



Insulated metal panel solutions | Walk-in coolers & freezers

# INSULATED METAL PANELS

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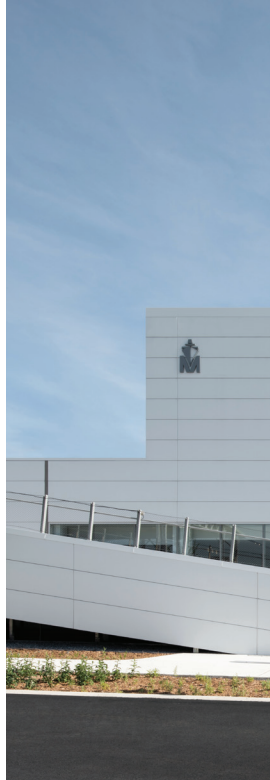
INSULATED SOLUTIONS  
FOR BUILDING ENVELOPE



DESIGNED TO COMBINE  
PERFORMANCE,  
DURABILITY AND  
AESTHETICS

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# WHO WE ARE

## NORBEC

Norbec is a North American leader in the manufacturing of cold rooms, doors and insulated metal panels for building envelopes.

## OUR MISSION

**Contributing to a sustainable world by manufacturing high-performance insulated solutions.**





# OUR ACTIVITIES REVOLVE AROUND 5 KEY VALUES



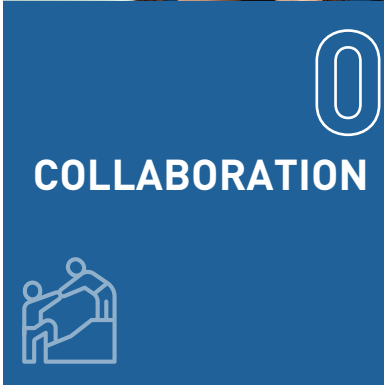
01

**CUSTOMER  
EXPERIENCE**



02

**RESPECT**



03

**COLLABORATION**



03



04

**COMMITMENT**



05

**INNOVATION**



« We focus on developing partnerships with our customers to ensure a complete offer, from project design to delivery, in addition to after-sales service. We are proud to be able to provide you with a turnkey solution for all your building envelope, interior partitioning, cold storage and door projects. »

**Jan Lembregts**

President & CEO at Norbec





## DISCOVER INSULATED METAL PANELS (IMPs)

Insulated metal panels (IMPs) are gaining popularity in the construction industry for several reasons, including their versatility and clean lines. The use of these products allows for increased efficiency on construction sites due to their quick installation and multiple assembly configurations. Not only do IMPs contribute to the construction of sustainable and eco-friendly buildings, they also give substance to your most creative ambitions.

## THE NEW WAY OF BUILDING

### OVERVIEW OF IMPs

**Norex** insulated metal panels are assembled by a fully automated manufacturing process, which ensures a high level of quality and consistency. They consist of two steel sheets cast with a liquid polyisocyanurate foam which causes a chemical reaction and expands to form the insulating core of these products. For fire protection, the panels are made of rock fibre insulated wool.

IMPs can be installed horizontally or vertically and are available in a wide variety of profiles, finishes, lengths and widths, for all types of projects.

Depending on the application, these products can be used for exterior envelopes or interior walls and ceilings.





# HOW DO IMP SYSTEMS OUTPERFORM CONVENTIONAL CONSTRUCTION METHODS

Thanks to intelligent and versatile state-of-the-art technology, continuous panels offer integrated, durable and aesthetically pleasing solutions for building construction. They are the most cost-effective cladding solution while meeting and even exceeding building code requirements.



## Speed of installation

One of the main advantages that makes IMPs an innovative and economical alternative is that they are installed in one easy step once they arrive at the construction site. Traditional constructions, can require up to eleven steps, which may result in longer installation times and some inconsistencies. Insulation boards are lightweight and require less time and labour.

**Installation time  
can be reduced by up  
to 50% when compared  
to multi-assembly  
systems.**

Insulated metal panels offer tailor-made, high-performance solutions. Their use is not only more efficient in terms of cost and time, it also allows you to be as creative as necessary for each project.

- Absence of cavities, moisture penetration, thermal bridges, risk of interstitial condensation or lack of insulation;
- Simplicity of construction;
- Savings due to predictable installation time, even during adverse weather conditions;
- Installation time can be reduced by up to 50% when compared to multi-assembly systems. This accelerated closure of the buildings making it possible to start interior work quickly;
- Wider intermediary spacing for structural cost savings.



# WHY CHOOSE NORBEC INSULATED METAL PANELS

## OUR OFFER

Norbec offers a complete range of building envelope solutions, combining insulation innovation and construction know-how. Norbec's commitment to its customers and its proximity to them is what sets the company apart from other manufacturers.



