

## L01.1 - Option 3: Building design (All Spaces except Dwelling Units)

## L01.1 - Option 2: Facade design (Dwelling Units)

### 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 **provide indoor light exposure through daylight and electric light strategies**.

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 architectural drawing, if the project is still in design, drawings do not have to be final. It can be submitted according to the design phase it is in. 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 except Dwelling Units***

*One of the following requirements is met:*

- a. The envelope glazing area is no less than 7% of the regularly occupied floor area for each floor level.*
- b. The floor plate is no more than 65 ft between opposite walls that each have transparent envelope glazing, and there are no opaque obstructions higher than 3.2 ft within a 20 ft horizontal distance of the transparent envelope glazing.*

### ***For Dwelling Units***

*The following requirement is met:*

- a. The envelope glazing area is no less than 7% of the regularly occupied floor area for each dwelling unit.*

### WELL Core Guidance:

Meet these requirements in the whole building.

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

*Example document for Feature Part 1 – Option 3.a for spaces except dwelling units / Option 2.a for dwelling units*

## CALCULATION INSTRUCTIONS

1. Locate either architectural drawings or photographs of the façade/exterior of the project.
  - a. If the project is using architectural drawings, they should ideally be from the final set of drawings for the project (e.g. as-built drawings, 100% construction drawings, etc.), or at minimum a set of drawings that indicates final glazing sizing and locations. *(Intent-stage: if the project is still in design, drawings do not have to be final)*
  - b. If the project is using photographs, ensure that they clearly depict all exterior project glazing.
2. Measure the total square footage of exterior glazing:
  - a. For all spaces except dwelling units, determine the project area of glazing for each floor.
  - b. For spaces that are dwelling units, determine the glazing area per unit.
  - c. Methods of measuring can include:
    - i. Using a CAD based program to calculate total area of exterior glazing based off project drawings.
    - ii. Manual measurements of glazing and windows from interior rooms
    - iii. Annotate the photographs of façade with the manually measured area of exterior glazing, for example:



3. Determine floor area:
  - a. For all spaces except dwelling units, determine the total floor area of project for each floor in the project boundary.
  - b. For dwelling units, determine the floor area of each unit in the project boundary.
4. Determine the ratio of glazing to floor area:
  - a. For all spaces except dwelling units, divide the glazing area by the floor area for each floor.
  - b. For dwelling units, divide the glazing area by the floor area for each individual unit.
5. Indicate if all ratios are  $\geq 7\%$  (compliant with feature requirements).

### EXAMPLE SUMMARY OF CALCULATIONS 1

*Example project is a single-story existing school where areas of glazing were measured manually and annotated on the building photographs.*

Calculations such as these can be provided on annotated plan or in an attached narrative:

| Glazing Location*                   | Area (ft <sup>2</sup> ) |
|-------------------------------------|-------------------------|
| West façade glazing                 | 780                     |
| South façade glazing                | 1,030                   |
| East façade glazing                 | 890                     |
| North façade glazing                | 520                     |
| <b>Total glazing area</b>           | <b>3,220</b>            |
| <b>Project floor area</b>           | <b>24,500</b>           |
| <b>Percentage of glazing</b>        | <b>13%</b>              |
| <b>Greater than or equal to 7%?</b> | <b>Yes</b>              |

\*Note to reviewer, the project is a single floor project, all glazing is on the first floor.

### EXAMPLE SUMMARY OF CALCULATIONS 2

*Example project is a mixed-use building with 8 residential units and 2 floors of retail.*

Calculations such as these can be provided on annotated plan or in an attached narrative:

| Location          | Glazing Area (m <sup>2</sup> ) | Floor Area (m <sup>2</sup> ) | % of Glazing | ≥7%? |
|-------------------|--------------------------------|------------------------------|--------------|------|
| Floors 1-2 Retail | 52                             | 550                          | 9.5%         | Yes  |
| Unit 3A           | 11                             | 125                          | 8.8%         | Yes  |
| Unit 3B           | 13                             | 140                          | 9.3%         | Yes  |
| Unit 4A           | 11                             | 125                          | 8.8%         | Yes  |
| Unit 4B           | 13                             | 140                          | 9.3%         | Yes  |
| Unit 5A           | 11                             | 125                          | 8.8%         | Yes  |
| Unit 5B           | 13                             | 130                          | 10%          | Yes  |
| Unit 6A           | 11                             | 125                          | 8.8%         | Yes  |
| Unit 6B           | 13                             | 130                          | 10%          | Yes  |

