



ADDENDUM

Product Category Rules for preparing an environmental product declaration (EPD) for PCR:

IBU
Product Category Rules

Part B: Requirements on the EPD for Bathroom Fittings and Showers
February 2018

VERSION 1, February, 2018
VALID THROUGH February, 2020

Addednum for the Product Category Rules (PCR) Guidance for Building-Related Products and Services
Part B: Requirements on the EPD for Bathroom Fittings and Showers, UL 10010–8

First Edition, Dated February 20, 2018

Summary of Topics

The first edition of the Addednum for the Product Category Rules (PCR) Guidance for Building-Related Products and Services Part B: Requirements on the EPD for Bathroom Fittings and Showers, UL 10010–8 has been issued.

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Bathroom Fittings

According to ISO 14025
and ISO 21930

PCR Addendum for IBU Part B: Bathroom Fittings and Showers version 1.6 February, 2018**Scope of validity of this
PCR Addendum**

Surface-mounted and under-plaster bathroom fittings manufactured from metals or plastic as well as composite materials, e.g. made of metal and plastic.

Bathroom fittings include, e.g. taps, showers, shower hoses, shower systems, drain systems, contact-free fittings.

This scope differs from the original IBU Part B PCR in that showers are excluded. This product category is included in UL's Part B for Plumbing Vessels, expected publication in January 2018.

Content

This PCR Addendum determines the product group specific rules modifications for:

- the creation of the Environmental Product Declaration (EPD)
- the calculation of the Life Cycle Assessment (LCA) and the creation of the project report on the LCA

Further requirements are given in UL Environment's Product Category Rules Part A: Life Cycle Assessment Calculation Rules and Report Requirements (December 2017, version 3.0)

Versions overview

Version	Description	History
1	Version by UL Environment	2/23/2018

Editor's Notes:

This PCR Addendum is based on adaptations made to an existing PCR from the Institut Bauen und Umwelt e.V., Building metals, v. 1.6 November 2017. Adaptions listed in this Addendum make the PCR applicable to North America and rely on the previously adapted IBU Part A by UL Environment to North America. These include, but are not limited to: units, functional unit, impact assessment methods, testing methods and requirements, use phase options, references, and standards. The intent is to follow ISO 14025 Section 6.7.1 and utilize existing PCRs where relevant, justifying differences based on region, rather than origin. The revisions are not modifications to the overall methodology or structure of the IBU PCR, but are intended to reflect practices, methods and requirements that are specific to North America.

Bathroom Fittings

According to ISO 14025
and ISO 21930

1. INTRODUCTION TO THE ADDENDUM

UL Environment has a mutual recognition program with IBU, a German EPD program operator. In the spirit of consistency and as part of this mutual recognition program, UL Environment has harmonized and regionalized the IBU core PCR, Part A, to be relevant for products sold and used in North American markets. As Phase II, UL Environment is now harmonizing and regionalizing IBU Part B PCRs on an as-needed basis.

Purpose and Scope of this Addendum

This Addendum creates a basis for utilizing an existing PCR, Part B: Bathroom Fittings and Showers, for the purposes of establishing a common platform for the communication of the life cycle impact assessment results and other salient environmental information.

The Scope of this Addendum is applicable to bathroom fittings manufactured from metals or plastic as well as composite materials, e.g. made of metal and plastic. Bathroom fittings include, e.g. taps, showers, shower hoses, shower systems, drain systems, contact-free fittings.

This scope differs from the original IBU Part B PCR in that showers are excluded. This product category is included in UL's Part B for Plumbing Vessels, with an expected publication in January 2018.

This PCR Addendum is valid for two (2) years from the date of publication. An annual review will be conducted whereby UL Environment will determine the need for continuing this addendum. In such a case where there is a North American PCR that is completed and directly applicable, it is expected that this Addendum will no longer be needed, and UL Environment allow the Addendum to be replaced with the new PCR, as applicable.

2. SPECIFIC ADAPPTIONS TO THE IBU PART B PCR FOR BATHROOM FITTINGS AND SHOWERS

Scope

- Product category scope modified to exclude showers
- Reference requirements on the EPD including:
 - o Requirements of the ISO 21930 standard and EN 15804 standard as a European core EPD for the purpose of consistency between declarations in Europe and the United States.
 - o UL Environment General Program Instructions

Bathroom Fittings

According to ISO 14025
and ISO 21930

Notes on use of the format template

The program operator-specific EPD template may be used for reporting.

Product-group-specific LCA calculation rules from PCR part A

- In the event of a declared product, the average household size in the US shall be assumed at 2.53 people.¹
- For commercial product applications, 260 days per year shall be assumed.
- For residential product applications, 365 days per year shall be assumed.
- For flushometer valves for toilets and urinals in an average US commercial environment, the use assumptions from Sustainable Mind's Part B: Commercial flushometer valves shall be used

2. Product**2.1. PRODUCT DESCRIPTION**

The alternative options do not need to be specified; 1a, 1b, 2a, 2b, 3

The method for creating a company specific individual product/product group EPD shall be described, including the method for determining a weighted average across products based on production volume.

The manufacturing site(s) which the results of the LCA represent shall be specified. Only products within the same sub-category may be grouped when reported as an average product within the same EPD. When product grouping occurs, the EPD should clearly state this averaging has taken place and all products included shall be named within the EPD.

The EPD must be specified as cradle-to-grave with modules A1-C4 included and module D excluded. For EPDs representing an average of similar products, a description of what the average represents shall be included.

The EPD shall specify whether the product is residential or commercial in use for achieving the declared technical and functional performance and the RSL.

The allocation procedures and cut-off procedure must be described. Include the statement "no known flows are deliberately excluded from this EPD"

2.2. APPLICATION

Update section title to "Market Placement/Application Rules"

¹ <https://www.statista.com/statistics/183648/average-size-of-households-in-the-us/>