

Access to a sustainable future

Modernfold Solutions



Table of contents

04



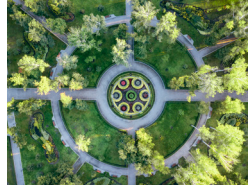
Our **sustainability** commitment

06



Our **sustainability** framework

08



Our **circular economy** approach

10



Our contribution to **green buildings**

12



Our Modernfold Solutions - **Environmental impact factsheets**

14



Modernfold Acousti-Seal® Encore Movable walls

16



Modernfold Acousti-Seal® Legacy Movable walls

18



Modernfold Acousti-Seal® Legacy Fire Rated Movable walls

20



Modernfold Acousti-Seal® Premier® Movable walls

22



Modernfold Acousti-Clear® Glass partitions

24



Modernfold Glass Wall Systems Glass partitions

26



Modernfold Accordion Doors Walls system

28



Operable Wall Applications for **LEED**



Think tomorrow

We are committed to championing sustainability in everything we do, from producing more sustainable solutions to help our customers lessen their environmental footprint to being a fair and responsible employer and neighbor.

We work together with internationally acknowledged organizations to make it happen. For every place that matters.

Memberships



External ratings & reporting partners



Shaping a sustainable future

We are aware of our customers' increasing demand for more sustainable products. To respond to the needs and expectations of our society and customers, we put sustainability at the core of our vision, which underlines our long-term commitment to shaping a more sustainable industry and future.

dormakaba demonstrates leadership in many areas of sustainability and drives a sustainable development in the access solutions market. Our sustainability framework is in line with all material topics, which are aligned to three Pillars: People, Planet and Partnerships.



Scan the QR code or click here for more information about our sustainability framework



People

We empower our people so that they can unlock their full potential

Aim

We create a fair, inclusive and safe culture which enables our employees to thrive. We provide a workplace where they can continuously grow, openly contribute with their ideas and feel proud of their achievements.

Material topics

- Fair Employment
- Training & Education
- Diversity & Inclusion
- Occupational Health & Safety

UN SDGs



Key targets

1 in 3 managers are women

| | |
|-------------------|------|
| Target year | 2027 |
| Baseline FY 20/21 | 19% |



Planet

We open the doors wide to a low carbon and circular economy

Aim

We develop innovative and resource efficient solutions for the circular economy and do our part to ensure a climate resilient future. We offer durable and energy efficient products that help our customers achieve their own sustainability goals.

Material topics

- Energy & Emissions
- Circular Economy & Materials
- Environmental Compliance

UN SDGs



Key targets

Reduce operational emissions 42% in line with a 1.5°C future

| | |
|-------------------|----------------------------|
| Target year | 2030 |
| Baseline FY 19/20 | 74,770 tCO ₂ e* |

Reduce value chain emissions from purchased goods & services, and the use of sold products by 25%

| | |
|-------------------|-------------------------------|
| Target year | 2030 |
| Baseline FY 19/20 | 1,124,936 tCO ₂ e* |

All new product developments and optimizations are covered by our circularity approach

| | |
|-------------|------|
| Target year | 2023 |
|-------------|------|

*Baseline FY 2019/20 in line with Science Based Targets initiative validation



Partnerships

We collaborate to promote sustainable development beyond our own doors

Aim

We lead by example and engage with our partners to drive more eco-friendly practices and support the protection of human rights. Through our secure access solutions, we also contribute to people's health and safety.

Material topics

- Supplier Sustainable Development
- Human Rights
- Customer Health & Safety

UN SDGs



Key targets

Assess all high-risk suppliers for their sustainability management by a third-party or off-board them for lack of participation

| | |
|-------------------|------|
| Target year | 2027 |
| Baseline FY 20/21 | 10% |

We open the doors wide to a circular economy

We focus on accelerating circular solutions and enable our customers to sustainably create value throughout the building life cycle.

Transition towards a circular economy

The building sector consumes more than half the world's virgin resources and accounts for nearly a third of solid waste streams¹. All actors in the industry have a clear responsibility to reduce this impact in their own area of influence.

In a circular economy, buildings are designed to optimize energy and resources, reuse and recycle whenever possible while minimizing or eliminating waste. For a healthier planet, human populations, and economies, boldly embracing the circular economy is the only way forward.

Sustainability by design

As a leading manufacturer, dormakaba is committed to incorporating the latest product life cycle approaches and environmental technologies to continuously advance our product development, and improve our own, as well as our customers' sustainability performance. Because we know that over 80% of all product-related environmental impacts are determined during the design phase of a product, we have developed a comprehensive circularity approach. As of 2023, all new product developments will need to follow minimum criteria in line with it.

¹United Nations Environment Programme (2020) 2020 Global Status Report for Buildings and Construction: towards a Zero-emission, Efficient and Resilient Buildings and Construction Sector, Global Status Report.

More durability, less waste

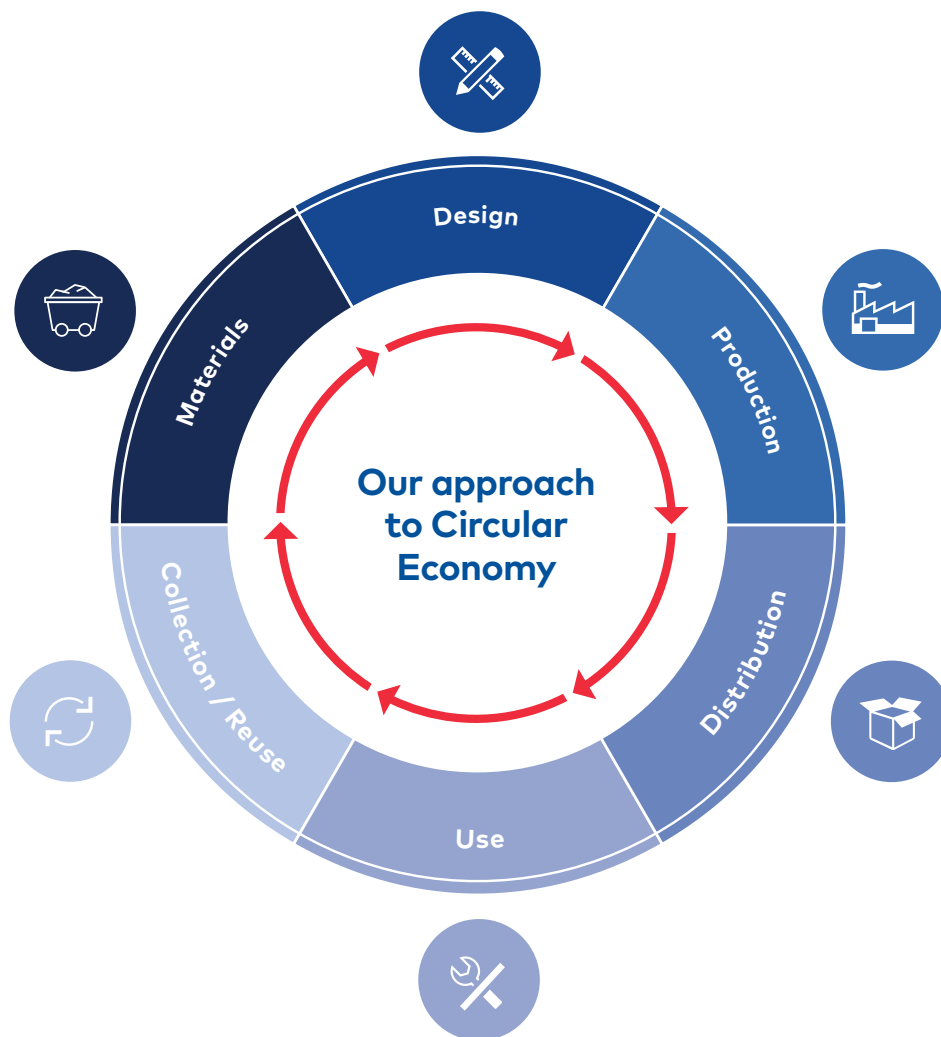
Durability is essential in the sustainable built environment. Our products have a long life span of up to 20 years, which means fewer replacements, fewer resources needed and fewer costs for our customers. Quite simply, the longer you can use a product, the better. In our design process we aim to extend the service life of our products through analysing for structural weak points of predecessor models and eliminating them, avoiding adhesive bonds to improve disassembly and repairability, using detachable connections and ensuring backwards compatibility, among others.

