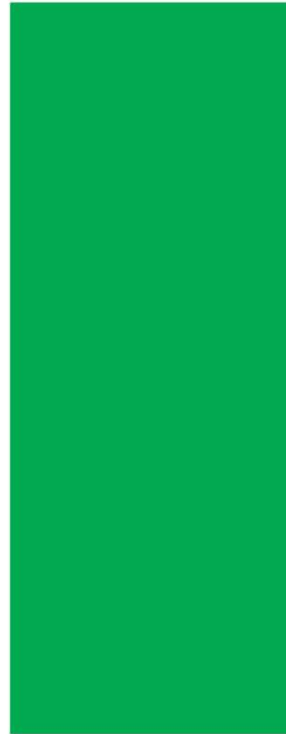
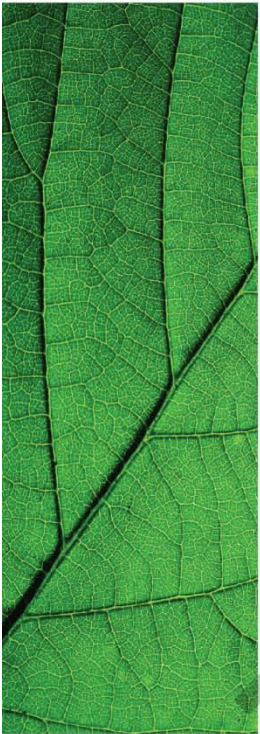


YOUR
COMPANY
LOGO

Environmental Product Declaration

Name of Product | Product Description





Company Name

Company Street Address
City, State Zip

Company Phone
Company Website

ENVIRONMENTAL PRODUCT DECLARATION VERIFICATION

EPD Information			
Program Operator		NSF International	
Declaration Holder		Name of the Client	
Product	Date of Issue	Period of Validity	Declaration Number
Product	Date of Issue	Period of Validity	Declaration Number
This EPD was independently verified by NSF International in accordance with ISO 14025: <input type="checkbox"/> Internal <input type="checkbox"/> External		[Signature of NSF Representative]	
		Name of Representative Contact Information for Representative	
This life cycle assessment was independently verified by in accordance with ISO 14044 and the reference PCR:		[Signature of LCA Representative]	
		Name of Representative Contact Information for Representative	
LCA Information			
Basis LCA		Title of LCA Date of Issue	
LCA Preparer		Name of Preparer Organization of Preparer Contact Information for Preparer	
This life cycle assessment was critically reviewed in accordance with ISO 14044 by:		Name of Critical Reviewer Organization of Reviewer Contact Information for Reviewer	
PCR Information			
Program Operator		NSF International	
Reference PCR		Reference PCR	
Date of Issue		Date of Issue	
PCR review was conducted by:		Name of Chair Organization of Chair Contact Information for Chair (through the program operator)	



ENVIRONMENTAL PRODUCT DECLARATION: DETAILED VERSION

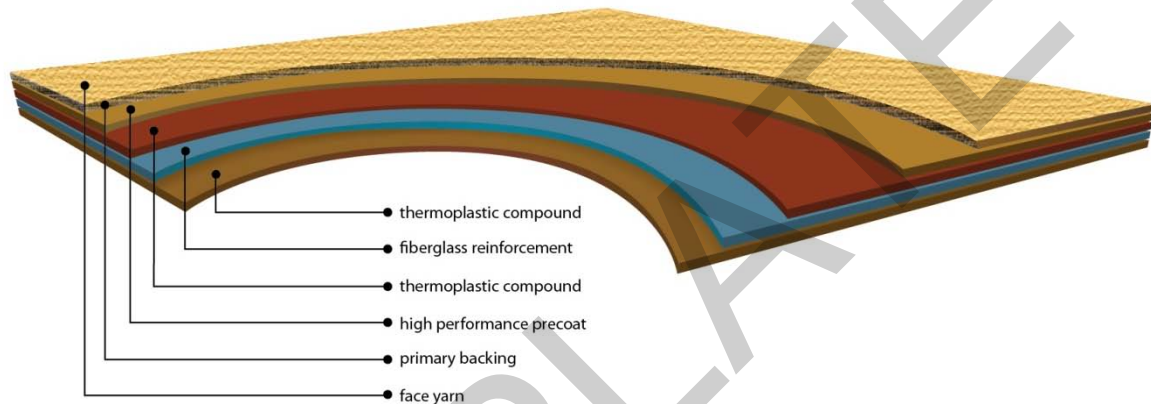


Product Description

Product classification and description

Clearly define the product. Include a general description of the product. Define product groups and average products. Include a technical illustration of the product.

