

Alberta Manufacturer Receives SSRIA Funding For Innovative Institutional Project

*R15 Vacuum-Insulated Glass (VIG) To Be Combined With
Ultra-High-Performance Fibreglass-Framed Curtain Wall for New Academic
Building at Concordia University of Edmonton*

For Immediate Release

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- Concordia University of Edmonton (CUE) will receive the world's first application of vacuum-insulated glass (VIG) with fibreglass-framed curtain wall for their new academic building, designed by Manasc Isaac Architects.
- GlasCurtain's newest system - ThermVIG - leverages fibreglass-framing and VIG for incredible thermal performance.
- ThermVIG is made in Alberta out of a high-tech, ultra-efficient TP-FRP material with extraordinarily low heat transfer properties ($U_{cw} = 0.61 \text{ W/m}^2\text{K} - R9.3$).
- Therm systems are already proven in the coldest and harshest environments in the world and ThermVIG takes the next logical step towards a more sustainable future.

Edmonton AB, Canada — The Smart Sustainable Resilient Infrastructure Association (SSRIA) has approved funding for building envelope upgrades at Concordia University of Edmonton's upcoming New Academic Building (NAB), one of the first three projects as part of SSRIA's Green Building Technology Network (GBTN) program. The upgrades at CUE will leverage GlasCurtain's ThermVIG fibreglass-framed curtain wall system with R15 vacuum-insulated glass (VIG), resulting in a transparent envelope that's an incredible 400% more efficient than the minimum requirements of Alberta's Energy Code.

"We are inspired to keep moving the needle on high-performance building envelope solutions, especially at this time of pandemic, when we rely more than ever on regenerative buildings to meet health and climate challenges," said Vedran Škopac, Manasc Isaac Architects.

"Our focus on industry collaboration and innovation will drive the development and dissemination of validated solutions to reduce building related emissions while supporting the global competitiveness of Alberta's Architecture, Engineering and Construction Industry," said Pamela Goertzen, Executive Director of SSRIA.

"This is an incredible opportunity to showcase Alberta Cleantech Innovation. Leveraging next-generation vacuum-insulated glass with our next-generation fibreglass-framing, ThermVIG will provide CUE with the world's best thermal performance and the world's lowest carbon impact for a glass curtain wall. This is exactly the kind of forward-thinking showcase we need to hit our municipal, provincial, national, and global emissions targets. The future is here."

GlasCurtain's ThermVIG is not only 300% more thermally efficient than conventional aluminum-framed curtain wall frames, but all Therm frames boast a 60% reduction in Embodied Carbon (EC). The Embodied Impact of materials is of increasing concern for Sustainable Architecture as the majority of environmental impacts in the construction industry shift from Operational to Embodied between now and 2050 on the back of more stringent Energy Codes that focus exclusively on Operations.

Anticipating this shift to Embodied Impacts, forward-thinking bodies like Canada Green Building Council's LEED v4's Materials & Resources Credits are increasingly focused on EC and other Embodied Impacts. As usual, GlasCurtain is ahead of the curve here as its systems have less than half the Embodied Impacts of conventional curtain wall choices. The ingenuity and comprehensiveness of Therm systems invites architects and designers working in increasingly extreme climates to create beautiful high-performance buildings, such as the Nunatta Campus in Iqaluit, the Kwanlin Dun Community Centre in Whitehorse, and now the new CUE Academic Building.

About GlasCurtain:

GlasCurtain's Therm systems are a breakthrough in curtain wall framing. Having been successfully tested in the coldest parts of Canada, Therm fiberglass-framed systems deliver warmth and efficiency anywhere on earth. With its innovative design, GlasCurtain solves the energy performance challenges of conventional aluminum framing, offering unparalleled thermal comfort and dramatically reduced carbon impact. The future is fibreglass. The future is GlasCurtain.

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