## PANEL WITH POLYISOCYANURATE CORE (POLYURETHANE)

**Norex** is an energy-efficient insulated panel for building envelope construction. Its core is composed of polyisocyanurate, a rigid insulation formed of a closed-cell expanded foam.

In addition to offering unparalleled thermal value, this panel also provides a protective barrier against rain, as well as resistance to tearing due to wind, thanks to its exclusive anchoring system. The joint integrates a decompression chamber that prevents water from being drawn inwards, reducing the risk of penetration and humidity. It is also possible to use **Norex** panels for interior partitions or as a suspended ceiling.

**Norex** panels are suitable for industrial and commercial buildings, food processing plants and controlled atmosphere or refrigerated environments.



## Features

- Higher thermal value per inch
- Superior insulating properties
- Built-in pressure balanced rain screen
- Exclusive system for anchoring to the structure
- Elimination of thermal bridges
- Increased wind and tear resistance
- Reduced installation time and costs
- Insulation and finishing : no extra steps

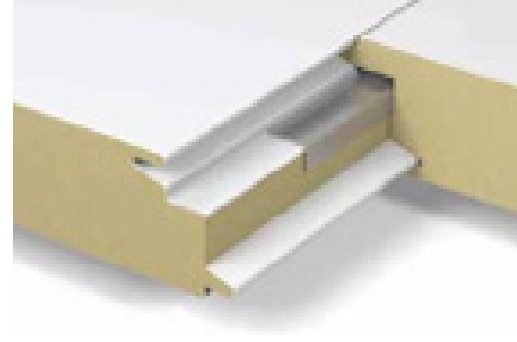




# STRUCTURAL PERFORMANCE

- › Superior panel stiffness compared to conventional envelope systems;
- › Norbec's proprietary fastener provides optimal anchoring strength to the structure;
- › This fastener is certified by the testing and certification organization FM Approvals to meet the FM 4881 standard;
- › The system optimizes the spacing of the structure's components;
- › The Norbec fastener is concealed to allow for an aesthetic installation without visible screws;
- › Fewer components are required to install the system, simplifying the process and reducing installation time.

Visit [norbec.com](https://norbec.com) for the latest updates.



Thanks to a quick follow-up and a vigorous technical support team, keeping peace of mind while opting for a superior quality exterior finish has never been so accessible. As a trusted partner, Norbec takes no risks and ensures that a 360-degree inspection and quality control of the panels is done before distribution and installation on site.



## MINERAL FIBER CORE PANEL (ROCK WOOL)

**Noroc** is a non-combustible insulation panel for the building envelope. Its core is made from components with superior fire-resistance properties, including rock fibre composed of natural basalt and recycled slag.

Its mineral fibre core is gaining popularity for government or institutional buildings such as hospitals, schools, or residences. **Noroc** is also known for its acoustic barrier, superior durability, thermal properties and water resistance. These panels can be used indoors or outdoors depending on the project specifications.



### Features

- › Harmonization with **Norex** products
- › Increased acoustic insulation
- › Thermal resistance stable over time
- › Built-in pressure-balanced rain screen
- › Exclusive system for anchoring to the structure
- › Elimination of thermal bridges
- › Increased wind and tear resistance
- › Insulation and finishing: no extra steps

Refer to the **Noroc** data sheet at [norbec.com](https://norbec.com) for more technical details.

### OUTSTANDING FIRE PROTECTION

4" = 45 minutes  
5" = 60 minutes  
6" = 120 minutes  
8" = 180 minutes



# SUPERIOR SEALING

- › Exceeds the most stringent building code requirements for air and water infiltration;
- › A building envelope made of IMPs has a limited amount of junctions compared to traditional construction methods, thus reducing potential sources of infiltration;
- › The double butyl gasket (interior and exterior) is factory installed to ensure consistency and reliability in the sealing system;
- › The gasket design features a cavity that simulates a pressure-balanced rainscreen system, a proven system in curtain wall design.

\*Visit [norbec.com](http://norbec.com) for the latest updates.

## IMPs CAN BE USED IN SEVERAL TYPES OF APPLICATIONS

**IMPs are suitable for many sectors of activity, both indoors and outdoors and are offered in a wide range of colours and finishes.**



## SECTORS

- › Commercial
- › Sports and entertainment centres
- › Governmental
- › Retail
- › Horticulture
- › Controlled atmosphere rooms
- › Cold storage
- › Agriculture
- › Industrial
- › Institutional
- › Food service (restaurants, catering, hospitality, etc.)
- › Other applications: Storage spaces, fisheries, aquatic centres, convenience stores, supermarkets, etc.



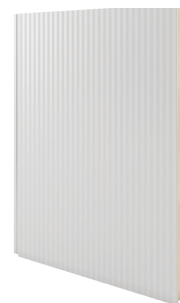
## ADDITIONAL DESIGN FLEXIBILITY

The complementarity of our lines and our constant commitment in research and development also make our product range the ultimate reference on the market and allow to offer endless design possibilities.

