

LEED Potential Impact by Invisible Structures' Products

Sustainable Site

Credit 5.1 Reduced Site Disturbance (Protect or Restore Open Space)

- Porous Paving using Grasspave² and Gravelpave² = less grading for drainage and protect existing vegetation
- Draincore² = fill and/or park over major tree roots

Credit 5.2 Reduced Site Disturbance (Development Footprint)

- Slopetame² = steep vegetated slopes
- Grasspave² = visual lawn, functional traffic surface

Credit 6.1 Stormwater Management (Rate or Quantity)

- Porous Paving using Grasspave² and Gravelpave² = direct infiltration (quantity)
- Porous Paving using Grasspave² and Gravelpave² = direct storage in cross-section (quantity)
- Porous Paving using Grasspave² and Gravelpave² = slows speed of surface flow (rate)
- Rainstore³ - short or long term subsurface storage (quantity)

Credit 6.2 Stormwater Management (Treatment)

- Porous Paving using Grasspave² and Gravelpave² = bio-filter treatment of pollutants
- Slopetame² = bio-swale for capture, conveyance, and treatment
- Draincore² = capture and convey treated water below surface to storage

Credit 7.1 Landscape and Exterior Design to Reduce Heat Islands (Non-Roof)

- Gravelpave² = albedo number of 0.16 (light color stone fill)
- Grasspave² = albedo number of 0.40 (grass fill - color and water transpiration)

Credit 7.1 Landscape and Exterior Design to Reduce Heat Islands (Roof)

- Draincore² = vegetated green roof surface

Water Efficiency Credits

Credit 1.1 Water Efficient Landscaping (Reduce by 50%)

- Source Rain Runoff and Gray Water - 50%+
- Porous Paving using Grasspave² and Gravelpave² = maintain rainfall to existing vegetation roots
- Draincore² = capture/re-use excess water from below porous paving
- Rainstore³
 - store rain for irrigation use
 - Store "gray" water for irrigation use

Credit 1.2 Water Efficient Landscaping (No Potable Water or No Landscaping)

- Source Rain Runoff, Gray Water - 100%
- Porous Paving using Grasspave² and Gravelpave² = maintain rainfall to existing vegetation roots
- Draincore² = capture/re-use excess water from below porous paving
- Rainstore³
 - store rain for irrigation use
 - Store "gray" water for irrigation use

Credit 2 Innovative Wastewater Technologies

- Rainstore3 = Capture and store Building Grey water
 - Use for flushing and/or irrigation
- Rainstore3/Draincore2 = Create on-site wetlands treatment for wastewater
 - Tertiary level water quality
 - Use for flushing, heating/cooling, fire protection, and/or irrigation

Credit 3.1 Water Use Reduction, reduce by 20%

- Rainstore3 = Capture and store Rain and Grey water
 - Mix or replace Potable water by 20% minimum

Credit 3.2 Water Use Reduction, reduce by 30%

- Rainstore3 = Capture and store Rain and Grey water
 - Mix or replace Potable water by 30% minimum

Energy & Atmosphere Credits

Credit 1.1-1.5 Optimize Energy Performance, 20-60% New/10-50% Existing

- Grasspave2 = Reduce solar reflection to south side of buildings
- Draincore2 = Vegetated Cool Roof, reduce heat gain

Materials and Resources

Credit 3.1 and 3.2 Resource Reuse, Specify 5% to 10%

- Preserve and/or reuse existing trees and shrubs found on-site
- Porous Paving using Grasspave2 and Gravelpave2 = greater flexibility in grading and filling above existing roots
- Draincore2 = provide oxygen access to roots below deep fill layers
- Slopetame = revegetate steep slopes and roofs
 - Preserve and reuse excess rainfall
- Rainstore3 and Draincore2 = capture and convey for reuse

Credit 4.1 and 4.2 Recycled Content, Specify 25% to 50%

- All of Invisible Structures Inc. products are molded from post-industrial or post-consumer recycled resins
 - All 1 inch high products weigh .42 lbs per square foot
 - Rainstore3 weighs 1.4 lbs per square foot per layer
- Calculate % of water consumption from recycled gray or rainfall sources

Credit 5.1 Local/Regional Materials, 20% Manufactured Locally

- Depends upon Site location
 - Rainstore3 = shipped unassembled to reduce number of trucks, assembled by local distributor to project specifications

Innovation & Design Process

This category suggests that a story be presented to integrate all of the innovative applications and uses of ISI products and the resulting impact upon the project design and building use, including maintenance.

Grasspave² Gravelpave² Rainstore³ Slopetame² Draincore²