Our aim is to ensure that our products and components can be **reused, repaired, or reintroduced** as raw materials back into the manufacturing cycle.

Greener materials

As part of our circularity approach, we have also set minimum requirements for recycled content for the materials we select for our products. Besides leading to a lower carbon footprint, the increased use of recycled content will help customers earn credits for green building certification.

We are also moving to use only **Forest Stewardship (FSC)-certified sources** for all paper, wood and carton, which also serves customers in getting green building credits.



Scan the QR code or click here for more information about circular economy and materials.



Design

- Design for long life span
- Design for energy efficiency in the use phase
- Design for repair / reuse / recycling
- Life Cycle Assessment optimization



Production

- Material and energy efficient production
- Use of renewable energy sources
- Avoid and reduce toxic materials
- Scrap recovery



Distribution

- Reduce packaging material
- Avoid plastic packaging
- Use recycled packaging material
- Use FSC certified paper, wood and carton



Materials

- Compliance with materials restrictions and regulations
- Use of renewable / recycled raw materials
- Substitution of rare materials



Collection / Reuse

- Take back programs
- Customer information on recycling



Use

- Leasing / production as a service
- Upgrade / repair services
- No toxic exposures (i.e. low VOCs, formaldehyde)
- Customer information on sustainability features

Growing need for green buildings

More transparency along the products' whole life cycle



Scan the QR code or click here for more information about our sustainability product declaration.

Life cycle assessment (**LCA**) is a standardized methodology for assessing environmental impacts associated with all stages of the product's life cycle, from materials extraction to the end of life of the product. Using this information, we are able to develop Environmental Product Declarations (**EPDs**), that help our customers gain credits for green building certification programs.

Green building certification systems - including **LEED** (Leadership in Energy and Environmental Design), **BREEAM** (Building Research Establishment Environmental Methodology) and **DGNB** (Deutsche

Gesellschaft für Nachhaltiges Bauen, German Sustainable Building Council) - help customers ensure that a building is designed and constructed in a sustainable way incorporating products with EPDs.

Our EPDs are based on international standards and verified by a third-party ensuring that the information used is transparent, reliable and credible. We currently offer over 200 sustainability related product declarations and certifications.



Why your building's Life Cycle Assessment matters



Reducing environmental impact

According to the United Nations Environment Programme, buildings and construction contribute to almost 40% of global carbon emissions. It is with this in mind that architects, contractors, and manufacturers are increasingly committing themselves to **sustainable design** and practicing **sustainable business**.

LCA provides the stakeholders with invaluable information on a building's environmental blindspots, which can help them to address potential issues like carbon emissions, waste or energy flows.



Saving costs

Enabling the property developers to gain a bird's eye perspective over all aspects of their projects, **LCA can dramatically cut costs** in both the short and long term. One important detail of a building as such is its energy use. Unless optimized systematically, energy use can eat up a bulk of resources during both the construction process and beyond. Utilizing a combination of product data, LCA can also help the developers to compare different products and materials with the same outcomes to pick the most cost effective option.



Speaking one language

Trying to sift through the mountains of product and building data can be overwhelming for architects and developers, leading to misunderstandings and errors. In complex projects with much to oversee, LCA provides a **standardized process** to assist all the team members to speak one language about the building's environmental impact - regardless of the number of components built into it. With this methodology, it's possible to streamline communication between colleagues and to boost understanding on how the building fits into the **urban ecosystem**.



Making future-oriented decisions

LCA provides a scientific system for stakeholders to make the best decisions about their buildings and tackle many challenges that arise during, before and after construction. The demand for LCA is on the rise due to the accelerating environmental concern. In the construction industry, it's already been standardized by use of **EPDs**. Several **green building certification** schemes give building planners credits for providing EPDs for their selected construction products.



Environmental impact factsheets

Modernfold Acousti-Seal® Encore Movable walls

Key Figures

Lifetime per square meter: 25-30 years

Weight per square meter: 52 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

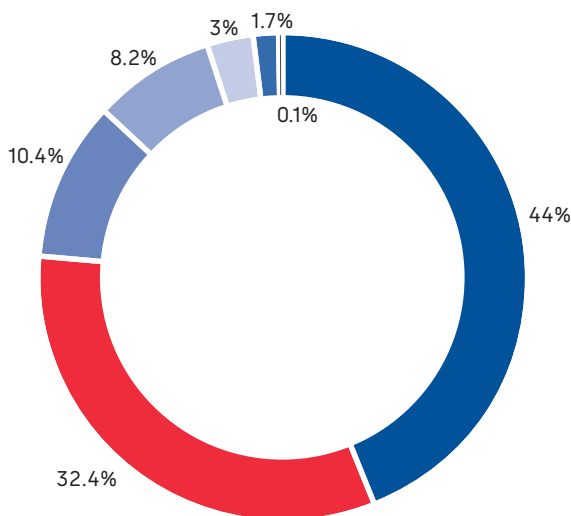
Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | ✓ | | |

Material used (%)

