

X01.2 Restrict Mercury

Technical Document

WELL Building Standard™ version 2 (WELL v2™), Q4 2022 addenda



HOW TO USE THIS DOCUMENT:

This document is intended to serve as a guide on how to create a project **technical document to reduce or eliminate human exposure to building materials known to be hazardous.**

This document is meant to demonstrate an acceptable degree of detail for

- precertification documentation submission
- documentation submission

For precertification documentation submission:

To achieve WELL Precertification, project teams may submit intent-stage or implementation-stage documents for pursued features, or any combination of the two. An intent-stage document is typically a draft document that has not yet been implemented in the actual project, while implementation-stage documents describe final and implemented strategies. Intent and implementation-stage documents should be similar in terms of level of detail. For final WELL Certification documentation approval, all documents are required to be implementation -stage. To learn more about intent-stage vs. implementation-stage documentation, review the [precertification guide](#) in our knowledge base.

Intent-stage language is indicated in this sample document with **green text and in parentheses**. For an intent-stage technical document, the product specification sheets can be for products that are planned to be installed rather than already purchased and installed. This document cannot simply state that the feature requirements will be implemented; the documentation should include adequate detail such that a WELL Reviewer will be able to confirm the document complies with all of the WELL feature part requirements.

For documentation submission:

The level of detail is up to the discretion of the project team, but the documents must include specific details demonstrating that the actual requirements have been enacted in the project boundary. The Feature cannot be demonstrated solely through a confirmation that the requirements have been or will be implemented.

This document and similar tools are intended to assist projects in their pursuit of WELL v2 but use of this document and/or similar tools are in no way a guarantee of achievement of any rating, certification or other designation, and no representation or warranty is made regarding the likelihood of achieving any rating, certification or other designation, and IWBI shall have no liability resulting from the use or content of this document or similar tools or resources or from any action taken or inaction occurring in reliance on this document or similar tools or resources.

Note: The below document is based on the Q4 2022 addenda of the WELL Building Standard™ version 2 (WELL v2™). Project teams are required to implement the feature requirements from the addenda version assigned to their project or any more recent addenda version.

FEATURE PART REQUIREMENTS:

For All Spaces

The following requirements are met:

- a. Newly installed fluorescent and sodium lamps, if present, meet one of the following:
 1. RoHS restrictions.
 2. The following specifications:

| <i>Fluorescent Lamp</i> | <i>Maximum Mercury Content</i> |
|-------------------------------------|--------------------------------|
| <i>Compact, integral ballast</i> | <i>3.5 mg</i> |
| <i>Compact, no-integral ballast</i> | <i>3.5 mg</i> |
| <i>T-5, circular</i> | <i>9 mg</i> |
| <i>T-5, linear</i> | <i>2.5 mg</i> |
| <i>T-8, eight-foot</i> | <i>10 mg</i> |
| <i>T-8, four-foot</i> | <i>3.5 mg</i> |
| <i>T-8, U-bent</i> | <i>6 mg</i> |
| <i>High-Pressure Sodium Lamp</i> | <i>Maximum Mercury Content</i> |
| <i>400 W or less</i> | <i>10 mg</i> |
| <i>Over 400 W</i> | <i>32 mg</i> |

- b. Newly installed fire alarms, meters, sensors, relays, thermostats and load break switches meet one of the following:
 1. RoHS restrictions.
 2. Products contain no more than 0.1% (1000 ppm) of mercury by weight.

WELL Core Guidance:

Meet these requirements for the extent of developer buildout.

The below sample documentation is intended to provide guidance in creating a technical document for restricting mercury. It is not a template. You may note included components that are not required to demonstrate compliance with this Feature.

Example document for Feature X01 Part 2

The following example is for a large-scale new construction project in Europe where RoHS restrictions are commonly used.

Technical Document – [PROJECT NAME]

Per guidance in the Verification Tab, ten (10) product sheets have been provided indicating that materials *(intent-stage: planned materials)* meet WELL requirements. Note, there were more than ten (10) compliant products installed *(intent-stage: planned to be installed)* in the project, so a variety of types of compliant products have been included.

Below is a table of contents indicating the product sheets that are included, organized by product type:

- **Fluorescent and sodium lamps that meet RoHS restrictions:**
 1. [INSERT PRODUCT NAME], [PAGE #]
 2. [INSERT PRODUCT NAME], [PAGE #]
 3. [INSERT PRODUCT NAME], [PAGE #]
 4. [INSERT PRODUCT NAME], [PAGE #]
- **Fluorescent and sodium lamps that meet WELL thresholds:**
 5. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
- **Fire alarms, meters, sensors, relays, thermostats and load break switches that meet RoHS restrictions:**
 6. [INSERT PRODUCT NAME], [PAGE #]
 7. [INSERT PRODUCT NAME], [PAGE #]
 8. [INSERT PRODUCT NAME], [PAGE #]
 9. [INSERT PRODUCT NAME], [PAGE #]
- **Fire alarms, meters, sensors, relays, thermostats and load break switches that contain no more than 0.1% (1000 ppm) of mercury by weight:**
 10. [INSERT PRODUCT NAME], [PAGE #]

Attach product sheets. Consider highlighting and/or annotating the section of the product sheet that details the mercury content and numbering the pages of the complete document so that the reviewers can find individual products. Information on mercury content may be located on, for example:

- *A safety data sheet in a section that details components (clearly showing that mercury is not on the list)*
- *A product sheet declaring a product is mercury-free*
- *A technical sheet that states RoHS compliance*
- *A third party reviewed EPD, HPD or similar document detailing that there is no mercury in the product*

The next example is for a small interiors project that did not need to install many new fluorescent lamps, sodium lamps, fire alarms, meters, sensors, relays, thermostats or load break switches. It is in a region of the world where RoHS products are not sold.

Technical Document – [PROJECT NAME]

Per guidance in the Verification Tab, ten (10) **or all** product sheets must be provided for new fluorescent lamps, sodium lamps, fire alarms, meters, sensors, relays, thermostats and load break switches. The project is a small interiors project, so there were *(intent-stage: are)* only seven (7) products that fall into these categories installed *(intent-stage: that are planned to be installed)* in the project. Below is a table of contents indicating the product sheets that are included, organized by product type:

- **Fluorescent and sodium lamps that meet WELL thresholds:**
 1. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
 2. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
 3. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
 4. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
 5. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
 6. [INSERT PRODUCT NAME], [RELEVANT WELL THRESHOLD], [PAGE #]
- **Fire alarms, meters, sensors, relays, thermostats and load break switches that contain no more than 0.1% (1000 ppm) of mercury by weight:**
 7. [INSERT PRODUCT NAME], [PAGE #]

Attach product sheets. Consider highlighting and/or annotating the section of the product sheet that details the asbestos content and numbering the pages of the complete document so that the reviewers can find individual products. Information on asbestos content may be located on, for example:

- *A safety data sheet in a section that details components (clearly showing that mercury is not on the list)*
- *A product sheet declaring a product is mercury-free*
- *A technical sheet that states RoHS compliance*
- *A third party reviewed EPD, HPD or similar document detailing that there is no mercury in the product*

The next example is for an existing project that has installed no new products that fall within the scope of X01.2 Restrict Mercury.

Technical Document – [PROJECT NAME]

[PROJECT NAME] is an existing project and no new fluorescent lamps, sodium lamps, fire alarms, meters, sensors, relays, thermostats or load break switches have been installed since the project was registered for WELL certification.

TIPS FOR MULTIPLE LOCATIONS

- Organizations participating in WELL at scale should indicate which locations are pursuing this feature, and then submit the specific details for the locations selected for an audit.