

X01.2 Restrict Mercury

Technical Document

WELL Building Standard™ version 2 (WELL v2™), Q1 2021 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 a documentation submission. The Feature cannot be demonstrated solely through a confirmation that the requirements have been or will be implemented. 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.

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 or designation, and no representation or warranty is made regarding the likelihood of achieving any rating or designation.

Note: The below document is based on the Q1 2021 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:

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

- 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 meet WELL requirements. Note, there were more than ten (10) compliant products 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 only seven (7) products that fall into these categories 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 Portfolio or the multiple projects pathway can submit a Guideline for this feature part, as well as a technical document for each audited project. This Guideline must outline the feature requirements, at minimum, and it can be shared across multiple projects as a means to provide guidance for compliance. A subset of audited projects must also each submit their own technical document that demonstrates compliance with the feature requirements.