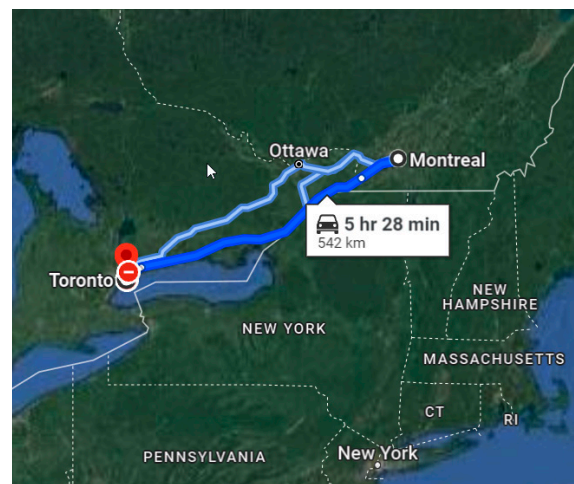
■ Steel
 ■ Gypsum
 ■ Plastic
 ■ Aluminium
 ■ Other

■ Fabric
 ■ Fiberglass



The GWP¹ across the cradle-to-gate life cycle is 156 kg CO₂e per square meter

This is similar to the CO₂ produced from a road trip with a diesel mid-range car from Montreal to Toronto



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



Scan the QR code or click here for more information about sustainability



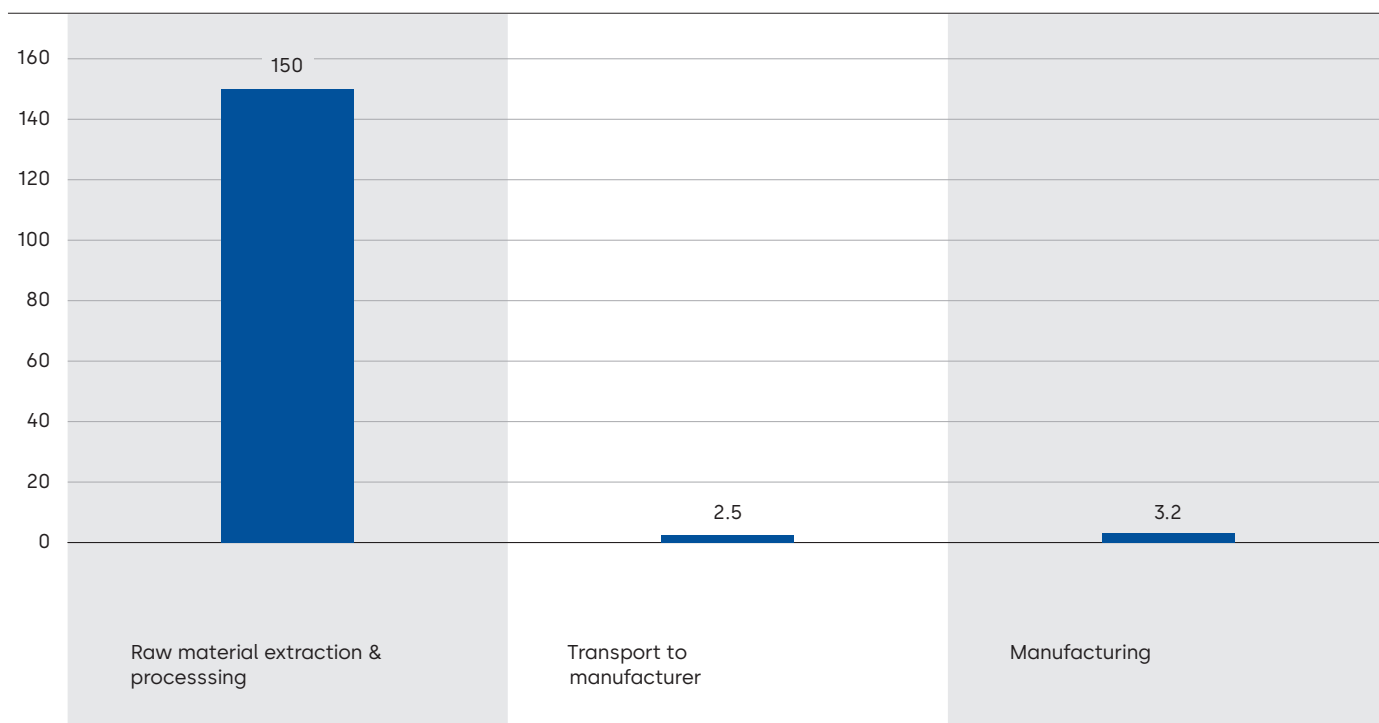
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Acousti-Seal® Encore® – When top-of-the-line acoustic performance and premium aesthetics are desired. Acousti-Seal® Encore® provides a 4" platform featuring a robust steel frame construction. Acousti-Seal® Encore® raises the bar in operable partition acoustic performance with an unprecedented industry leading 56 STC along with automatic operation courtesy of the SureSet™ top and bottom seal mechanism. Offered in single, paired, and fully automated options. AcoustiSeal® Encore® uses vertical and horizontal steel frame members with various panel face options to create the strongest unitized panel construction available. The TRACI LCA results presented here, and the scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Modernfold Acousti-Seal® Legacy Movable walls

Key Figures

Lifetime per square meter: 25-30 years

Weight per square meter: 47 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

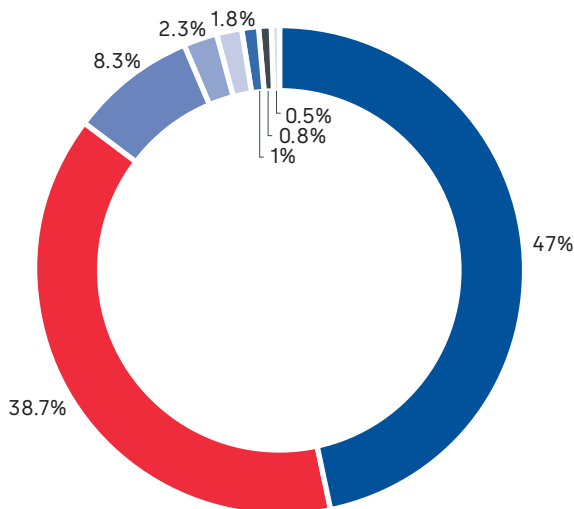
| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | ✓ | | |

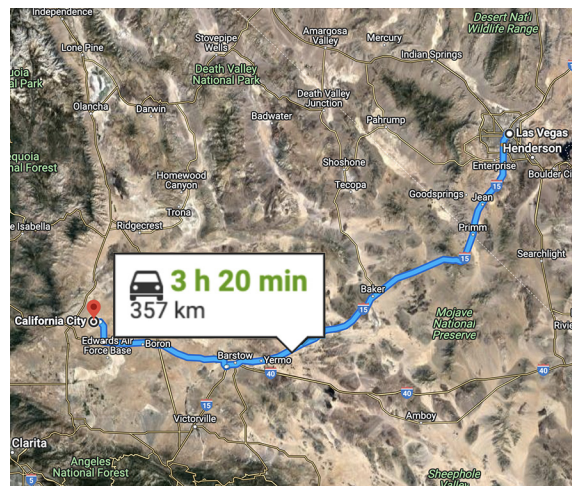
Material used (%)

