

Contributions to LEED®-CI 2.0



COMPOSE

Minimize impact. Maximize investment. Compose™ is the adaptable solution for minimizing impact on the environment—made from materials that focus on recycled content and preserve indoor air quality. Compose is durable and adaptable so it will keep working for you through many years of change. **Compose helps achieve LEED-CI credits.** Compose 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

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Air Quality. The materials in Compose can contribute to better indoor air quality. Metal parts are painted using powder coating, an environmentally clean technology that doesn't use solvents. Overspray is captured and reused to minimize waste. Panel tiles are constructed with formaldehyde-free fiberglass.

Recycled Content. Compose is a frame and tile system consisting of a welded steel open frame (43% recycled content) and formaldehyde-free fiberglass tiles surrounded by a steel frame. Several fabrics and colorways are available in 100% recycled polyester. The majority of materials used in Compose panels are also recyclable.

Design for the Environment (DfE). Compose is an extremely strong and durable system. Tiles can be removed and changed to refresh the product appearance, providing 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 Compose 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.

Credit Description	Impact	
	Direct	Indirect
EA Credit 1 – Optimize Energy Performance		X
EA Credit 1.4 – Optimize Energy Performance – Equipment & Appliances		X
MR Credit 3.3 – Resource Reuse - Furniture and Furnishings	X*	
MR Credit 4.1, 4.2 – Recycled Content	X	
MR Credit 5.1 – Regional Materials	X	
MR Credit 7 – Certified Wood.....	X	
EQ Credit 4.5 – Low Emitting Materials – Systems Furniture and Seating	X	
EQ Credit 6.1 – Controllability of Systems – Lighting	X	
EQ Credit 8.1, 8.2 – Daylight and Views	X	

** Assumes pre-existing product. Since Compose is a new product, this would not be true on initial installations, but if customers seek LEED certification on future projects, Compose can have a direct impact on this credit.*

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LEED-CI Credit	Intent/Requirement	Compose Contribution
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 reference 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 90.1-2004* to 15% below the standard (1 pt), 25% below the standard (2 pts).</p> <p><i>*ASHRAE/IESNA 90.1-2004 will become the referenced standard once available</i></p>	<ul style="list-style-type: none"> • Compose lighting solutions utilize high-efficiency electronic ballasts and energy-efficient technologies such as T5 and T8 lamps.
<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 ENERGY STAR-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 ENERGY STAR-eligible equipment and appliances shall be ENERGY STAR-rated. (1 pt) • 90% by rated-power of ENERGY STAR-eligible equipment and appliances shall be ENERGY STAR-rated. (2 pts) 	<ul style="list-style-type: none"> • Compose 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 Compose 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.
MATERIALS AND RESOURCES		
<p>Resource Reuse – Furniture and Furnishings Credit 3.3 (1 pt)</p>	<p>Intent: Reuse building products and materials 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"> • Compose 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. • Compose can be refurbished to extend the useful life of the product. Also, products such as Enclose moveable walls can be mixed with existing Compose to update a facility.

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LEED-CI Credit

Intent/Requirement

Compose 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 materials, thereby reducing impacts resulting from extraction and processing of new virgin materials.

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

- Monolithic panels, on average, contain 62% recycled content materials, of which an average of 20% is post consumer (core materials have variable recycled pre- and post-consumer recycled content). Compose contains varying levels of recycled content based on materials chosen. See chart on page 4 for examples.
- Compose panels are available in a broad array of 100% recycled polyester fabrics.
- A range of high-recycled content special options for particleboard and MDF are available for Compose worksurfaces and tabletops.

Recycled Content Examples

Compose Recycled Content Examples	Total Recycled Content % BY WEIGHT	Post-Consumer Content % BY WEIGHT	Pre-Consumer Content % BY WEIGHT	LEED RC (PC+1/2PI) % BY VALUE
8x8 Monolithic Workstation*	42%	24%	18%	33%
Panel (Monolithic)	62%	40%	22%	51%
66x24 Tile	56%	36%	20%	46%
24x36 Standard Worksurface	18%	2%	16%	10%
Upper Storage	42%	30%	12%	36%

*Workstation with standard worksurfaces

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 furnishing) materials and products that are manufactured regionally within a radius of 500 miles.

- Compose systems and products are manufactured in and around Holland, Michigan, within a 500-mile radius of approximately 50% of the U.S. population. Credit contribution depends on the location of the project.

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LEED-CI Credit

Intent/Requirement

Compose Contribution

MATERIALS AND RESOURCES

Certified Wood
Credit 7 (1 pt)

Intent: Encourage environmentally responsible forest management.

Requirement: When using new wood-based product and materials, use a minimum of 50% that are certified in accordance with the Forest Stewardship Council's (FSC) Principles and Criteria. Division 12 (furniture) material value is included in the determination of the certified-wood content.

- Compose worksurfaces, OSU fronts and storage drawer fronts are available in FSC-certified wood. Currently, wood trim is not available in FSC-certified wood. FSC certificates are available upon request.

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.

- Compose systems product is GREENGUARD™ certified.

Controllability of Systems –
Lighting
Credit 6.1 (1 pt)

Intent: Provide a high level of lighting system control for individual occupants and 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.

- Compose individual task lights provide direct control of lighting levels. Systems are available with integrated task lighting solutions.

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LEED-CI Credit

Intent/Requirement

Compose Contribution

INDOOR ENVIRONMENTAL QUALITY

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

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 Commercial Interiors". For exact wording consult the U.S.G.B.C Web site at www.usgbc.org