Example: Technical Figure of Product



Applicability

Provide a description of the typical application and suggested use of the floor covering. Refer to Section 2.2 of the PCR for testing requirements.

Example:

Specification of carpet properties varies with intended application. The intended application and the performance to the following tests shall be declared.

AATCC² Test Method 134-2011 Electrostatic Propensity of Carpets (Normative value ≥ 3.5 KV)

AATCC² Test Method 16-2004 Colorfastness to Light (minimum grade 4 at 40 AFU)

ASTM⁶ E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source

ASTM⁶ E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

ASTM⁶ D5252 Standard Practice for the Operation of the Hexapod Tumble Drum Tester

ASTM⁶ D7330 Standard Test Method for Assessment of Surface Appearance Change in Pile Floor Coverings Using Standard Reference Scales

ISO¹⁴ 2551/ ASTM⁶ Dimensional Stability (Modular Tiles Only)



Product Characteristics

Describe the product characteristics.

Example: Product characteristic table for carpet

Type of manufacture			
Yarn type			
Additional characteristics according to NSF/ANSI 140			
Sustainable certifications	Certified to NSF/ANSI 140		
VOC emissions test method			
CRI- TARR rating			
Characteristics	Nominal Value	Unit	
Total thickness		mm (inch)	
Product weight		g/m ² (oz/ft ²)	
Surface pile thickness		mm (inch)	
Number of tufts or loops /dm ²		dm ² (ft ²)	
Surface pile weight		g/m ² (oz/ft ²)	
Pile fiber composition		%	
Secondary backing			



 **Material Content**

Material Content of the product

Specify the material content of the product.

Example: *Material Content Table for Carpet*

Component	Material	Mass %	Availability			Origin of Raw Materials
			Renewable	Non-Renewable	Recycled	
Pile Material	80 % Wool	30%	Abundant			New Zealand
	20% Nylon 6	8%		Fossil resource, limited		Global
Primary Backing	Polypropylene	10%		Fossil resource, limited		Global
Precoat	Latex	30%		Fossil resource, limited		Global
	Calcium Carbonate			Mineral, abundant		US
Back coating	Latex	20%		Fossil resource, limited		Global
	Calcium Carbonate			Mineral, abundant		US
Secondary Backing	Polypropylene	5%		Fossil resource, limited		Global

Production of main materials

Provide a short description of the main materials and their manufacturing processes.

Examples:

Styrene Butadiene Rubber (SBR) is a synthetic copolymer that is used as a primary cross-linkable binder in the manufacture of rubber flooring products and tires.

Calcium carbonate is an abundant mineral found in all parts of the world as the chief substance in rocks (i.e., marble and limestone). It can be ground to varying particle sizes and is widely used as filler in formulated flooring systems.



Life Cycle Assessment Stages and Reported EPD Information

Sourcing/extraction (raw material acquisition) stage

Provide a description or process flow diagram on how raw materials are sourced and extracted for the manufacturing process of the product.

Manufacturing stage

Describe the production process with a short description and/or provide the process flow diagram.

Example:



Health, safety, and environmental aspects during production

Provide statements on the means to protect health, safety, and the environment during production.

Examples:

- Environmental management systems (e.g., ISO 14001)
- Worker safety management system
- Use of certain production equipment (e.g., additional filters, etc.)

Production waste

Describe any waste minimization activities for the production process. List any pertinent certifications or awards.

Examples

- Elimination of toxic components
- Recycle of scrap and off-quality material

Delivery and installation stage

Delivery

Provide statements on delivery of the floor covering; include estimated vehicles and distances to the typical markets.

Installation

Provide a general description of the installation of the floor covering, including ancillary materials used for installation (e.g., adhesives or other setting materials).

