



Certifications Cheat Sheet

Navigating the complex and ever-changing world of certifications, regulations and sustainability can be frustrating and time-consuming. Vode has distilled the essential information into manageable pieces that provide quick reference.

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We create lighting systems that elevate the spaces we inhabit and are kind to the planet we share.

Since Vode was started we've been committed to converting energy to its most efficient, most satisfying light forms. To invigorate architecture with small, simple, adaptive solutions. To consume the fewest resources and leave the smallest footprint. And to inspiring the people who work under our light to be their best, both here in Sonoma and around the world.

There are many certifications providing guidelines for how manufacturers, designers, and end users can achieve this goal together. We understand they can get a bit confusing. Navigating all of the available information can be daunting and time-consuming. In doing our own research we have had to break it down into its most simplistic terms so even we can understand it all. This document is a simplified list of our findings. All levels of compliance can be broken down into three categories: Environmental, Energy and Product Safety.

Environmental

International Living Future Institute (ILFI)



The International Living Future Institute (ILFI) is a nonprofit working to build an ecologically-minded, restorative world for all people. Using principles of social and environmental justice, ILFI seeks to counter climate change by pushing for an urban environment free of fossil fuels.

ILFI runs the Living Building Challenge, which is the world's most rigorous green building standard, not to mention several other programs that develop a green framework for living in a 21st-century world.

ILFI Programs:

The Living Building Challenge



The Living Building Challenge is the world's most rigorous standard for green buildings. Going above and beyond LEED certification, Living Buildings strive for net-zero or net-positive energy, are free of toxic chemicals, and lower their energy footprint many times below the generic commercial structure.

[More Information](#)

ILFI Programs Continued:

The Living Product Challenge



The Living Product Challenge is providing framework to help manufacturers re-think the way they are making products. The framework challenges manufacturers to create products that are:

- Healthy and free of toxins
- Socially responsible and respects the rights of workers
- Net positive and benefit both people and the environment

[More Information](#)

The Living Community Challenge



The Living Community Challenge is a framework for master planning, design, and construction. It is looking at how to create communities that are designed for the future. The Living Community Challenge is divided into seven performance areas: place, water, energy, health & happiness, materials, equity, and beauty.

[More Information](#)

Just



The Just program is a voluntary disclosure tool for organizations. It is not a certification program, but a transparency platform for organizations to disclose their operations, including how they treat their employees and where they make financial and community investments. A just label includes items such as diversity, equity, safety worker benefit, local benefit, and stewardship.

[More Information](#)

ILFI Programs Continued:

Declare



Declare is a transparency platform and product database that has positively changed the materials used by manufacturers.

A Declare Label answers:

1. Where does a product come from?
2. What is it made of?
3. Where does it go at the end of its life?

More Information

What is included on a declare label?

Final Assembly Locations are collectively represented on a single label.

Embodied Carbon (optional) discloses the cradle-to-gate impacts of manufacturing the product as reported by manufacturer-specific Type III Environmental Product Declarations.

End-of-life options: take back programs; salvageable or reusable in its entirety; biodegradable/compostable (%); recyclable (%); landfill (%); hazardous waste.

Ingredients are reported by component. Ingredients without restriction appear in grey; Red List chemicals appear in dark orange; Watch List Priority for Inclusion chemicals appear in light orange.

LBC Temporary Exceptions recognize specific market limitations and provide a compliance pathway for products to obtain LBC Compliance recognition.

Declare Identifier for company and product, valid for 12 months. **Original Issue Date** indicates how long a product has been a registered product in the program.

Declare.

Product Name
Manufacturer

Final Assembly: First City, State, Country;
Second City, State, Country; Third City, State, Country
Life Expectancy: 50 Years
Embodied Carbon: # kg CO₂-eq ■
Declared Unit: # m²
End of Life Options: Recyclable (95%), Landfill (5%),
Take Back Program (Program Name/Location)

Ingredients:

Your First Component: Sustainably Sourced Ingredient;
LBC Red List Ingredient; **Your Second Component:**
LBC Watch List Priority for Inclusion; Non-Toxic Ingredient;
Undisclosed (<0.1%)²

¹LBC Temp Exception RL-009 Formaldehyde
²LBC Temp Exception RL-004var.a Proprietary Ingredients

Living Building Challenge Criteria: Compliant

I-13 Red List:
☐ LBC Red List Free **% Disclosed:** 99.9% at 100ppm
☒ LBC Red List Approved **VOC Content:** # g/L
☐ Declared

I-10 Interior Performance: CDPH Standard Method v1.2-2017
I-14 Responsible Sourcing: Product Available with FSC Chain of Custody

XXX-XXXX
EXP. 01 OCT 2021
Original Issue Date: 20XX

MANUFACTURER CLAIMS VERIFIED BY THIRD PARTY VERIFIED ASSESSOR
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Third Party Verified

LBC Criteria Compliance demonstrates compliance with all Imperatives applicable to the selection of building products within the Living Building Challenge. If a product meets the requirements for all applicable Imperatives, the product is considered fully compliant with the Living Building Challenge, and will be noted as such on the Declare label graphic itself.

