



Logistics Consolidation Solution for Material Deployment

Features and Benefits

New receiving, storage and distribution system to allow for quick and easy heavy pallet mobility and storage.

Industry Group: SMA

OPTIONAL QUOTE FROM CASE STUDY



The U.S. Air Force 366th Logistics Readiness Squadron provides worldwide logistics support for aircraft and Expeditionary Combat Support Units. Administering \$800 million in supplies and a 4.5 million gallon fuel storage area.

The Logistics Readiness Squadron needed to consolidate four scattered warehouses and add efficiency to their mission staging material for deployment around the world.

Specifically, a new receiving, storage and distribution system would be created to allow for quick and easy heavy pallet mobility and storage.

Objectives:

- Accommodate 463L master pallets
 - Support heavy pallet loads; 10,000 lbs
 - Easy pallet mobility
- Design to integrate Alba conveyor
- Incorporate vertical reciprocating conveyor
- Create additional space for storage
- Adhere to rigid timeline

The Solution

Design a custom mezzanine to accommodate heavy pallets (10,000 lbs) as well as integrate conveyor systems to efficiently store and move pallets, increasing storage and distribution systems.

Size: 5,300 square feet

Framing: Beam and C Section

Decking: Bar Grating, Roof Deck and ResinDek®

Accessories:

- Handrail
- Slide Gate
- IBC Stairs (2)

Finish: Powder paint

Timeline: 16 weeks
Industry Served: Government

Results

The Steele Solutions mezzanine allowed the U.S. Air Force 366th Logistics Readiness Squadron to consolidate several existing warehouses into one location, increasing efficiency for staging material for deployment. The mezzanine created a new receiving, storage and distribution system that accommodates quick and easy moving of large, heavy pallets.

A close joist spacing and 200 PSF design accommodates the large, heavy 463L master pallets. The Pflow Industries Vertical Reciprocating Conveyor (VRC) enables easy delivery of the master pallets to the mezzanine. Alba conveyor supports as many as (40) 463L pallets.

The squadron selected Steele Solutions based on its ability to design and implement the total solution, seamlessly working with multiple material handling industry partners to integrate a custom engineered solution.



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