



**Contact: Sophie Weckx**  
**+352 28 111 210**  
**[sweckx@guardian.com](mailto:sweckx@guardian.com)**

**Contact: Siria Nielsen**  
**+31 164 317 036**  
**[snielsen@emq-pr.com](mailto:snielsen@emq-pr.com)**

## **Guardian Glass introduces the future of dynamic shading with blackout at the touch of a button for windows and doors**

**Bertrange, Luxembourg, October 23, 2018** – Guardian Glass has developed a new, cost effective, reliable, integrated shading solution for windows and doors. Guardian Glass is proceeding with plans to construct a pilot facility in Europe to launch the product, which is expected late in 2019.

The patented solution is unlike any other shading product currently available. Initially targeted for residential windows and doors, Guardian's solution will initially be available in a fully integrated 'blackout' shade version, followed by privacy and solar glare control versions.

### **How does it work?**

The solution is clean, adaptable and is completely self-contained within a double or triple insulating glass unit (IGU). With no mechanical parts, this new shade solution isn't subject to the same mechanical failures commonly seen with other integral blind solutions. The shade is activated in seconds by passing a small current through the conductive layers creating an electrostatic attraction between the ultra-thin shade and the glass surface. With extremely low power demands, the technology does not need to be hard-wired into the main power supply but can be battery-powered, with solar-powered recharging already under development.

The shade is perfect for home today and tomorrow: it can be activated by a manual switch, remote control or through connected smart home technologies. Through automated control, the shade can be set up to respond to changes in external lighting or temperature conditions for a more comfortable environment. The shade can even be adapted to suit irregular-shaped glass in windows and doors.

Sheldon Davis, Vice President of Science, Technology and Innovation at Guardian Glass, comments: "This solution from Guardian is truly groundbreaking in terms of glass innovation – the technology is both new and unique to the glazing market. This new shading solution is cost effective compared to other in-glass shading solutions, has very low power consumption requirements and provides a very low solar heat gain when deployed.

We see huge potential for this solution primarily in residential windows, doors, privacy glass for bathrooms and bedrooms, skylights and entry doors, but eventually in commercial applications, as well. What's equally important is that the solution will still allow our customers to meet all relevant building regulations and energy codes for glazed applications."

Davis continues: "Alternative blackout shade products such as integrated blinds, external shades, roof window shades and internal shades [made-to-order curtains and blinds] suffer from high purchase and installation costs, are difficult to manufacture and have a reputation for failing and not providing full blackout functionality."

"Our dynamic shading solution allows users to control the glass, which itself becomes more than a barrier between users and their external environment. Instead, it provides them with solar and glare control capabilities at the push of a button or via an app. Our solution also will create new opportunities for glass processors and installers in the future, who will be able to participate in a new, innovative shading solution that adds value to their own product offerings."

Guardian Glass is showcasing its new dynamic shading solution at glasstec – Hall 10 | STAND A24 (23-26 October 2018 – Düsseldorf, Germany).

### **Guardian Glass**

Guardian Glass, a major business unit of Guardian Industries, is one of the world's largest manufacturers of float, coated and fabricated glass products. At its 25 float plants around the globe, Guardian Glass produces high performance glass for use in exterior (both commercial and residential) and interior architectural applications, as well as transportation and technical products. Guardian glass can be found in homes, offices, cars and some of the world's most iconic architectural landmarks. The Guardian Glass Science & Technology Center continuously works to create new glass products and solutions using the most advanced technology to help customers *See what's possible*<sup>®</sup>. Visit [guardianglass.com](http://guardianglass.com).

### **Guardian Industries**

Guardian Industries, a global company headquartered in Auburn Hills, Michigan, employs around 18,000 people and operates facilities throughout North America, Europe, South America, Africa, the Middle East and Asia. Guardian companies manufacture high-performance float, coated and fabricated glass products for architectural, residential, interior, transportation and technical glass applications, and high-quality chrome-plated and painted plastic components for the automotive and commercial truck industries. Guardian's vision is to create value for its customers and society through constant innovation using fewer resources. Guardian is a wholly owned subsidiary of Koch Industries, Inc. Visit [guardian.com](http://guardian.com).

This press release can be downloaded from [www.PressReleaseFinder.com](http://www.PressReleaseFinder.com).