



**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 FEBCO (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:

FEBCO 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%.

FEBCO Products:

- Reduced Pressure Zone Backflows – 825Y, 825YA, 825YD, 860, 860U, 867, 880V
- Reduced Pressure Detector Assemblies – 826YD
- Double Check Assemblies – 805YD, 850, 850U, 857, 870V
- Double Check Detector Assemblies – 806YD, 856, 858, 876V
- Dual Check Valves – 510
- Vacuum Breakers – 710, 715, 765, 767FR

** For additional product information refer to FEBCO catalog number (PL-FEBCO 0701) or FEBCO online www.FEBCOonline.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:

FEBCO 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.

FEBCO Products:

- Reduced Pressure Zone Backflows – 825Y, 825YA, 825YD, 860, 860U, 867, 880V
- Double Check Assemblies – 805YD, 850, 850U, 857, 870V
- Vacuum Breakers – 710, 715, 765, 767FR
- Dual Check Valves – 510
- Water Pressure Regulators – PRV-1, PRV-2

*** For additional products and information refer to FEBCO catalog number (PL-FEBCO 0701) or FEBCO online www.FEBCOonline.com*

Materials and 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:

FEBCO 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.

FEBCO Products:

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

** For additional information refer to FEBCO catalog number (PL-FEBCO 0701), or FEBCO online www.FEBCOonline.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:

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

FEBCO 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.

FEBCO Products:

- All of FEBCO products

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:

FEBCO 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.

FEBCO Products:

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

** For additional information refer to FEBCO catalog number (PL-FEBCO 0701), or FEBCO online www.FEBCOonline.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:

FEBCO 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.

FEBCO Products:

- All products that are made of Bronze and Brass

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

- Reduced Pressure Zone Backflows – 825Y, 860, 860U
- Double Check Assemblies – 850

* *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 - FEBCO*

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:

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

FEBCO Manufacturing facilities:

- Franklin, NH
- Spindale, NC
- Sacramento, CA
- Springfield, MO

Indoor Environmental Quality – 1 Possible Points

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:

FEBCO products utilize a durable blue, grey, or 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.

FEBCO Products:

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Double Check Detector Assemblies – 806YD, 856, 858, 876V

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

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:

FEBCO 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.

Any questions can be directed to the following:

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

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