




# Treated Wood - Green Building Contributions

## LEED, National Green Building Standard and GreenGuard Gold

Green Building Program	Rating System	Category / Points	Description
LEED – Materials and Resources	BD+C Building Design + Construction	<b>Building Life-Cycle Impact Reduction</b> Up to 6	Option 1. Building and Material Reuse (1-5 points BD&C, 2-6 points Core and Shell).  Option 2. Whole-Building Life-Cycle Assessment (1-4 points)
LEED – Materials and Resources	BD+C Building Design + Construction	<b>Environmental Product Declarations</b> Up to 2 points	Option 1. Environmental Product Declaration (EPD) Option 2. Embodied Carbon/LCA Optimization (1 point) For credit achievement calculation, products sourced (extracted, manufactured, purchased) within 100 miles (160 km) of the project site are valued at twice their base contributing number of products, up to a maximum of 2 products.  Impact categories: global warming potential (greenhouse gases), in CO <sub>2</sub> e; depletion of nonrenewable energy resources, in MJ using CML / depletion of fossil fuels in TRACI.
LEED – Materials and Resources	BD+C Building Design + Construction	<b>Environmentally Preferable Products</b> Up to 5 points	Wood products must be Forest Stewardship Council (FSC) Certified, or USGBC-approved equivalent. Many of the treating facilities that use Viance preservative products have obtained a FSC Chain of Custody certifications. Verification may be obtained at <a href="http://info.fsc.org">http://info.fsc.org</a>



	Operations & Maintenance Multifamily Core and Shell	Up to 6 points	<p>Bio-based materials. Bio-based products must meet the Sustainable Agriculture Network’s Sustainable Agriculture Standard. Bio-based raw materials must be tested using ASTM Test Method D6866 and be legally harvested, as defined by the exporting and receiving country.</p> <p>Local Production Framing .5 point Maximum 100 mile distance from extraction, processing and manufacturing to project site. 50% of building component required to meet criteria .5 point per component.</p> <p>Viance, LLC. produces all treatment and preservative solutions at Venator Materials at factory operations located at 5910 Pharr Mill Rd, Harrisburg, North Carolina 28075.</p> <p>Wood products must be Forest Stewardship Council (FSC) Certified, or USGBC-approved equivalent.</p>
<b>LEED – Materials and Resources</b>	BD+C Building Design + Construction	<b>Sourcing of Raw Materials</b> Up to 2 points	<p>Wood products must be certified by the Forest Stewardship Council or USGBC-approved equivalent. Products meeting wood products criteria are valued at 100% of their cost for the purposes of credit achievement calculation.</p> <p>For credit achievement calculation, products sourced (extracted, manufactured and purchased) within 100 miles (160 km) of the project site are valued at twice their base contributing cost, up to a maximum of 200% of cost.</p>
<b>LEED – Materials and Resources</b>	BD+C Building Design + Construction	<b>Material Ingredients</b> Up to 2 points	<p>Declare labels designated as Red List Free, LBC Red List Free, or Declared.</p> <p>Declare labels designated as LBC Red List Approved or LBC Compliant that demonstrate content inventory to 0.1% (1000 ppm)</p> <p>For credit achievement calculation, products sourced (extracted, manufactured, purchased) within 100 miles (160 km) of the project site</p>

			are valued at twice their base contributing number of products, up to a maximum of 2 products.
<p><b>LEED – Materials and Resources</b></p> <p><i>D-Blaze FRTW, Preserve CA, Ecolife (EL2), and CCA preservatives produced by Viance do not contain added urea-formaldehyde.</i></p>	O+M, Building Operations & Maintenance Multifamily	<b>Purchasing</b> 1 point	<p>Low formaldehyde requirements. Built-in cabinetry and architectural millwork containing composite woods must be constructed from materials documented to have low formaldehyde emissions that meet the California Air Resources Board requirements for ultra-low-emitting formaldehyde (ULEF) resins or no-added formaldehyde-based resins. Salvaged and reused architectural millwork more than one year old at the time of occupancy is considered compliant, provided it meets the requirements for any site-applied paints, coatings, adhesives, and sealants.</p> <p>Low emissions of volatile organic compounds excluding furniture: The following products must either be inherently non-emitting or be tested and determined compliant in accordance with California Department of Public Health Standard Method v1.2–2017, using the applicable exposure scenario. For products for school classrooms, the testing should be performed using the classroom scenario, for all other products use the default private office scenario Both first-party and third-party statements of product compliance must follow the guidelines in CDPH SM v1.2–2017, Section 8. Organizations that certify manufacturers’ claims must be accredited under ISO Guide 65. Laboratories that conduct the tests must be accredited under ISO/IEC 17025 for the test methods they use.</p> <p><b>Option 2. Building Materials</b> For at least one month, track all building material purchases (including furniture) used and/or installed as part of space reconfigurations, additions/alternations, or renovations. Purchase at least 50% (1 point) or 75% (2 points, Interiors only), by cost, of total building materials that meet at least one of the following criteria under Reporting, Optimization, and other attributes. Reporting: Health Product Declaration. The end use product has a published, complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration Open Standard. Cradle to Cradle Certified. Products purchased have earned Cradle to Cradle certification of any level, Version 3 or newer.</p>



