U.S. Green Building Council’s Leadership in Energy and Environmental Design, or LEED, is used throughout the world to build healthy and energy-efficient commercial and residential projects. LEED certification is a symbol of sustainability achievement.

Recently, a new version of the system, LEED v4, extends requirements for certification. With these changes, project teams may have questions about credit contributions, especially as they pertain to door openings. This document highlights ASSA ABLOY Solutions and how they contribute to a variety of LEED credits.

Visit the Sustainability Resource Center online to access additional information and documentation, including ASSA ABLOY Group brand-specific LEED sheets, EPDs, HPDs, Declare labels, GREENGUARD Gold certifications, GreenCircle certifications, and sustainability reports.

www.assaabloydss.com

Doors and hardware can contribute to the following categories in LEED:

**Energy and Atmosphere (EA)**
- Energy Performance and Optimization (BD+C, ID+C, O+M)
- Minimum Energy Performance (BD+C, ID+C, O+M)

**Materials and Resources (MR)**
- Building Product Disclosure and Optimization (BD+C, ID+C)
- Construction Waste Management (BD+C, ID+C)
- Purchasing – Facility Maintenance and Renovation (O+M)
- Solid Waste Management – Facility Maintenance and Renovation (O+M)

**Indoor Environmental Quality (EQ)**
- Environmental Tobacco Smoke Control (BD+C, ID+C, O+M)
- Indoor Air Quality Strategies (BD+C, ID+C)
- Low-Emitting Materials (BD+C, ID+C)
- Acoustic Performance (BD+C, ID+C)
- Daylight and Quality Views (BD+C, ID+C, O+M)
- Integrated Pest Management (O+M)
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

**BD+C ID+C O&M**

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The minimum energy performance standards set by LEED can be achieved through quality closing and sealing of building openings. ASSA ABLOY doors, hardware, accessories and door closers ensure building openings are latched and sealed closed, reducing thermal and air infiltration.

Optimize Energy Performance

**BD+C ID+C O&M**

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

High performance electrified mortise locks and access control systems go beyond the prerequisite of minimizing energy performance by optimizing the energy performance during the building use through reduced power consumption. We offer high performance electrified mortise locks, Power over Ethernet (PoE) access control systems and EcoPower Power Supply systems. These systems are certified by GreenCircle Certified, LLC for energy savings compared to the traditional systems. Additionally, our Trio-E door has the lowest U value of any steel stiffened door currently on the market. Trio-E goes beyond the prerequisite of minimizing energy from reducing thermal and air leakage, and also can aid projects in optimizing the energy performance through superior thermal properties.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

**BD+C ID+C**

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

ASSA ABLOY group brands have conducted life cycle assessments and developed Product-Specific Type III Environmental Product Declarations to measure the environmental impact throughout the life cycle of many of our products.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)

**BD+C ID+C**

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

ASSA ABLOY strives to reduce the environmental impacts of our products through responsible sourcing of our raw materials and through extending our producer responsibility down the supply chain.

We integrate recycled content into our products to improve resource efficiency. Bio-based content is also used in a core and in veneers used in our door products. By implementing product take-back programs for many of our business units, we strive to recover materials for second generation products.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1)

**BD+C ID+C**

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration (HPD) disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

ASSA ABLOY seeks to understand and transparently report the materials we use in our products, ensuring that our products are safe for the consumer. We have published HPDs for products to support this credit.
Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Optimization (Option 2)

Use products that document their material ingredient optimization. Acceptable material disclosure methods include GreenScreen v1.2 Benchmarks, Cradle to Cradle certification (v2 Gold, v2 Platinum, v3 Silver, v3 Gold or Platinum), or REACH Optimization (for projects seeking the International Alternative Compliance Path).

ASSA ABLOY seeks to limit any potentially hazardous materials we use in our products, ensuring that our products are safe for the consumer. We have published HPDs to support this credit.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many ASSA ABLOY products can be recycled and reused. ASSA ABLOY has a recycling program in place with many of our businesses seeking to extend responsibility for proper recycling and disposal of our products at their end of life. We strive to make durable sustainable products that can assist projects in attaining this credit.

Purchasing & Solid Waste Management – Facility Maintenance and Renovation

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

ASSA ABLOY strives to reduce the environmental impacts of our products through responsible sourcing of our raw materials and through extending our producer responsibility down the supply chain. We integrate recycled content into our products to improve resource efficiency. Seeking to limit any potentially hazardous materials we use in our products, we have published HPDs. Many of our doors and weatherproofing products have obtained GREENGUARD Gold certification, verifying low emitting criterion.

