

# WELL Building Standard – How Armstrong Ceiling and Wall Solutions Contribute to WELL



AIR			The WELL Building Standard™ (WELL) establishes requirements in buildings that promote clean air and reduce or minimize the sources of indoor air pollution
Feature	WELL Concept	Compliance	Armstrong® Contribution
01	Air Quality Standards	P	<p>Intent: To ensure a basic level of high indoor air quality.</p> <p>Armstrong: To enhance indoor air quality by using ceiling and wall products with low or no added formaldehyde.</p> <p>Choose products from the SUSTAIN portfolio. This entire portfolio contributes to better spaces.</p>
04	VOC Reduction	P	<p>Intent: To minimize the effect of VOCs from building materials on indoor air quality.</p> <p>Armstrong: Ceilings and walls meet California Dept of Public Health (CDPH) Standard Method v1.1-2010 and VOC Certificates of Compliance as proof of meeting this standard.</p>
06	Microbe and Mold Control	P	<p>Intent: To reduce mold and bacteria growth within buildings.</p> <p>Armstrong: Ceiling products feature Bioblock performance to resist the growth of mold and mildew.</p> <p>BioBlock Plus performance resists growth of mold and mildew and odor and stain causing bacterial growth.</p> <p>Review our performance selector to choose the right ceiling for your space.</p>
07	Construction Pollution Management – VOC Absorption Management	P	<p>Intent: To minimize the introduction of construction related pollutants into indoor air and protect building products from degradation.</p> <p>Armstrong: HumiGuard protection on ceiling panels are recommended for humidity and sag resistance.</p> <p>Ceilings with HumiGuard protection can be installed prior to the building being enclosed.</p>
12	Moisture Management	P	<p>Intent: To limit the potential for bacteria and mold growth within buildings from water infiltration and condensation.</p> <p>Armstrong: HumiGuard protection on ceiling panels are recommended for humidity and sag resistance.</p> <p>Ceilings with HumiGuard protection can be installed prior to the building being enclosed. See above performance under Feature 06.</p>

P = Preconditions  
O = Optimizations

AIR			The WELL Building Standard™ (WELL) establishes requirements in buildings that promote clean air and reduce or minimize the sources of indoor air pollution
Feature	WELL Concept	Compliance	Armstrong® Contribution
16	Humidity Control	0	<p>Intent: To limit the growth of pathogens, reduce off-gassing, and maintain thermal comfort by providing the appropriate levels of humidity.</p> <p>Armstrong: HumiGuard protection on ceiling panels are recommended for humidity and sag resistance.</p> <p>Ceilings with HumiGuard protection can be installed prior to the building being enclosed.</p> <p>SUSTAIN ceilings contain no added formaldehyde so there is no concern of excess emissions of formaldehyde.</p>
17	Direct Source Ventilation	0	<p>Intent: To limit the growth of pathogens, reduce off-gassing, and maintain thermal comfort by providing the appropriate levels of humidity.</p> <p>Armstrong: SUSTAIN ceilings are free of any chemicals of concern (per LBC Red List 3.0) and contribute to better spaces.</p>
18	Air Quality Monitoring and Feedback	0	<p>Intent: To monitor and effectively remediate any indoor air quality issues.</p> <p>Armstrong: SUSTAIN ceilings are free of any chemicals of concern (per LBC Red List 3.0) eliminating exposure risks.</p>
25	Toxic Material Reduction	0	<p>Intent: To minimize the impact of hazardous building material chemicals on indoor air quality and protect the health of manufacturing and maintenance workers.</p> <p>Armstrong: SUSTAIN ceilings are free of any chemicals of concern (per LBC Red List 3.0) eliminating exposure risks. None of the chemicals listed in the feature are in any of the products in the SUSTAIN portfolio.</p>
26	Enhanced Material Safety	0	<p>Intent: To minimize the impact of hazardous building material chemicals on indoor air quality and protect the health of manufacturing and maintenance workers.</p> <p>Armstrong: SUSTAIN ceilings are free of any chemicals of concern (per LBC Red List 3.0). All SUSTAIN products have Declare Living Building Challenge labels.</p>
27	Antimicrobial Activity for Surfaces	0	<p>Intent: To reduce occupant exposure to pathogens on high touch surfaces.</p> <p>Armstrong: Ceilings are not a high touch surface. Armstrong features a selection of ceilings that meet the surface requirements for non-porous surfaces and meet requirement for Clean Room designations up to ISO Class 5.</p>