■ Steel
 ■ Gypsum
 ■ Plastic
 ■ Fabric
 ■ Fiberglass
 ■ Other
 ■ Rubber
 ■ Aluminium



The GWP¹ across the cradle-to-gate life cycle is 125 kg CO₂e per square meter

This is similar to the CO₂ produced from a road trip with a diesel mid-range car from Las Vegas to California



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



Scan the QR code or click here for more information about sustainability



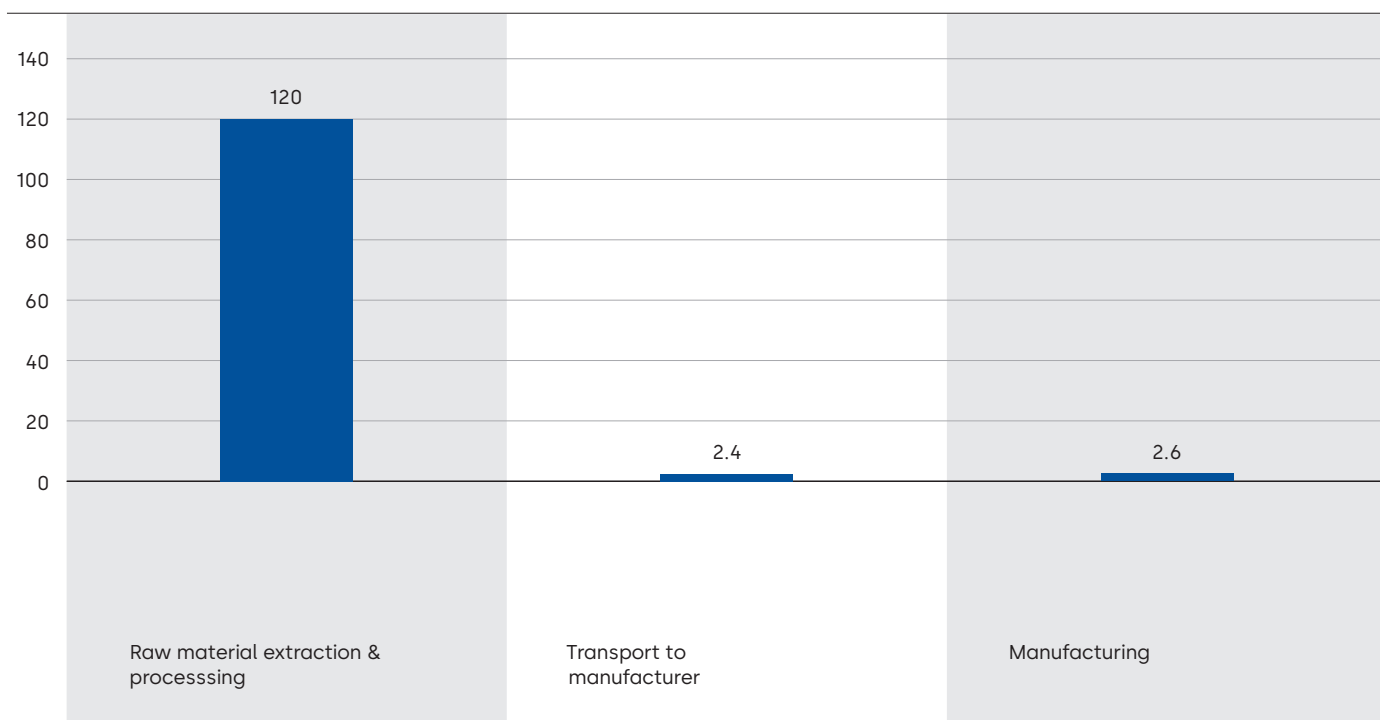
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Acusti-Seal® Legacy® – Modernfold's Acusti-Seal® Legacy® (A/S900; Steel) provides a slim 3" steel faced platform while maintaining the robust steel frame construction of other Modernfold premium products. Offered in single, paired, and continuously hinged operations, Acusti-Seal® Legacy® uses vertical and horizontal steel frame members with various panel face options to create the strongest unitized panel construction available. The TRACI LCA results presented here, and the scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Modernfold Acousti-Seal® Legacy Fire Rated Movable walls

Key Figures

Lifetime per square meter: 25-30 years

Weight per square meter: 50 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

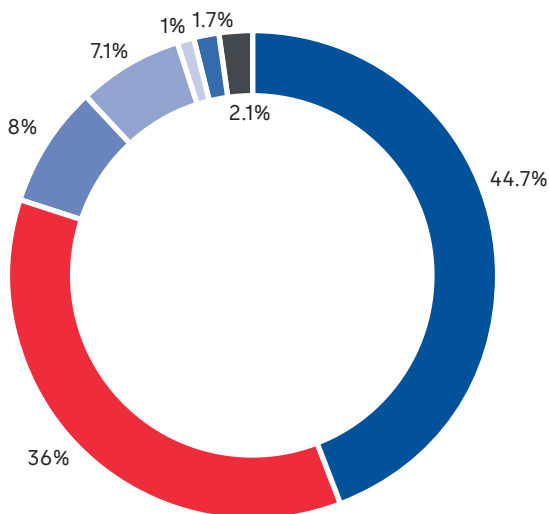
| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | | | |

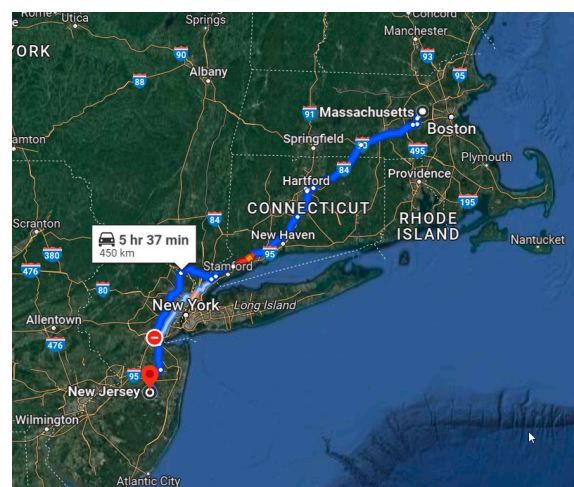
Material used (%)

■ Steel
 ■ Gypsum
 ■ Other
 ■ Plastic
 ■ Rubber
 ■ Fiberglass
 ■ Fabric



The GWP¹ across the cradle-to-gate life cycle is 134 kg CO₂e per square meter

This is similar to the CO₂ produced from a road trip with a diesel mid-range car from Massachusetts to New Jersey



