

Direct from Factory to Canada: China Leading Aluminum Sliding Windows Meeting ENERGY STAR Standards for Canada Projects

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Energy Performance Ratings
Évaluation des propriétés énergétiques

U-Factor Facteur-U 1.02 <small>W/m²·K</small>		Solar Heat Gain Coefficient Coefficient de gain de chaleur solaire 0.18 <small>(0.16 to 0.29)</small>		0.37	
Energy Rating Rendement énergétique 42		Visual Transmittance Transmission visible 0.51			

Guangdong Dejiyoupin Doors and Windows Co., Ltd

104 Series Fixed Window Aluminum frame,

triple glazo, Low-e coating(e=0.158, s2, s4)

Argon/air filled (both cavities),

NR14320-48528996-ES5



Energy performance and visual transmittance ratings certified to CSA A440.2-19. Ratings are determined for a fixed set of environmental conditions and a specific product. Certification agency does not recommend or warrant product for any specific use.

Les taux de performance énergétique et de transmission visible sont certifiés CSA A440.2-19. Les taux sont déterminés selon une série de conditions environnementales fixes et une taille de produit particulière. L'agence de certification ne recommande ni ne garantit le produit aux fins d'utilisation particulière.

Foshan, Guangdong Apr 14, 2026 ([IssueWire.com](https://www.IssueWire.com)) - In the evolving landscape of sustainable architecture, the demand for high-performance building envelopes has never been greater. For Canadian construction projects, where extreme seasonal temperature fluctuations are the norm, selecting the right window system is a critical decision that impacts both energy efficiency and long-term structural integrity. As a [China leading aluminum sliding Window Factory](#), DERCHI Doors and Windows has emerged as a pivotal player in this global supply chain, bridging the gap between advanced manufacturing and the rigorous thermal requirements of North American climates. By aligning large-scale production capabilities with internationally recognized energy benchmarks, the journey from factory floor to Canadian jobsites represents a masterclass in modern industrial synergy and technical precision.

Step 1: The Foundation of Excellence – Advanced Manufacturing and Scalable Capacity

The journey begins within the walls of a facility designed for precision. To serve as a high quality aluminum sliding window supplier for the international market, a manufacturer must possess more than just basic assembly lines; it requires a sophisticated integration of research, development, and massive production capacity. DERCHI, recognized as a "China Famous Brand" by Xinhua News Agency, operates on a scale that ensures consistent quality regardless of order volume.

Achieving the standards required for Canadian projects starts with the raw materials. The factory utilizes high-grade primary aluminum alloys, which provide the structural rigidity necessary for large-scale sliding systems while maintaining slim, modern profiles. In the production phase, automated CNC machining ensures that every frame component is cut and milled to sub-millimeter tolerances. This level of accuracy is non-negotiable when the goal is to create an airtight seal that can withstand the howling winds of a Canadian winter. For developers, partnering with a leading aluminum sliding window factory means gaining access to a streamlined "factory-to-project" model that eliminates middleman costs while maintaining the highest levels of craftsmanship.

Step 2: Engineering for Efficiency – Meeting the ENERGY STAR Mandate

Transitioning from a standard window to one that meets ENERGY STAR standards requires a deep dive into thermal engineering. The core challenge for aluminum windows has historically been the metal's natural conductivity. To overcome this, DERCHI utilizes advanced thermal break technology—inserting reinforced polyamide strips between the interior and exterior aluminum profiles to effectively "break" the path of heat transfer.

However, the frame is only part of the equation. The glass package is where the most significant energy gains are made. For the Canadian market, these sliding windows are equipped with triple-pane insulated glass units (IGU), featuring Low-E (low-emissivity) coatings and argon gas fills. This configuration reflects interior heat back into the room during winter while blocking solar heat gain during the summer. Combined with premium hardware systems that ensure a multi-point locking mechanism and tight compression seals, these products achieve the U-factor ratings necessary for ENERGY STAR certification. This commitment to technical excellence is what defines a premium aluminum sliding window brand in a competitive global landscape.