By implementing product take-back programs for many of our business units, we strive to recover materials for second generation products.

Indoor Environmental Quality (EQ)

Environmental Tobacco Smoke Control (Prerequisite)

Prevent or minimize exposure of building occupants, indoor surfaces, and ventilation air distribution systems to environmental tobacco smoke.

ASSA ABLOY weather-stripping products and sealants help prevent excessive leakage between units in a building, if compartmentalization of smoking areas is being pursued for a building project.

Minimum Acoustic Performance (Prerequisite)

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.

ASSA ABLOY offers a wide selection of operable STC doors. Our door systems uses superior sound absorbing technology and have been acoustically tested. Our product lines include a variety of hardware options as well. Choosing ASSA ABLOY hardware and door closers ensure that STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit.

Enhanced Indoor Air Quality Strategies

To promote occupant’s comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems).

ASSA ABLOY door closers and operators ensure entryways allow self-closing doors to help prevent interior cross-contamination.
Low-Emitting Materials†
BD+C ID+C

Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity and the environment.
ASSA ABLOY hardware products are considered Inherently Non-Emitting Materials and do not qualify for this credit. However, our doors and weatherproofing products may help contribute toward achieving this credit. Many of our doors and weatherproofing products have obtained GREENGUARD Gold certification, verifying low emitting criterion.

Daylight
BD+C ID+C

To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.
ASSA ABLOY profile lite kits installed on doors allow for glare controls while providing daylight. Adding glazing and sidelights to ASSA ABLOY openings will assist projects in achieving this LEED credit.

Quality Views
BD+C ID+C

To give building occupants a connection to the natural outdoor environment by providing quality views.
ASSA ABLOY profile lite kits installed on doors allow for glare controls while providing daylight. Adding glazing and sidelights to ASSA ABLOY openings will assist projects in achieving this LEED credit.

Daylight and Quality Views
O+M

Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space.
Profile lite kits installed on doors allow for glare controls while providing daylight. Adding glazing and sidelights to ASSA ABLOY openings will assist projects in achieving this LEED credit.

Acoustic Performance
BD+C ID+C: Excluding Retail

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.
ASSA ABLOY hardware and door closers ensure our STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit. We offer a variety of acoustical solutions for varying environments.

Integrated Pest Management
O+M

Develop and implement an integrated pest management (IPM) plan for the building and grounds.
As a best practice for pest control methods, installing ASSA ABLOY sealants and monitoring existing seals around building openings will help prevent pests from entering the building.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Materials and Resources (MR)

Construction Waste Management
BD+C

*Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.*
Many of ASSA ABLOY's Markar Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Solid Waste Management – Facility Maintenance and Renovation
O+M

*Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.*
Many of ASSA ABLOY's Markar Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.*
Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations
BD+C  ID+C

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

McKinney has developed a Type III EPD, compliant with ISO standards and EN 15804, for the domestic mechanical hinge product family.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)
BD+C  ID+C

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

We strive to make durable sustainable products that can assist projects in attaining this credit. Many of ASSA ABLOY’s McKinney Products are durable and can easily be reused in building projects.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1)
BD+C  ID+C

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000 ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

We seek to understand and transparently report the materials used in ASSA ABLOY’s McKinney Products, ensuring that our products are safe for the consumer.

Construction Waste Management
BD+C  ID+C

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many of ASSA ABLOY’s McKinney Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Purchasing & Solid Waste Management – Facility Maintenance and Renovation
O+M

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

We strive to make durable sustainable products that can assist projects in attaining this credit. Many of ASSA ABLOY’s McKinney Products are durable and can easily be reused in building projects.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

PEMKO weather stripping, gasketing and hardware solutions can offer customers exterior door openings that aid in energy efficiency from reducing air infiltration and thermal loss.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

PEMKO has developed a Type III EPD compliant with ISO standards and EN 15804.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)*

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

Many of ASSA ABLOY's Pemko Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit. We have a recycling program in place which PEMKO seeks to extend responsibility for proper recycling and disposal of ASSA ABLOY'S Pemko Products at their end of life.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

