

Engineering Fall Protection for a Multi-Building Pharmaceutical Campus

When four buildings, four eras of construction, and incomplete structural records meant no off-the-shelf guardrail system would do

The Challenge

Structural documentation existed for only one of four buildings on the campus. Every other structure required engineering assumptions verified through direct field inspection before any system could be approved for installation.

The Engineering Approach

- Structural capacity confirmed building-by-building via licensed structural engineering review
- Ballasted (non-penetrating) guardrail specified wherever roof structure allowed
- Structurally mounted guardrail engineered where required — anchored to structural steel only, never to roof deck or bar joists
- Perimeter wall-mounted anchorage engineered as a third solution where neither standard method was feasible
- Interior skylight fall hazards addressed alongside perimeter work

The Solution

Installed, inspected, and warrantied on schedule. A single fully-engineered, code-compliant system tailored to the real structural conditions of each building — not a one-size-fits-all install.

At a Glance

Facility	Pharmaceutical manufacturing campus, Southeast U.S.
Scope	~ 3,000 LF guardrail, 30 skylight screens, full system replacement
Structures	4 connected buildings, built 1997–2019
System Type	Hybrid: ballasted + structurally mounted, engineered per building