



LEED® Building Design and Construction (BD+C) v4

ASSA ABLOY
Opening Solutions

ASSA ABLOY Opening Solutions EMEA - 12.2021

Experience a safer
and more open world

LEED® Building Design and Construction (BD+C) v4

Summary

Leadership in Energy and Environmental Design (LEED®) is a third-party verified green building rating system that is used throughout the world. Their Building Design and Construction (BD+C) certification scheme provides a comprehensive, nine-category pathway for virtually all building types to achieve sustainability recognition. Buildings must satisfy prerequisites within each category and obtain a minimum of 40 points, which are available for achievement within each category, to achieve the baseline (bronze) certification. Higher levels of certification including silver, gold, and platinum can be achieved through obtaining additional points. Categories covered within this scheme include Integrative Process, Location and Transportation (LT), Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (EQ), Innovation (IN), and Regional Priority (RP).

An important aspect when pursuing LEED® certification is identifying products that align with and contribute towards the goals of the project. To aid in these decisions, this document highlights how ASSA ABLOY Opening Solutions products may contribute to a variety of LEED® credits.

Applicable Credits



Energy and Atmosphere (EA)

- Minimum Energy Performance
- Optimize Energy Performance



Materials and Resources (MR)

- Building Product Disclosure and Optimization – Environmental Product Declarations
- Building Product Disclosure and Optimization – Sourcing of Raw Materials
- Building Product Disclosure and Optimization – Material Ingredients



Indoor Environmental Quality (EQ)

- Minimum Acoustic Performance
- Acoustic Performance
- Thermal Comfort



ASSA ABLOY is
official partner in
the WGBC's Europe
Regional Network



WORLD
GREEN
BUILDING
COUNCIL

LEED V4 OVERVIEW



Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Decrease the level of environmental and economic harm caused by the building and its systems through achieving a minimum level of energy use.

Energy efficiency within buildings can be increased by maintaining a tight building envelope as well as by choosing access solutions that use low-to-no energy. Door security solutions from ASSA ABLOY Opening Solutions such as door closers and drop seals ensure a tight door seal. Select doors also have thermal performance properties. These solutions can lessen the load on heating, ventilation, and air conditioning systems, leading to increased energy efficiency in the building. Additionally, many of our access control solutions and electromechanical locking systems use minimal energy or utilize energy-harvesting technology.

Optimize Energy Performance (1-20 pts)

Significantly decrease the level of environmental and economic harm caused by the building and its systems through achieving an additional level of energy efficiency.

Several of ASSA ABLOY Opening Solutions' access control products and locks make use of innovative technology that reduces energy consumption, leading to an overall lower building energy demand.



Materials & Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. 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 Opening Solutions aims to set long-term, science-based sustainability goals. Many of our products have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. ASSA ABLOY Opening Solutions has numerous products with product specific EPDs within our access control, door closer, locking, door, exit device, entrance automation, and architectural hardware product lines. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards. ASSA ABLOY Opening Solutions also has several industry wide EPDs.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Building Product Disclosure and Optimization – Sourcing of Raw Materials (1-2 pts)

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Use products that meet at least one of the following responsible extraction criteria 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 Opening Solutions strives to source materials responsibly. Our suppliers are vetted through a competitive process where they are rated on key factors such as sustainability and quality. All new product sources must follow our internal gateway processes for quality approval and are audited. Additionally, many ASSA ABLOY products contain recycled content and have Forest Stewardship Council (FSC®) certifications.

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ACCESS CONTROL

Aperio®
CLIQ®
Incedo™
Code Handle®
SMARTair™

DOOR CLOSERS

MECHANICAL AND ELECTRO- MECHANICAL LOCKING

E-Locks
Pulse
Lock Sets,
Lock Cases,
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DOORS

DROP SEALS

PANIC AND EXIT DEVICES

DOOR OPENERS

HANDLES AND PUSH-PULLS

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Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our products, ensuring the products are safe for the consumer. At the request of our customers, ASSA ABLOY Opening Solutions may conduct chemical inventories for products.



Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)

Schools Only: Provide classrooms that facilitate teacher-to-student and student-to-student communication through effective acoustic design.

All drop seals and some security doors from ASSA ABLOY Opening Solutions have sound-dampening properties, which promote a productive learning, working, and living environment.

Acoustic Performance (1-2 pts)

Provide spaces which prioritize occupants' well-being, productivity, and communications through effective acoustic design.

All ASSA ABLOY drop seal doors, as well as some doors, have acoustic dampening or proofing properties that contribute to enhancing the acoustic performance of the building. We offer doors solutions, including our Powershield Acoustic Doors, that are rated upwards of 45 decibels and are compliant with acoustic standards such as EN-ISO 140-3.

For more information on the acoustic performance properties of our products, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Thermal Comfort (1 pts)

Meet the requirements for both thermal comfort design and thermal comfort control.

ASSA ABLOY Opening Solutions has many products that enhance the overall thermal performance of the building. Our drop seals and door closers ensure a timely and tightly sealed building envelope, minimizing temperature changes within the building. Additionally, select doors are constructed with insulation to improve the thermal performance of the door, effectively improving the overall energy performance of the building.

Don't see what you are looking for?

We may be able to work with you! Please put in a request at:

Sustainability.EMEIA@assaabloy.com

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Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Decrease the level of environmental and economic harm caused by the building and its systems through achieving a minimum level of energy use.

Many of our access control solutions use minimal energy, conserving power by only turning on when presented with a credential. Aperio®, CLIQ®, Incedo™, Code Handle®, and SMARTair™ are battery-powered products that require no wiring to install.

Optimize Energy Performance (1-20 pts)

Significantly decrease the level of environmental and economic harm caused by the building and its systems through achieving an additional level of energy efficiency.

Aperio, CLIQ, Incedo, Code Handle, and SMARTair are battery-powered products. Compared to traditional, hard-wired access control products, our wireless access control solutions utilize minimal grid energy and can improve a building's energy performance or ENERGY STAR® score. In addition, Incedo Business utilizes wireless hardware, such as Aperio or PULSE. The battery-powered access control solutions from Aperio use minimal energy and only wake-up and use energy when presenting a credential. They also require less energy during the installation phase as no cabling around the door is needed. These devices can be easily switched to other doors in case of movement. Energy harvesting solutions, such as the key-based ASSA ABLOY PULSE electronic locking system, generate the needed energy by inserting and turning the key.



Materials and Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

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 aims to set long-term, science-based sustainability goals. Many of our access control products have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards. ASSA ABLOY Opening Solutions also has several industry wide EPDs.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our access control products, ensuring the products are safe for the consumer. At the request of our customers, ASSA ABLOY Opening Solutions may conduct chemical inventories for products.

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ACCESS CONTROL

Aperio® | CLIQ® | Incedo™ | Code Handle® | SMARTair™



Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our access control products, ensuring the products are safe for the consumer. At the request of our customers, ASSA ABLOY Opening Solutions may conduct chemical inventories for products.

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Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Decrease the level of environmental and economic harm caused by the building and its systems through achieving a minimum level of energy efficiency

Energy efficiency within buildings can be increased by maintaining a tight building envelope. ASSA ABLOY door closers ensure that doors close quickly and properly, which can lessen the load on heating, ventilation, and air conditioning systems, increasing building energy performance.

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Materials and Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. 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 aims to set long-term, science-based sustainability goals. Our door closers have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards. All door closer products have product specific EPDs. Door closers also have a generic industry EPD through ARGE.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

DOOR CLOSERS

MECHANICAL AND ELECTRO- MECHANICAL LOCKING

E-Locks
Pulse
Lock Sets,
Lock Cases,
and Cylinders

Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our door closers, ensuring the products are safe for the consumer. At the request of our customers, ASSA ABLOY Opening Solutions may conduct chemical inventories for products.

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Indoor Environmental Quality (EQ)

Thermal Comfort (1 pts)

Meet the requirements for both thermal comfort design and thermal comfort control.