We seek to understand and transparently report the materials used in our ASSA ABLOY's Pemko Products, ensuring that our products are safe for the consumer.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many of ASSA ABLOY'S Pemko Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit. We have a recycling program in place which seeks to extend responsibility for proper recycling and disposal of ASSA ABLOY'S Pemko Products at their end of life.
Purchasing & Solid Waste Management – Facility Maintenance and Renovation

**O+M**

*Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.*

PEMKO has achieved GREENGUARD Gold certification, verifying the Low Emitting criteria for this credit, for a variety of gasketing products. Many of ASSA ABLOY’s Pemko Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit. We have a recycling program in place which Pemko seeks to extend responsibility for proper recycling and disposal of ASSA ABLOY’s Pemko Products at their end of life.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.*

#### Indoor Environmental Quality (EQ)

<table>
<thead>
<tr>
<th>Environmental Tobacco Smoke Control (Prerequisite)</th>
<th>BD+C</th>
<th>ID+C</th>
<th>O+M</th>
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</table>

*Prevent or minimize exposure of building occupants, indoor surfaces, and ventilation air distribution systems to environmental tobacco smoke.*

ASSA ABLOY’S Pemko weather stripping products can assist LEED projects in achieving this credit.

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<tr>
<th>Minimum Acoustic Performance (Prerequisite)</th>
<th>BD+C – Schools Only</th>
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</table>

*To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.*

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

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<tr>
<th>Enhanced Indoor Air Quality Strategies</th>
<th>BD+C</th>
<th>ID+C</th>
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</thead>
</table>

*To promote occupant’s comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems).*

ASSA ABLOY’S Pemko gasketing and weather stripping products should be specified on all openings where hazardous particulates and chemical pollutants may be present to provide protection to building occupants. We recommend ASSA ABLOY’S Pemko weather stripping and gasketing products which will prevent interior cross-contamination.

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<tr>
<th>Low-Emitting Materials†</th>
<th>BD+C</th>
<th>ID+C</th>
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</table>

*Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity and the environment.*

ASSA ABLOY’S Pemko Products have achieved GREENGUARD Gold certification, verifying the Low Emitting criteria for this credit.
Daylight
**BD+C**  **ID+C**

To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.

Adding ASSA ABLOY’s Pemko lite kits and architectural glazing to door openings will assist projects in achieving this LEED credit.

**NOTE:** reference architectural glazing as being provided by another source.

Quality Views
**BD+C**  **ID+C**

To give building occupants a connection to the natural outdoor environment by providing quality views.

Adding ASSA ABLOY’s Pemko lite kits and architectural glazing to door openings will assist projects in achieving this LEED credit.

Daylight and Quality Views
**O+M**

Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space.

Adding ASSA ABLOY’s Pemko lite kits and architectural glazing to door openings will assist projects in achieving this LEED credit.

Acoustic Performance
**BD+C**  **ID+C**: Excluding Retail

*Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.*

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

Integrated Pest Management
**O+M**

*Develop and implement an integrated pest management (IPM) plan for the building and grounds.*

As a best practice for pest control methods, installing ASSA ABLOY’s Pemko sealants and monitoring existing seals around building openings will help prevent pests from entering the building.

† **Note on IEQ:** Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
# Materials and Resources (MR)

## Building Product Disclosure and Optimization – Environmental Product Declarations*

<table>
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<tr>
<th>BD+C</th>
<th>ID+C</th>
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</table>

*Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

ASSA ABLOY has developed Type III EPD compliant with ISO standards and EN 15804 for Rockwood products.

## Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

<table>
<thead>
<tr>
<th>BD+C</th>
<th>ID+C</th>
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</table>

*Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

We seek to understand and transparently report the materials used in our ASSA ABLOY’s Rockwood Products, ensuring that our products are safe for the consumer.

## Construction Waste Management

<table>
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<tr>
<th>BD+C</th>
<th>ID+C</th>
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</table>

*Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.*

Many of ASSA ABLOY’s Rockwood Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

## Solid Waste Management – Facility Maintenance and Renovation

<table>
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<th>O+M</th>
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*Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.*

Many of ASSA ABLOY’s Rockwood Products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

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*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.*
Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Construction Waste Management

Solid Waste Management – Facility Maintenance and Renovation

O+M
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

SECURITRON hardware and door closers ensure exterior door openings are latched and closed, reducing air infiltration and saving 10% or more in improved energy efficiency.

Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

High performance access control systems go beyond the prerequisite of minimizing energy from reducing thermal and air leakage, but they also optimize the energy performance during the building use through reduced power consumption.

