



Product Category Rule (PCR) Guidance for Building-Related Products and Services

Part B: Wall and Door Protection EPD Requirements

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Product Category Rules for Part B: Wall and Door Protection EPD Requirements, UL 10010-10

First Edition, Dated May 22, 2019

Summary of Topics

The First Edition of the Part B: Wall and Door Protection EPD Requirements, UL 10010-10 has been issued.

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Publisher:

UL Environment

Tracking of versions

Version	Comments	History
1.0	UL Environment with input from a committee	May 22, 2019

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Editor's Note:

This PCR is valid for a period of five (5) years, set to expire in May 22, 2024.

I. Background Information and Acknowledgements

These sub-category Product Category Rules (PCR) were developed to address the product specific rules for the creation of Environmental Product Declarations (EPD) for wall and door protection products. When used to self-reference this document, "PCR" refers to "sub-category PCR."

Other standards and PCRs considered in the original development of this PCR include:

- Part A: Life Cycle Assessment Calculation Rules and Report Requirements UL Environment (December 2018, version 3.2)
- ISO 21930: 2017 - Sustainability in building construction -- Environmental declaration of building products
- EN 15804:2012+A1:2013 - Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products

In addition to the above normative references, the following are noted guidance references used in the development of this PCR:

- Life Cycle Assessment Construction Specialties, Inc, WAP Consulting, LLC, February 2019
- Life Cycle Assessment of Plastic and Metal Building Components, Thinkstep, On behalf of Inpro Corporation, October 31, 2013 (Addendum July 15, 2015).

This PCR assumes a 75 year building service life to be consistent with ASTM E2921 (2013, Section 6.1.1), and ASHRAE 189.1 (2014, Section 9.5.1).

Interested Parties

This Part B has been prepared with input from the following stakeholders:

Manufacturers

- Construction Specialties
- Inpro Corporation
- Santa Luzia

Governance

There is no trade association for manufacturers of wall and door protection products. The parties participating in the PCR update are representative of wall and door protection products produced in North America and Brazil.

Involvement of Interested Parties

UL informed industry stakeholders of this PCR development through e-mail messages and public notice.

Per the USGBC 2017 PCR Guidance, a minimum of three companies were included in the development of this PCR.

UL Environment posted an open call for participation in this PCR update in May 2018 via its standards website, social media outlets, and outreach to original committee stakeholders and Life Cycle Assessment (LCA) practitioners. UL Environment also pursued direct outreach with manufacturers in the markets represented in this PCR.

The PCR committee members drafted the PCR through collaborative virtual meetings. The PCR was posted for public comment for 30 days from Nov 7, 2018 - Dec 7, 2018.

Note: Notification of a call for participation shall be published by either a third party or a trade association in at least one industry trade publication or trade association press release informing industry of EPD intent. At a minimum, 50% of the industry as represented by regional market volume shall be included, with a minimum of at least three (3) different companies represented. The call for participation shall also be made public and communicated by the program operator.

Update Process

The PCR shall be revised five (5) years from the publication date. The PCR shall be revised before the five year date if the following occurs in the industry: major regulatory change that alters the requirements for wall and door protection products; major shift in the markets such that a new material or system predominates that can no longer be characterized adequately by the definitions in this PCR.

Review

The review process of this Part B PCR included a review through public consultation in November 7, 2018 - December 7, 2018 and a panel review.

This Part B was reviewed by the following panel:

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Public Consultation

Public consultation was utilized during the PCR review process. The public consultation of the completed draft PCR included a 30-calendar-day period for comments to be submitted to UL Environment. After public comments were submitted, the PCR committee reviewed and developed responses for all comments. All comments from the review panel and public consultation were addressed and satisfactorily resolved by the PCR committee prior to the publication of this PCR.

II. Scope

This document contains the Product Category Rule (PCR) requirements for a Wall and Door Protection Environmental Product Declaration (EPD) published in accordance with the ISO 21930 and EN 15804 standards. The requirements for the background Life Cycle Assessment (LCA) project report used to inform the EPD are contained in UL Environment's Part A: Life Cycle Assessment Calculation Rules and Report Requirements. This Part B document, coupled with the Part A, conforms to the ISO 21930, EN 15804, and ISO 14025 European and international standards for EPD reporting.

General Guidance

The scope of this PCR applies to the product group "wall and door protection products" and includes all commercially available wall and door protection products according to the standards or technical approvals shown under Sections 2.5 and 9, regardless of material type, including but not limited to: wall and door sheet protection, handrails, corner guards, kickplates, door knob protectors, wall guards, wall panels, headboards, crash rails, rub strips, door frame guards, column guards, solid surface wall cladding, elevator interiors, solid surface shower and privacy partitions, baseboard, wall trim, crown molding, wall base, door casing and chair rails.

Wall and door protection products are important to protect building interiors from damage, minimize maintenance requirements, and provide pleasing indoor aesthetic qualities.

