



# North American Green LEED® Green Building Rating System™ Project Certification Goals



North American Green (NAG) is a member of the U. S. Green Building Council (USGBC®) and proudly supports the green building initiative. We manufacture and distribute a full line of performance-guaranteed rolled erosion control products (RECPs) and hydraulic erosion control products (HECPs) that can be utilized in new construction or existing building development projects – greenfield and brownfield alike – to help you reach your LEED Green Building Rating System® project certification goals.

NAG RECPs are divided into three main categories: erosion control blankets, turf reinforcement mats and biodegradable sediment control systems. Our HECPs are divided into two main categories: high-performance erosion control and standard mulch products.

## Erosion Control Blankets

### Short-Term Degradable

NAG's short-term photodegradable and biodegradable erosion control blankets are designed to provide erosion protection and assist with vegetation establishment for 45 days up to 12 months, depending on the type of product, in applications such as moderately sloping areas and channels with low levels of water flow.

### Extended-Term & Long-Term Degradable

NAG's extended-term and long-term photodegradable and biodegradable erosion control blankets are designed to provide erosion protection and assist with vegetation establishment for 18 months up to 36 months, depending on the type of product, in applications such as steep slopes, channels with substantial water flow and along shorelines.

## Turf Reinforcement Mats

NAG's permanent turf reinforcement mats (TRMs) provide permanent erosion protection, assist with vegetation establishment from the moment they are installed, and permanently reinforce the root and stem structures of vegetation.

Using TRMs enables vegetation to be used in areas where the forces exerted by water and/or wind exceed the limits of unreinforced vegetation. Typical applications can include replacing rock, articulated concrete blocks and concrete in high-flow channels or streambanks.

## Sediment Retention Fiber Rolls (SRFRs)

NAG's biodegradable sediment filtration systems: SedimentSTOP® and BioSC™ Wattles, and our photodegradable Standard Straw Wattles reduce soil loss caused by stormwater runoff, trap soil particles while filtering runoff water, and protect waterways, sidewalks and roads from sediment accumulation.

## Hydraulic Erosion Control Products (HECPs)

### High-Performance

Developed in cooperation with Cotton Incorporated, HydraCX™ Extreme Slope Matrix™ and HydraCM™ Steep Slope Matrix™ are high-performance hydraulic erosion control products made with a proprietary blend of straw, reclaimed cotton plant material, tackifiers and binders. HydraCX² mulch is designed especially for steep to severe slopes, 2:1 to 1:1, while HydraCM mulch is designed for medium-length, moderate to steep slopes, 4:1 to 2:1.

### Standard Mulch

Also utilizing a patent-pending blend of straw and reclaimed cotton plant material, GeoSkin® Series hydromulch covers the soil providing a honeycomb layer of protection to assist with erosion control and promote excellent vegetation establishment. Additives and tackifiers combine to ease application, enhance adhesion and retain moisture. Typical applications for high-performance or standard hydraulically applied mulch include: pipelines, waste management sites, power plants, military bases, municipal sites and golf courses.

**Utilizing performance-guaranteed NAG RECPs and HECPs can help you earn credits towards your LEED® Green Building Rating System™ project certification goals in the following areas:**

## New Construction

### Sustainable Sites Prerequisite 1:

#### Construction Activity Pollution Prevention

*Required*

### Credit Intent

Reduce pollution from construction activities by controlling soil erosion, waterway sedimentation and airborne dust generation.

### North American Green Solution

NAG's turf reinforcement mats reinforce the root and stem structures of vegetation on steep slopes and other areas where sheet flow from stormwater exceeds the holding power of existing vegetation, effectively controlling soil erosion and waterway sedimentation to reduce pollution from construction activities.

NAG's HydraMatriCX™ Series are very effective products in controlling erosion and can reduce dust generation. HECPs can be the most effective alternative in many slope protection applications.

NAG's SedimentSTOP® Biodegradable Filtration System is a temporary sediment filtration device that provides highly effective sediment control. SedimentSTOP reduces soil loss caused by stormwater runoff and traps soil particles while allowing water to pass through, protecting waterways, sidewalks, and roads from sediment accumulation.

NAG's Straw Wattles may also be used as a temporary sediment filtration device.

To assist with site sediment and erosion control plan development during the design phase of a project, engineers, contractors and others can rely on NAG's Erosion Control Materials Design Software (ECMDS®). ECMDS incorporates design values for all 15 rolled erosion control products (RECPs) manufactured by NAG, as well as vegetation and various sizes of rock riprap.