SECURITRON EcoPower™ Power Supply Systems save energy compared to traditional systems, as certified by GreenCircle Certified, LLC, which can help contribute to overall energy efficiency of the building.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

SECURITRON has developed Type III EPDs, compliant with ISO standards and EN 15804.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

SECURITRON seeks to understand and transparently report the materials used in our products, ensuring that our products are safe for the consumer.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many SECURITRON products can be recycled and reused, allowing building projects to reduce the amount of waste going to landfill.

Solid Waste Management – Facility Maintenance and Renovation

Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.

Many of SECURITRON products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)
BD+C – Schools Only

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design. SECURITRON hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

Acoustic Performance
BD+C  ID+C: Excluding Retail

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design. SECURITRON hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*
Inform Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

ADAMS RITE has developed Type III EPD compliant with ISO standards and EN 15804.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *
Inform Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

ADAMS RITE seeks to understand and transparently report the materials used in our products, ensuring that our products are safe for the consumer.

Construction Waste Management
Inform Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many of ADAMS RITE products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Solid Waste Management – Facility Maintenance and Renovation
Inform Solid Waste Management – Facility Maintenance and Renovation

Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.

Many of ADAMS RITE products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.

Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)
Inform Minimum Acoustic Performance (Prerequisite)

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.

ADAMS RITE hardware ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

Acoustic Performance
Inform Acoustic Performance

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.

ADAMS RITE hardware ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The minimum energy performance standards set by LEED can be achieved through quality closing and sealing of building openings. ASSA ABLOY doors, hardware and door closers ensure building openings are latched and sealed closed, reducing thermal and air infiltration. BARON products offer superior thermal efficient openings that can help meet the minimum requirement of energy performance. BARON steel doors and frames are tested in operable conditions using ASTM E1 363 & E283.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)*

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

Longevity and durability of BARON steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit. BARON has a recycling program in place which BARON seeks to extend responsibility for proper recycling and disposal of the BARON products at their end of life.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

We strive to make durable sustainable products that can assist projects in attaining this credit. The longevity and durability of BARON steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit. Additionally, BARON has a recycling program in place which BARON seeks to extend responsibility for proper recycling and disposal of the BARON products at their end of life.

Purchasing – Facility Maintenance and Renovation

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

Longevity and durability of BARON steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit. Additionally, BARON has a recycling program in place which BARON seeks to extend responsibility for proper recycling and disposal of the BARON products at their end of life.

Solid Waste Management – Facility Maintenance and Renovation

Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.

We strive to make durable sustainable products that can assist projects in attaining this credit. The longevity and durability of BARON steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit. Additionally, BARON has a recycling program in place which BARON seeks to extend responsibility for proper recycling and disposal of the BARON products at their end of life.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)

BD+C – Schools Only

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design. BARON offers a wide range of STC door solutions that meet ANSI Standard S1 2.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.

Low-Emitting Materials†

BD+C      ID+C

Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity and the environment. Metal door and frame products are considered Inherently Non-Emitting Materials and may be considered fully compliant without any VOC testing, as our products do not include organic-based surface coatings.

Daylight

BD+C      ID+C

To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space. Adding glazing and sidelights to BARON steel doors and frames will assist projects in achieving this LEED credit.

Quality Views

BD+C      ID+C

To give building occupants a connection to the natural outdoor environment by providing quality views. Adding glazing and sidelights to BARON steel doors and frames will assist projects in achieving this LEED credit.

Daylight and Quality Views

O+M

Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space. Adding glazing and sidelights to BARON steel doors and frames will assist projects in achieving this LEED credit.

Acoustic Performance

BD+C      ID+C: Excluding Retail

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design. BARON offers a wide range of STC door solutions that meet ANSI Standard S1 2.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

BD+C  ID+C  O+M

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The minimum energy performance standards set by LEED can help be achieved through quality closing hardware of building openings. Through the installation of CORBIN RUSSWIN products on the exterior building envelope, CORBIN RUSSWIN hardware and door closers ensure exterior door openings are latched and sealed closed, reducing thermal and air infiltration.

Optimize Energy Performance

BD+C  ID+C  O+M

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

High performance access control systems go beyond the prerequisite of minimizing energy performance by optimizing the energy performance during the building use through reduced power consumption.

