

Mezzanine + Modular Office



A manufacturer of high-quality furniture was growing at a rapid rate and the Midwest distribution center in was growing the fastest. The customer was looking for ways to expand that did not involve the large capital expenditure associated with building a larger warehouse.

Project Objective

To expand the storage in the existing facility, DAK Equipment & Engineering proposed a structural mezzanine that would retain the existing space while adding addition capacity above. The main challenge was to design and build a mezzanine that fit nicely with the existing building columns. The solution had to be cost-effective while allowing fast and accurate stock putaway and order picking. The expansion also brought about a need for additional office space.

Project Scope

The scope of this project included designing and installing a structural mezzanine with closed staircases, handrail system and cut-outs in the floor of the mezzanine that allowed multiple stock transfer locations. Additionally, the mezzanine had to be installed during a four week window in an operating distribution center. A high quality pre-engineered office was required on top of the mezzanine, complete with lighting and HVAC systems.

Project Data

Distribution Center for Retail Furniture Industry

Building Square Feet: 150,000

Mezzanine Square Feet: 24,500

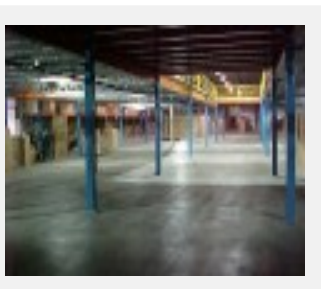
Office Square Feet: 800

Drop Zones: 8

Staircases: 2

Solutions Used:

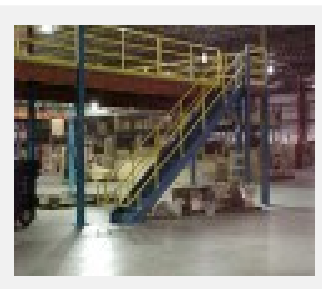
- Prest Structural Mezzanine
- Prest handrail and gate systems
- Summit Metal steel decking
- Georgia-Pacific wood decking
- Starrco Pre-Engineered Office System Interlake Guard Rail
- STHA custom-made structural column guards



Under the Mezzanine



Mezzanine and Office



Stairs and Handrail



Top of Mezzanine



Structural Beam and Post



Office Under Construction