

Green Building Product Scorecard

At the request of HOG Works Pty Ltd (the “Company”), vivo ventures (“vivo”) compiled the Company's green building product scorecard of the HOG Works’ Rainwater HOG (“Rainwater HOG”). The LEED rating system was used as the basis for establishing the green building criteria upon which to evaluate the product. LEED is a rating system created by the USGBC to define and measure green buildings. The LEED Green Building Rating System™ is the accepted benchmark in North America for the design, construction, and operation of high-performance green buildings. LEED certifies projects, not products; however, the materials and technologies employed on LEED registered projects can assist projects in achieving LEED certification by contributing to the attainment of credits in different LEED categories.

The Rainwater HOG was evaluated based on the credit intent and requirements of the prevailing LEED rating system on the date of evaluation. This evaluation does not constitute an audit. This evaluation is based on the manufacturers’ representations and inspection of third party documentation provided by the manufacturer.

The goal of this scorecard is not to assess and report on the entire environmental impact or sustainability of this product. Such a comprehensive evaluation would involve assessment of all material and process inputs and outputs from extracting, processing, manufacturing, transportation, warehousing, use, and disposal of the product, and would, for example, quantify the product’s specific environmental impacts GHG emissions, embodied energy, and end of life disposal waste. Evaluations based on other sustainability criteria and rating systems can be performed upon request; please contact evaluations@vivodepot.com to enquire about custom product evaluations.

Product Review:	Rainwater HOG
Product Description:	Rainwater HOG is a rainwater harvesting system that captures and stores surface water runoff for indoor water use or outdoor irrigation. The Rainwater HOG system is sized according to the water usage sought to be replaced by harvested rainwater. Each 180 Litre storage tank (40 lbs when empty, 440lbs at full storage capacity) is made from virgin, food grade, UV stabilized polyethylene and are linked to one another with glass fibre reinforced nylon connectors approved for consumable water applications. Each tank and system component is reusable and 100% recyclable. These modular storage tanks are easy to install and disassemble, require no permanent foundation, and can store water in a horizontal or vertical position.
Technical Materials Description:	Tanks: ICO COTENE 9050 Ultra UV, medium density, food grade, long term UV stabilized (minimum UV 16 rating), virgin polyethylene. Connectors: Heavy duty glass fibre reinforced nylon approved for potable water applications.
Manufacturer:	HOG Works Pty Ltd.
Manufacturing Location: ¹	Washington, USA
Evaluation Criteria:	USGBC LEED for New Construction Rating System (version 2.2)
Evaluation Date:	May 20, 2008
Evaluation Performed By:	Allison Ashcroft CPA, LEED AP Director, vivo ventures
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¹ Extraction and manufacturing location for at least **80%** of the physical mass of the product (consistent with LEED criteria requirement of Regional Materials credit of the LEED for New Construction Materials and Resources category).

Results of Rainwater HOG's LEED Product Evaluation:

LEED For New Construction Category	LEED for New Construction Credit	Product's Maximum Contributory Credits	Basis for Credit Contribution
Sustainable Sites	SS 6.1 or 6.2 Storm Water Design and Control	1	Attributable when stormwater volumes are captured for landscape irrigation, toilet and urinal flushing and custodial uses, or when product is incorporated into a comprehensive stormwater management plan.
Water Efficiency	WE 1.1 and WE 1.2 Water Efficient Landscaping: Reduce by 50% or No potable water use or irrigation	1	Attributable to one credit when a 50% reduction of potable water consumption for irrigation is achieved. Attributable to two credits when a 100% reduction of potable water consumption for irrigation is achieved. Achieved through a combination of rainwater harvesting and greywater reuse, efficient irrigation, and native or drought-resistant landscaping.
Energy and Atmosphere*			
Materials and Resources	3.1 Material Reuse	2	Attributable when acquire a Rainwater HOG through HOG Works' secondary sales channels for reclamation resales; reused or salvaged materials must account for at least 5% (1 credit) and 10% (2 credits) of total materials costs.
	5.1 Regional Materials	2	Attributable when project is located within a 500 mile radius of HOG Works' Washington state manufacturing facility; regional materials must account for at least 5% (1 credit) and 10% (2 credits) of total materials costs.
Indoor Environmental Quality*			
Innovation and Design Process	ID 1 Innovation in Design	1	Potentially achievable Innovation in Design credit for product's flexibility in use through modular design and optional configurations, transferability, and/or HOG Works' secondary sales channels for reclamation resales.
Total Rainwater HOG attributable credits in LEED for New Construction rating system		8	

*The LEED credits of this category are not applicable to this product type and function.

About HOG Works

In response to the growing demand for innovative water conservation products HOG Works Pty Ltd was founded in 2003 to produce a range of HOG products in Australia for both local and international markets. Sustainable environment designers in North America now have real time assistance in integrating HOGs into buildings and landscapes; HOG Works has recently opened offices in Corte Madera, 30 minutes north of San Francisco. HOG Works products are manufactured in Washington for North American distribution. The Rainwater HOG is made of 100% recyclable virgin polyethylene, a durable, long life material that allows HOG Works to ship its HOGs without packaging.

About vivo

vivo ventures, and its affiliates, is a provider of integrated sustainability solutions for the built environment and a hunter-gatherer and supplier of green building materials and technologies. vivo's primary goal is to provide accessibility and affordability to green building for the purpose of encouraging and effecting wider adoption of the green building technologies, processes and products which result in high performance, eco-efficient buildings and a more sustainable built environment. vivo works closely with the design-build community to develop and apply sustainable, "whole building" strategies emphasizing energy and water efficiency and conservation and the creation and restoration of healthy, durable buildings. Through product and service bundling of green building solutions we aim to support architects and builders in providing high performing, eco-efficient buildings to their clients affordably.

vivo's Intent: Choices for Sustainable Living.
vivo's Requirement: Building Integrity, Accountability, Affordability.
vivo's Strategy: Design Thoughtfully. Build Responsibly. Live Well.

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