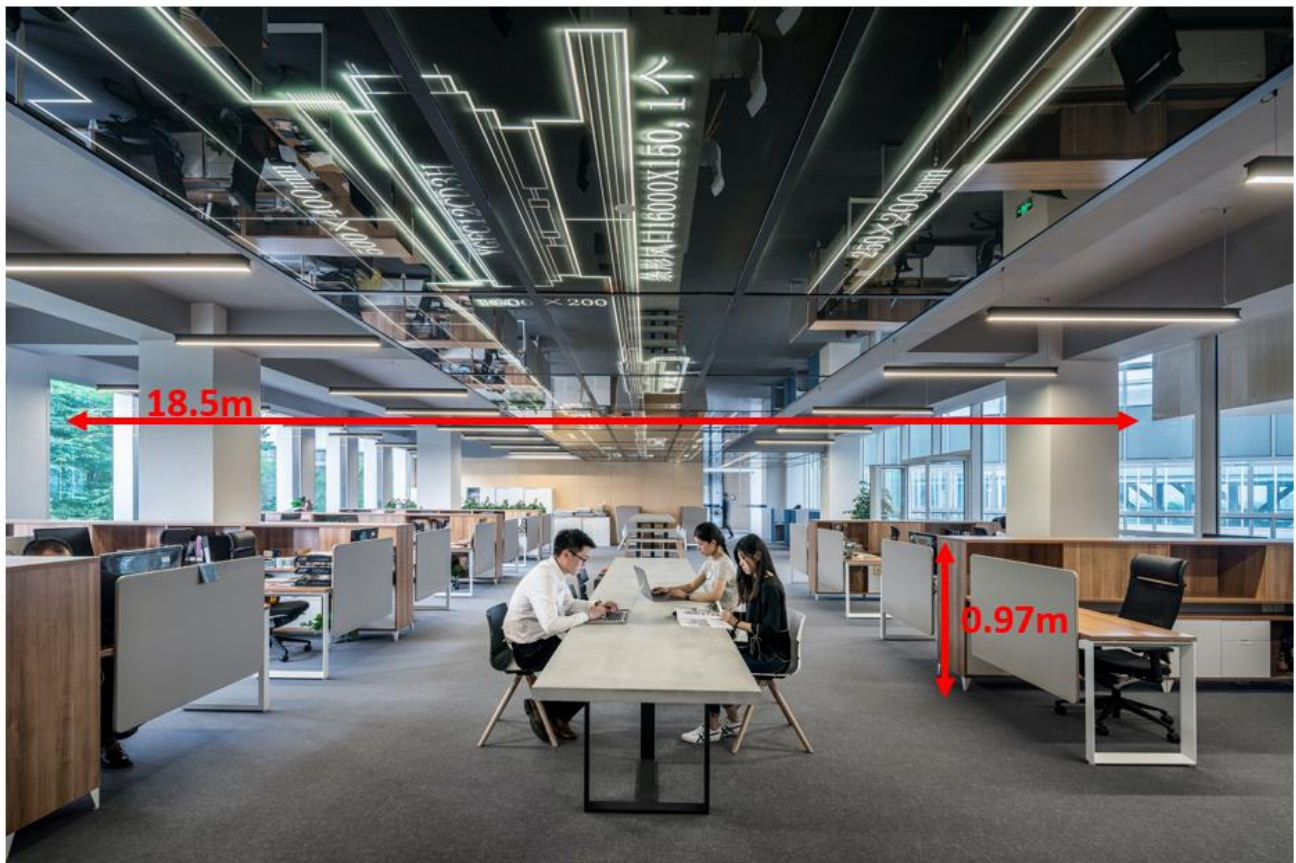
## ARCHITECTURAL DRAWINGS INSTRUCTIONS:

1. Locate a floor plan of the project that indicates the floorplate (the edge of the interior space within the WELL project boundary). *(Intent-stage: If the project is in design, the floor plan does not have to be final)*
  - a. If project is a multi-story project, provide floor plates for each floor that has a different floor plate layout.
    - i. For example, an 11-story project with the design below would need to provide three (3) separate floorplates:

| Floors with Identical Floorplates | Floorplate Areas     |
|-----------------------------------|----------------------|
| Ground – 4 <sup>th</sup> floor    | 1,100 m <sup>2</sup> |
| 5 – 10 <sup>th</sup> floors       | 650 m <sup>2</sup>   |
| 11 <sup>th</sup> floor penthouse  | 300 m <sup>2</sup>   |

2. Indicate that each floor plate has transparent exterior glazing on each side.
3. Indicate on the floorplates the distance between the facades with transparent exterior glazing.
  - a. Indicate if the distance meets the requirement of  $\leq 20\text{m}$  (65ft).
4. Confirm that there are no opaque obstructions higher than 1 m within a 6 m horizontal distance of the transparent envelope glazing. Here are options on how to demonstrate this requirement is met:
  - a. Provide a section of the floor indicating any opaque obstructions such as interior walls or furniture.
  - b. Provide annotated photographs of the interior space indicating any opaque obstructions.

*See example below.*



## 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.