			<p>Declare. The Declare label must indicate that all ingredients have been evaluated and disclosed down to 1000 ppm.</p> <p>EPD Optimization path: Products with Environmental Product Declarations (EPDs) that are third-party certified and demonstrate impact reduction below industry average in at least three of the following categories:</p> <p>global warming potential (greenhouse gases), in CO<sub>2</sub>e; depletion of the stratospheric ozone layer, in kg CFC-11; depletion of nonrenewable energy resources, in MJ.</p>
<b>LEED – Materials and Resources</b>	O+M: Existing Buildings	<b>Purchasing</b> 1 point	Paper and wood products must be certified by the Forest Stewardship Council or USGBC-approved equivalent.
<b>LEED – Materials and Resources</b>	<p>O+M: Existing Buildings</p> <p>BD+C MF Core and Shell</p> <p>BD+C New Construction: Retail Schools Homes MR, (Homes Midrise)</p>	<b>Purchasing</b> 1 point	<p>Pilot Alternative Compliance Path - Legal Wood</p> <p>Purchases consist of at least 50% Certified Sources as defined by ASTM D7612-10. Wood products sourced from Certified Sources are credited at 100% of their value provided:</p> <p>All wood products are verified to be from Legal (non-controversial) Sources as defined by ASTM D7612-10. And At least 70% (based on cost) of all wood products on the project are from Responsible Sources as defined by ASTM D7612-10.</p>
<p><b>LEED – Indoor Environmental Quality</b></p>  <p>D-Blaze (FRTW) fire retardant</p>	BD+C	<b>Low-Emitting Materials</b> Up to 3 points	<p>Wall panels: At least 75% of all wall panels, by cost or surface area, meet the VOC emissions evaluation, OR inherently non-emitting sources criteria, OR salvaged and reused materials criteria.</p> <p>Ceilings: At least 90% of all ceilings, by cost or surface area, meet the VOC emissions evaluation, OR inherently non-emitting sources criteria, OR salvaged and reused materials criteria.</p>

<p>formulations for interior use do not contain added urea-formaldehyde. No VOC's.</p> <p>The APA reference, "Formaldehyde in Structural Panels" documents that structural panels with this classification are manufactured with phenolic resin adhesives that do not contain urea formaldehyde.</p>			<p>Composite Wood: At least 75% of all composite wood, by cost or surface area, meets the Formaldehyde emissions evaluation OR salvaged and reused materials criteria.</p> <p>The composite wood product category includes all particleboard, medium density fiberboard (both medium density and thin), hardwood plywood with veneer, composite or combination core, and wood structural panels or structural wood products.</p> <p>Product meets the VOC content limits outlined in one of the applicable standards and for projects in North America, methylene chloride and perchloroethylene may not be intentionally added.</p> <ul style="list-style-type: none"> <li>• Certified as ultra-low-emitting formaldehyde (ULEF) product under EPA Toxic Substances Control Act, Formaldehyde Emission Standards for Composite Wood Products (TSCA, Title VI) (EPA TSCA Title VI) or California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM)</li> <li>• Certified as no added formaldehyde resins (NAF) product under EPA TSCA Title VI or CARB ATCM</li> <li>• Wood structural panel manufactured according to PS 1-09 or PS 2-10 (or one of the standards considered by CARB to be equivalent to PS 1 or PS 2) and labeled bond classification Exposure 1 or Exterior</li> <li>• Structural wood product manufactured according to ASTM D 5456 (for structural composite lumber), ANSI A190.1 (for glued laminated timber), ASTM D 5055 (for I-joists), ANSI PRG 320 (for cross-laminated timber), or PS 20-15 (for finger-jointed lumber).</li> </ul>
<p><b>LEED – Regional Priority</b></p>	<p>BD+C</p>	<p>Up to 4 points</p>	<p>These credits have been identified by the USGBC regional councils and chapters as having additional regional importance for the project's region. A database of Regional Priority credits and their geographic applicability is available on the USGBC website, <a href="http://www.usgbc.org/rpc">www.usgbc.org/rpc</a>. <u>One point is awarded for each Regional Priority credit achieved, up to a maximum of four.</u></p>

