ceiling Panel Products. July 19 2019. USG.

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PCR Part A: UL Environment and Institute of Construction and Environment e.V., Königswinter (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report. July 2014, version 1.3

SUSTAINABILITY REPORTING STANDARDS

EN 15804: 2012-04 - Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction product.

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 14046:2013 - Environmental management- Water footprint- Principles, requirements and guidelines

ISO 15392:2008 - Sustainability in building construction- General principles

ISO 15686-1:2011 - Buildings and constructed assets- Service life planning- Part 1: General principles

ISO 15686-2:2008 - Buildings and constructed assets- Service life planning Part 2: Service life prediction procedures







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ISO 15686-7:2008 - Buildings and constructed assets- Service life planning Part 7: Performance evaluation for feedback of service life data from practice

ISO 15686-8:2008 - Buildings and constructed assets- Service life planning Part 8: Reference service life and service life estimation

ISO 21930: 2007 - Sustainability in building construction -- Environmental declaration of building products

