



Hawaii Prep Energy Lab  
– A LEED® Platinum project  
featuring SunSky® PC panels

# Products for Sustainable Building

USGBC LEED® Program<sup>1</sup> and Palram Polycarbonate Products



# Palram Polycarbonate Products for Sustainable Building

This document is intended to serve as a guide for architects and engineers who are interested in maximizing potential LEED® points in their designs. The following Palram products may have the potential to obtain specific LEED® credits for your project.

Description	Credit	Points	Intent	Optional Strategy <sup>2</sup>	PALRAM Products
<b>Sustainable Sites</b>	7.1	1	Reduce Heat Islands	Provide shade from an architectural device for 50% of the site hardscape	Palram corrugated polycarbonate products can help achieve this credit, as they have been tested and meet or exceed the requirements with regards to SRI, thermal emittance and reflectance.
	7.2	1	Reduce Heat Islands	For > 2:12 slope, use materials with an SRI ≥ 29	Palram corrugated polycarbonate products can help achieve this credit, as they have been tested and meet or exceed the requirements with regards to SRI, thermal emittance and reflectance.
	8	1	Minimize Light Trespass	Envelope openings must have shielding to prevent more than 10% light transmission	All Palram polycarbonate products are available with optional white diffused pigment to reduce direct light from escaping structures.
<b>Energy &amp; Atmosphere</b>	1	1-19	Reduce Energy Usage	Demonstrate improvement in building performance ratings using a computer simulation model for the entire project	All Palram polycarbonate products can assist. Products used for daylighting can decrease needs for lighting while multi-wall polycarbonate products also offer increased insulating values, reducing energy usage.
<b>Materials &amp; Resources</b>	1.1	1-3	Conserving Resources & Reducing Waste	Maintain the existing building structure and envelope	All Palram polycarbonate products can assist. The extreme durability of polycarbonate allows for use of the products for an extended period of time, typically longer than organic materials.
	1.2	1	Conserving Resources & Reducing Waste	Use Existing Interior products in at least 50% of completed building	All Palram polycarbonate products can assist. The extreme durability of polycarbonate allows for use of the products for an extended period of time, typically longer than organic materials.
	5	1-2	Supporting Local Suppliers, Reducing Transportation	Products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project	DYNAGLAS, PALGARD, PALSUN, SUNLITE, SUNSKY, SUNTUF, and THERMAGLAS are manufactured in Kutztown, PA. This radius serves New York City and surrounding areas. Call Palram for details.

**On the cover:** Hawaii Prep Academy Energy Lab, a certified LEED® Platinum project located in Kamuela, Hawaii. This project exceeds the LEED® Platinum standards and has also been declared a Living Building from the International Living Building Institute. The photo shows Palram SunSky® panels used in a daylighting application. Architects: Flansburgh Architects, Boston, MA. Photography: Matthew Millman of San Francisco, CA.



- DYNAGLAS®
- PALGARD™
- SUNGLAZE™
- SUNPAL®
- SUNTUF®
- EDGELOCK™
- PALSUN®
- SUNLITE®
- SUNSKY®
- THERMAGLAS™

Description	Credit	Points	Intent	Optional Strategy <sup>2</sup>	PALRAM Products
<b>Indoor Environmental Quality</b>	4.1	1	Reduce Indoor Air Contaminants	Adhesives, sealants and sealant primers must adhere to strict VOC limits	All Palram polycarbonate products are installed as a dry system. No sealants are needed for proper installation.
	6.2	1	Thermal Comfort Control	Include operable windows in building design	PALGARD, PALSUN, SUNLITE, SUNPAL, and THERMAGLAS can be designed for use in operable windows, allowing ventilation, and increasing occupant comfort.
	7.1	1	Thermal Comfort Material	Design building envelope to meet ASHRAE standard 55-2004	SUNLITE, SUNPAL, and THERMAGLAS multi-wall products allow optimal daylighting while providing increased insulation values over monolithic products.
	8.1	1	Views of Daylight	Minimum of 25 foot-candles daylighting illumination in at least 75% of occupied areas	All Palram polycarbonate products can assist with all options of this credit. The white diffused option allows for more consistent light while eliminating shadows, hotspots, and glare. White diffused products have a measured haze value of 100% when tested in accordance to ASTM D1003.
	8.2	1	Views of Outdoor Spaces	90% of all occupied areas must have a view to outdoor environment	All Palram translucent polycarbonate products offer excellent light transmission and clarity for viewing outdoors.
<b>Innovation &amp; Design Process</b>	1.1	1	Performance Not Specifically Addressed	The opportunity to achieve exceptional performance above the requirements	Palram is on the cutting edge of new product development and can work with designers / architects to develop the most innovative solutions for their applications.

<sup>1</sup> United States Green Building Council (USGBC), *LEED 2009 for new Construction and Major Renovations*, October 2010

<sup>2</sup> It is important to note that Palram has taken the liberty of paraphrasing and created abbreviated definitions for your ease of understanding. This document does NOT replace the requirements set forth in the USGBC's *LEED® 2009 For New Construction and Major Renovation*, October 2010. For exact requirements, please visit [www.usgbc.org](http://www.usgbc.org) and download the latest version.





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F5003 06.09.2011 PBW

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