

Guardian Glass introduces Guardian Nexa™, a lower-carbon float glass, to Europe

Bertrange, Luxembourg – January 9, 2024 – Following successful pilot production runs, Guardian Glass is introducing a lower-carbon float glass to the European market. The new lower-carbon float glass, Guardian Nexa™, can also be used as a base glass or laminated glass for Guardian high performance products, including the Guardian SunGuard™ and the Guardian ClimaGuard™ ranges of coated glass products.

Guardian Nexa glass, developed through research and development, technical innovation and manufacturing expertise, can be used in a wide range of building facade applications and will help to reduce the embodied carbon of the built environment. When compared to our standard float glass production, the benefits of Guardian Nexa glass include:

- Reduced embodied carbon by more than 30% to approximately 7.0 kg CO₂e/m² for 4mm float glass*
- Higher cullet content – from both internal and external sources
- No compromise on performance and aesthetics, similar to Guardian ExtraClear™ float glass

Environmental Stewardship

At Guardian Glass, we strive to improve both the environmental performance and effectiveness of our manufacturing processes and of our products, while consuming fewer resources. This involves considering each stage of the process, including the sourcing of raw materials and the efficiency of our furnaces. Taking this approach has enabled us to achieve the results that we have with Guardian Nexa.

Guus Boekhoudt, Guardian Glass Executive Vice President commented: "This is a significant accomplishment by our R&D and operations teams, achieved through a combination of ongoing innovation in manufacturing processes and the optimization of cullet use. It reflects our dedication to our Environmental Stewardship priorities, including improving energy efficiency and air emissions, and managing resources responsibly."

Environmental Product Declaration availability

Detailed environmental data on Guardian Nexa will be documented through an Environmental Product Declaration (EPD). This is currently under development and is expected to be available in Q2 2024. Since 2021, the scope of the EPDs for Guardian Glass products in Europe has been widened to consider CO₂ emissions generated from production processes, increasing the level of transparency provided to customers.

For information on the availability of Guardian Nexa, please contact a local Guardian Glass sales representative or visit guardianglass.com.

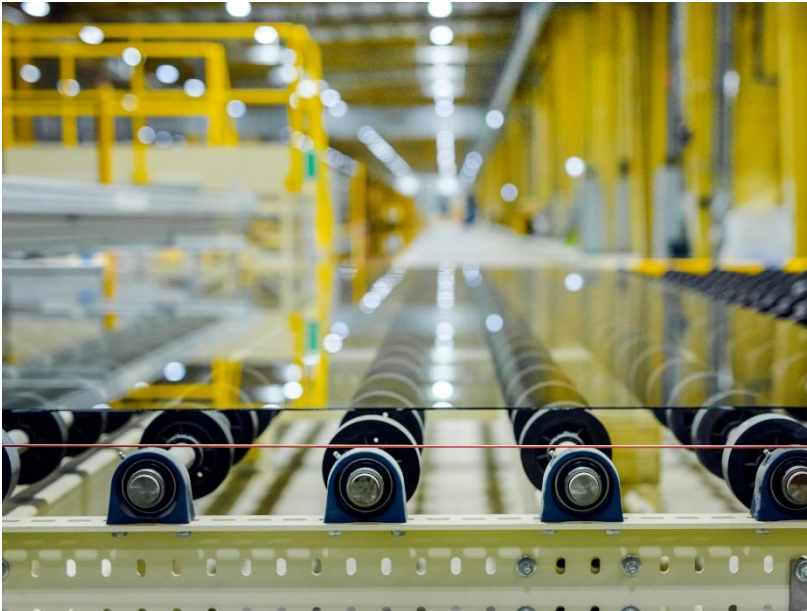
* The embodied carbon reduction has been calculated comparing the estimated value for 4 mm Guardian Nexa glass, and the value for 4 mm Guardian ExtraClear glass produced in Europe. The embodied carbon data is the CO₂ equivalent in kg per square meter of glass (CO₂ eq.), emitted during the glass production (A1-A3), and was calculated using a standard 4 mm thickness, not the actual glass thickness. The calculation is an estimation based on the material's Embodied Carbon Factor (ECF) derived from the Regional EPD, third-party, independently verified document that communicates transparent information about the lifecycle environmental impacts of a product. The A1 – A3 stages include the environmental impacts from the raw materials extraction and processing stage, raw materials transportation to the manufacturing site, and the manufacturing of the product.

About 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 24 float lines 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 Development & Technology continuously works to create new glass products and solutions using the most advanced technology to help customers see what's possible™. Visit guardianglass.com.

About Guardian Industries

Guardian Industries, a global company headquartered in Auburn Hills, Michigan, operates facilities throughout North and South America, Europe, Africa, the Middle East and Asia. Guardian companies employ 11,800 people and manufacture high-performance float glass; 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 be a preferred partner to our customers, suppliers, employees and communities based on a foundation of mutual benefit. This drives our relentless focus on improving people's lives by providing products and services they value more highly than their alternatives and doing so responsibly while consuming fewer resources. Guardian is a wholly owned subsidiary of Koch Industries, Inc. Visit guardian.com.



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(Photo Guardian Glass, LLC, GRDPR204)

PRESS CONTACT:

Sophie Weckx
Guardian Glass
19, rue du Puits Romain,
L-8070 Bertrange, Luxembourg
+352 28 111 210
sweckx@guardian.com

Elena Loseva
EMG
+31 61 260 1557
eloseva@emg-marcom.com

This press release and relevant photography can be downloaded from www.PressReleaseFinder.com.
Alternatively for very high resolution pictures please contact Sophie Weckx (sweckx@guardian.com,
+352 28 111 210) or Elena Loseva (eloseva@emg-marcom.com, +31 61 260 1557).