



ASSA ABLOY

LEED® 2009 Certification Contribution



Iowa is the second largest producer of wind energy in the United States.

“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.”

CURRIES doors and frames are made in Mason City, IA from steel, one of the most recycled materials in North America. Each door is then put through rigorous life cycle testing that allows our door solutions to qualify for tornado and hurricane certification standards for strength and durability. The sustainable thinking that goes into each door allows it a long service life with cradle-to-cradle considerations taken into account.

CURRIES can help to achieve prerequisites and accumulate points in the following categories and credit areas of LEED.



CURRIES uses environmentally sound practices in the manufacturing and shipping of hollow metal doors and frames. Let us help as you design “Sustainable” buildings that are safe, secure and aesthetically-pleasing.

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Energy and Atmosphere (EA)

EA Prerequisite 2
Minimum Energy Performance

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use. **CURRIES offers superior thermal efficient openings that can help save 10% or more in improved energy efficiency. CURRIES doors and frames are tested in operable conditions using ASTM E1363 & E283.**

NC CS S R HC

EA Credit 1
Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use. **CURRIES offers superior thermal efficient openings that can help save 10% or more in improved energy efficiency. CURRIES doors and frames are tested in operable conditions using ASTM E1363 & E283.**

NC CS S R HC

NC New Construction

CS Core and Shell

S Schools

CI Commercial Interiors

EBOM Existing Building Operations and Maintenance

R Retail

HC Healthcare

ASSA ABLOY, the global leader in door opening solutions

Materials and Resources (MR)

MR Credit 1.2

Building Reuse - Maintain Existing Interior Non-Structural Elements

Extend the lifecycle 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. **Longevity and durability of CURRIES doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit.**

NC S CI R HC

MR Credit 4

Recycled Content

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 postconsumer recycled content plus 1/2 of the preconsumer 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.

Post-consumer material is 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.

Post-industrial (Pre-Consumer) recycled content refers to scraps that are left over during industrial or manufacturing processes and which are subsequently recycled and reused.

CURRIES Product	Post-Consumer Recycled Content	Pre-Consumer Recycled Content	Total LEED Recycled Content Percentage
Frames - Steel	35.4*	7.4*	39.1
747, 757, 847, 857 Doors	34.4*	7.4*	39.1
607, 707, 727, 737 Doors	34.3*	7.2*	37.9
777 Doors	63.9*	10*	68.9
FRP Frames - Aluminum	0	35	17.5
FRP Doors	0	8.6	4.3

* Recycled content based on CURRIES average steel usage

NC CS S CI R HC

MR Credit 5

Regional Material

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.

Program	Checklist	Credit	Requirement
LEED CI	Materials and Resources	Regional Materials MR 5	Use a minimum of 20% of the combined value of construction and Division 12 (furniture) materials and products that are manufactured* regionally within a radius of 500 miles.
LEED NC LEED CS LEED S	Materials and Resources	Regional Materials MR 5 10% or 20%	Use building materials or products extracted,** harvested,** recovered,** processed,** and manufactured* within 500 miles of the project site.

* Manufactured refers to the final assembly of components in Mason City, IA

** Steel is extracted and processed at numerous locations that exceed 500 miles from Mason City and are difficult to track.

NC CS S CI R HC

Materials and Resources (MR)

MR Credit 53 (Pilot Credit)

Responsible Sourcing of Raw Materials

To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner. Option 2. leadership extraction practices (1 point). Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project. Extended producer responsibility. Products purchased from a manufacturer (producer) that participates in an extended producer responsibility program or is directly responsible for extended producer responsibility. Products meeting extended producer responsibility criteria are valued at 50% of their cost for the purposes of credit achievement calculation. CURRIES participates in an extended producer responsibility recycling program through the Steel Recycling Institute. Learn more at: www.assaabloydss.com/sustainability.

NC CS S CI EBOM R HC

MR Credit 61 (Pilot Credit)

Material Disclosure and Assessment Environmental Product Declaration (EPDs)

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified environmental life-cycle. **Products from CURRIES have Product-specific Type III EPDs certified in accordance with ISO 14025 and EN 15804.**

NC CS S CI EBOM R HC

MR Credit 76 (Pilot Credit)

Material Ingredients Reporting

Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm). Health Product Declaration. The end use product has a published, complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard. **Products from CURRIES have published, complete HPDs with full disclosure of known hazards.**

NC CS S CI EBOM R HC

MR Credit 77 (Pilot Credit)

Material Ingredient Optimization

To reward project teams for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts. **CURRIES steel doors and frames are third party certified and document fully inventoried ingredients via Health Product Declaration (free of Benchmark 1 Greenscreen chemicals).** Use products that document their material ingredient optimization using the paths below for at least 25%, by cost, of the total value of permanently installed products in the project. GreenScreen v1.2 Benchmark. Products that have fully inventoried chemical ingredients to 100 ppm that have no Benchmark 1 hazards: If any ingredients are assessed with the GreenScreen List Translator, value these products at 100% of cost. If all ingredients are have undergone a full GreenScreen Assessment, value these products at 150% of cost. Products from CURRIES have published, complete HPDs that have undergone a full GreenScreen Assessment.

NC CS S CI EBOM R HC

Indoor Environmental Quality (IEQ)

IEQ Credit 3.2

Construction Indoor Air Quality Management Plan Before Occupancy



To reduce indoor air quality (IAQ) problems resulting from construction or renovation to promote the comfort and well-being of construction workers and building occupants. **Project teams specify interior doors meeting GREENGUARD Gold testing will assist with IEQ 3.2 compliance.**

NC CS S CI R HC

IEQ Credit 4.1 & 4.2

Low-Emitting Materials Adhesives and Sealants, Paints and Coatings

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 however, CURRIES offers solutions including pre-finished door openings and pre-installed glazing. This allows LEED projects to avoid applying materials onsite.**

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Indoor Environmental Quality (IEQ)

IEQ Credit 4.6

Low-Emitting Materials
Ceiling & Wall Systems



Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants. **All gypsum board, insulation, acoustical ceiling systems and wall coverings (including doors) installed in the building interior must meet the testing CA 01350. Requires GREENGUARD indoor Air Quality certification. Requires GREENGUARD Indoor Air Quality certification or equivalent. Products from CURRIES are certified to GREENGUARD Gold.**

S R HC

IEQ Credit 8.1 & 8.2

Daylight & Views

To provide building occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the building. **Adding glazing and sidelights to CURRIES openings will assist projects in achieving this LEED credit.**

NC CS S CI R HC

LEED for Schools Specific Credits

IEQ Credit 9

Enhanced Acoustical
Performance

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



Sound

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. **CURRIES offers a wide range of STC door solutions that meet ANSI Standard S12.20-2002 and can help LEED projects gain LEED credit for Enhanced Acoustical Performance.**

S

LEED EBOM Specific Credits

MR Credit 3

Sustainable Purchasing-Facility
Alterations and Additions

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. **CURRIES products can help Sustainable purchasing programs meet many of the requirements to obtain this credit.**

EBOM

MR Credit 9

Solid Waste Management-Facility
Alterations and Additions

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 CURRIES 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.**

EBOM

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

For further information, please contact your CURRIES Sales Representative at :1-641-423-1334 or refer to our website: www.curries.com

For more information about ASSA ABLOY products and practices that are helping the environment visit: www.assaabloydss.com/sustainability