Protected by Morin By Kingspan WARRANTY

Architectural Metal Wall Systems
North America

Data Centers & Power Generation Product Guide

Façade, screening, and acoustic wall systems



PLANET PASSIONATE

Morin® By Kingspan



We Are Your Global Partner

Morin is part of Kingspan Group. Founded in Kingscourt, Co. Cavan, Ireland, in 1965, Kingspan is a global leader in the design, development, and delivery of advanced building envelope products and solutions.

That global strength stands behind every Morin data center project, from a single screen wall to a multi-building campus with integrated power generation.

80+
countries worldwide

278
manufacturing sites

9.2
billion euros in revenue

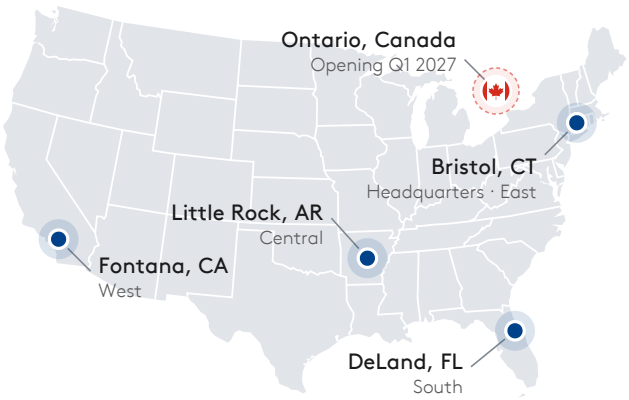
29,000+
employees

65+ Years of Manufacturing Excellence

Morin
By Kingspan

Morin is a leading manufacturer of architectural metal wall and roof systems, with a portfolio of more than 100 profiles and an expanding range of integrated building envelope solutions. From architectural cladding and equipment screening to complete wall assemblies and acoustic systems, Morin delivers solutions for the evolving demands of modern construction.

With four manufacturing facilities strategically located across the United States, Morin has a combined annual production capacity exceeding 50 million square feet, supporting projects of every scale.



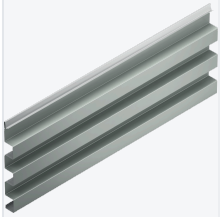
One partner. **Multiple solutions.**

From architectural façades to integrated wall assemblies, Morin provides a comprehensive portfolio of solutions designed to address the structural, environmental, and operational requirements of data center facilities.



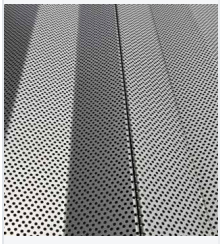
Acoustic System

Integrated acoustic wall assemblies engineered to address noise management requirements associated with power generation and mechanical equipment, supporting the operational needs of data center facilities.



Architectural Wall Panels

An extensive range of concealed fastener profiles offering design flexibility, distinctive textures, and a wide selection of colors and finishes to enhance the architectural character of data center façades.



Perforated Panels

Customizable perforated and open-profile panels that integrate architectural design with functional screening, providing equipment concealment while accommodating airflow and ventilation requirements.



Exposed Fastener Panels

A versatile range of cost-effective metal profiles, available in varying widths and depths, designed for efficient installation and integration with a variety of wall assemblies.

Applications

The Data Center Campus



From architectural façades and equipment screening to noise reduction acoustic systems for power generation and support facilities, Morin delivers integrated metal wall solutions that address the architectural, functional, and operational requirements of modern data center campuses.



A Heritage in Power

Decades of power generation

For decades, Morin panels have clad generating stations, cooling towers, and turbine halls for utilities and engineering firms across the country and abroad, including noise reduction acoustic assemblies for power plants. Today, as data centers build their own power on site, Morin brings that experience to every campus.



From the Morin archive

Generating stations clad in Morin panels





Plants served

- Nuclear stations
- Coal-fired stations
- Combined-cycle plants
- Cogeneration facilities
- Resource recovery facilities
- University power plants

Proven in power

Several of these plants paired an Exposed Y-36 exterior with a perforated liner panel. The same principle now drives Morin's Acoustic System, built for on-site power at data centers.