ASSA ABLOY Opening Solutions' door closers enhance the overall thermal performance of the building by ensuring a timely and tightly sealed building envelope, minimizing temperature changes within the building.

MECHANICAL AND ELECTROMECHANICAL LOCKING

E-Locks | Pulse | Lock Sets | Lock Cases and Cylinders



Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Decrease the level of environmental and economic harm caused by the building and its systems through achieving a minimum level of energy efficiency.

ASSA ABLOY electromechanical locks are designed to use minimal energy throughout their lifetime. Notably, our PULSE keys are both wireless and battery free. PULSE harvests the energy generated through the action of using a key. This innovative technology provides access control functionality of an electronic key with the energy-savings of a mechanical one.

Optimize Energy Performance (1-20 pts)

Significantly decrease the level of environmental and economic harm caused by the building and its systems through achieving an additional level of energy efficiency.

ASSA ABLOY PULSE utilizes energy-harvesting technology that requires no batteries or wires to function. PULSE utilizes no grid energy and does not negatively impact a building's energy performance or ENERGY STAR® score. Paired with ASSA ABLOY Incedo Business, it provides the access control functionality of an electronic key with the energy-savings of a mechanical one.

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Materials and Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

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 aims to set long-term, science-based sustainability goals. Many of our locks have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards. PULSE, among other products, has its own product specific EPD.

To access our full library of EPDs, please visit our website at
<https://www.assaabloyopeningsolutions.pl/en/sustainability/epds/epd-library>

Building Product Disclosure and Optimization – Sourcing of Raw Materials (1-2 pts)

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Use products that meet at least one of the following responsible extraction criteria 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 Opening Solutions strives to source materials responsibly. Our suppliers are vetted through a competitive process where they are rated on key factors such as sustainability and quality. All new product sources must follow our internal gateway processes for quality approval and are audited. Additionally, select locks contain recycled content.

MECHANICAL AND ELECTROMECHANICAL LOCKING

E-Locks | Pulse | Lock Sets | Lock Cases and Cylinders



Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our mechanical and electromechanical locks, ensuring the products are safe for the consumer. At the request of our customers, ASSA ABLOY Opening Solutions may conduct chemical inventories for products.

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Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Decrease the level of environmental and economic harm caused by the building and its systems through achieving a minimum level of energy use.

Select ASSA ABLOY Opening Solutions doors are designed with built-in insulation, increasing their thermal performance. Increased thermal performance of doors can lessen the load on heating, ventilation, and air conditioning systems, leading to increased energy efficiency in the building.



Materials and Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

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 aims to set long-term, science-based sustainability goals. Many of our doors have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Building Product Disclosure and Optimization – Sourcing of Raw Materials (1-2 pts)

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Use products that meet at least one of the following responsible extraction criteria 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 Opening Solutions strives to source materials responsibly. Our suppliers are vetted through a competitive process where they are rated on key factors such as sustainability and quality. All new product sources must follow our internal gateway processes for quality approval and are audited. ASSA ABLOY SMARTec™ security doors are crafted with Forest Stewardship Council® (FSC®) certified wood. Additionally, at the request of customers, certain product lines can be custom ordered to meet these specifications.

Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our doors, ensuring the products are safe for the consumer. We are happy to report that our security doors are manufactured urea-formaldehyde free. Further, ASSA ABLOY Opening Solutions may conduct chemical inventories for products at the request of our customers.

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Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)

Schools Only: Provide classrooms that facilitate teacher-to-student and student-to-student communication through effective acoustic design.

Many ASSA ABLOY Opening Solution doors have sound-dampening properties, which promote a healthy and productive learning and working environment.

Acoustic Performance (1-2 pts)

Provide spaces which prioritize occupants' well-being, productivity, and communications through effective acoustic design.

Several of ASSA ABLOY Opening Solution doors have acoustic dampening or proofing properties that contribute to enhancing the acoustic performance of the building. We offer doors solutions, including our Powershield Acoustic Doors, that are rated upwards of 45 decibels and are compliant with acoustic standards such as EN-ISO 140-3. Additional standards apply on a door-by-door basis.