I-13 Red List requires that manufacturers disclose the ingredients and VOC content (if applicable) in their products to ensure that they are free of Red List chemicals.

I-10 Interior Performance requires compliance with the California Department of Public Health (CDPH) Standard Method v1.1-2010 (or international equivalent) for all interior building products that have the potential to emit Volatile Organic Compounds (VOCs). The Declare label confirms a product's compliance with CDPH or an equivalent emissions standard.

I-14 Responsible Sourcing requires that manufacturers of wood products demonstrate sustainable extraction through certification with the Forest Stewardship Council, by meeting ILFI's definition of low risk or salvaged wood, or through the use of a formal LBC Exception.

Third Party Verification indicates assessment by a professional third-party assessor to ensure the accuracy of the manufacturer's supply chain, purchasing, ingredient claims, LBC compliance, and embodied carbon if reported.

Declare Continued:

Vode has LBC Red List Approved Status for our complete product line. All of our products have been reformulated to remove PVC and other harmful ingredients. See our Declare label and [ingredients list](#) for full details.

Declare.

Vode Adaptive Architectural Lighting Systems Vode Lighting LLC

Final Assembly: Sonoma, California, US

Life Expectancy: 10+ Year(s)

End of Life Options: Recyclable

Ingredients:

Remote Driver Enclosure: Steel; **Driver Enclosure :** Anodized Aluminum (6063-T5 Alloy); **Housing:** Anodized Aluminum (6063-T5 Alloy); **Driver :** Small Electrical Component (RoHS); **Output Cable:** Copper; Fluorinated Ethylene Propylene (masterbatch); **Lens Caps:** Anodized Aluminum (6063-T5 Alloy); **Printed Circuit Boards:** Small Electrical Component (RoHS); **Lens:** Polymethyl methacrylate (PMMA); Poly(methyl methacrylate/butyl acrylate/styrene) (PMMA/BA/S); Methyl methacrylate (MMA); **Hubs:** Anodized Aluminum (6063-T5 Alloy); **Suspension Cable:** Copper; Fluorinated Ethylene Propylene (masterbatch); Styrene-butadiene polymer, hydrogenated; Styrene/butadiene copolymer; Distillates; Polypropylene; Calcium carbonate; **Rail Caps:** Polyoxymethylene Copolymer (POM); **Driver Mounting Bracket:** Stainless Steel; **Driver Input/Output Leads:** Copper; EVA Copolymer; Polyphenylene Oxide; **Remote Driver Enclosure Ground Wire:** Fluorinated Ethylene Propylene (masterbatch); Copper; **Luminaire Disconnect:** Small Electrical Component (RoHS); **Mounting Option 1 Clips:** Stainless Steel; **Input Cable:** Copper; Fluorinated Ethylene Propylene (masterbatch); **Driver Enclosure Ground Wire Ring Terminal:** Copper; **Hub Contact Assembly:** Small Electrical Component (RoHS); **Remote Driver Enclosure Fasteners:** Stainless Steel; **Mounting Option 1 Fasteners:** Stainless Steel; **Housing End Caps:** Anodized Aluminum (6063-T5 Alloy); **Driver Enclosure Ground Wire:** Copper; **PCB Double Sided Tape:** Acrylate Copolymer Adhesive; **Rail Cap Discs (Power):** Small Electrical Component (RoHS); **Rail Cap Discs (No Power):** Polycarbonate; **Hub Contact Assembly Fasteners:** Stainless Steel; **Driver Enclosure Fasteners :** Stainless Steel; **Input Cable Connector:** Small Electrical Component (RoHS); **Suspension Cable Connectors:** Small Electrical Component (RoHS); **Input Cable Strain Relief:** Brass

Living Building Challenge Criteria: Compliant

I-13 Red List:

- | | |
|---|-----------------------------|
| <input type="checkbox"/> LBC Red List Free | % Disclosed: 100% at 100ppm |
| <input checked="" type="checkbox"/> LBC Red List Approved | VOC Content: Not Applicable |
| <input type="checkbox"/> Declared | |

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Well Building Standard



The WELL Building Standard v1 is revolutionizing the way people think about buildings. It explores how design, operations and behaviors within the places where we live, work, learn and play can be optimized to advance human health and well-being. Covering seven core concepts of health and hundreds of features, WELL v1 is a flexible building standard and represents the future of design.

