

# PHD™

## Product Health Declaration



### Armstrong Ceiling Solutions

# Ultima, Bioguard Acoustic

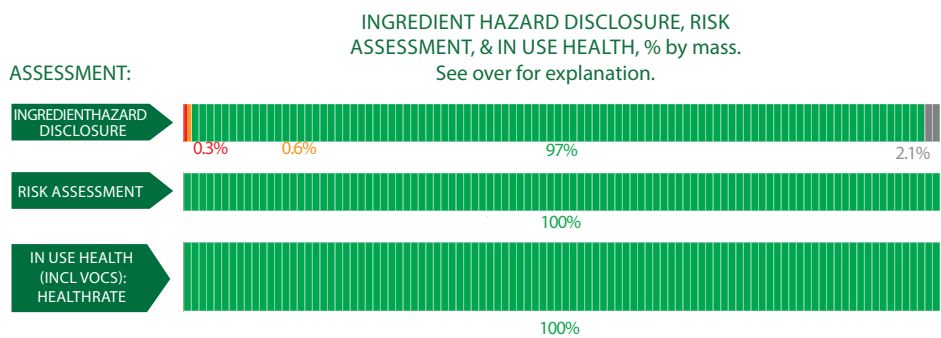
Armstrong Ceilings Ultima and Bioguard Acoustic ranges are acoustic mineral fibre ceiling panels with combine high levels of sound absorption (NRC 0.70) and attenuation (CAC41dB). These products are available in a selection of panel sizes and edge details and are suitable for a wide range of applications.

Products/Ranges:	Ultima, Bioguard Acoustic
Product Stages Assessed:	Whole of life + In-Use
Product Type:	Acoustic Ceilings
CSI Masterformat:	09 51 00 Acoustical Ceilings
Licenced Site/s:	Suzhou, China
Licence Number:	AWI:UB10:2023:PH
Licence Date:	9th May 2023
Valid To:	9th May 2025
Standard:	GGT International v4.0
Screening Date:	24th April 2023
PHD URL:	<a href="http://www.globalgreentag.com/certificate/2512">www.globalgreentag.com/certificate/2512</a>



<b>PHD Summary</b>	<b>Inventory Threshold:</b>	<b>Inventory Method:</b>
Percentage Assessed: <b>100%</b>	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- GreenTag PHD recognized by WELL® & LEED® Material Transparency & Optimization credits included below:
- Meets ets Green Star® 'Buildings v1.0' as Recognized for~ Credit 9: Responsible Finishes
- Meets IWBI® WELL® v1.0 as Recognized for ~ FFeature 26 (Part 1); Feature 97 (Part 1); as a Compliant Technical Document (Audited) for ~ Feature 04 (Part 5); Feature Feature 25 (Part 1, 2, 3, 4, 5) , and, meets IWBI® WELL™ v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ X01 (Part 1); X05 (Part 2); X06 (Part 2); X07 (Part 2); X08 (Part 1).
- Meets USGBC LEED® v4.0 and v4.1 Rating Tool Credit as Recognized for MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- Independent third party assessment for worker, user, and environmental exposure to any Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.



Declared by:  
Global GreenTag  
International Pty Ltd

**David Baggs**  
CEO & Program Director  
Verified compliant with:  
ISO 14024 & ISO 17065

## 1.0 Scope

The Global GreenTag International (GGT) Product Health Declaration (PHD) has been designed to provide an additional level of service to the green product sector in facilitating an easier understanding of both the hazard and risks associated with any certified products, and is intended to indicate:

- Chemical hazards of both finished product and unique ingredients to a minimum level of 100ppm for final product throughout the product life cycle (including any VOC or other gaseous emissions);
- An assessment of exposure or risk associated with ingredient handling, product use, and disposal in relation to established mitigation and management processes;

It is not intended to assess:

- substances used or created during the manufacturing process unless they remain in the final product; or
- substances created after the product is delivered for end use (e.g., if the product unusually degrades, combusts or otherwise changes chemical composition).

GGT PHDs are only issued to products that have passed GGT Standards' certification requirements. The Level of Assessment (BronzeHEALTH, SilverHEALTH, GoldHEALTH or PlatinumHEALTH) of a PHD rating relates ONLY to a Human Health Toxicity Assessment and is declared separately and not equivalent to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels of LCARate.

## 1.2 Preparing a PHD

GGT PHDs are prepared in the format of a transparency document which utilizes Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS). Hazard Classifications are then risk assessed with a focus on the In Use stage for an outcome of Certification. Assessments are undertaken by GGT Qualified Exemplar Global Lead Auditors and subsequently accepted for Certification by the GGT Program Director (also a Qualified Exemplar Global Lead Auditor) under the International Standard v4.0/4.1, Personal Products Standard v1.0/1.1, or Cleaning Products Standard v1.1/1.2 and above Program Rules.

