



## **LEED v4 Certification Contributions**

LEED (Leadership in Energy and Environmental Design) is a global green building certification program developed by the U.S. Green Building Council (USGBC). To achieve LEED certification, projects must satisfy all prerequisites and desired credit requirements. LEED Certified, Silver, Gold, or Platinum may be achieved.

**For submittals or additional information on BASWA Systems, please contact BASWA acoustic.**

**BASWA acoustic North America**

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BASWA acoustic is committed to sustainability, from manufacturing to finished product. We continuously innovate with ecological improvement in mind to conform to our environmental values. BASWA uses natural and recycled materials, optimized production with heat-recovery, and formaldehyde & solvent-free binders.

BASWA Phon Panels contain 92% natural and recycled materials, made from recycled glass; only 8% is synthetic materials. Finish materials contain 95% recycled materials, made from aggregate produced during marble stone extraction. The organic binders are formaldehyde & soluble free.

BASWA Systems are VOC free, complying with CA Section 01350 & CDPH Standard Method v1.1. Furthermore, BASWA Systems do not contain any Living Building Challenge (LBC) Red List materials.

BASWA Finishes offer high light reflectance, with an average light reflectance L Value of 0.91 per ASTM E1477. BASWA Phon System R-values reach 11.66. Cleaning & maintenance of BASWA Systems require no harmful cleaners or chemicals. BASWA acoustic North America offers US Made systems components.

As sustainability research continues, BASWA acoustic continues to comply with changing guidelines and regulations; including LEED, WELL, and Portico. HPDs and Declare Labels are available for all products.

All BASWA acoustic system component testing is performed by certified third party labs. Certified test data reports are available upon request.

## ENERGY & ATMOSPHERE (EA)

<b>EA Prerequisite</b> <b>Fundamental Refrigerant Management</b>	INTENT: To reduce stratospheric ozone depletion.
<b>EA Credit</b> <b>Enhanced Refrigerant Management</b> <b>(1 Point)</b>	<p>INTENT: To reduce ozone depletion and support early compliance with the Montreal Protocol while minimizing direct contributions to climate change.</p> <p>APPLICATION: The BASWA Cool System uses an embedded capillary pipe system to provide thermal comfort within a space. Water transporting capillary pipe mats are installed close to the surface, conserving energy while also providing room temperature control without generating airstreams that could negatively affect the ozone.</p>
<b>EA Credit</b> <b>Optimize Energy Performance</b> <b>(1 - 20 Points)</b>	<p>INTENT: To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.</p> <p>APPLICATION: The BASWA Phon high density mineral wool supporting panels support additional thermal insulation, providing an R-Value of 4.35 per inch of thickness, thus reducing heating and cooling energy use.</p> <p>BASWA Phon provides the following insulating R-Values: 30mm BASWA Phon System (1.18") R-5.13 40mm BASWA Phon System (1.57") R-6.83 70mm BASWA Phon System (2.75") R-11.66</p>

## MATERIALS & RESOURCES (MR)

<b>MR Prerequisite</b> <b>Construction &amp; Demolition Waste Management Planning</b>	INTENT: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.
<b>MR Credit</b> <b>Building Product Disclosure &amp; Optimization</b> <b>- Environmental Product Declarations</b> <b>(1 - 2 Points)</b>	<p>INTENT: To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.</p> <p>APPLICATION: BASWA Phon System Panels contain 92% natural and recycled materials, and are made from recycled glass. In addition, BASWA Finish materials contain 95% recycled materials, made from aggregate produced during marble stone extraction. The organic binders used in the product are produced environmentally friendly, and are formaldehyde and solvent free. BASWA acoustic is committed to the use of natural and recycled material, optimized production with heat-recovery, solvent-free binders, and continuous ecological improvements to each product. Detailed information on the components of our panels and finishes have been third party tested and documented.</p>

<p><b>MR Credit</b>  <b>Building Product Disclosure &amp; Optimization</b>  <b>- Sourcing of Raw Materials</b>  <b>(1 - 2 Points)</b></p>	<p>INTENT: To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.</p> <p>APPLICATION: BASWA Phon supporting panels contain 92% natural and recycled materials, and are made from recycled glass. In addition, finish materials contain 95% recycled materials, made from aggregate produced during marble stone extraction.</p>
<p><b>MR Credit</b>  <b>Building Product Disclosure &amp; Optimization</b>  <b>- Material Ingredients</b>  <b>(1 - 2 Points)</b></p>	<p>INTENT: To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.</p> <p>APPLICATION: BASWA acoustic discloses all chemical product ingredients. HPD documentation and third party Life Cycle Assessments have been conducted to verify improved life-cycle impacts, as well as the absence of harmful substances.</p>
<p><b>MR Credit</b>  <b>PBT Source Reduction - Mercury</b>  <b>(1 Point)</b></p>	<p>INTENT: To reduce the release of persistent, bioaccumulative, and toxic (PBTs) chemicals associated with the life cycle of building materials.</p> <p>APPLICATION: BASWA Phon Acoustical Plaster Systems have been third party HPD documented to confirm the absence of harmful materials including mercury.</p>
<p><b>MR Credit</b>  <b>PBT Source Reduction - Lead, Cadmium &amp; Copper</b>  <b>(2 Points)</b></p>	<p>INTENT: To reduce the release of persistent, bioaccumulative, and toxic (PBT) chemicals associated with the life cycle of building materials.</p> <p>APPLICATION: BASWA Phon Acoustical Plaster Systems have been third party HPD documented to confirm the absence harmful materials including lead, cadmium, and copper.</p>
<p><b>MR Credit</b>  <b>Construction &amp; Demolition Waste Management</b>  <b>(1 - 2 Points)</b></p>	<p>INTENT: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.</p> <p>APPLICATION: In a typical installation, less than 3% of panels are discarded due to small leftover pieces. Panel scraps are acceptable in mixed-glass recycling facilities. Plastic pails containing the Pre-Fill, Base and Fine Coats are recyclable as well. Unused panels, Base and Fine Coats are saved for use on a following project.</p>

