



**LEED-NC**  
**Green Building Rating System**  
**For New Construction &**  
**Major Renovations**

Manufacturing and specifying products to promote the conservation of water in residential, commercial, and light-industrial applications.

**Version 2.2**

*The following pages are where Ames Fire & Waterworks (A division of Watts Water Technologies, Inc.) products have the potential to help Engineers acquire LEED credits in the design of “GREEN” Sustainable Buildings.*

## Sustainable Sites - 1 Possible Point

### SS Credit 5.2 :

#### Site Development > Maximize Open Space

### 1 Point

**Intent:**

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

**Potential Product Application:**

Ames offers innovative products that can be installed in vertical, horizontal, and N shaped patterns to save space in the development footprint (defined as the total area of the building footprint, hardscape, access roads and parking) and/or provide vegetated open space within the project boundary to exceed the local zoning's open space requirement for the site by 25%.

**Ames Products:**

- Detector Check Valves – 1000SS, 1000DCV, 1005DCV, 1010DCV
- Reduced Pressure Zone Backflows – M400, M400N, M400Z, C400, C400N, C400Z, 4000SS, 4000CIV, 4000BLT, 400B, 4000B
- Reduced Pressure Detector Assemblies – M500, M500N, M500Z, C500, C500N, C500Z, 5000SS, 5000CIV, 5000RPDA
- Double Check Assemblies – M200, M200N, M200a, M200Na, C200, C200N, C200a, C200Na, 2000SS, 2000SE, 200B, 2000B
- Double Check Detector Assemblies – M300, M300N, M300a, M300Na, C300, C300N, C300a, C300Na, 3000SS, 3000SE, 3000B
- In-building Riser – IBR Series
- Dual Check Valve - 20
- Vacuum Breakers – A200, A100, ASCV
- Pre-Engineered Valve Stations – PVS-1000

\*\* For additional product information refer to Ames catalog number (C-Ames 0645) or Ames online <http://www.amesfirewater.com/>

## Water Efficiency - 1 Possible Point

### WE Credit 1.1 :

*Water Efficient Landscaping > Reduce by 50%*

### 1 Point

#### **Intent:**

Limit or eliminate the use of potable water, or other natural surface or subsurface water resources available on or near the project site, for landscape irrigation.

#### **Potential Product Application:**

Ames manufactures a plethora of valves dedicated solely to Irrigation efficiency. These valves have the potential to attribute in the reduction of potable water consumption for irrigation by 50% from a calculated mid-summer baseline case.

#### **Ames Products:**

- Reduced Pressure Zone Backflows – M400, M400N, M400Z, C400, C400N, C400Z, 4000SS, 4000CIV, 4000BLT, 400B, 4000B
- Double Check Assemblies – M200, M200N, M200a, M200Na, C200, C200N, C200a, C200Na, 2000SS, 2000SE, 200B, 2000B
- Vacuum Breakers – A200, A100, ASCV
- Dual Check Valves – 20
- (Globe/Angle) Pilot Operated Automatic Control Valves –
- Pre-Engineered Valve Stations – PVS-1000

\*\* For additional products and information refer to Ames catalog number (C-Ames 0645) or Ames online <http://www.amesfirewater.com/>

## Materials & Resources – 9 Possible Points

### MR Credit 1.3 :

*Maintain 50% of Interior Non-Structural Elements*

**1 Point**

#### **Intent:**

Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.

#### **Potential Product Application:**

Ames products are made of high quality materials that can be reused to extend the life cycle of existing buildings or to reduce environmental impacts of new building construction.

#### **Ames Products:**

- All of Ames products adhere to the LEED-NC MR Credit 1.3: Building Reuse Credit

*\*\* For additional information refer to Ames catalog number (C-Ames 0645), or Ames online <http://www.amesfirewater.com/>*

**MR Credit 2.1 :**

*Construction Waste Management > Divert 50% from Disposal*

**1 Point**

**MR Credit 2.2 :**

*Construction Waste Management > Divert 75% from Disposal*

**1 Point**

**Intent:**

Divert construction, demolition and land-clearing debris from disposal in landfills and incinerators. Redirect recyclable recovered resources back to the manufacturing process. Redirect reusable materials to appropriate sites.

**Potential Product Application:**

Ames products are made of recyclable material or material that can be recycled. Examples include but are not limited to: Domestic and Import Bronze Ingot and Brass Rods, Ductile Iron, Plastic, and Stainless Steel.

Ames also makes use of corrugated post-consumer cardboard when shipping products. Corrugated cardboard manufactured from recycled pulp uses around 75% of the energy used in the manufacture of corrugated cardboard made from virgin pulp. Construction sites may eliminate disposal fees by preparing the cardboard for hauler pickups or delivering it (drop-off) to a recycling facility.