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



Scan the QR code or click here for more information about sustainability



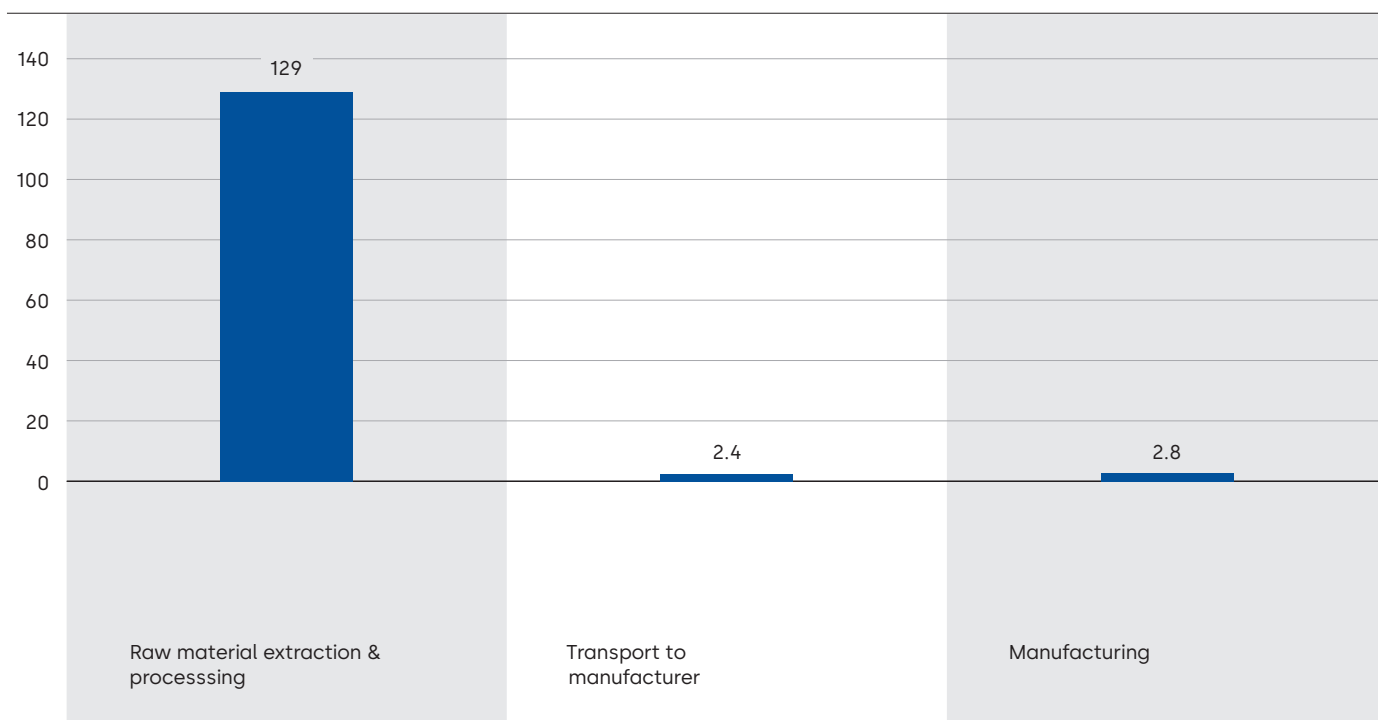
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Featuring many of the same great benefits as Acousti-Seal® and Legacy®, Modernfold Fire Rated partitions also features a 1-hour fire rating which provides the extra safety precautions that some spaces or buildings require when utilizing operable partitions. This 1-hour fire rating is tested at Underwriters Laboratories (UL®) per UL® 10B or NFPA 252. The TRACI LCA results presented here, and the scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Modernfold Acousti-Seal® Premier® Movable walls

Key Figures

Lifetime per square meter: 25-30 years

Weight per square meter: 47 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

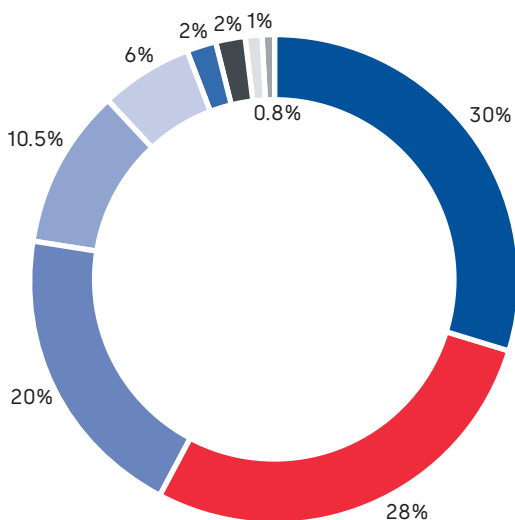
| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | ✓ | | |

Material used (%)

■ Wood
 ■ Gypsum
 ■ Steel
 ■ Plastic
 ■ Other
■ Fiberglass
 ■ Fabric/carpet
 ■ Aluminium
 ■ Rubber



The GWP¹ across the cradle-to-gate life cycle is 346 kg CO₂e per square meter

This is similar to the CO₂ produced from a roundtrip flight from Las Vegas to Phoenix (800 km)