For full details on installation recommendations, a reference to the manufacturer's instructions may be given. Include constraints on installation.



Health, safety, and environmental aspects during installation

Provide references to MSDS and/or other information needed to protect health, safety, or regarding environmental considerations during installation.

Example:

During the installation, adhesives are used that meet the requirements of California South Coast Air Quality Management District Rule #1168 or are in accordance with the emissions requirements in California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CA 01350 or may be referenced as FloorScore or Green Label Plus approved).

Waste

Describe all recommended collection and separation practices for waste accumulated at the installation site, including any take back system in place for post installation floor covering waste or packaging.

Example:

Post-installation carpet waste may be collected and thermally recycled in a waste incineration plant or thermally and materially recycled in the cement industry. Unmixed polyamide or polypropylene post-installation waste can be used for plastic recycling.

Packaging

Provide a description of types of packaging and packaging materials utilized.

Example:

Category	Material
paper	wrapping, labels, cores
cardboard	boxes, cores
wood	pallets
plastics	foils, etc.

Use stage

Use of the floor covering

State the recommended reference service life (RSL) in years or fractional years.

Cleaning and maintenance

Provide manufacturer recommendations on how to clean and maintain the floor covering.

Example:

Level of use	Cleaning process	Cleaning frequency (times/year)	Consumption of energy and resources	Long term maintenance/ restoration including frequency



Residential Commercial Industrial	vacuum cleaning buffing damp mopping wet cleaning stripping	dependent on the use/type of building; manufacturer may provide recommendations	electric energy water detergent cleaning chemicals	Sanding grout restoration hot water extraction
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Structural damage

Declare that interior floor covering is not installed until all structural damage has been adequately repaired and determined code compliant.

End of life stage

Recycling, reuse, or repurpose

Describe opportunities for the recycle, reuse, or repurpose the flooring product and provide guidance on how to proceed with these opportunities.

If available, give statements on the transportation (e.g., estimated vehicle, distance to the recycling/reuse site).

Disposal

Describe disposal methods for the floor covering. If available, give statements on the transportation (e.g., estimated vehicle, distance to the recycling/reuse site).



Life Cycle Assessment (LCA)

General

Provide statement of conformance to ISO 14040/ISO 14044. Identify life cycle stages assessed; if any of the stages identified in Section 6.7 of the PCR are not included, provide statement of justification for the omission. Include a block flow diagram of the life cycle stages.

Description of the functional unit

Provide a definition for the declared or functional unit per Section 6.2 of the PCR.

Cut-off criteria

Provide an explanation for the inclusion of inputs and outputs (cut-off rules) used in the LCA per Section 6.3 of the PCR. Address mass, energy, and environmental relevance as appropriate.

Allocation

Provide a statement regarding allocations made in any of the life cycle stages as per Section 6.4 of the PCR.

Example:

CO ₂ locked in wood	CO ₂ emitted through combustion or decompose wood	Balance
negative value: A	positive value: B	A+B



Background data

Specify the reference databases and other documentation used per Section 6.5 of the PCR. Identify the modeling software used.

Example:

Material	Data Source	Date
Wood Products	US Life Cycle Inventory Database http://www.nrel.gov/lci/database	2009
Plastics	LCA of 9 Plastics Resins, Franklin Associates	February 2011
Linseed oil	CML LCI dataset http://cpmdatabase.cpm.chalmers.se/	1994
Portland cement	Gabi extension database XIV: construction materials	2001
Melamine	Ecoinvent data V2.2 http://www.ecoinvent.org/	2007

Data quality

Provide data quality information per Section 6.6 of the PCR, covering temporal, geographical, and technological factors.