For more information on the acoustic performance properties of our products, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Thermal Comfort (1 pts)

Meet the requirements for both thermal comfort design and thermal comfort control.

Several of ASSA ABLOY Opening Solution doors are designed with built-in insulation, increasing their thermal performance, and enhancing the overall thermal comfort of the building.

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Energy & Atmosphere (EA)

Minimum Energy Performance (Prerequisite)

Decrease the level of environmental and economic harm caused by the building and its systems through achieving a minimum level of energy use.

ASSA ABLOY Opening Solutions' drop seals ensure a consistent and tight door seal that minimizes the indoor temperature change near the door. Drop seals can lessen the load on heating, ventilation, and air conditioning systems, leading to increased energy efficiency in the building.



Materials and Resources (MR)

Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our security door products, ensuring the products are safe for the consumer. We are happy to report that our drop seals are manufactured urea-formaldehyde free. Further, ASSA ABLOY Opening Solutions may conduct chemical inventories for products at the request of our customers.



Indoor Environmental Quality (EQ)

Minimum Acoustic Performance (Prerequisite)

Schools Only: Provide classrooms that facilitate teacher-to-student and student-to-student communication through effective acoustic design.

All of ASSA ABLOY Opening Solutions' drop seals have sound-dampening properties, which promote a productive learning, working, and living environment.

Acoustic Performance (1-2 pts)

Provide spaces which prioritize occupants' well-being, productivity, and communications through effective acoustic design.

All of ASSA ABLOY Opening Solutions' have acoustic dampening or proofing properties that contribute to enhancing the acoustic performance of the building.

For more information on the acoustic performance properties of our products, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Thermal Comfort (1 pts)

Meet the requirements for both thermal comfort design and thermal comfort control.

ASSA ABLOY Opening Solutions' drop seals enhance the overall thermal performance of the building by ensuring a timely and tightly sealed building envelope, minimizing temperature changes within the building.

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Materials and Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

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 aims to set long-term, science-based sustainability goals. Many of our panic and exit devices have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Building Product Disclosure and Optimization – Sourcing of Raw Materials (1-2 pts)

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ASSA ABLOY Opening Solutions strives to source materials responsibly. Our suppliers are vetted through a competitive process where they are rated on key factors such as sustainability and quality. All new product sources must follow our internal gateway processes for quality approval and are audited. Additionally, select panic and exit devices contain recycled content.

Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our products, ensuring the products are safe for the consumer. We are happy to report that our panic and exit devices are manufactured urea-formaldehyde free. Further, ASSA ABLOY Opening Solutions may conduct chemical inventories for products at the request of our customers.

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ASSA ABLOY aims to set long-term, science-based sustainability goals. Select door openers have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Building Product Disclosure and Optimization – Material Ingredients

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ASSA ABLOY seeks to understand and transparently report the materials in our products, ensuring the products are safe for the consumer. We are happy to report that our door openers are manufactured urea-formaldehyde free. Further, ASSA ABLOY Opening Solutions may conduct chemical inventories for products at the request of our customers.

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Materials and Resources (MR)

Building Product Disclosure and Optimization — Environmental Product Declarations (1-2 pts)

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 aims to set long-term, science-based sustainability goals. Select handles and push-pulls have EPDs, which are documents that provide material transparency information and denote the environmental impact across the product's life cycle. All of our EPDs are third-party verified and are compliant with ISO 14025 and EN 15804 standards.

To access our full library of EPDs, please visit our website at <https://www.assaabloyopeningsolutions.com/en>

Building Product Disclosure and Optimization – Material Ingredients

Encourage the use of products with public life-cycle information that are environmentally, economically, and socially preferable. Select products for which the chemical ingredients in the product are inventoried.

ASSA ABLOY seeks to understand and transparently report the materials in our handles and push-pulls, ensuring the products are safe for the consumer. We are happy to report that our handles and push-pulls are manufactured urea-formaldehyde free. Further, ASSA ABLOY Opening Solutions may conduct chemical inventories for products at the request of our customers.

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