

Contributions to LEED®-CI



UniGroup

Minimize impact. Maximize investment. UniGroup® is the sensible solution for minimizing impact on the environment—from its manufacturing process that preserves the quality of air to inclusion of recycled content. And because it's made to last, your investment is designed with the environment in mind. UniGroup helps achieve LEED-CI credits. UniGroup products may contribute to the individual prerequisites and credits of LEED CI. Because LEED is a holistic building rating system and sustainable design guideline, there is no such thing as LEED-certified products—only ways of using and applying products to support the criteria.

HAWORTH
change by design

UniGroup Contributions to LEED-CI

Air Quality. The materials in UniGroup contribute to better indoor air quality. For example: Glues and finishes do not contain volatile organic compounds (VOCs). UniGroup is GREENGUARD™ certified as low-emitting for formaldehyde, VOCs and aldehydes. Metal parts are painted using powder coating, an environmentally clean technology that doesn't use solvents. Overspray is captured and reused to minimize waste.

Recycled Content. UniGroup monolithic panels are constructed with rugged monocoque construction consisting of a steel frame and cover (30% recycled content) over a paper honeycomb core (20% recycled core content). Several fabrics and colorways are available in 100% recycled polyester. Wheatboard, an agriboard product, is available for worksurfaces, providing rapidly renewable materials content for LEED. The majority of materials used in UniGroup panels are also recyclable.

Design for the Environment (DfE). UniGroup is an extremely strong and durable system that provides many years of reliable service for an excellent return on investment. Designing product that maximizes useful life is one of many strategies related to Design for the Environment (DfE).

Contributing to LEED-CI. In some cases UniGroup contributes directly to individual LEED points, but in other cases can only help meet the overall intent. There are relatively few instances where selection of any one manufacturer's product will lead directly to acquisition of a LEED point(s). The following product information highlights direct impacts as well as application tips and strategies to help you maximize the contribution of points toward your project's LEED certification.

LEED-CI Credit	Intent/Requirement	UniGroup Contribution
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ENERGY AND ATMOSPHERE

<p>Optimize Energy Performance – Lighting Power Credit 1.1 (1-3 pts)</p>	<p>Intent: Achieve increasing levels of energy conservation beyond the referenced standard to reduce environmental impacts associated with excessive energy use.</p> <p>Requirement: Reduce connected lighting power density below that allowed by ASHRAE/IESNA Standard 90.1-2001 (with all addenda)* to 15% below the standard (1 pt), 25% below the standard (2 pts), or 35% below the standard (3 pts).</p>	<ul style="list-style-type: none"> UniGroup lighting solutions utilize high-efficiency electronic ballasts and energy-efficient technologies such as T5 and T8 lamps.
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<p>Optimize Energy Performance – Equipment and Appliances Credit 1.4 (1-2 pts)</p>	<p>Intent: Achieve increasing levels of energy conservation beyond the prerequisite standard to reduce environmental impacts associated with excessive energy use.</p> <p>Requirement: For all ENERGYSTAR-eligible equipment and appliances in project, including appliances, office equipment, electronics and commercial food service equipment (but excluding HVAC, lighting and building envelope products):</p> <ul style="list-style-type: none"> 70% by rated-power, of ENERGYSTAR-eligible equipment and appliances shall be ENERGYSTAR-rated (1 pt); 90% by rated-power, of ENERGYSTAR-eligible equipment and appliances shall be ENERGYSTAR-rated (2 pts). 	<ul style="list-style-type: none"> UniGroup system products do not directly impact this point, but can assist indirectly as a platform for supporting ENERGY-STAR-rated products. The Power Base™ power distribution system available on UniGroup allows monitors, task lights, office equipment and other non-critical plug loads to be placed on a separate circuit which can be controlled by the building management system.
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MATERIALS AND RESOURCES

<p>Resource Reuse – Furniture and Furnishings Credit 3.3 (1 pt)</p>	<p>Intent: Reuse building materials and products in order to reduce demand for virgin materials and reduce waste, thereby reducing impacts associated with the extraction and processing of virgin resources.</p> <p>Requirement: Use salvaged, refurbished, or used furniture and furnishings for 30% of the total F&F budget.</p>	<ul style="list-style-type: none"> UniGroup is designed for easy disassembly and movement from one space to another. The ability to reuse furniture and furnishings significantly reduces F&F budgets for new spaces, decreasing use of virgin resources. UniGroup can be refurbished to extend the useful life of the product. Also, products such as add-on panels, if® cascade edge worksurfaces, slat pad wall accessory that works with Jump™ Stuff tools and X-series® storage can all be used with existing UniGroup product to update the look of a facility and enhance the function of existing product.
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* ASHRAE/IESNA 90.1-2004 will become the referenced standard once available.