## 1.3 External Peer Review

Every GGT PHD is independently peer-reviewed by an external Consultant Toxicologist and Member of the Australasian College of Toxicology & Risk Assessment.

## 2.0 Declaration of Ingredients

Where a manufacturer wishes recognition under a rating program that requires transparency of ingredients, such as LEED<sup>®</sup> v4.0 & v4.1, WELL<sup>®</sup> v1.0 & v2.0, Green Star<sup>®</sup>, the following information is declared from the audit:

Colour	Ingredient Hazard Disclosure
Green	Level 4 The hazard level of this ingredient indicates that the ingredient has no toxic hazard statements with no identified health effects.
Yellow	Level 3 The hazard level of this ingredient indicates that the ingredient is mildly toxic and/or has short/medium term reversible health effects.
Orange	Level 2 The hazard level of this ingredient indicates that the ingredient is moderately toxic and/or with a moderate health effects.
Red	Level 1 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects.
Black	Level 0 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects and is banned from being detectable above trace amounts in the final product.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.
Colour	Risk Assessment & In Use Health Assessment Outcome
Green	No Concerns The risk assessment outcomes for the hazard level and percentage of ingredient used in the product after risk assessment is considered highly unlikely and therefore without concerns.
Yellow	Human Health Comment The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low with an unlikely potential risk.
Orange	Issue of Concern or Issue of Concern Minimised The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low to high with a higher than unlikely potential for risk.
Red	Red Light Comment or Red Light Comment Minimised The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low to extremely high with a moderate potential for risk.
Dark Red	Red Light Exclusion The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered medium to extremely high with a likely potential for risk.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients Level 0 Hazard Level categorised chemicals such as Substances of Very High Concern in the International Standard v4.0/v4.1 and/or Petroleum, Parabens plus a wide range of additional compounds stipulated by the Personal Products Standard v1.0/1.1 and Cleaning Products Standard v1.1/1.2

Global GreenTag International Pty Ltd (Global GreenTag) is not a medical professional organisation. Global GreenTag does not purport to provide medical advice, and makes no warranty, representation, or guarantee regarding the declaration that it provides in relation to any allergies, chemical sensitivities or any other medical condition, nor does Global GreenTag assume any liability whatsoever arising out of the application or use of any product or piece of equipment that has been chemically assessed by Global GreenTag.

The chemical assessments carried out provide transparent information peer reviewed by a consultant toxicologist regarding the chemical make-up and ingredients of certain materials and products, but such assessments are not to be taken as any form of medical assessment or health advice and are not targeted towards providing specific solutions to allergenic conditions or any other type of medical concerns.

Users must carry out their own investigations if they are concerned about specific medical conditions and the impact of certain products or ingredients in relation to specific medical concerns.

Global GreenTag takes no responsibility and is not liable in any way with respect to any medical or health issues arising from a person's use of materials or products that have been chemically assessed by Global GreenTag. Global GreenTag shall not be liable for any direct, indirect, punitive, incidental, special or consequential damages to property or life whatsoever, arising out of or connected with the use or misuse of any materials or products that have been assessed by Global GreenTag.

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	REACH Compliance	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Perlite								
Silicon dioxide	7631-86-9	10-20%	None	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Aluminum oxide	1333-84-2	1-5%	None	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Ferric oxide	1309-37-1	1-5%	None	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Magnesium oxide	1309-48-4	0.1-1%	None	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Calcium oxide	1305-78-8	1-5%	None	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Potassium oxide	12136-45-7	0.1-1%	None	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Water	7732-18-5	1-10%	None	OK				This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Mineral Wool								
Manganese	7439-96-5	20-30%	Not Classified	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: None Nanomaterials: Unknown
Silica	121375-93-7	10-20%	Not Classified	OK				This is a naturally occurring mineral which is embedded in the final product. Avoid generating and inhaling dust during installation, follow manufacturers PPE recommendations to minimise risks. This substance has no identifiable hazards for use. Recycled Content: None Nanomaterials: Unknown
Dry Broke								
Dust and industrial scrap	Filler	20-30%	None	OK				This substance is inert . When broken up dusts may be hazardous. Workplace Health and Safety policies mitigate the risks from dusts formed. There is no identifiable risks to users. Recycled Content: includes Post-I Nanomaterials: Unknown
Clay								

