

Public Review Draft

Proposed Addendum an to Standard 189.1-2023

Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (July, 2026)
(Draft Shows Proposed Changes to Current Standard)

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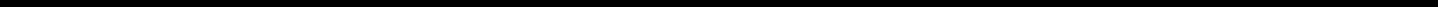
Foreword

This addendum simplifies the whole building life cycle assessment (WBLCA) path within the standard. It provides several options to allow jurisdictions to choose the level of stringency of the WBLCA. An additional jurisdictional option is provided to remove reporting of certain impact categories. It adds further clarification to supplement the requirements and options presented in ASTM E2921. It has the added benefit of aligning ASHRAE 189.1 and LEED v5.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum an to 189.1-2023

Modify Section 9.5 as follows:



~~**9.5.2 Life Cycle Assessment**~~ *(delete current Section 9.5.2 in its entirety)*

Table 4-2 Requirements Determined by the Jurisdiction (Normative in IgCC)

Section	Title, Description and Directives	Jurisdictional Requirement
9.5.2	WBLCA – Inclusion of additional impact categories	no
9.5.2.2	WBLCA – ASTM E2921-compliant WBLCA compared with baseline building	no
9.5.2.3	WBLCA – limited scope WBLCA	no

9.5.2 Whole Building Life-Cycle Assessment (WBLCA). A cradle-to-grave whole building *life-cycle assessment* (WBLCA), including modules A1-A5, B1-B5, and C1-C4, shall be conducted. Operating energy (B6) and operating water use (B7) - shall be permitted to be included. The WBLCA shall comply with not less than one of the following: Sections

9.5.2.1, 9.5.2.2, or 9.5.2.3.

The WBLCA report shall include results for the following primary impact categories using the default characterization method in Table 5 of ISO 21930 for the project location:

- a. GWP
- b. Ozone depletion potential
- c. Acidification potential
- d. Eutrophication potential
- e. Photochemical oxidant creation potential
- f. Depletion of nonrenewable energy resources

Data sets used in the development of the WBLCA shall be consistent with data sets utilized in ISO 14040/14044 compliant product LCAs and utilized in Product Category Rules development in accordance with ISO 21930 and/or EN 15804+A2.

[JO] The following additional impact categories shall be reported in the WBLCA: Land Use, Resource Depletion, and Human Health Effects.

9.5.2.1 Inclusion of Impact Reductions. The WBLCA shall be conducted in accordance with ASTM E2921, compared to a functionally equivalent baseline building developed for the same project, and demonstrate not less than 5% reductions in not less than three primary impact categories, one of which shall be GWP. The data sets, characterization methods, and any software or calculation tool used to develop the WBLCA and functionally equivalent building shall be the same.

[JO] 9.5.2.2 Comparison to Functionally Equivalent Buildings. The WBLCA shall be conducted in accordance with ASTM E2921 and compared to a functionally equivalent baseline building developed for the same project. The data sets, characterization methods, and any software or calculation tool used to develop the WBLCA and functionally equivalent building shall be the same.

[JO] 9.5.2.3 Limited Scope WBLCA. The WBLCA shall include the project's structure, enclosure, and *hardscape* materials.

11. NORMATIVE REFERENCES

Reference	Title	Section
ASTM E2921-22	Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems.	<u>9.5.2, 9.5.2.1, 9.5.2.2</u>
<u>European Committee for Standardization (CEN)</u> <u>Rue de la Science 23B - 1040</u> <u>Brussels, Belgium</u> <u>+32 2 550 08 11</u> <u>www.cencenelec.eu/about-cen/</u>		
<u>EN15804+A2 (2019)</u>	<u>Sustainability of Construction Works – Environmental Product Declarations – Core Rules for the Product Category of Construction Products</u>	<u>9.5.2</u>
International Organization for Standardization (ISO) ISO Central Secretariat		

Chemin de Blandonnet 8 CP 401 - 1214 Vernier, Geneva, Switzerland +41-22-749-01-11; www.iso.org		
ISO 14025:20062026	Environmental Labels and Declarations—Type III Environmental Declarations—Principles and Procedures <u>Environmental Labels and Declarations—Environmental statements and programmes— Environmental product declarations (EPDs)</u>	9.4.2
ISO 14040:2006	Environmental Management—Life Cycle Assessment—Principles and Framework	9.4.2, <u>9.5.2</u>
ISO 14044:2006	Environmental Management—Life Cycle Assessment—Requirements and Guidelines	9.4.2, <u>9.5.2</u>
ISO 21930:2017	Sustainability in Buildings and Civil Engineering Works—Core Rules for Environmental Product Declarations of Construction Products and Services	9.4.2, <u>9.5.2</u>