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



Scan the QR code or click here for more information about sustainability



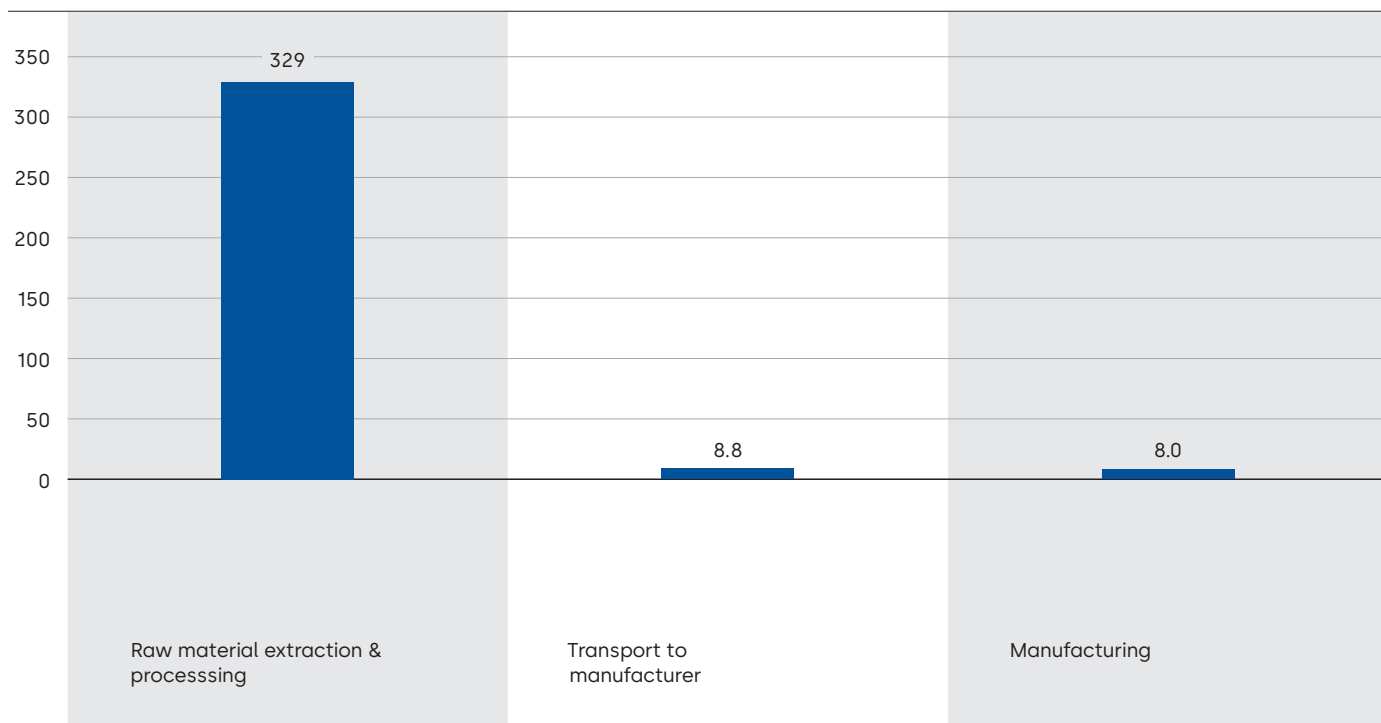
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Acousti-Seal® Premier® – Modernfold's most versatile movable wall system, Acousti-Seal® Premier® provides a slim 3" platform while maintaining the robust steel frame construction of other Modernfold premium products. Offered in single, paired, and continuously hinged operations, Acousti-Seal® Premier® provides the ideal platform for custom design options including: Custom finishes of various types, window cutouts, veneers, murals, and many more. The TRACI LCA results presented here, and the scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Modernfold Acousti-Clear® Glass partitions

Key Figures

Lifetime per square meter: 15-20 years

Weight per square meter: 31 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

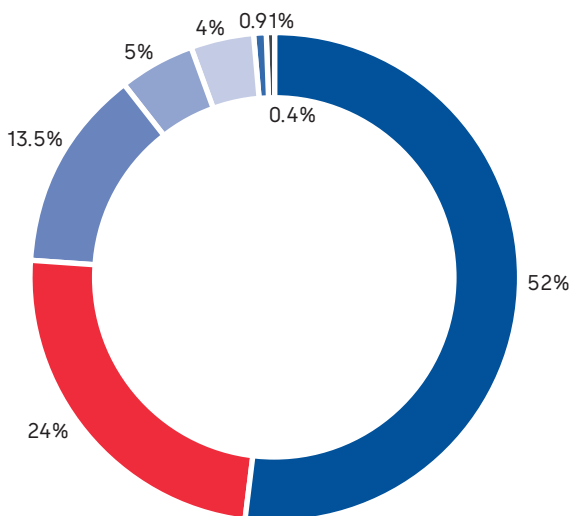
| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | ✓ | | |

Material used (%)

■ Wood
 ■ Other
 ■ Aluminium
 ■ Plastic
 ■ Steel
 ■ Fiberglass
 ■ Rubber



The GWP¹ across the cradle-to-gate life cycle is 367 kg CO₂e per square meter

This is similar to the CO₂ produced from a roundtrip flight from San Francisco to Los Angeles (1,100 km)



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



Scan the QR code or click here for more information about sustainability



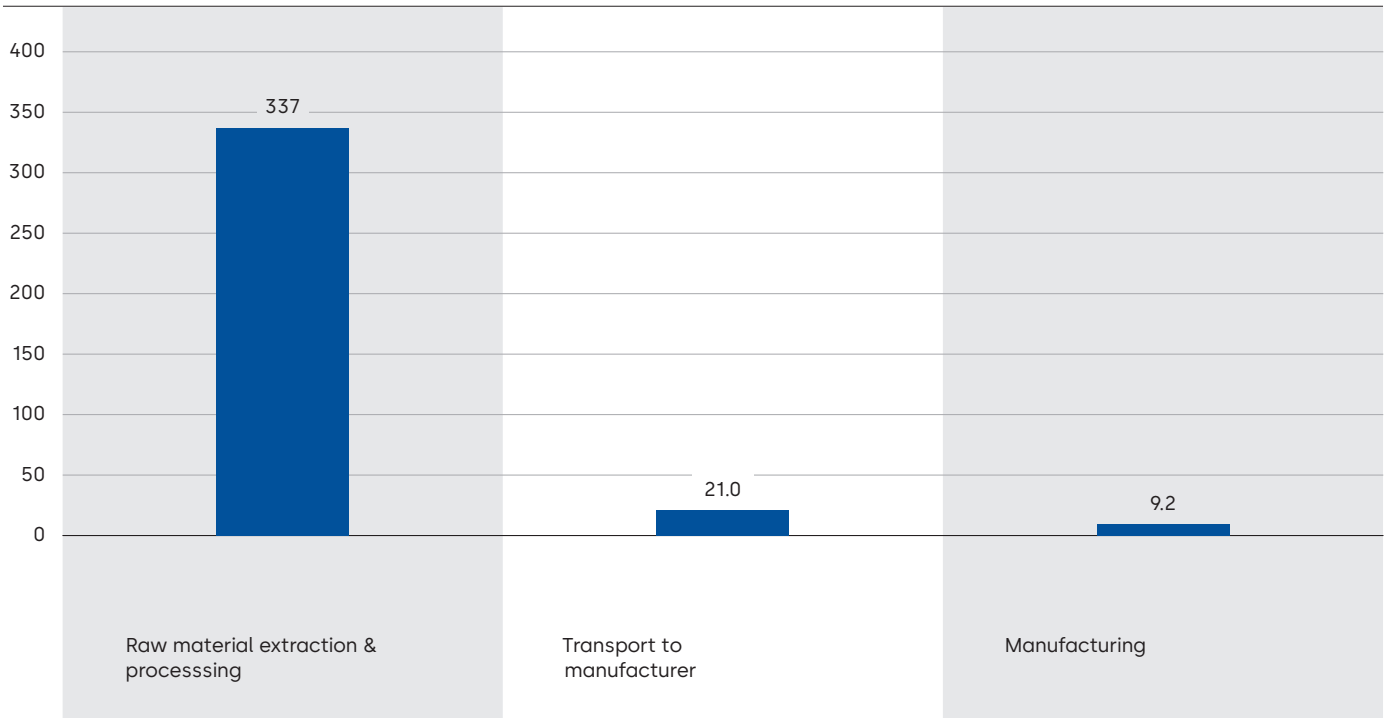
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Acousti-Clear® Glass – Modernfold’s premier movable acoustical glass product offering features a family of acoustical glass wall products that provide 45 and 51 STC. Offered in Motorized, Automatic, and Demountable versions, Acousti-Clear® can be utilized in a variety of spaces that require a combination of user needs. Acousti-Clear® glass panels feature customizable tempered glass with contemporary aluminum frames which can be powder coated to over 180 RAL Classic powder coat colors. The TRACI LCA results presented here, and the scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Modernfold Glass Wall Systems