CORBIN RUSSWIN EcoFlex® Fail Safe and Fail Secure products and PoE Technology save energy compared to other electrified mortise lock systems, as certified by GreenCircle Certified, LLC, which can help contribute to overall energy efficiency of the building.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

BD+C  ID+C

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

CORBIN RUSSWIN has developed Type III EPDs, compliant with ISO standards and EN 15804.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)*

BD+C  ID+C

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

Many CORBIN RUSSWIN products can be recycled and reused. CORBIN RUSSWIN has a recycling program in place which CORBIN RUSSWIN seeks to extend responsibility for proper recycling and disposal of the CORBIN RUSSWIN products at their end of life. We strive to make durable sustainable products that can assist projects in attaining this credit.

Construction Waste Management

BD+C  ID+C

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many CORBIN RUSSWIN products can be recycled and reused. CORBIN RUSSWIN has a recycling program in place which CORBIN RUSSWIN seeks to extend responsibility for proper recycling and disposal of the CORBIN RUSSWIN products at their end of life.
Purchasing & Solid Waste Management – Facility Maintenance and Renovation

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

Many CORBIN RUSSWIN products can be recycled and reused. CORBIN RUSSWIN has a recycling program in place which CORBIN RUSSWIN seeks to extend responsibility for proper recycling and disposal of the CORBIN RUSSWIN products at their end of life. We strive to make durable sustainable products that can assist projects in attaining this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.

Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)

BD+C – Schools Only

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design. CORBIN RUSSWIN hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit.

Enhanced Indoor Air Quality Strategies

BD+C    ID+C

To promote occupant’s comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems). CORBIN RUSSWIN door closers should be specified on all openings where hazardous particulates and chemical pollutants may be present to allow for self-closing doors which will prevent interior cross-contamination.

Acoustic Performance

BD+C    D+D: Excluding Retail

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design. CORBIN RUSSWIN hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

CECO DOOR products offer superior thermal efficient openings that can help meet the minimum requirement of energy performance. CECO DOOR steel doors and frames are tested in operable conditions using ASTM E1 363 & E283.

Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

The Trio-E door has the lowest U value of any steel stiffened door currently on the market. Trio-E goes beyond the prerequisite of minimizing energy from reducing thermal and air leakage, but also can aid projects in optimizing the energy performance through superior thermal properties.

Materials and Resources (MR)

Building Product Disclosure and Optimization - Environmental Product Declarations*

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

CECO DOOR has product-specific type III EPDs certified in accordance with ISO 14025 and EN 15804.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)*

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

CECO DOOR strives to make durable sustainable products that can assist projects in attaining this credit. The longevity and durability of CECO DOOR steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit. Additionally, CECO DOOR has a recycling program in place which CECO DOOR seeks to extend responsibility for proper recycling and disposal of the CECO DOOR products at their end of life.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

CECO DOOR seeks to understand and transparently report the materials used in our products, ensuring that our products are safe for the consumer.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many of CECO DOOR's products can be recycled and reused. CECO DOOR has a recycling program in place which CECO DOOR seeks to extend responsibility for proper recycling and disposal of the CECO DOOR products at their end of life. We strive to make durable sustainable products that can assist projects in attaining this credit.
Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

CECO DOOR strives to reduce the environmental impacts of our products through responsible sourcing of our raw materials and through extending our producer responsibility down the supply chain. The longevity and durability of CECO DOOR steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit. CECO DOOR has a recycling program in place which CECO DOOR seeks to extend responsibility for proper recycling and disposal of the CECO DOOR products at their end of life. We strive to make durable sustainable products that can assist projects in attaining this credit.

CECO DOOR has achieved GREENGUARD Gold certification, verifying the low emitting criteria set for in this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.

### Indoor Environmental Quality (EQ)

#### Minimum Acoustic Performance (Prerequisite)
**BD+C – Schools Only**

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.

CECO DOOR offers a wide range of STC door solutions that meet ANSI Standard S1 2.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.

#### Low-Emitting Materials†
**BD+C**  **ID+C**

Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity and the environment.

CECO DOOR has achieved GREENGUARD Gold certification, verifying the Low Emitting criteria for this credit.

#### Daylight
**BD+C**  **ID+C**

To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space. Adding glazing and sidelights to CECO DOOR doors and frames will assist projects in achieving this LEED credit.

#### Quality Views
**BD+C**  **ID+C**

To give building occupants a connection to the natural outdoor environment by providing quality views. Adding glazing and sidelights to CECO DOOR doors and frames will assist projects in achieving this LEED credit.