Red List Approved products have been approved as a compliance pathway for the International WELL Building Standard's Feature 26 for Enhanced Material Safety.

[More Information](#)

LEED



LEED, or Leadership in Energy and Environmental Design, is the most widely used green building rating system in the world. Available for virtually all building, community and home project types, LEED provides a framework to create healthy, highly efficient and cost-saving green buildings.

There are four levels of LEED certifications:

- Certified
- Silver
- Gold
- Platinum



[More Information](#)

Environmental Protection Agency (EPA)



The mission of EPA is to protect human health and the environment.

- EPA works to ensure that Americans have clean air, land and water.
- National efforts to reduce environmental risks are based on the best available scientific information.
- Federal laws protecting human health and the environment are administered and enforced fairly, effectively and as Congress intended.
- Environmental stewardship is integral to U.S. policies concerning natural resources, human health, economic growth, energy, transportation, agriculture, industry, and international trade, and these factors are similarly considered in establishing environmental policy.
- All parts of society - communities, individuals, businesses, and state, local and tribal government - have access to accurate information sufficient to effectively participate in managing human health and environmental risks;
- Contaminated lands and toxic sites are cleaned up by potentially responsible parties and revitalized.
- Chemicals in the marketplace are reviewed for safety.

[More Information](#)

JA8



California Building Energy Efficiency Standards mandate the use of high efficacy luminaries certified to JA8 requirements in residential applications. JA8 products are listed in an on-line Modernized Appliance Efficiency Database system.

Many Vode products are JA8 compliant. Vode JA8 compliant products are limited with respect to optics, drivers, CCT and CRI. See the [Vode JA8 Compliance Guide](#) for more information.

DLC (DesignLights Consortium)



DLC (DesignLights Consortium) is a non-profit organization which has developed energy and quality specifications for commercial LED luminaries with input from federal, state and local utilities and energy efficiency program members, lighting designers and manufacturers and other interested parties. DLC Certified products are eligible for rebates from most local electrical utility providers.

DLC Certified products are listed on the DLC website in the QPL (Qualified Products List).

[More Information](#)

Many Vode ZipOne and ZipTwo products are DLC Listed. See the [Vode DLC Compliance Guide](#) for more information.

UL



UL LLC is a global safety certification company located in Northbrook, Illinois with 10,500 employees in 46 countries. Established in 1894 as the Underwriters' Electrical Bureau, it was known throughout the 20th century as Underwriters Laboratories.

UL is just one of many companies approved to perform safety testing by the U.S. federal agency Occupational Safety and Health Administration (OSHA). OSHA maintains a list of approved testing laboratories, which are known as Nationally Recognized Testing Laboratories.

[More Information](#)

TUV | United States & Canada



The TÜV Rheinland AG is an international, independent testing service founded in 1872 and based in Cologne, Germany. TÜV Rheinland operates as a technical testing organization in the areas of safety, efficiency and quality and employs 19,924 people in 65 countries.

All Vode products are listed/certified by TUV, a nationally recognized test lab (NRTL), to UL1598 (UL Standard for Safety for Luminaries).

[More Information](#)

UL | NOM



NOM Mexico Normas Oficiales Mexicanas

As of 6/3/19, all lighting products entering Mexico were required to comply with Mexico NOM requirements. Electrical products must meet additional mandatory requirements regarding energy efficiency

The Vode product line was evaluated by UL-Mexico to NOM-003-SCFI-2104 (Electric Products Safety Specifications) and is approved. Vode NOM product requires Vode install guides, product and carton labels in Spanish.

[More Information](#)

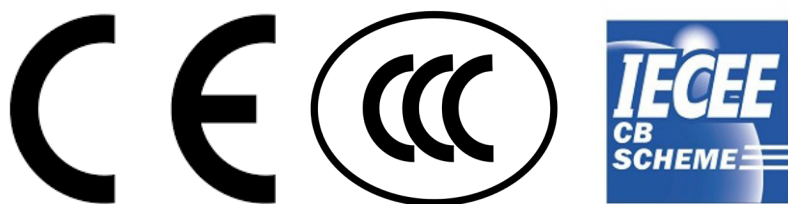
India



All lighting products entering India are required to be evaluated to BIS (Bureau of Indian Standards) IS 10322 and assigned a BIS Registration Number. Many components, such as drivers and supply cable also require BIS Registration numbers.

[More Information](#)

CE, CCC, CB Scheme



Most countries, **except** North America, require luminaires to be evaluated to IEC60598 (Luminaires). In addition, national deviations to IEC60598 and other standards (ROHS, REACH, etc.) may apply. Many require in country testing and in country representation which complicates product submittals.

All Vode products, have been evaluated to IEC60598 and are described in a CB Report.