**UL GreenGuard Gold Certified for Low Chemical Emissions**  
**UL.com/GG UL 2818**


<p><b>UL GreenGuard Gold</b></p> 		<p>UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings</p> <p>Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office and Classroom Environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.</p>
--	---	--

**National Green Building Standard – Home Innovations**  
**NGBS Green Certificate #NGBSGCP-000220**

<p><b>Preserve CA (copper azole)</b></p> 	<p>2012 NGBS 503.2(4) Erosion</p> <p>2015 NGBS 503.2(4)</p> <p>2020 NGBS 503.2(4)</p>	<p>Up to 5 points</p> <p>Up to 6 points</p> <p>Up to 6 points</p>	<p>Certification to the ICC-700 National Green Building Standard. Home Innovation Research Labs authorizes accredited verifiers to award points toward certification without additional documentation when the product(s) is used as noted below.</p> <p>Erosion reduced through use of terracing, retaining walls, landscaping and re-stabilization.</p> <p>Retaining walls built with this product must be an integral part of the installed landscape plan designed to limit long term erosion.</p>
<p><b>Preserve CA (copper azole)</b></p> 	<p>2012 NGBS 602.1.6 Termite-resistant materials</p> <p>2015 NGBS 602.1.6</p> <p>2020 NGBS 602.1.6</p>	<p>2 to 6 points</p> <p>2 to 6 points</p> <p>2 to 6 points</p>	<p>Termite-resistant materials are used in portions of the building.</p> <p>To earn 2 points, product is used in conjunction with other termite-resistant materials for the first 2' of all the foundation, floor, and structural wall, wall cladding, and exterior deck components in zones with slight to moderate termite infestation. Four points are awarded when used in the first 3' in moderate to heavy termite zones, and 6 points are awarded for use in all of the foundation, floor, and structural wall, wall cladding, and exterior deck components in areas of very heavy termites.</p>

## National Green Building Standard – Home Innovations

### NGBS Green Certificate #NGBSGCP-000054

<b>Ecolife (EL2)</b>  	2012 NGBS 602.1.6 Termite-resistant materials	2 to 6 points	Certification under ICC-700 National Green Building Standard. Home Innovation Research Labs authorizes accredited verifiers to award points toward certification without additional documentation when the product(s) is used as noted below.
	2015 NGBS 602.1.6	2 to 6 points	Termite-resistant materials are used in portions of the building.
	2020 NGBS 602.1.6	2 to 6 points	To earn 2 points, product is used in conjunction with other termite-resistant materials for the first 2' of all the foundation, floor, and structural wall, wall cladding, and exterior deck components in zones with slight to moderate termite infestation. Four points are awarded when used in the first 3' in moderate to heavy termite zones, and 6 points are awarded for use in all of the foundation, floor, and structural wall, wall cladding, and exterior deck components in areas of very heavy termites.

#### Resources

1. LEED Links – [usgbc.org](http://usgbc.org)

#### LEED for Building Design and Construction

[BD+C: New Construction](#)

[BD+C: Core and Shell](#)

[BD+C: Data Centers](#)

[BD+C: Healthcare](#)

[BD+C: Hospitality](#)

[BD+C: Retail](#)

[BD+C: Schools](#)

[BD+C: Warehouses and Distribution Centers](#)

#### LEED for Operations and Maintenance

[O+M: Existing Buildings](#)

[O+M: Data Centers](#)



O+M: Hospitality

O+M: Retail

O+M: Schools

O+M: Warehouses and Distribution Centers

LEED for Interior Design and Construction

ID+C: Commercial Interiors

ID+C: Hospitality

ID+C: Retail

LEED for Building Design and Construction

BD+C: Homes

BD+C: Multifamily Midrise

LEED for Neighborhood Development

ND: Plan

ND: Built Project

2. The National Green Building Standard

A home or multifamily building can attain one of four performance levels — Bronze, Silver, Gold, or Emerald.

<https://www.ngbs.com/the-ngbs-green-promise>

3. UL GreenGuard Gold

Products that have achieved GREENGUARD Certification are scientifically proven to meet some of the world's most rigorous third-party chemical emissions standards, helping to reduce indoor air pollution and the risk of chemical exposure.

<https://www.ul.com/resources/ul-green-guard-certification-program>

