



Feature S01: Sound Mapping

Part 2: Manage Acoustical Privacy

WELL v2™ pilot
Q1 2020 addenda

How to use this document:

This document is intended to serve as a guide on how to create educational materials required for Part 2: Manage Acoustical Privacy of Feature S01: Sound Mapping. This document is meant to demonstrate an acceptable degree of detail for a documentation submission. The level of detail is up to the discretion of the project team, as long as Part 2a or 2b are sufficiently addressed.

- Part 2a: Instructions for annotating an architectural drawing have been provided.
- Part 2b: A professional narrative outline with relevant examples has been provided.

Note: The variable items are highlighted in yellow throughout the document.

The text is updated to the Q1 2020 version of WELL v2 pilot, which may vary from future versions of WELL v2.

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FEATURE S01: SOUND MAPPING

<< SELECT ONE OF THE BELOW, PART 2a OR 2b >>

PART 2a: MANAGE ACOUSTICAL PRIVACY ARCHITECTURAL DRAWING INSTRUCTIONS

- A. First, procure an architectural floor plan of the project space (preferably the final furniture plans).
- B. Next, clearly indicate or label regularly occupied spaces including, but not limited to, those noted in Feature S03 (e.g., enclosed offices, conference rooms, open workspaces, dwelling units, classrooms, etc.)
- C. Next, where walls, doors, or other barriers (excluding partial height dividers in open offices, for example) are shown between the regularly occupied spaces, provide a color coded label that identifies one of the following:
 - a. The projected level of acoustical privacy (NIC, SPP, or similar) between spaces.
 - b. The measured or benchmarked acoustical performance (NIC, SPP, or similar) as reported and measured by an acoustical consultant.
 - c. The level of privacy (STC, R'w, or similar) based on current or planned wall construction.

PART 2b: MANAGE ACOUSTICAL PRIVACY EXAMPLE PROFESSIONAL NARRATIVE

A. *Example 2b.1: A Benchmarking Report*

A benchmarking report which details either the on-site measured acoustical performance and/or describes the projected acoustical privacy of walls and office fronts based on review of architectural partition schedules may take the following form:

Acoustical Performance of Partitions:

In order to quantify the acoustical performance of partitions between enclosed offices and across office fronts, <<INSERT NAME AND POSITION OF PERSON>>, from <<INSERT COMPANY>>, took measurements on-site and the acoustical performance was catalogued at each space, as shown in the following table:

<i>Locations Measured (Source Room; Receiving Room)</i>	<i>Measured Noise Isolation Class (NIC)</i>	<i>Background Noise in Receiving Room (dBA @ 1 kHz)</i>	<i>Speech Privacy Potential (SPP)</i>
<i>Meeting Rm 1; Meeting Rm 2</i>	<i>NIC - 35</i>	<i>40</i>	<i>SPP - 75</i>

Meeting Rm 1; Open Office	NIC - 26	43	SPP - 69
Meeting Rm 2; Meeting Rm 3	NIC - 34	40	SPP - 74
Meeting Rm 2; Open Office	NIC - 27	42	SPP - 69
Meeting Rm 3; Open Office	NIC - 28	42	SPP - 70

B. Example 2b.2: Acoustical Privacy Projections by an Acoustical Consultant

The project's acoustical consultant, <<INSERT NAME AND/OR COMPANY>> developed the following projections of acoustical privacy. This includes descriptions of the existing condition of doors and recommendations for door types, hardware, or other acoustical solutions at doors, windows, and other points of (operable) connection.

Locations	Projected Noise Isolation Class (NIC), Speech Privacy Potential (SPP), or equivalent	Reasoning for projection
Between adjacent Conference Rooms	~SPP - 80	Partition Type [X] separates conference rooms, which is constructed to meet a maximum STC value of 48. Background noise within this space is projected to be around 40 dBA at 1 kHz. Conservative estimates suggest that on-site measurements will yield a maximum SPP-80.
Across Private Office Fronts	~SPP - 60	Partition Type [X] is found at office fronts and is a combination of a sliding glass door and a glass wall. While the STC of the glass wall is noted by the manufacturer as max STC-34, the door is noted by the manufacturer to have a max STC-25. The background noise within typical private offices ranges from 36 to 40 dBA at 1 kHz. Conservative estimates suggest that on-site measurements will yield a maximum SPP-60.

C. *Example 2b.3: An Annotated Copy of the Architectural Partition Schedule and Door Hardware Schedule*

Projects may provide a copy of the partition schedule. This schedule should include diagrams of the existing or future designs of partitions, office fronts, and/or door hardware schedule with notes that describe the STC values of the walls, door hardware, operable partitions, office fronts, or similar systems. Descriptions can note key acoustic details as follows:

- a. *Example: partitions between enclosed offices do not extend from floor to structure above.*
- b. *Example: partitions terminate at the acoustical ceiling grid, which runs continuously throughout the office floorplate.*
- c. *Example: office fronts are constructed of sliding glass doors with an STC rating of <<INSERT STC>>.*
- d. *Example: office front doors are framed, have gaskets at that head and jamb as <<INSERT MANUFACTURER>> with STC ratings of <<INSERT STC, if available>>, and automatic drop seals as <<INSERT MANUFACTURER>> with STC ratings of <<INSERT STC>>.*
- e. *Example: Partition Type [X] on the partition schedule, which typically separates conference rooms throughout the project boundary, is constructed with two layers of drywall on both sides of metal studs, extends from structure to structure, and includes acoustic insulation in the stud cavity (which will meet an STC of <<INSERT STC>>).*