Applicable Products

The following Construction Specification Institute (CSI) Masterformat codes cover the scope of this Part B:

10 26 00 Wall and Door Protection (UNSPSC Code 52170000 - Domestic wall treatments)

- - o 10 26 13 Corner Guards
 - o 10 26 16 Bumper Guards
 - o 10 26 16.13 Bumper Rails
 - o 10 26 16.16 Protective Corridor Handrails
 - o 10 26 23 Protective Wall Covering
 - o 10 26 23.13 Impact Resistant Wall Protection
 - o 10 26 23.16 Fiberglass Reinforced Protective Wall Covering
 - o 10 26 33 Door and Frame Protection
 - o 10 26 41 Bullet Resistant Panels
- 09 06 00 Schedules for Finishes (UNSPSC Code 30161500- Wall finishing materials)
 - o 09 06 00.13 Room Finish Schedule
 - o 09 06 70 Schedule for Wall Finishes
- 09 72 16.16 Rigid Sheet Vinyl Wall Covering (UNSPSC Code 72151400- Wall covering)
- 09 77 00 Special Wall Surfacing
- 09 78 00 Interior Wall Paneling
- 10 25 13 Patient Bed Service Headwalls
- 10 26 23 Flexible Protective Wall Covering
- 14 27 00 Custom Elevator Cabs

Non-Applicable Products

Product systems that are designed with protection capabilities but do not primarily serve a protective function (i.e. Impact Resistance Wood Doors, Clad Wood Doors) are not included in the scope of this PCR.

System Boundary

The system boundaries for EPDs created using this PCR are cradle to gate, cradle to gate with options, and cradle to grave.

The EPD requirements include:

- Requirements of the ISO 21930 standard for the purpose of consistency across geographies and EPD programs.
- Requirements of the EN 15804 standard as a European core EPD for the purpose of consistency between declarations in Europe and the United States.
- Requirements of the ULE General Program Instructions v 2.3, February 2018 (available upon request)
- The calculation rules for the Life Cycle Assessment and Requirements on the Project Report are specified in a separate document as Part A v3.2 of the Product Category Rules, available at <https://www.shopulstandards.com/ProductDetail.aspx?UniqueKey=35235>

III. Industry-Average EPD and Report Requirements

Industry-Average EPD Scope

The scope of products represented within a single industry-average EPD created using this PCR is limited to the primary material adhering to the technical requirements in Section 2.5 (specifically Table 1) that characterize the product in commerce.

Involvement of Interested Parties

A call for involvement of interested parties in the creation of an industry-average EPD shall be published in at least one industry trade publication or the equivalent. At a minimum, at least three (3) different manufacturing locations from no less than two (2) companies should be involved and represented in an industry-average EPD. The method for determining representativeness shall be justified and described per the requirements listed in Part A, Section 2.5.1.

Industry-Average EPD Participation

A manufacturer qualifies for participation in an industry-average EPD created using this PCR if they provide primary manufacturing data used in calculating the initial EPD average or demonstrate willingness to provide primary manufacturing data during the LCA data collection process. Any manufacturer providing data shall be willing to undergo an audit to ensure accuracy of data.

Retroactive participation

A manufacturer desiring retroactive inclusion in the industry average EPD shall provide the manufacturing and product data information submitted in the original industry average EPD to the LCA practitioner. The LCA practitioner will then recommend to the Program Operator a determination for inclusion in the industry average on the basis of results falling within a reasonable range for any impact category. The maximum and minimum should be reported in the LCA background report for each impact category based on the highest and lowest impact product or facility within the original industry-wide LCA.

When determining a manufacturer's participation eligibility, the EPD Program Operator shall follow the recommendations of the primary sponsor(s) of the industry average EPD and participating manufacturers unless the Program Operator has information to the contrary, in which case the Program Operator, LCA practitioner, primary sponsor of the industry average EPD, and manufacturer shall confer in an effort to reach consensus.

Governance

An industry organization, such as a trade association, shall inform all eligible industry participants through association meetings, newsletters, e-mail messages, and similar types of outreach, including public notices in the trade press publications. If no industry organization exists, a manufacturer must confer with a Program Operator to insure sufficient outreach is conducted via available channels. Confidential business information shall be collected by a third party. Data from the third party shall be aggregated with no trace to the original source of data.

The development of an industry-average EPD and/or update of such an EPD should involve a series of meetings and exchanges in which all participants are invited and kept apprised of the developments. Advance notices as well as the minutes of these meetings shall be shared with all eligible participants regardless of whether they actively participate. These notices and meeting minutes should be preserved as documentation of the process and due diligence observed in the creation or renewal of the EPD.

Data Responsibility/Ownership

The collection of companies which commissions an industry-average EPD shall designate an external party to collect and aggregate inventory data – also called the “data owner”. While each company retains ownership of their own data, participation in the industry-average EPD grants the data owner to collect and aggregate data from all participants without exposing information from an individual company to another party. Once the industry-average EPD is published by the program operator, the program operator becomes the de facto data owner unless the industry participants otherwise specify an external party to continue in that role.

Industry-Average EPD Updates

An update to the existing EPD, or new EPD, may need to be developed at the discretion of the EPD owner prior to the five validity period years if there are: 1) significant¹ changes in the manufacturing process; 2) new industry participants; 3) significant² changes or alterations in raw materials; 4) applicable (define) regulatory changes that mandate or trigger changes to operational procedures; or 5) significant¹ (define) technological changes would also justify creation of an updated EPD.

Additional companies may be added to an existing industry-average EPD at the scheduled review by submitting data and having the industry average impacts recalculated.

¹ Here, significance refers to +10% changes to inputs or outputs to the manufacturing process(es) in the form of raw materials, energy, and/or emissions.

² Ibid