01 Power Generation

Acoustic System

Loud by design. Quiet by Morin. Generators, chillers, and turbines run around the clock under local noise limits. The Morin Acoustic System is a noise reduction acoustic assembly that combines non-combustible materials and a finished Morin façade in one through-wall system.



Anatomy of the wall

Interior to exterior

- Acoustic perforated liner
- Mineral wool acoustic insulation
- 18 GA solid steel septum
- Mineral wool insulation board
- Morin panel cladding

Acoustic performance

Contact the Morin team for acoustic performance testing information.

- Noise reduction
- Non-combustible materials
- Single-source efficiency
- Durable protection

Custom solutions

We also work with owners and developers to craft and customize solutions for each project.

02 Façades & Entrances

Architectural Wall Panels

Entrances and street-facing façades are where a data center campus makes its first impression on the community. Because Morin's Matrix, Integrity, and Pulse Series share a common joint, profiles can be combined on a single wall to create depth, rhythm, and a distinctive architectural expression.



100+
Architectural metal profiles

6″–18″
Variable panel widths

5′–30′
Standard panel lengths

One joint, three series

Mix and match on one façade



Matrix



Bold box rib configurations, as well as flat panels with varying reveal widths for maximum design flexibility.



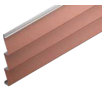
Integrity



A consistent 7/8″ depth with an asymmetrical box rib in varying configurations, for a minimalist façade.



Pulse



Triangular ribs that emulate the electrical peaks generated by a heartbeat.

Designed for architectural integration

Data center campuses are increasingly held to community design standards, especially where buildings face public roads. Morin's range of profiles, materials, and finishes supports cohesive façades, articulated entrances, and project-specific requirements.

Our technical team supports each design with:

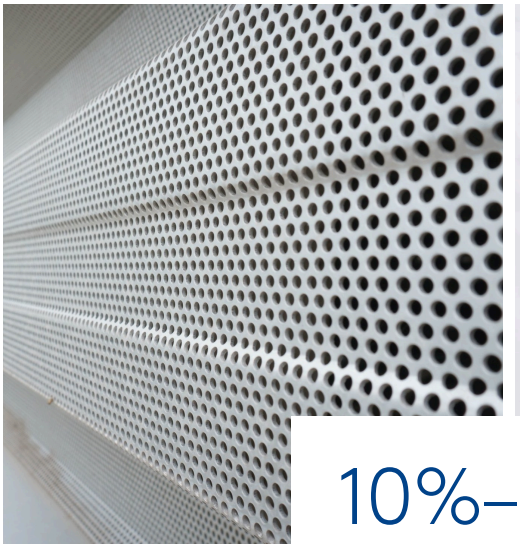
- BIM and CAD files
- 3D details
- Engineering resources
- Visualization tools

Explore architectural wall panels | morincorp.com →

03 Screening & Fencing

Perforated Panels

Generators, chillers, and switchgear need open air and easy access, yet communities would rather not see them. Perforated Morin panels screen equipment on rooftops, along building sides, and at the site perimeter while keeping airflow open.





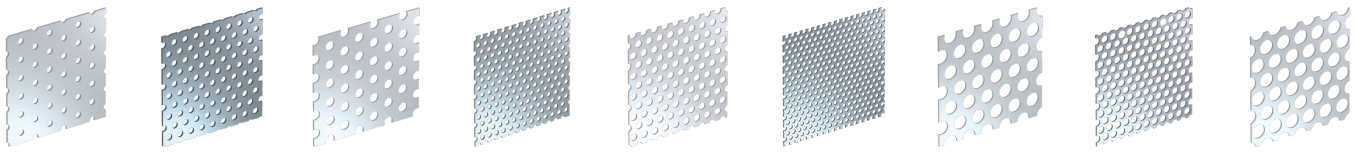
10%–51%
Open area range

9
Standard perforation patterns

3
Suggested metals: aluminum, stainless steel, and zinc

Choose your screening level

Shown at representative scale



← More screening

More airflow →

Designed for screening and airflow

All Morin profiles are available perforated. Material is painted before perforating, and all perforating is done in-house to help control cost, quality, and lead time.