P = Preconditions

0 = Optimizations

LIGHT			The WELL Building Standard™ (WELL) provides guidelines that minimize disruption to the body's circadian system, enhance productivity, support good sleep quality and provide appropriate visual acuity.
Feature	WELL Concept	Compliance	Armstrong® Contribution
53	Visual Lighting Design	P	<p>Intent: To support visual acuity by setting a threshold for adequate light levels and requiring luminance to be balanced within and across indoor spaces. Part 2: Brightness Management Strategies</p> <p>Armstrong: High light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings. Refer to the performance selection to choose ceilings Armstrong High LR ceilings or walls. Specify Armstrong TechZone ceiling systems lighting partners and LED lighting as another option to meet this feature.</p>
55	Electric Light Glare Control	P	<p>Intent: To minimize direct and overhead glare by setting limits on the luminous intensity of luminaires.</p> <p>Armstrong: High light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings; as well as reducing glare on interior surfaces. Specify Armstrong TechZone ceiling systems lighting partners and LED lighting as another option to meet this feature.</p>
56	Solar Glare Control	O	<p>Intent: To avoid glare from the sun by blocking or redirecting direct sunlight away from the occupants.</p> <p>Armstrong: High light reflectance ceilings can bring light further into the space utilizing it into the interior area. Armstrong AXIOM shade pockets combined with Lutron Shades provide a pre-engineered perimeter solution to aid in controlling solar glare. This pre-engineered extruded aluminum building perimeter trim integrates with automated shades, at the same time tying into acoustical or drywall ceiling systems without any visible fasteners.</p>
57	Low-Glare Workstation Design	O	<p>Intent: To minimize visual discomfort by situating computer monitors in a way that avoids glare and luminance contrast.</p> <p>Armstrong: High light reflectance ceilings can bring light further into the space and diffuse light to aid in minimizing glare on computer screens.</p>
59	Surface Design	O	<p>Intent: To increase overall surface brightness through reflected light from room surfaces and avoiding glare.</p> <p>Armstrong: High light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings; as well as reducing glare on interior surfaces. Specify Armstrong TechZone ceiling systems lighting partners and LED lighting as another option to meet this feature.</p>
60	Automated Shading and Dimming Controls	O	<p>Intent: To prevent glare and encourage reliance on natural light through automated shading and dimming.</p> <p>Armstrong: Armstrong AXIOM shade pockets combined with Lutron Shades provide a pre-engineered perimeter solution to aid shading and dimming.</p>
61	Right to Light	O	<p>Intent: To promote exposure to daylight and views of varying distances by limited the distance workstations can be from a window or atrium.</p> <p>Armstrong: High light reflectance ceilings can redirect light further into the space.</p>
62	Daylight Modeling	O	<p>Intent: To support circadian and psychological health by setting thresholds for indoor sunlight exposure.</p> <p>Armstrong: Contribute to luminance levels in simulation models with Armstrong high light reflectance ceilings. These ceilings deliver exceptionally balanced light diffusion – due to the consistent surface finish.</p>