Step 3: Global Compliance and the Logistics of Trust

Shipping high-end architectural products across the ocean involves more than just loading containers. To successfully navigate the transition from a factory in China to a construction site in Canada, a manufacturer must demonstrate verified compliance through rigorous certification. Having earned the ENERGY STAR mark, DERCHI provides Canadian builders and homeowners with the documented assurance that their products will perform as promised under local building codes.

Beyond energy ratings, the "[Aluminum Sliding Window Service](#)" extends into the realm of international logistics and customs documentation. A professional manufacturer handles the complexities of NFRC (National Fenestration Rating Council) standards and ensures that all structural and water penetration tests are up to date. This proactive approach to certification simplifies the import process, allowing the products to clear customs efficiently and arrive at the project site without the delays often associated with uncertified imports. It is this marriage of industrial power and regulatory fluency that allows a China leading aluminum sliding window factory to serve as a reliable partner for North American developers.

Step 4: Innovation and Differentiation in a Crowded Market

What allows a brand to stand out in the vast global market? It is the continuous investment in technical innovation. Products like the 80Z sliding window series or the E3T technical configurations represent the pinnacle of functional design. These systems are not merely functional; they are engineered for the "user experience" of the occupant. This includes "ultra-quiet" track designs that allow massive glass panels to slide with the touch of a finger, and integrated drainage systems that prevent water ingress during torrential rains.

A high-quality aluminum sliding window supplier must also offer aesthetic versatility. In Canadian urban developments, architects often demand specific powder-coated finishes or fluorocarbon paints that can resist UV degradation and salt spray. By offering a bespoke approach to high-end manufacturing, the factory ensures that the windows contribute to the building's architectural identity as much as they do to its thermal performance. This level of customization, backed by large-scale production efficiency, creates a unique value proposition that few local manufacturers can match in terms of price-to-performance ratio.

Step 5: On-Site Impact – From Delivery to Performance

The final step of the journey occurs when the windows are installed in their permanent home. Whether it is a high-rise residential complex in Vancouver or a modern commercial space in Toronto, the impact of professional-grade aluminum windows is immediate. Once installed, the "Aluminum Sliding Window Service" manifests in the tangible comfort of the occupants. The high thermal resistance reduces the load on HVAC systems, leading to lower utility bills and a smaller carbon footprint for the building.

Furthermore, the durability of high-grade aluminum ensures that these windows will remain functional for decades with minimal maintenance. Unlike vinyl or wood, which may warp or rot in harsh climates, the structural integrity of a DERCHI window remains constant. The successful completion of various international projects serves as a testament to the reliability of this "Factory to Canada" pipeline. In the end, the project benefits from a world-class product that meets the highest environmental standards while providing the sleek, expansive views that modern sliding window designs are famous for.

Summarize: The Synthesis of the "Factory to Canada" Journey

The transition from a state-of-the-art production line in China to a high-performance building in Canada is more than a simple logistical movement; it is a meticulously engineered pipeline of quality, compliance, and cross-continental collaboration. This journey represents the successful integration of Eastern manufacturing prowess with Western environmental mandates. It begins with a vision of precision—where raw aluminum is transformed through automated CNC technology—and moves through a rigorous gauntlet of thermal engineering to meet the ENERGY STAR criteria.

The "Factory to Canada" route is paved with rigorous testing protocols, ensuring that the air infiltration, water resistance, and U-factor ratings align perfectly with the National Building Code of Canada. By navigating the complexities of international certifications and NFRC standards, the factory removes the traditional barriers of global sourcing. This allows Canadian developers to access a **High Quality Aluminum Sliding Window Supplier** that offers the pricing advantages of a direct factory model without sacrificing the peace of mind provided by local compliance.

Ultimately, this journey concludes with a transformation of the built environment. When these windows arrive on-site, they bring with them the heritage of a **China Famous Brand** and the innovation of modern thermal break technology. They are not just components; they are the frontline defense against the Canadian elements. The success of this journey is measured in the silence of a quiet room, the warmth of a home in sub-zero temperatures, and the enduring aesthetic of a modern facade. By choosing a dedicated **Aluminum Sliding Window Brand**, clients secure a partnership that values performance as much as it values the journey itself.

For more information on high-performance window solutions and global project examples, visit the official website: <https://www.dejiypwindow.com/>



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