Example:

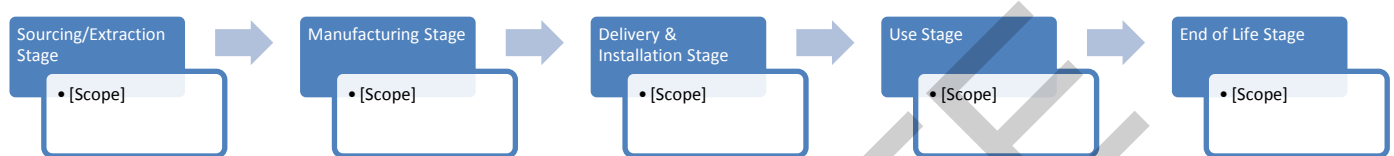
Process	Type of data	Period	Country of data collection	Data source	Completeness	Accuracy
Tufting	input-output analysis	2006	Germany	vertical integrated large scale plant	ok	good
Paper Impregnation	input-output analysis	2005	Europe	SME	ok	good
Dyeing	input-output analysis	2007	Belgium	Laboratory	ok	very good



System boundaries

Describe the boundaries of the product life cycle per Section 6.7, subdivided into sourcing/extraction stage, manufacturing stage, delivery and installation stage, use stage, and end of life stage. Include a block flow diagram to illustrate the boundaries and the stages.

Example:



Note on use stage

Provide information on the estimated service life of a floor covering and required maintenance of the product.

Impact declaration and use stage normalization

Reference Section 6.8.1 for LCA impact modeling scenarios and insert completed tables.

Results of the Assessment

Document the LCA results for each stage:

1. Sourcing/extraction stage
2. Manufacturing stage
3. Delivery and installation stage
4. Use stage (Declare results for both a single year and for the entire service life.)
5. End of life stage

Life Cycle Inventory Analysis

Calculate and declare the following parameters in the EPD. Additional parameters may be added.

- A. Primary energy of non-renewable resources (mJ), subdivided into (%):
 - 1) Lignite:
 - 2) Mineral coal:
 - 3) Natural gas:
 - 4) Oil:
 - 5) Nuclear:
- B. Primary energy of renewable resources (mJ), subdivided into (%):
 - 1) Hydropower:
 - 2) Wind power:
 - 3) Solar energy (solar power, biomass) :
- C. Secondary fuels specified (mJ):
- D. Non-renewable material sources (kg):
- E. Output flows
 - 1) Non-hazardous waste (kg) :
 - 2) Hazardous waste (kg) :
- F. Additional Parameters List



Life cycle impact assessment

Include tables and graphs documenting the following potential impacts per functional unit and life cycle stage per Section 6.11 of the PCR. Refer to Section 6.8.1 of the PCR for LCA impact declarations and use stage normalization.

Interpretation

Discuss the results of the LCA, including pertinent results from any sensitivity analyses that may have been conducted.



Additional Environmental Information

Provide any additional pertinent information.



References

List all references utilized in the EPD.

Example:

- Flooring PCR
- ISO 14025: Environmental labels and declarations – Type III environmental declarations – Principles and procedures
- ISO 14040: Environmental management - Life cycle assessment – Principles and framework
- ISO 14044: Environmental management - Life cycle assessment – Requirements and guidelines
- Basis LCA



NSF has prepared the following checklist to guide companies in their submission of information for their Environmental Product Declaration (EPD). Please utilize this checklist to complete the EPD template as well as provide NSF with the appropriate electronic files to tailor the EPD cover image to the particular product in review.

Cover Page

- Complete Form Field for the Name of the Product and Product Description, this is a short description of the product.

Send NSF the following files to include on the Cover Page:

- Electronic File of Company Logo
- Electronic File of Company Product Image

Format of these should be as follows:

File type: .jpeg
File Size: minimum 5x5

EPD Verification Page 2

- In the header, change the “Name of Product / Product Description” to include the name of the product and the description of that product as indicated on the cover page. Once changed on this page, this will be reflected on all other pages.
- Complete Form Fields for Company Name, Company Address, Phone Number and Website

NSF will complete the verification portion of the EPD.

EPD: Detailed Version

- Read the descriptions in the form fields.
 - Utilize the form fields to free-type information to support the description for each item. Where necessary, check boxes.
- Paste a photo of the Product Image with Descriptive Details, as indicated in the example.
- Provide examples where necessary. Please replace the form examples with the actual information for the product. Refer to the Product Category Rule (PCR) to provide the most accurate information as required by the PCR.
- Make sure to delete the form examples provided, where necessary. All examples are indicated by the following: “*Example:*”
- Do not delete pre-typed sections or tables that include form fields.
- Complete form fields within tables.