P = Preconditions  
O = Optimizations

COMFORT			The WELL Building Standard™ (WELL) establishes requirements designed to create distraction-free, productive and comfortable indoor environments.
Feature	WELL Concept	Compliance	Armstrong® Contribution
78	Reverberation Time	0	<p>Intent: To help maintain comfortable sound levels by limiting reverberation times.</p> <p>Armstrong: Armstrong ceilings and walls absorb sound, contributing to the reduction in reverberation time and increased speech intelligibility. Look for Total Acoustics™ portfolio of products.</p>
79	Sound Masking	0	<p>Intent: To reduce acoustic disruptions and increase speech privacy by implementing sound masking in the building design.</p> <p>Armstrong: Armstrong ceilings and walls absorb sound, contributing to the reduction in reverberation time and increased speech intelligibility. Look for Total Acoustics portfolio of products.</p>
80	Sound Reducing Surfaces	0	<p>Intent: To reduce sound reverberation and maintain comfortable sound levels through absorptive ceilings and wall surfaces.</p> <p>Armstrong: Armstrong ceilings and walls absorb sound, contributing to the reduction in reverberation time and increased speech intelligibility. Look for Total Acoustics portfolio of products. Use the Armstrong reverberation calculator to model your space. Select treatment materials for your space to meet the reverberation time recommendations and hear the difference, before and after!</p>
81	Sound Barriers	0	<p>Intent: To reduce sound transmission and acoustic disruptions through sound barriers.</p> <p>Armstrong: Total Acoustics performance provides the ideal combination of sound absorption and sound blocking.</p>

MIND			The WELL Building Standard™ (WELL) optimizes cognitive and emotional health through design, technology and treatment strategies.
Feature	WELL Concept	Compliance	Armstrong® Contribution
85	Integrative Design	P	<p>Intent: To facilitate a collaborative development process and ensure adherence to collective wellness goals.</p> <p>Armstrong: Part 2: Development. Armstrong will provide information and documentation to support contribution to the Well concepts.</p>
86	Post-Occupancy Surveys	P	<p>Intent: To allow occupants to provide feedback to building owners and management, and further develop The Well Building Standard.</p> <p>Armstrong: The #1 area of dissatisfaction on the CBE occupant survey is Acoustics. Armstrong ceilings and wall products can contribute to the sound features in the Comfort section to make a more satisfied occupant.</p>
87 99	Beauty and Design I and II	P	<p>Intent: To create unique and culturally rich spaces.</p> <p>Armstrong: Armstrong Ceilings and Walls portfolio is all about inspiring great spaces. With unique designs, finishes, shapes, colors we can bring surprise to any interior.</p>
88 100	Biophilia I – Qualitative Biophilia II – Quantitative	0	<p>Intent: To nurture the innate human nature connection within the project.</p> <p>Armstrong: Armstrong Ceiling and Walls Solutions are available in many natural finishes, a large color palette, and with our Create line you can create a unique ceiling visual and bring nature inside. Ceilings and walls contribute environmental elements; lighting and space layout.</p>
89	Adaptable Spaces	0	<p>Intent: To reduce distractions, mitigate stress and enable focused work by integrating a stimuli management program with in the building.</p> <p>Armstrong: Armstrong ceilings and wall solutions contribute to Part 2 by providing sound absorption to increase speech privacy and to contribute to sound reduction to create quiet space for focus, contemplation and relaxation.</p>

P = Preconditions  
O = Optimizations

MIND		The WELL Building Standard™ (WELL) optimizes cognitive and emotional health through design, technology and treatment strategies.	
Feature	WELL Concept	Compliance	Armstrong® Contribution
97	Material Transparency	0	<p>Intent: To promote material transparency along the supply chain.</p> <p>Armstrong: Armstrong Ceiling and Wall products in the Sustain™ portfolio meet the requirements for both Part 1 and 2 of this feature. All products have HPDs, Declare Labels, and EPDs. All documents are publically available on the Sustain website for easy reference.</p>
98	Organizational Transparency	0	<p>Intent: To promote economic and social equity by requiring the adherence to and disclosure of fair and equitable business practices.</p> <p>Armstrong: Armstrong has self-declared our commitment and initiatives supporting our sustainability journey on our corporate website at <a href="http://www.armstrongceilings.com">www.armstrongceilings.com</a>.</p>

INNOVATION			
Feature	WELL Concept	Compliance	Armstrong® Contribution
101-105	Innovation I	0	<p>Intent: To promote continuous evolution of the Standard by enabling projects to propose a new feature that addresses health and wellness in a novel way.</p> <p>Armstrong: At Armstrong, we are continuing to innovate ways to create better spaces. Check in with us to collaborate on ways to achieve this innovation feature.</p>

P = Preconditions  
 0 = Optimizations