

G.05.0 - LEED Points

REV. 1

2/2/12

This document summarizes the ability of the StormTank™ to contribute to a project LEED certification.

Definitions:

LEED: Leadership in Energy and Environmental Design (LEED) was developed by the U.S. Green Building Council since 1998. LEED consists of a suite of rating systems for the design, construction and operation of high performance green buildings, homes, and neighborhoods. LEED is intended to provide building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions. [Wikipedia]

Current LEED Rating Suite:

- Green Building Design & Construction
 - LEED for New Construction
 - LEED for Core & Shell
 - LEED for Schools
 - LEED for Retail: New Construction and Major Renovations
 - LEED for Healthcare
- Green Interior Design & Construction
 - LEED for Commercial Interiors
 - LEED for Retail: Commercial Interiors
- Green Building Operation & Maintenance
 - LEED for Existing Buildings: Operations & Maintenance
- Green Neighborhood Development
 - LEED for Neighborhood Development
- Green Home Design and Construction
 - LEED for Homes

Description:

The LEED Certification of a project is dependent on the entire design of the project including the implementation of innovative design. This has to be accomplished through numerous measures and cannot be achieved by one product alone. Utilization of StormTank™ will assist a designer in receiving numerous LEED Points. Brentwood Industries has developed the following information to represent how a StormTank™ system can be utilized in a LEED Certified Plan and how the product's material, manufacturing, shipping and adaptability all play a role in its ability to aid in certification.

Brentwood Industries StormTank™ system can contribute to a LEED New Construction (LEED-NC) design.

Potential Points

Sustainable Sites:		Percentage of 11 Points
Credit	Description	Point
2	Development Density and Community Connectivity The utilization of a StormTank™ system can reduce the overall footprint of a project by the placement of stormwater infrastructure in a sub-surface detention, infiltration, capture/reuse facility, reducing the disturbed area required to meet the regulatory requirements.	5
5.1	Site Development - Protect or Restore Habitat The utilization of a StormTank™ system can reduce the overall footprint of a project by incorporating infrastructure into sub-surface facilities. The reduced footprint will limit the need to clear existing habitats (woodlands, grasslands, etc.) for utilization as infrastructure.	1
5.2	Site Development - Maximize Open Space The utilization of a StormTank™ system can maximize the open space to provide native vegetation through parks and recreational facilities. Since the system is a sub-surface stormwater system, precious native vegetation can remain and new recreational or aesthetic spaces can be created where a turf grass basin would have existed previously.	1
6.1	Stormwater Design - Quantity Control The StormTank™ system has applications in both detention and infiltration. The 97% void space of the system provides capacity to limit the discharge rate of the facility, while the platen design maximizes the infiltration footprint of the system. In addition, the system can be modified to be utilized for other applications such as rain gardens, infiltration swale, capture/reuse, etc.	1
6.2	Stormwater Design - Quality Control A StormTank™ system can promote infiltration through the maximized infiltration footprint of the system. In addition, the system can be modified to be utilized for other applications such as rain gardens, infiltration swale, capture/reuse, etc. Infiltration has been shown to provide an 85% reduction in TSS while capture/reuse can remove 100% of TSS.	1
7.1	Heat Island Effect – Non-roof A StormTank™ system can be incorporated with pervious hardscape to provide sub-surface storage and infiltration that will cool the runoff and limit the discharge of heated flows.	1
7.2	Heat Island Effect - Roof A StormTank™ system can be incorporated into the rooftop drainage system to provide sub-surface storage and infiltration that will cool the runoff and limit the discharge of heated flows.	1



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Water Efficiency:		Percentage of 8 Points
Credit	Description	Point
1	Water Efficient Landscaping This credit is typically achieved through the elimination of turf grass for native or adaptive species and not utilizing irrigation, but is still achievable with a non-potable irrigation system. The StormTank™ design can meet this goal through its large storage capacity for other forms of water such as runoff and gray water. When combined with a solar pump system, this forms an innovative Green landscaping.	2-4
3	Water Use Reduction This credit is achieved by going above the 20% required reduction and achieving a 30% or 40% reduction in water use. The system's design can meet this goal through its large storage capacity for other forms of water such as runoff and gray water, which in turn can be utilized to reduce the required potable water use of the project.	2-4

Materials and Resources:		Percentage of 6 Points
Credit	Description	Point
2	Construction Waste Management When the modules are shipped to a site, all shipping materials are recyclable. The platens are shipped on wooden pallets and bound with nylon ties and plastic wrap. In addition, the columns are shipped in cardboard boxes on wooden pallets.	1-2
4	Recycled Content The module columns are manufactured from 100% pre-consumer/post-manufacturing recycled materials. The module platens and side panels are manufactured from a maximum 50% pre-consumer/post-manufacturing recycled materials and 50% virgin material.	1-2
5	Regional Materials Since the product is manufactured from a majority recycled materials, the system contributes to a percentage of points for this credit as long as the project is within a 500 mile radius of either the Asheboro, North Carolina plant or the Lebanon, Pennsylvania plant.	1-2

Innovation in Design:		Percentage of 5 Points
Credit	Description	Point
1	Innovation in Design The StormTank™ system has numerous configurations and applications that will allow for a designer to implement innovative designs. The StormTank™ is also manufactured from a majority recycled material, which means this product can be Green from start to finish.	1-5

