

Alina: Case Study



Challenges

The project faced early setbacks when the vendor struggled to secure timely shop drawing approvals, putting fabrication schedules at risk. To keep the project moving, the Company VDC (Virtual Design and Construction) team stepped in to develop a parametric model that could fast-track design approvals and serve as the foundation for precise fabrication.



Solutions

The team created a custom 3D parametric model that transformed the design process. Real-time updates with the architect allowed rapid adjustments to complex geometries, while the model's built-in intelligence generated fabrication-ready files automatically. Through close collaboration with our vendor, every element was produced with accuracy and consistency, ensuring the design vision was fully realized.



Results

Insights from the first phase informed refinements for the more complex second phase, resulting in a final installation that closely mirrored the original design intent. By controlling the digital model and fabrication data, the team maintained exceptional precision, streamlined coordination, and delivered a finished product that reflected both technical excellence and craftsmanship.



Lessons Learned

Initial alignment methods caused minor misalignments between layers. For Phase 2, the team introduced vertical dowels for independent alignment, setting a new standard for installation accuracy. Paired with the approved digital model and digital fabrication methods, this refined process ensured near-perfect execution from design through installation.