Glass partitions

Key Figures

Lifetime per square meter: 15-20 years

Weight per square meter: 18 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

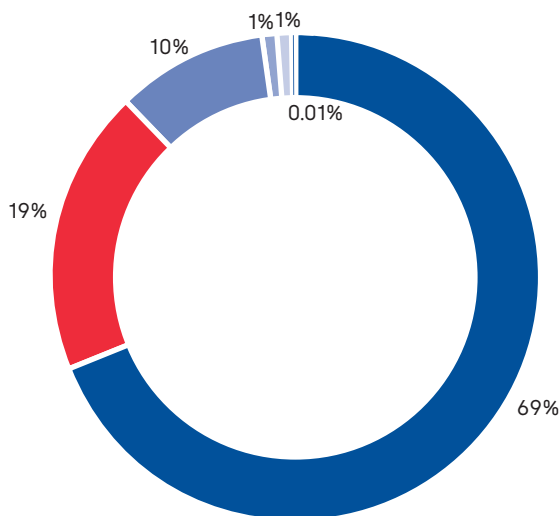
| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | ✓ | | |

Material used (%)

■ Glass ■ Aluminium ■ Steel ■ Plastic ■ Other
■ Rubber



The GWP¹ across the cradle-to-gate life cycle is 291 kg CO₂e per square meter

This is similar to the CO₂ produced from a roundtrip flight from Washington to Pittsburgh (600 km)



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



Scan the QR code or click here for more information about sustainability



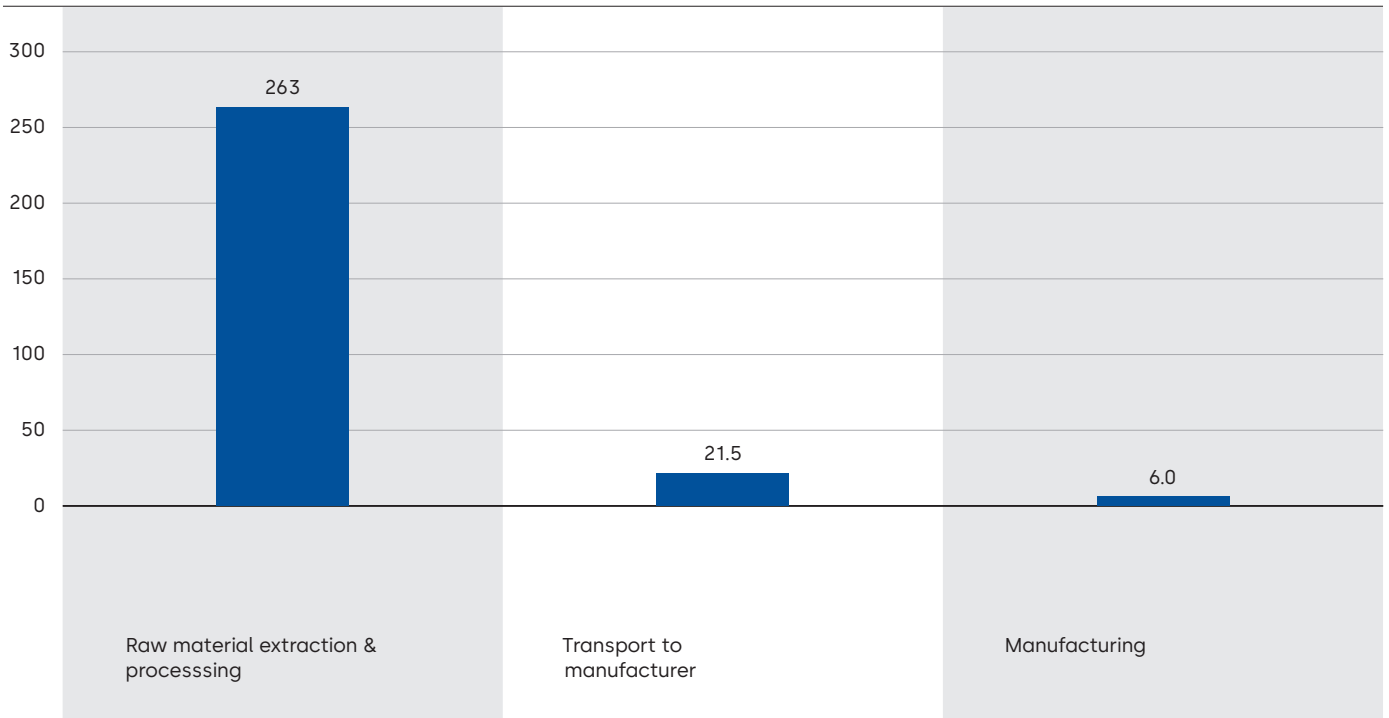
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Modernfold Glass Wall Systems (GWS) add new openness to your space, making natural light a welcomed addition to any design. Elegance takes physical shape with these walls, becoming a tool with architects and interior designers who can craft unique and welcoming environments in a variety of spaces. The TRACI LCA results presented here, and the scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Modernfold Accordion Doors Walls system

Key Figures

Lifetime per square meter: 20-25 years

Weight per square meter: 12 kg/m²

Production location: Dyersville, Iowa, U.S.

Production standards

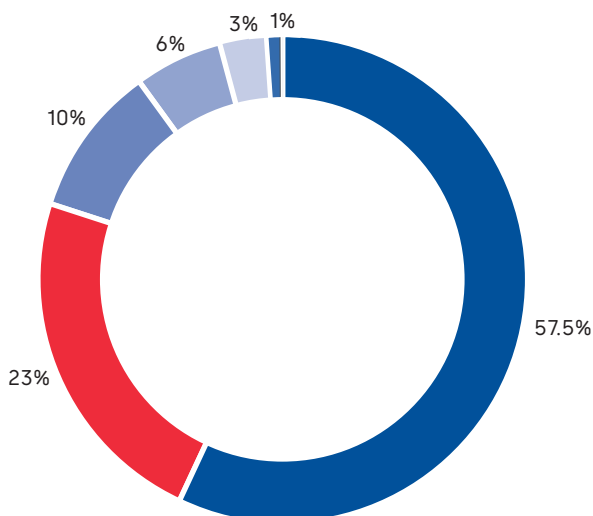
| Quality | Environmental | Occupational Health & Safety | Energy | Produced with green electricity |
|--------------------|---------------------|------------------------------|--------|---------------------------------|
| ISO 9001 certified | ISO 14001 certified | | | |