## Existing Buildings

### Sustainable Sites Prerequisite 1:

#### Construction Activity Pollution Prevention

*Required*

To begin earning more points towards your **LEED Green Building Rating System** project certification goals today, contact North American Green or your authorized North American Green distributor today by calling **(800) 772-2040**, e-mailing [customerservice@nagreen.com](mailto:customerservice@nagreen.com) or visiting [www.nagreen.com](http://www.nagreen.com).

## Existing Buildings

### Sustainable Sites Credit 3:

#### Integrated Pest Management, Erosion Control & Landscape Management Plan

1 Point

#### Credit Intent

Preserve ecological integrity, enhance natural diversity and protect wildlife while supporting high-performance building operations and integration into the surrounding landscape.

#### North American Green Solution

NAG erosion control products assist in vegetation establishment and turf reinforcement for both restoring previously degraded Greenfield sites to their natural states and for reintroducing native or adapted plant materials in previously developed sites. NAG's BioNet® 100% biodegradable erosion control blankets provide effective and all-natural erosion control and vegetation establishment in an environmentally- and wildlife-friendly manner.

NAG's HydraMatriCx™ series of high-performance HECs are 100% biodegradable, non-toxic and do not contain any synthetic fibers.

In addition, NAG erosion control products can be effectively used to stabilize steeper slopes. This allows expanded building location options and enables a minimal building footprint design to minimize site disruption.

## Existing Buildings

### Sustainable Sites Credit 5:

#### Site Development—Protect & Restore Open Habitat

1 Point

#### Credit Intent

Conserve existing natural site areas and restore damaged site areas to provide habitat and promote biodiversity.

## New Construction

### Materials & Resources Credit 5:

#### Regional Materials

1-2 Points

#### Credit Intent

Increase use of products that are extracted and manufactured within the region, reducing environmental impacts from transportation.

#### North American Green Solution

All NAG products are made in the United States with much of the raw materials also of U. S. origins. Depending on project site location, our erosion control products can gain you credit for regional manufacturing.

All NAG products with natural fiber matrices are produced from plants with a yearly harvest cycle. This falls well below the 10-year or short-cycle required for this credit. Typical fibers used include: straw, coconut and reclaimed cotton plant material.

## New Construction

### Materials & Resources Credit 6:

#### Rapidly Renewable Materials

1 Point

#### Credit Intent

Reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials.

## New Construction

### Sustainable Sites Credit 5.1:

#### Site Development: Protect or Restore Habitat

1 Point

#### Credit Intent

Conserve existing natural areas and restore damaged areas to provide habitat and promote biodiversity.

#### North American Green Solution

NAG RECPs assist in vegetation establishment and turf reinforcement for both restoring previously degraded greenfield sites to their natural state and re-introducing native or adapted plant materials in previously developed sites. NAG's BioNet® 100% biodegradable erosion control blankets provide effective and all-natural erosion control and vegetation establishment in an environmentally and wildlife friendly manner.

Also, NAG's HECs can be effectively used to prevent erosion and therefore increase the stability of steep slopes. This allows expanded building location options and enables a minimal building footprint design to minimize site disruption.

## New Construction

### Sustainable Sites Credit 5.2:

#### Site Development: Maximize Open Space

1 Point

#### Credit Intent

Provide a high ratio of open space to development footprint to promote biodiversity.

## New Construction

### Sustainable Sites Credits 6.1 & 6.2:

#### Stormwater Design: Quantity & Quality Control

1 Point

#### Credit Intent

Limit disruption of natural water hydrology by reducing impervious cover, increasing on-site infiltration, reducing or eliminating pollution from stormwater runoff, and eliminating contaminants.

#### North American Green Solution

NAG RECPs and HECs promote vegetation growth and development to enable the use of alternative surfaces such as vegetated roofs, and non-structural techniques. They can enable the use of vegetation in place of impervious hard armor such as rock and concrete to reduce pollutant loadings. In addition, the SedimentSTOP Biodegradable Filtration System can be used to reduce soil loss caused by stormwater runoff.

NAG's Straw Wattles may also be used as a temporary sediment filtration device.

## Existing Buildings

### Sustainable Site Credit 6:

#### Stormwater Quantity Control

1 Point

## New Construction

### Sustainable Sites Credit 7.2:

#### Heat Island Effect: Roof (RECP Only)

1 Point

#### Credit Intent

Reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate and human and wildlife habitat.

#### North American Green Solution

NAG erosion control products effectively assist in vegetation establishment and reinforcement to enable vegetated roofs to be used in place of constructed surfaces, to reduce heat absorption.

## Existing Buildings

### Sustainable Sites Credit 7.2:

#### Heat Island Reduction: Roof (RECP Only)

1 Point