

# NORTON LEED® 2009 Certification Contribution

ASSA ABLOY, the global leader  
in door opening solutions



LEED IEQc5, Indoor Chemical & Pollutant Source Control, specifically calls out door closers like the Norton 7500 Series to help minimize building occupant exposure to potentially hazardous particulates and chemical pollutants. Door closers are required for each space where hazardous gases or chemicals may be present or used (e.g. garages, housekeeping and laundry areas, copying and printing rooms).

*“The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in seven key areas of human and environmental health: sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovation in design and regional priority credits.”*

Founded in 1880 by Lewis C. Norton, Norton Door Check Company began manufacturing and marketing the first practical commercial door closers. Since 1957, Norton Door Controls have been manufactured in Monroe, North Carolina. NORTON offers traditional surface, industrial economy, overhead concealed, security, commercial, architectural, electromechanical and electrified closers.

NORTON can help to achieve prerequisites and accumulate points in the following categories and credit areas of LEED. For further information, please call 877-974-2255 or refer to our website [www.nortondoорcontrols.com](http://www.nortondoорcontrols.com) or [www.assaabloydss.com/sustainability](http://www.assaabloydss.com/sustainability)



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## Energy & Atmosphere (EA)

**EA Prerequisite 2**  
Minimum Energy Performance  
NC CS S

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.  
**Norton door closers insure exterior door openings are latched and closed, reducing air infiltration and saving 10% or more in improved energy efficiency.**

**EA Credit 1**  
Optimize Energy Performance  
NC CS S

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.  
**Norton door closers insure exterior door openings are latched and closed, reducing air infiltration and saving 10% or more in improved energy efficiency.**

# Materials & Resources (MR)

## MR Credit 4

Recycled Content  
NC CS S CI

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials. Use materials with recycled content such that the sum of post consumer recycled content plus 1/2 of the pre-consumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value. **Almost all NORTON solutions contain recycled content, allowing most of our products to contribute toward this credit.**

NORTON Product	Post-consumer Recycled Content *	Pre-consumer Recycled Content **	Total LEED Recycled Content Percentage
9500 Cast Iron Closer	91.1%	0%	91.1%
7500/7700 Aluminum Closer	78.3%	0%	78.3%
8000 Aluminum Closer	80.1%	0%	80.1%
1600 Aluminum Closer	88.8%	0%	88.8%
9300BC Aluminum Closer	52%	0%	52%
1700BC Aluminum Closer	52%	0%	52%
78B/F Potbelly Closer	52%	0%	52%
7900 Overhead Closer	52%	0%	52%
2800ST Cam Closer	59%	0%	59%
7100SZ SafeZone	88.6%	0%	88.6%
7200 Electromechanical	77%	0%	77%
6000 Operator	72%	0%	72%
5700 Operator	71.9%	0%	71.9%
5600 Operator	82.8%	0%	82.8%

\*Recycled content defined in accordance with industry standards.

\*\*Pre-consumer recycled content refers to waste material that is immediately placed back into the production cycle. Waste materials generated by the production of these products are collected and shipped off site where it then reenters the recycle stream.

## MR Credit 5

Regional Material  
NC CS S (CI allows one point if 20% material by cost is manufactured within 500 miles, second point if 10% is manufactured AND extracted, harvested or recovered)

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. Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value.

**All NORTON products are manufactured/assembled in Monroe, NC with the exception of the following:**

NORTON Product	Manufacturing/Final Assembly Location
2800ST	Finland
160	Korea
210	Korea
5900 Operator	China



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# Indoor Environmental Quality (IEQ)

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## IEQ Credit 4.1 & 4.2

Low-Emitting Materials –  
Adhesives & Sealants,  
Paints & Coatings  
NC CSS CI

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants. **This credit only applies to materials applied within the weatherproofing system, NORTON products should have no impact on LEED projects achieving this credit.**

## IEQ Credit 5

Indoor Chemical & Pollutant  
Source Control  
NC CSS CI

Minimize building occupant exposure to potentially hazardous particulates and chemical pollutants. Sufficiently exhaust each space where hazardous gases or chemicals may be present or used (e.g., garages, housekeeping and laundry areas, copying and printing rooms) to create negative pressure with respect to adjacent spaces when the doors to the room are closed. For each of these spaces, provide self-closing doors and deck-to-deck partitions or a hard-lid ceiling. **NORTON door closers should be specified on all openings where hazardous particulates and chemical pollutants may be present.**

# LEED for Schools Specific Credits

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## IEQ Credit 9

Enhanced Acoustical  
Performance  
S (NC can earn Innovation  
credits for Enhanced Acoustical  
Performance)

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design. Design the building shell, classroom partitions and other core learning space partitions to meet the Sound Transmission Class (STC) requirements of ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools, except windows, which must meet an STC rating of at least 35. **Norton door closers insure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Enhanced Acoustical Performance.**

# LEED EBOM Specific Credits

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## MR Credit 3

Sustainable Purchasing -  
Facility Alterations & Additions  
EBOM

Reduce the environmental and air quality impacts of the materials acquired for use in the upgrade of buildings. Maintain a sustainable purchasing program covering materials for facility renovations, demolitions, refits and new construction additions. **NORTON can help sustainable purchasing programs meet many of the requirements to obtain this credit.**

## MR Credit 9

Solid Waste Management -  
Facility Alterations & Additions  
EBOM

To divert construction and demolition debris from disposal to landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites. **Many of NORTON products can be recycled (in the case of our metal products, potentially infinitely) and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.**

NC: New Construction CS: Core and Shell S: Schools CI: Commercial Interiors EBOM: Existing Building Operations & Maintenance

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

## Norton Door Controls

For more information call 877-974-2255 or visit us online at [www.nortondoorcontrols.com](http://www.nortondoorcontrols.com) or [www.assaabloydss.com/sustainability](http://www.assaabloydss.com/sustainability)

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