Clay	Binder	10-20%	Not Classified	OK				This is a naturally occurring mineral which is embedded in the final product. This substance has no identifiable hazards. Recycled Content: No Nanomaterials: Unknown
Recycled Paper								
Paper	Filler	1-5%	Not Classified	OK				This substance has no identifiable hazards. Recycled Content: Post-C Nanomaterials: no
Glass Fiber								
Propriety	Filler	1-5%	Not Declared	OK				There is no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Ground Calcite								
Calcium carbonate	1317-65-3	1-5%	Not Classified	OK				This is a naturally occurring mineral that is embedded in the final product. This substance has no identifiable hazards. Recycled Content: None Nanomaterials: Unknown
Industrial Starch								
Corn Starch	9005-25-8	1-5%	Not Classified	OK				This is a naturally occurring mineral that is embedded in the final product. This substance has no identifiable hazards. Recycled Content: None Nanomaterials: Unknown
Pigment								
Titanium dioxide	13463-67-7	0.1-1%	H351 (Carc.2)	OK				Workplace Health and Safety policies mitigate the risks to workers. Avoid generating and inhaling dust during installation follow manufacturers PPE recommendations to minimise risks. This is a naturally occurring mineral that is embedded in the final product minimising user exposure. Recycled Content: None Nanomaterials: Unknown
Biocide (Bioguard only)								
Pyrrithione zinc	13463-41-7	0.1-1%	H301 (Acute Tox. 3) H318(Eye Dam. 1) H330(Acute Tox. 2) H372 (STOT RE 1) H400( Aquatic Acute 1) H410 (Aquatic Chronic) H360d (Repr. 1B)	OK				Workplace Health and Safety policy and Environmental Management Systems mitigate the risks to workers and environment. Avoid generating and exposure to dust during installation and follow manufacturers PPE recommendations to minimise risks. This substance is used in small amounts and is embedded in the final product. There is no expected hazards to users. Recycled Content: No Nanomaterials: Unknown
Terbutryn	886-50-0	0.01-0.1%	H302 (Acute Tox. 4) H400 (Aquatic Acute 1) H410 (Aquatic Chronic)	OK				Workplace Health and Safety policy and Environmental Management Systems mitigate the risks to workers. Avoid generating and exposure to dust during installation, follow manufacturers PPE recommendations to minimise risks. This substance is used in small amounts and is embedded in the final product. There is no expected hazards to users. Recycled Content: No Nanomaterials: Unknown

Zinc oxide	1314-13-2	0.1-1%	H400 (Aquatic Acute 1) H410 (Aquatic Chronic)	OK				Workplace Health and Safety policies mitigate the risks to workers. This substance is used in small amounts and is embedded in the final product. There is no expected hazards to users. Recycled Content: No Nanomaterials: Unknown
Proprietary	Solvent	0.1-1%	None Declared	OK				There is no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown
Adhesive								
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with bis(isocyanatomethyl) benzene	51852-81-4	0.01-1%	None	OK				Workplace Health and Safety policy and Environmental Management Systems mitigate the risks to workers and environment. Avoid generating and exposure to dust during installation and follow manufacturers PPE recommendations to minimise risks. This substance is used in small amounts and is embedded in the final product. There is no expected hazards to users. Recycled Content: No Nanomaterials: Unknown
Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9	0.01-1%	HCarc. 1B, Aquatic Chronic 3	OK				Workplace Health and Safety policy and Environmental Management Systems mitigate the risks to workers. Avoid generating and exposure to dust during installation, follow manufacturers PPE recommendations to minimise risks. This substance is used in small amounts and is embedded in the final product. There is no expected hazards to users. Recycled Content: No Nanomaterials: Unknown
Phenol, isopropylated, phosphate (3:1)	68937-41-7	0.01-1%	Repr. 2, STOT RE 2, Aquatic Chronic 1, Aquatic Chronic 4	OK				Workplace Health and Safety policies mitigate the risks to workers. This substance is used in small amounts and is embedded in the final product. There is no expected hazards to users. Recycled Content: No Nanomaterials: Unknown
2-Propenoic acid, homopolymer	9003-01-4	0.01-1%	Acute Tox. 4 (Oral), Aquatic Acute 1, Aquatic Chronic 2, Eye Dam. 1, STOT SE 3 (Resp.)	OK				There is no declared hazards for this substance. Recycled Content: No Nanomaterials: Unknown

\* No GHS H-Statement classification  
Post-I = Post industrial Waste  
PPE: Personal Protective Equipment

Comments:

VOC Content: Total VOC (TVOC) emissions testing was conducted 5th and 8th August 2022 by Eurofins and passed the Eurofins Indoor Air Comfort Gold standard.