



## Bombardier installs over 100 Megadoors since 1997

**Client:**  
Bombardier Aerospace  
[Bombardier.com](http://Bombardier.com)

**Statistics:**  
Over 100 Megadoors  
installed since 1997

**Locations:**  
Dorval, QC Canada  
Mirabel, QC Canada  
Wichita, KS USA  
Querétaro, Mexico  
Singapore

### Background

Bombardier Aerospace is a world leader in the design, manufacturing and support of aircraft for the business, commercial, specialized and amphibious markets. They are headquartered in Montréal, Canada and employ over 30,000 people in a global manufacturing base. Bombardier has the most comprehensive aircraft portfolio and holds the number one position in business and regional aircraft.

Since 1997, Bombardier Aerospace has installed over 100 Megadoors at five different manufacturing centers around the world. The relationship began when Bombardier's Facility Manager in Dorval, Québec Canada contacted ASSA ABLOY searching for alternative hangar door systems that would work reliably in the Montréal winters. The Facility Manager liked the Megadoor concept, but was somewhat skeptical about the door technology and wanted to visit a nearby installation.

So, the Facility Manager and a team of engineers visited the Megadoor system at an Air National Guard base. After seeing the door in action and listening to the base civil engineer describe how pleased they were with the Megadoor performance in the cold, snowy winters, they decided to specify Megadoor for a project.

Bombardier was so impressed that they decided to install nine Megadoor systems on their new Completion and Delivery Center in Dorval where customers receive their new Challenger or Global Express jets. As Bombardier's production facilities in Dorval expanded, they continued to specify Megadoors. The facility designers were eager to

take advantage of the more compact and efficient designs that the vertical lifting Megadoor makes possible. The operations managers were extremely happy with the energy efficiency and reliability of the Megadoor during the cold winter months. Therefore, the next facility expansion in 1999 for the production of Challenger Aircraft in Dorval incorporated nineteen Megadoor systems. In 2000, Bombardier constructed the Mirabel facility for production of their commercial regional jets.

This facility incorporated twenty six 3-part Megadoor systems for all aspects of production. Megadoor continues to be a proud supplier of large door systems at Bombardier's manufacturing facilities around the world.

### Critical issues

- **Cost Effective Facilities** – Invest in modern, efficient facilities that maximize production while minimizing capital investment and operational costs.
- **Cold Weather Performance** – The door must operate reliably in harsh winter conditions and not impede production flow.
- **Energy efficiency** – Cost-effectively climate-control the hangaring the cold winter months, to provide a comfortable working environment for technicians.
- **Service** – Local and factory life cycle support, to minimize costs from production interruptions and maintenance.
- **Aesthetics** – Provide a door system that complements the stylish and modern image that Bombardier cultivates.



## Benefits:

- **Space Savings** – Megadoor systems require virtually no side room, enabling architects to place individual production bays directly adjacent to each other. In addition, the Megadoor operates in a vertical plane, so ramp space in front of hangars can be minimized as compared to hydraulic or tilt-up doors, which require a no parking safety zone in front of the hangar door. Together, these features enable architects and process engineers to design compact facilities that maximize return on investment through lower capital investment, facility maintenance, energy costs and production material handling.
- **Cold Weather Performance** – Megadoor understands that if a door does not open when required, it can delay production and customer deliveries with huge financial consequences.

Originally developed near the Arctic Circle, in Northern Sweden, the Megadoor has earned the reputation over the last 40 years as the best cold weather door on the market for large openings. Since Megadoor systems operate vertically, they do not need floor tracks, required by bottom rolling doors, which commonly fill with ice during winter months, hindering operation.

Also, since the system operates vertically in the same plane, you do not need to plow the snow in front of the door before opening it, as required by bi-fold or canopy doors. Ice does not accumulate on the Megadoor exterior surface as it does on conventional doors, because as the door fabric flexes in the wind or folds during operation, the ice just flakes off. Lastly, the Megadoor will not freeze to the ground like other door systems that can be severely damaged if forced open while locked in ice.

- **Energy Efficiency** – With over 100 Arctic and Antarctic installations, the Megadoor has proven to be the most energy efficient hangar door in the world. 80% of energy loss on a closed hangar door is attributed to air infiltration around poor seals. With its dramatically superior seals, the Megadoor reduces this air infiltration more than any other door.

In addition, the vertically operating Megadoor systems are faster than other hangar systems, enabling Bombardier to quickly open and close a Megadoor for aircraft production movements. This minimizes the loss of conditioned air, keeping the technicians comfortable and accountants happy.

- **Life Cycle Support** – ASSA ABLOY is proud to have built the world's largest network of independent and company owned distributors and service providers in the large hangar door industry. In addition, we support our distributors and end-users with 24-hour technical assistance, expedited parts delivery and travelling technicians.
- **Aesthetics** – The clean lines of the Megadoor complement modern architecture, distinguishing it from the common hangar door. The systems were chosen to enhance the customer experience of the stylish Challenger and Global Express delivery centers where owners receive their new jets.

**For more information about this product, please contact: (800) 927-6342 or [sales.us.megadoor@assaabloy.com](mailto:sales.us.megadoor@assaabloy.com)**