## INDOOR ENVIRONMENTAL QUALITY (EQ)

<b>EQ Prerequisite</b> <b>Minimum Acoustic Performance</b>	INTENT: To provide classrooms that facilitate teacher-to-student and student-to-student communication through effective acoustic design.
<b>EQ Credit</b> <b>Low-Emitting Materials</b> <b>(1 - 3 Points)</b>	INTENT: To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.  APPLICATION: The sensitive use of binders in the BASWA Phon mineral wool panels, and binders used to adhere the recycled contents creates an acoustical product that has no harmful volatile organic compound emissions (no VOCs). Additionally, BASWA Phon is compliant with CA Section 01350 & CDPH Standard Method v1.1.
<b>EQ Credit</b> <b>Thermal Comfort</b> <b>(1 Points)</b>	INTENT: To promote occupants' productivity, comfort, and well-being by providing quality thermal comfort.  APPLICATION: BASWA Phon high density mineral wool supporting panels provide an excellent source of thermal insulation, providing an R-Value of 4.35 per inch of thickness, thus reducing heating and cooling energy use and affording occupants greater thermal comfort in a conditioned space with lower heating and cooling energy use.  BASWA Phon provides the following insulating R-Values: 30mm system (1.18") R-5.13 40mm system (1.57") R-6.83 70mm system (2.75") R-11.66
<b>EQ Credit</b> <b>Interior Lighting</b> <b>(1 - 2 Points)</b>	INTENT: To promote occupants' productivity, comfort, and well-being by providing high-quality lighting.  APPLICATION: The high density marble aggregate finish coat is an excellent reflective surface, reflecting interior light sources. In interior occupied spaces, energy use can be dramatically reduced through the coordination of locations of lighting and BASWA Phon, thus reducing overall energy consumption. Average light reflectance L Value of 0.91 per ASTM E1477.
<b>EQ Credit</b> <b>Daylight</b> <b>(1 - 3 Points)</b>	INTENT: To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.  APPLICATION: The high density marble aggregate finish coat is an excellent reflective surface, reflecting natural light. In interior occupied spaces, energy use can be dramatically reduced through the coordination of locations of lighting and BASWA Phon, thus reducing overall energy consumption. Average light reflectance L Value of 0.91 per ASTM E1477.

<p><b>EQ Credit</b>  <b>Acoustic Performance</b>  <b>(1 - 2 Points)</b></p>	<p>INTENT: To provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design.</p> <p>APPLICATION: The BASWA Systems are available in 3 system thicknesses, 30mm (1.18"), 40mm (1.57"), and 70mm (2.75"); each having different sound absorption characteristics.</p> <p>BASWA Phon Acoustical Plaster Systems provide the following NRC Ratings:  30mm system 0.75-0.80  40mm system 0.85  70mm system 0.85-1.00+</p> <p>BASWA Phon also provides an additional 5-7 points to an STC rating.</p> <p>The NRC is a single-number index determined in a lab test and used for rating how sound absorptive a material is. This industry standard ranges from zero (perfectly reflective) to 1 (perfectly absorptive). It is simply the average of the mid-frequency sound absorption coefficients (250, 500, 1,000 and 2,000 Hertz).</p> <p>Measurements are made with BASWA Phon systems applied to 5/8" gypsum board tested following the ASTM 423 Sound Absorption Test guidelines by a third party.</p>
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**REGIONAL PRIORITY (RP)**

<p><b>RP Credit</b>  <b>Regional Priority</b>  <b>(4 Points)</b></p>	<p>INTENT: To provide an incentive for the achievement of credits that address geographically specific environmental, social equity, and public health priorities.</p> <p>APPLICATION: BASWA Base and Fine materials are manufactured in Chardon, OH. BASWA Tint is manufactured in Cleveland, OH. BASWA Trims are manufactured in Chicago, IL. BASWA Phon Panel Adhesive is manufactured in Gypsum, OH. Extracted and finished materials are transported by truck carrier.</p>
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