Product declarations

| Environmental Product Declaration | Health Product Declaration | Building Product Declaration | SuPIM Data Sheet |
|-----------------------------------|----------------------------|------------------------------|------------------|
| ✓ | | | |

Material used (%)

■ Steel ■ Fabric/carpet ■ Plastic ■ Wood ■ Other
■ Aluminium



The GWP¹ across the cradle-to-gate life cycle is 290 kg CO₂e per square meter

This is similar to the CO₂ produced from a roundtrip flight from Washington to Pittsburgh (600 km)



¹ Carbon dioxide equivalent (CO₂e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



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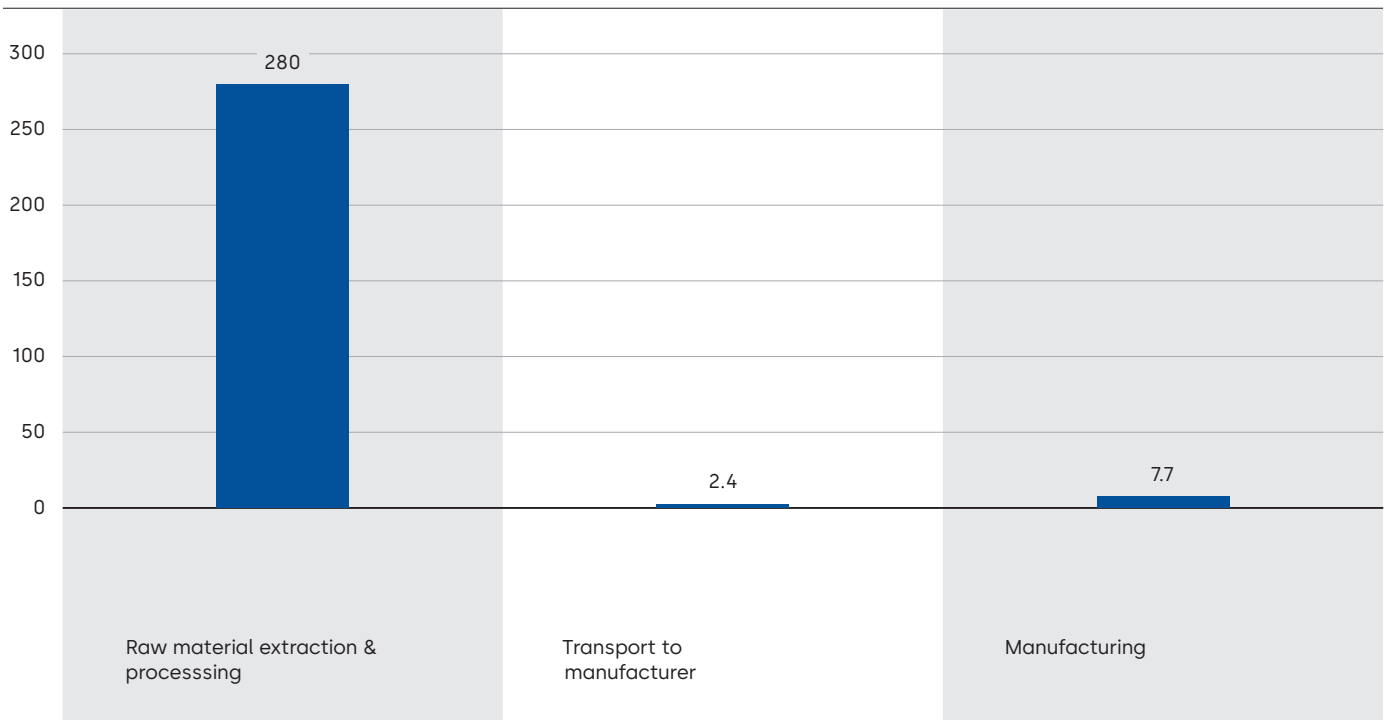
Scan the QR code or click here for more information about our sustainability product declaration.



Description

Modernfold Accordion systems doors are the industry standard for quality accordion doors and partitions. It's the clear choice when strength and durability are important and only sight division is required. Modernfold® partitions feature a durable steel frame construction, ball bearing trolleys and a wide choice of finish options. In addition to simple, straight "wall-to-wall" runs, Modernfold accordion partitions can be curved or even serpentine to meet your exact needs. The LCA results presented here are a summary of the TRACI LCA results of these six products. The scope of the assessment is cradle-to-gate.

Total Global Warming Potential per life cycle stage (kg CO₂e) per square meter



Operable Wall Applications for LEED

Modernfold understands the importance of LEED certification and welcomes the opportunity to build safe and sustainable buildings by aligning our products with the standards set by the U.S. Green Building Council.

Modernfold can assist with LEED requirements in many types of projects including schools,

hospitals, hotels, or offices. Our movable walls can contribute or comply with several LEED credit categories. The specific categories in which our products are evaluated will vary by the order due to the customizable nature of our products. The following list is an overview of specific credit categories in which Modernfold products can be evaluated.



Category: Materials and Resources

- Credit: Sourcing of Raw Materials
- Credit: Material Ingredient, Option 1 – Material Ingredient Reporting
- Credit: Environmental Product Declarations



Category: Indoor Environmental Quality

- Credit: Acoustic Performance
- Credit: Daylight
- Credit: Quality Views
- Credit: Low-Emitting Materials



Modernfold's Health Product Declarations, Environmental Product Declarations, and Indoor Advantage™ Gold certification are readily available and can be accessed on our website or from a local distributor.



Gain insights into the world of access

Offering a great selection of articles
discussing the latest trends and topics in
the industry.

Our experts are dedicated to exploring the most engaging stories about topics that shape the Access Industry. Topics that matter – from demographic changes, through the latest technological advancements to realizing the most incredible architectural visions.



blog.dormakaba.com

About dormakaba Group

dormakaba is a leading global provider in the access solutions market. The company reimagines access by setting industry standards for smart systems and sustainable solutions across the lifecycle of a building. Around 16,000 employees worldwide provide their expertise to a growing customer base in more than 130 countries.

dormakaba supports its customers with a broad, innovative portfolio of integrated access products, solutions and services that easily fit into building ecosystems to create safe, secure and sustainable places where people can move around seamlessly.

dormakaba is listed on the SIX Swiss Exchange and is headquartered in Rümlang near Zurich (Switzerland). It generated a turnover of CHF 2.8 billion in financial year 2021/22.

SIX Swiss Exchange: DOKA

dormakaba Holding AG
Hofwisenstrasse 24
8153 Rümlang, Switzerland

T: +41 44 818 90 11
info@dormakaba.com
dormakabagroup.com



dormakabagroup.com/en