#### Daylight and Quality Views
**O+M**

Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space. Adding glazing and sidelights to BARON steel doors and frames will assist projects in achieving this LEED credit.

#### Acoustic Performance
**BD+C**  **ID+C: Excluding Retail**

Provide workspaces and classrooms which promote occupants' well-being, productivity, and communications through effective acoustic design.

CECO DOOR offers a wide range of STC door solutions that meet ANSI Standard S1 2.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The minimum energy performance standards set by LEED can help be achieved through quality closing of building openings. CURRIES offers superior thermal efficient openings and frames which can prevent air infiltration. CURRIES doors and frames are tested in operable conditions using ASTM E1363 and E283.

Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

Our new Trio-E door has the lowest U value of any steel stiffened door currently on the market. Trio-E goes beyond the prerequisite of minimizing energy from reducing thermal and air leakage, but also can aid projects in optimizing the energy performance through superior thermal properties.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

CURRIES has product-specific type III EPDs certified in accordance with ISO 14025 and EN 15804. C

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

CURRIES seeks to understand and transparently report the materials used in our products, ensuring that our products are safe for the consumer.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many of CURRIES products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Purchasing & Solid Waste Management – Facility Maintenance and Renovation

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

CURRIES has achieved GREENGUARD Gold certification, verifying the Low Emitting criteria for this credit, for a variety of CECO DOOR products.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
### Indoor Environmental Quality (EQ)

#### Minimum Acoustic Performance (Prerequisite)

**BD+C – Schools Only**

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design. CURRIES offers a wide range of STC door solutions that meet ANSI Standard S1 2.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.

#### Low-Emitting Materials†

**BD+C ID+C**

Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity and the environment. CURRIES has achieved GREENGUARD Gold certification, verifying the Low Emitting criteria for this credit.

#### Daylight

**BD+C ID+C**

To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space. Adding glazing and sidelights to CURRIES openings will assist projects in achieving this LEED credit.

#### Quality Views

**BD+C ID+C**

To give building occupants a connection to the natural outdoor environment by providing quality views. Adding glazing and sidelights to CURRIES openings will assist projects in achieving this LEED credit.

#### Daylight and Quality Views

**O+M**

Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space. Adding glazing and sidelights to CURRIES openings will assist projects in achieving this LEED credit.

#### Acoustic Performance

**BD+C ID+C: Excluding Retail**

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustical design. CURRIES offers a wide range of STC door solutions that meet ANSI Standard S1 2.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.

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† Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The minimum energy performance standards set by LEED can help be achieved through quality closing of building openings. FLEMING offers superior thermal efficient openings and frames which can prevent air infiltration. FLEMING doors and frames are tested in operable conditions using ASTM E1363 and E283.

Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

Our new Trio-E door has the lowest U value of any steel stiffened door currently on the market. Trio-E goes beyond the prerequisite of minimizing energy from reducing thermal and air leakage, but also can aid projects in optimizing the energy performance through superior thermal properties.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

FLEMING have product-specific type III EPDs certified in accordance with ISO 14025 and EN 15804.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)*

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

Many products from FLEMING can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit. Our steel doors have an available Product End of Life Recycling program through the Steel Recycling Institute.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many products from FLEMING can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit. Our steel doors have an available Product End of Life Recycling program through the Steel Recycling Institute.

Purchasing & Solid Waste Management – Facility Maintenance and Renovation

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

Many products from FLEMING can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit. Our steel doors have an available Product End of Life Recycling program through the Steel Recycling Institute.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
### Indoor Environmental Quality (EQ)

#### Minimum Acoustic Performance (Prerequisite)
**BD+C – Schools Only**

*To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.*

FLEMING offers a wide selection of operable STC doors. Our Whisper Core Door Systems uses sound absorbing technology and includes a variety of hardware options such as cylindrical and exit hardware, locks, panic devices, etc.

#### Low-Emitting Materials†
**BD+C.ID+C**

*Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity and the environment.*

FLEMING has achieved GREENGUARD Gold certification, verifying the Low Emitting criteria for this credit.

#### Daylight
**BD+C.ID+C**

*To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.*

Adding a FLEMING sidelight to building openings will assist projects in achieving this LEED credit.

#### Quality Views
**BD+C.ID+C**

*To give building occupants a connection to the natural outdoor environment by providing quality views.*

Adding a FLEMING sidelight to building openings will assist projects in achieving this LEED credit.

