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September 2023

[Advanced Interlayer Solutions Division](#)

Kuraray launches revolutionary new app: Strength Lab AI sets standards for calculating glass structures!

Kuraray's "Sound Lab AI" web application, used to calculate sound-insulation values of glass systems according to European and American standards, received a positive response and broad acceptance from planners and engineers across the globe.

Based on the positive experience of this app, Kuraray has since undertaken development work on another app for the calculation of glass structures. The end result - **Strength Lab AI** - being a powerful AI-based application that can be used for the calculation behind various glazing systems, with regard to their static load-bearing capacity and serviceability.

Strength Lab AI



Software solutions previously available on the market use complex numerical methods, such as finite-element analysis, simple analytical models or

database queries, but the new "Strength Lab AI" app has been designed and implemented completely differently.

Using artificial intelligence, or, more precisely, "deep learning" using neural networks, it is possible to use AI algorithms to completely replace classical structural-analysis tasks with regard to the structural assessment in the ultimate limit states and serviceability limit states according to the German DIN 18008, the European EN16612 and the American ASTM E1300 for geometric linear and non-linear calculations. As a result, the use of costly and time-consuming simulation software is no longer necessary.

Structural & Security Glazing


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