LEED-CI Credit

Intent/Requirement

UniGroup Contribution

MATERIALS AND RESOURCES

Recycled Content
Credit 4.1 and 4.2 (1-2 pts)

Intent: Increase demand for building products that incorporate recycled content material, thereby reducing impacts resulting from extraction and processing of new virgin materials.

Requirement: Use materials, including Division 12 (furniture and furnishings), with recycled content such that the sum of post-consumer recycled content plus one-half of the post-industrial content constitutes at least 10% -1 pt (or 20% - 2pts) of the total value of the materials in the project.

- UniGroup panels are available in a broad array of 100% recycled polyester fabrics.
- A range of high-recycled content options for particleboard and MDF can be ordered through specials for UniGroup worksurfaces and tabletops. Wheatboard, a rapidly renewable material, can also be ordered as a special for many of these products.
- The average UniGroup panel recycled content is listed in the chart below:

UniGroup Recycled Content Examples	Total Recycled Content % BY WEIGHT	Post-Consumer Content % BY WEIGHT	Post-Industrial Content % BY WEIGHT	LEED RC (PC+1/2PI) % BY VALUE
UniGroup Panel	33%	20%	13%.....	27%

Regional Materials – 20% Manufactured Regionally
Credit 5.1 (1 pt)

Intent: Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the regional economy and reducing the environmental impacts resulting from transportation.

Requirement: Use a minimum of 20% of the combined value of construction and Division 12 (furniture and furnishings) materials and products that are manufactured regionally within a radius of 500 miles.

- UniGroup systems are manufactured within a 500-mile radius of approximately 50% of the U.S. population. Primary production is in Holland, Michigan. Credit contribution depends on the location of the project.

Rapidly Renewable Materials
Credit 6 (1 pt)

Intent: Reduce the use and depletion of finite raw and long-cycle renewable materials by replacing them with rapidly renewable materials.

Requirement: Use rapidly renewable construction and Division 12 (furniture and furnishing) materials and products, made from plants that are typically harvested within a ten-year or shorter cycle, for 5% of the total value of all materials and products used in the project.

- Wheatboard, a 100% recycled agrifiber product, is a rapidly renewable material that is available as an optional core material for UniGroup worksurfaces.

LEED-CI Credit

Intent/Requirement

UniGroup Contribution

INDOOR ENVIRONMENTAL QUALITY

**Low-Emitting Materials –
Systems Furniture and Seating**
Credit 4.5 (1 pt)

Intent: Reduce the quantity of indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installer and occupants.

Requirement: All systems furniture and seating introduced into the project space that has been manufactured, refurbished or refinished within one year prior to occupancy must meet one of the requirements below:
OPTION A
 • GREENGUARD Indoor Air Quality Certified
OPTION B
 • Indoor air calculations meet the criteria as stated in the LEED-CI Credit 4.5.

- UniGroup systems products are GREENGUARD certified.

**Controllability of Systems –
Lighting**
Credit 6.1 (1 pt)

Intent: Provide a high level of lighting system control by individual occupants or specific groups in multi-occupant spaces (e.g. classrooms or conference areas) to promote the productivity, comfort and well-being of building occupants.

Requirement: Provide lighting controls for at least 90% of occupants, enabling adjustments to suit individual task needs and preferences, AND all shared multi-occupant spaces where transient groups must share lighting controls.

- UniGroup individual task lights provide direct control of lighting levels. UniGroup systems products are available with integrated task lighting solutions.

Daylight and Views
Daylight 75% (90%) of Spaces (1-2 pts)
Views for 90% of Seated Spaces (1 pt)
 Credit 8.1, 8.2, 8.3

Intent: Provide the occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the tenant space.

Requirement: **Credits 8.1, 8.2** – Achieve a minimum Daylight Factor of 2% (excluding all direct sunlight penetration) in 75% (1 pt) or 90% (2 pts) of all regularly occupied space.
Credit 8.3 – Achieve direct line of sight to vision glazing for building occupants in 90% of all regularly occupied space.

- Variation of panel heights, selection of vision glazing, use of negative space, and proper orientation of components provides access to daylighting and preservation of view corridors.

Intent and Requirement information is paraphrased from the U.S. Green Building Council publication "Green Building Rating System for Existing Buildings, Version 2". For exact wording consult the U.S.G.B.C Web site at www.usgbc.org