Custom patterns are available, and physical samples can be provided upon request.

Explore perforated panels | morincorp.com →

04 Data Hall Walls

Exposed & Concealed Fastener Panels

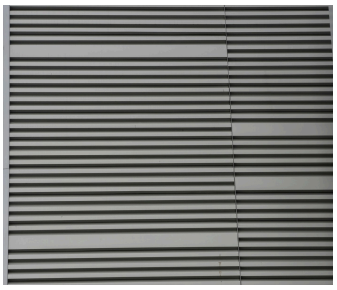
Data halls account for the largest wall areas on any campus. Morin exposed and concealed fastener panels clad these long elevations efficiently, with options to suit every budget, and integrate with the wall assemblies already specified for the project.



Panels for every wall

Horizontal or vertical application



An easy addition to any project

Morin panels integrate with a wide range of wall assemblies and sub-framing systems, making them a simple addition to any data center specification, from a single data hall to a multi-building campus.

Find the right panel for your enclosure

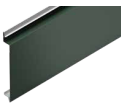
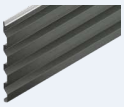
Our team will help you select the best profile, finish, and attachment for your data hall walls, with details, samples, and engineering support along the way.

Contact Morin | morincorp.com →

Product Selection Guide

Our most commonly used data center profiles and colors

Shown as a guide, not a limit: any Morin profile or finish can be specified, and every profile is available perforated.

	Profile	Depth	Cover width	Fastening	Most common use: 01 Power	02 Façades	03 Screening	04 Data halls
	**Acoustic System** Integrated wall assembly	8″–12″	12″–18″	Through-wall assembly	✓	—	—	—
	**Flat Panels** MX-0 · MX-6	1 1/2″	12″ nominal MX-0: 6″–18″	Concealed clip	—	✓	—	✓
	**Integrity X-16** Integrity Series	7/8″	16″	Concealed clip	—	✓	—	—
	**Matrix MX-1** Matrix Series	1 1/2″	12″	Concealed clip	—	✓	—	—
	**Exposed Y-36** Exposed Fastener Series	1 1/2″	36″	Exposed fastener	—	—	✓	✓
	**Exposed O-24-E** Exposed Fastener Series	4″	24″	Exposed fastener	—	—	✓	—

Standard data center colors

Chromium Gray	Silversmith	Dove Gray	Weathered Zinc	Medium Gray
SR 0.48 · E 0.85 · SRI 54	SR 0.53 · E 0.82 · SRI 60	SR 0.47 · E 0.86 · SRI 53	SR 0.35 · E 0.86 · SRI 37	SR 0.36 · E 0.85 · SRI 38

All five are 70% PVDF Fluropon® finishes that meet or exceed rigorous ASTM performance standards. Accent, wood-grain, textured, and custom-matched finishes are available to set a façade apart. Colors shown are representative; physical samples are available upon request.

Partner with Morin

Design support, technical expertise, and testing

Data center campuses move fast. Morin works alongside owners, architects, engineers, and contractors from early design through installation, with the right people at every step.

Design support

BIM and CAD files, 3D details, and visualization tools, from concept to approval.

Technical support

Engineering resources and project-specific details from Morin's technical team.

Testing

Contact the Morin team for testing information specific to your project.

Customer service

Samples, quotes, and scheduling, coordinated with your project timeline.

Installation training

Mockups and installer training, coordinated with the Morin team.

Warranty

The full Acoustic System wall assembly, warranted by Morin.

PLANET PASSIONATE

Planet Passionate is Kingspan's global sustainability program, with targets across energy, carbon, circularity, and water. Morin also provides Environmental Product Declarations (EPDs) and Health Product Declarations (HPDs) for full product transparency. See all certifications at **morincorp.com/certifications**.

60%
direct use of renewable energy by 2030

15%
lower CO_2 intensity from key raw materials by 2030

1.5M
tonnes of recycled and renewable raw materials used per year by 2030

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