



LEED™ Credits for TERREWALKS®

TERREWALKS® interlocking open-grid permeable 100% engineered waste plastic pedestrian paving system contributes credits in the following sections:

2.1, 2.2 - Construction Waste Management - TERREWALKS are made with a zero-waste manufacturing process. Any product recovered from a site can be relocated and reused at another site, or donated, or returned to **TERRECON, Inc.** in exchange for new product. Any product deemed no longer serviceable will be 100% recycled into newly manufactured product. No TERREWALKS or TERREWALKS material will end up in landfill or be incinerated.

Intent: To divert construction and demolition debris from disposal in landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites. **Requirement:** Recycle and/or salvage at least 50% or 75% (by weight or volume) of non-hazardous construction and demolition debris. Develop and implement a construction waste management plan quantifying material diversion goals.

4.1, 4.2 - Recycled Content - TERREWALKS are 100% recycled-content engineered waste plastic. TERREWALKS contains no new or non-recycled material. Each TERREWALKS paver diverts 36 pounds of waste plastics.

Intent: Increase demand for building products that incorporate recycled content materials, thereby reducing the impacts resulting from extraction and processing of virgin materials. **Requirement:** Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes 10% or 20% (based on cost) of the total value of the materials in the project.

5.1, 5.2 - Regional Materials - TERREWALKS are manufactured in Texas and divert low density and high density polyethylene plastic and other waste plastics from landfill.

Intent: Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation. **Requirement:** Use building products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for minimum of 10% or 20% (based on cost) of the total materials value. If only a fraction of the product is extracted, harvested or recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

6.1, 6.2 – Storm water Design - TERREWALKS is an open-grid (permeable through seams) pavement system and allows over 97.2 in. per hr of storm water drainage. Its underbase channel system is designed for water drainage into ground. TERREWALKS can be combined with other storm water management solutions to further accommodate this LEED credit.

Intent: Limit disruption of natural water hydrology by reducing impervious cover, increasing on-site infiltration, reducing or eliminating pollution from storm water runoff, and eliminating contaminants. **Requirement:** Implement a storm water management plan that decreases the volume of storm water runoff from the one- or two-year 24-hour design storm, reduces impervious cover, promotes infiltration, and captures and treats the storm water runoff using acceptable best management practices.

7.1 - Heat Island Effect - TERREWALKS is a permeable system which reduces heat island effect, and also provides an SRI of 44.26—exceeding the minimum requirement of 29.

Intent: Reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate and human and wildlife habitat. **Requirement:** Provide any combination of the following for 50% of the site hardscape: shade (within 5 years occupancy), paving materials with a Solar Reflectance Index of at least 29, open grid pavement system. Or, place a minimum of 50% of parking spaces under cover.

1.1 - Innovation in Design - **TERRECON, Inc.** is the pioneer of permeable recycled content pavement as an alternative to concrete and asphalt. TERREWALKS is used nationwide in applications to bring environmental performance and innovation to paved sites.

Intent: To provide design teams and projects the opportunity to be awarded points for exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by LEED. **Requirement:** Identify the intent of the proposed innovation credit, the proposed requirement for compliance, the proposed submittals to demonstrate compliance, and the design approach (strategies) that might be used to meet the requirements.

The LEED™ Green Building rating system is the nationally accepted benchmark for the design and construction of Green buildings. The credits apply for New Construction (LEED-NC) and LEED for Existing Buildings (LEED-EB).



LEED Neighborhood Development Credits for TERREWALKS®

The LEED for Neighborhood Development rating system, currently being developed, integrates the principles of smart growth, new urbanism and green building into the first national system for neighborhood design. The program is a collaborative effort among US Green Building Council, the Congress for the New Urbanism and the Natural Resources Defense Council. This rating system is built upon the LEED for Neighborhood Development pilot rating system, which nearly 240 projects have been using since July 2007 as part of a successful pilot program.

Of the proposed 56 credits and prerequisites, over 20 of them are directly impacted by pedestrian pavement. The goals for neighborhood sidewalks and walkways include pavement which is pervious (allows storm water drainage), reduces heat island effect, is recycled material, and promotes walking.

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LEED for Neighborhood Development Categories Impacted by Pedestrian Pavement Include:

SMART LOCATION & LINKAGE

Wetland and Water Body Conservation
Reduced Automobile Dependence

GREEN INFRASTRUCTURE & BUILDINGS

Construction Activity Pollution Prevention
Certified Green Buildings
Water Efficiency Landscaping
Minimize Site Disturbance in Design and Construction
Stormwater Management
Heat Island Reduction
Recycled Content in Infrastructure

NEIGHBORHOOD PATTERN & DESIGN

Walkable Streets
Compact Development
Transit Facilities
Universal Accessibility
Tree-Lined and Shaded Streets
Neighborhood Schools

INNOVATION & DESIGN PROCESS

Innovation and Exemplary Performance

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