Let your creativity express itself by creating spectacular environments !

# BE CREATIVE

## PROFILES



**Silcline (striated)**



**Micro-ribbed**



**Fluted**

## YOUR CREATIVITY ENCOUNTERS NO LIMIT WITH NORBEC'S IMPs

### Colours and finishes

The panels can be installed vertically or horizontally depending on the creative direction. The panels can also be profiled to bend at corners, giving a continuous look to the project. IMPs can be cut to different angular shapes to match the building design or to adapt to the desired window shapes.

In addition, insulated metal panels are available in different textures and a wide variety of colours to create interesting contrasts. Once the colours have been chosen, it is possible to form a specific geometric profile or pattern in the steel before assembling the panel or to add an embossed finish.



Refer to the Colour Guide at [norbec.com](http://norbec.com) for our complete selection of available colours, profiles and finishes.

# ARCHITECTURAL ELEMENTS



If more versatility is desired, integrated elements can be added to the panels to allow even more creative expression. Films can be printed and then installed on the panels without damaging them. Aesthetic possibilities are unlimited thanks to the addition of decorative facings and architectural elements such as ceramics, aluminium and masonry.

Whether in sections, overlays or even wood accents, these additions create a meaningful concept for the building. All of these applications are installed using supports, guaranteeing high-performance anchoring points while allowing architects to design distinctive creations.





# BE INSPIRED BY OUR PROJECTS

OUR RANGE OF  
PANELS OPENS  
THE WAY TO AN  
INFINITE NUMBER  
OF POSSIBILITIES  
ADAPTED TO YOUR  
PROJECTS.









# YOUR ECOLOGICAL CONNECTION STARTS WITH NORBEC'S INSULATED METAL PANEL LINES.

## A GREEN DIRECTION



### Optimising the flow of energy to reduce consumption.

Norbec makes sure to contribute to the construction of a sustainable building thanks to the quality of its materials and the superior insulating properties of continuous panels. From design to installation, Norbec's IMP solution offers high energy efficiency and significant short- and long-term cost savings. Continuous improvement of products and processes is a priority at Norbec in order to offer a high-performance, reliable and durable building envelope that meets customers' needs and adapts to the latest innovations.

Norbec is committed to transparency in the management of its operations and to adhering to project audits, thus ensuring that each building is built according to a green and efficient cycle.

### LEED® : the international mark of excellence and achievement in sustainable building.

Norbec meets LEED® v4 standards, the framework and reference for the next generation of green buildings. This certification is proof of Norbec's participation in the construction of energy-efficient buildings since they cost less to operate, reduce water and energy bills by up to 40%, and increase employee productivity and overall occupant satisfaction\*. Through this certification, the company is equipped with the tools it needs to have an immediate and measurable impact on building performance.

Norbec is proud of its product's contribution to the LEED® v4 system because synchronizing with its benchmarks allows for the reduction of GHG (greenhouse gas) emissions associated with building construction and operation, in addition to contributing to human health. Optimized operations on the ground will free up valuable resources that can then be used to create new jobs, attract and retain the most talented employees, invest in emerging technologies and much more - a winning formula for the well-being of our people.

### Environmental Product Declaration (EPD) : An approach stemming from various European obligations, integrated into an ISO international standard.

Norbec ensures that all stakeholders involved in projects will benefit from the financial advantages of this sustainable building design. The Environmental Product Declaration, or better known as EPD, issued to the manufacturer is further proof of its environmental respect and social integrity. Once again, Norbec agrees to be transparent in these various processes in order to see its products installed in certified sustainable buildings and considerably reduce its environmental impact.

The company affirms its participation in projects offering high energy gains throughout their life cycle and is mobilizing to meet the government requirements and maintain its practices. The EPD form includes a systematized analysis according to the ISO 14040 series of standards, where the stages of a product's life cycle are studied. Implementing this green solution also involves carrying out ecological assessments of resource use, environmental consequences such as greenhouse gas emissions and waste production\*\*.

\*\*To learn more about Norbec's eco-declaration, its product's contribution to the LEED® v4 system and other emission tests, please consult **Norex** and **Noroc**'s environmental data sheets at [norbec.com](http://norbec.com).




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For more information about Norbec products,  
please visit [norbec.com](https://www.norbec.com).

A low-angle, upward-looking photograph of a modern building's facade. The building features a series of vertical, ribbed panels that create a strong sense of height and architectural detail. The sky is a clear, deep blue. The image is partially obscured by a white text box at the bottom.

The information provided in this document reflects the data available at the time of printing. However, please note that in accordance with Norbec's product improvement policy, we reserve the right to make changes at any time without notice.