#### Daylight and Quality Views
**O+M**

*Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space.*

Adding a FLEMING sidelight to building openings will assist projects in achieving this LEED credit.

#### Acoustic Performance
**BD+C.ID+C: Excluding Retail**

*Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.*

FLEMING offers a wide selection of operable STC doors. Our Whisper Core Door Systems uses sound absorbing technology and includes a variety of hardware options such as cylindrical and exit hardware, locks, panic devices, etc.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*  
BD+C     ID+C

*Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

MEDECO has developed Type III EPDs, compliant with ISO standards and EN 15804.

Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)*  
BD+C     ID+C

*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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program.

MEDECO products select raw materials containing recycled content to increase resource conservation. GreenCircle Certified, LLC has certified the recycled content percentages in Medeco products.

Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1) *  
BD+C     ID+C

*Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level.

MEDECO seeks to understand and transparently report the materials used in our products, ensuring that our products are safe for the consumer.

Construction Waste Management  
BD+C     ID+C

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.

Many MEDECO products can be recycled and reused, reducing the amount of construction waste during a project. We strive to make durable sustainable products that can assist projects in attaining this credit.

Solid Waste Management – Facility Maintenance and Renovation  
O+M

Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.

Many MEDECO products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
### Energy & Atmosphere (EA)

**Minimum Energy Performance (Prerequisite)**

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 ensure exterior door openings are latched and closed, reducing air infiltration which can help contribute towards the minimum requirements of energy efficiency.

### Materials and Resources (MR)

**Building Product Disclosure and Optimization – Environmental Product Declarations***

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs. NORTON has developed a Type III EPD, compliant with ISO standards and EN 15804.

**Building Product Disclosure and Optimization – Sourcing of Raw Materials (Option 2)**

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, bio-based materials, wood products, materials reuse, recycled content, or other USGBC approved program. We strive to make durable sustainable products that can assist projects in attaining this credit. NORTON has a recycling program in place which NORTON seeks to extend responsibility for proper recycling and disposal of the NORTON products at their end of life.

**Building Product Disclosure and Optimization – Material Ingredients: Material Ingredient Reporting (Option 1)***

Select products for which the chemical ingredients in the product are inventoried to at least 0.1% (1000ppm). Acceptable material disclosure methods include: a self-published manufacturer inventory (disclosing material name and CAS numbers, or role, amount and GreenScreen v1.2 benchmarks), a Health Product Declaration disclosing all known hazards, or, Cradle to Cradle v2 basic Level certification or Cradle to Cradle v3 Bronze Level. NORTON seeks to understand and transparently report the materials used in our products, ensuring that our products are safe for the consumer.

**Construction Waste Management**

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials. We strive to make durable sustainable products that can assist projects in attaining this credit. NORTON has a recycling program in place which NORTON seeks to extend responsibility for proper recycling and disposal of the NORTON products at their end of life.

**Purchasing & Solid Waste Management – Facility Maintenance and Renovation**

Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions. We strive to make durable sustainable products that can assist projects in attaining this credit. NORTON has a recycling program in place which NORTON seeks to extend responsibility for proper recycling and disposal of the NORTON products at their end of life.

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*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.
Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)
BD+C – Schools Only

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.
NORTON hardware and door closers insure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

Enhanced Indoor Air Quality Strategies
BD+C     ID+C

To promote occupant’s comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems).
NORTON door closers ensure entryways allow self-closing doors to help prevent interior cross-contamination.

Acoustic Performance
BD+C     ID+C: Excluding Retail

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.
NORTON hardware and door closers insure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use. RIXSON hardware and door closers ensure exterior door openings are latched and closed, reducing air infiltration and improving energy efficiency of the building.

Materials and Resources (MR)

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials. Many RIXSON products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Solid Waste Management – Facility Maintenance and Renovation

Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials. Many RIXSON products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)

To provide classrooms that facilitate better teacher-to-student and student-to-student communications through effective acoustical design. RIXSON hardware and door closers insure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

Enhanced Indoor Air Quality Strategies

To promote occupants' comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems). RIXSON door closers should be specified on all openings where hazardous particulates and chemical pollutants may be present to allow for self-closing doors which will prevent interior cross-contamination.

Acoustic Performance

Provide workspaces and classrooms which promote occupants' well-being, productivity, and communications through effective acoustic design. RIXSON hardware and door closers insure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The minimum energy performance standards set by LEED can help be achieved through quality closing hardware of building openings. Through the installation of SARGENT products on the exterior building envelope, SARGENT hardware and door closers ensure exterior door openings are latched and sealed closed, reducing thermal and air infiltration.

Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

High performance electrified mortise locks and access control systems go beyond the prerequisite of minimizing energy performance by optimizing the energy performance during the building use through reduced power consumption.

SARGENT EcoFlex Fail Safe and Fail Secure electrified mortise locks save energy compared to other traditional electrified mortise lock systems, as certified by GreenCircle Certified, LLC.

SARGENT Power over Ethernet (PoE) Technology access control systems consume less energy compared to traditional access control systems. These systems are certified by GreenCircle Certified, LLC for energy savings.

Materials and Resources (MR)

Building Product Disclosure and Optimization - Environmental Product Declarations*

Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.

Construction Waste Management

Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials. Many of SARGENT products can be recycled and reused. SARGENT has a recycling program in place which seeks to properly recycle and dispose of the SARGENT products at their end of life. More information can be found online.
Reduce the environmental harm from materials used in building renovations. Purchasing materials that incorporate recycled content, sustainably harvested wood, bio-based content, reused materials, and/or have extended producer responsibility, GreenScreen v1.2 Benchmarks, Cradle to Cradle certification, REACH Optimization and/or contain low VOC emissions.

SARGENT has incorporated an extended producer responsibility program through the development of a product recycling program which seeks to properly recycle and dispose of the SARGENT products at their end of life. More information can be found online.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.

### Indoor Environmental Quality (EQ)

#### Minimum Acoustic Performance (Prerequisite)

BD+C – Schools Only

To provide classrooms that facilitate better teacher-to-student and student-to-student communications through effective acoustical design.

SARGENT hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit.

#### Enhanced Indoor Air Quality Strategies

BD+C  ID+C

To promote occupant’s comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems).

SARGENT door closers ensure entryways allow self-closing doors to help prevent interior cross-contamination.

#### Acoustic Performance

BD+C  ID+C: Excluding Retail

Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.

SARGENT hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit for Acoustic Performance.

†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.
Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

*Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.*

YALE hardware and door closers ensure exterior door openings are latched and closed, reducing air infiltration, helping to meet the minimum energy efficiency requirements of projects seeking LEED certification.

Materials and Resources (MR)

Building Product Disclosure and Optimization – Environmental Product Declarations*

*Increase the use of products and materials with life cycles, ingredients, and attributes that improve overall environmental, economic and social performance. Use at least 20 permanently installed products sourced from at least five different manufacturers that have product-specific declarations, industry-wide generic environmental product declarations (EPDs), or Product-specific Type III EPDs.*

YALE has developed Type III EPDs, compliant with ISO standards and EN 15804.

Construction Waste Management

*Reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing and recycling materials.*

Many YALE products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

Solid Waste Management – Facility Maintenance and Renovation

*Divert construction, renovation, and demolition debris from disposal in landfills and incinerators and recover and recycle reusable materials.*

Many YALE products can be recycled and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.

*Note on Regionality: While ASSA ABLOY operates manufacturing locations and supplies distribution centers throughout North America, our many suppliers are selected among the best in the world to source the finest raw materials, ensuring the best quality for our products. Therefore, we do not consider the Location Valuation Factor may be applied to any applicable MR credits.*
### Indoor Environmental Quality (EQ)

#### Minimum Acoustic Performance (Prerequisite)
**BD+C – Schools Only**

*To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design.*

YALE hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit.

#### Enhanced Indoor Air Quality Strategies
**BD+C | ID+C**

*To promote occupant’s comfort, well-being and productivity by improving indoor air quality through enhanced IAQ strategies (mechanically ventilated spaces, naturally ventilated systems and mix-mode systems).*

YALE door closers should be specified on all openings where hazardous particulates and chemical pollutants may be present to allow for self-closing doors which will prevent interior cross-contamination.

#### Acoustic Performance
**BD+C | ID+C: Excluding Retail**

*Provide workspaces and classrooms which promote occupants’ well-being, productivity, and communications through effective acoustic design.*

YALE hardware and door closers ensure STC rated door openings are latched and closed, reducing sound infiltration and helping LEED projects gain credit.

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†Note on IEQ: Many ASSA ABLOY products do not contribute to the Low-Emitting Material credit since door hardware products are not eligible. However, since the products are comprised of primarily plated metal, they are inherently non-emitting sources and do not require VOC testing.