**Ames Products:**

- All of Ames products

*\*\* For additional information contact -Specification Manager - Ames*

**MR Credit 3.1 :**

*Materials Reuse: 5%*

**1 Point**

**MR Credit 3.2 :**

*Materials Reuse: 10%*

**1 Point in addition to MR Credit 3.1**

**Intent:**

Reuse building materials and products in order to reduce demand for virgin materials and to reduce waste, thereby reducing impacts associated with the extraction and processing of virgin resources.

**Potential Product Application:**

Ames products are made of high quality materials that can be reused to extend the life cycle of existing buildings or to reduce environmental impacts of new building construction.

**Ames Products:**

- All of Ames products adhere to the LEED-NC MR Credit 3.1 & 3.2: Materials Reuse

*\*\* For additional information refer to Ames catalog number (C-Ames 0645), or Ames online <http://www.amesfirewater.com/>*

**MR Credit 4.1 :**

*Recycled Content > 10% (post-consumer + ½ pre-consumer)*

**1 Point**

**MR Credit 4.2 :**

*Recycled Content > 20% (post-consumer + ½ pre-consumer)*

**1 Point in addition to MR Credit 4.1**

**Intent:**

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extracting and processing of virgin materials.

**Potential Product Application:**

Ames uses material with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% (Based on cost) of the total value of the materials in the project.

**Ames Products:**

- All products that are made of Bronze and Brass
- All product that are made of 304/306 Stainless Steel

Example: Ames small diameter bronze backflows have 45% post-consumer content and 5% post-industrial content.

- Reduced Pressure Zone Backflows – 400B
- Double Check Assemblies – 2000B, 2000BHC, 200B

*\* Ames Stainless Steel Valves are produced using 80% recycled Stainless Steel. The Stainless Steel recycling plant utilizes the EAF (Electronic Arc Furnace) process for maximum efficiency.*

*\*\* Post-consumer material – defined as waste material generated by households or by commercial, industrial, and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.*

*\*\* Pre-consumer material – defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind, or scrap generated in a process and capable of being reclaimed within the same process that generated it.*

*\*\*\* For additional information and recyclable product percentages contact Specification Manager - Ames*

**MR Credit 5.1 :**

*Regional Materials > 10% Extracted, Processed & Manufactured Regionally*

**1 Point**

**MR Credit 5.2 :**

*Regional Materials > 20% Extracted, Processed & Manufactured Regionally*

**1 Point in addition to MR Credit 5.1**

**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.

**Potential Product Application:**

Ames has manufacturing facilities in the United States thus allowing the product to be within 500 miles of a project site.

**Ames Manufacturing facilities:**

- North Andover, MA
- Spindale, NC
- Sacramento, CA

## Indoor Environmental Quality - 1 Possible Point

### EQ Credit 4.2 :

#### *Low-Emitting Materials > Paints & Coatings*

### 1 Point

**Intent:**

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

**Potential Product Application:**

Ames products utilize a durable blue, grey, and red fused epoxy anti-rust and anti-corrosive coating on all cast iron backflows, ACV Valves, and drains. The coatings NSF () and VOC () contents are low so they are not harmful for installers and occupants.

**Ames Products:**

- Reduced Pressure Zone Backflows – M400, M400N, M400Z, C400, C400N, C400Z, 4000SS, 4000CIV
- Reduced Pressure Detector Assemblies – M500, M500N, M500Z, C500, C500N, C500Z, 5000SS, 5000CIV
- Double Check Assemblies – M200, M200N, M200a, M200Na, C200, C200N, C200a, C200Na, 2000SS
- Double Check Detector Assemblies – M300, M300N, M300a, M300Na, C300, C300N, C300a, C300Na, 3000SS

*\*\* For additional information on NSF (National Sanitation Foundation) percentages contact Specification Manager - Ames*

## **ID Credit 1-1.4 :**

### *Innovation in Design*

## **1 to 4 Points**

#### **Intent:**

To provide design teams and projects, the opportunity to be awarded points for exceptional performance above the requirements set by the LEED-NC Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED-NC Green Building Rating System.

#### **Potential Product Application:**

Ames goal of providing for safe and sustainable “Green” buildings will help all Engineers and Architects with strategies, submittals, and drawings to help meet the Innovation in Design points.

- Ames Pre-engineered Valve Stations are custom configured water flow control systems that are assembled from proven, reliable Ames’ components to meet exacting project application requirements. Ames pre-engineered valve stations are factory pre-assembled tests and optionally certified by independent agencies to ensure flow performance for critical building demands.

#### **Ames Products:**

- Pre-engineered Valve Stations – PVS-1000

**Any questions can be directed to the following:**

**Taylor Grist**

**Specification Manager**

**Ames Fire & Waterworks**

**Fgrist1@carolina.rr.com**

*\* Information obtained from (LEED-NC Version 2.2 Reference Guide October 2005)*

*\*\* Watts Water Technologies, Inc. USGBC Membership is pending*