

A Case Study:

Self-Storage Mezzanine System Designed to Meet Tough Los Angeles Building Codes

Nestled among high rises and retail outlets in West Los Angeles, Self Storage 1's newest location will have 24-hour state of the art security, easy indoor loading and units varying in size from 25 square feet up to 200 square feet. The interior space is completely climate-controlled. The exterior is professionally landscaped and has a modern design with an upscale look using stone and façade windows along every side of the building.

The location in Southern California made seismic codes and regulations a large part of the project planning and execution. The city of Los Angeles is known to have some of the toughest codes in the country including additional structural calculations and Los Angeles research report numbers on critical components.

The 86,000 square foot building is five stories high and includes a basement. The ground floor is designated for parking and for customer loading and unloading. The remaining floors are divided up second floor allowed the owner to incorporate a unique design concept using a mezzanine system. The system resulted in an extra 18,000 square feet of rentable storage.



Due to seismic zone building requirements, the mezzanine system cannot be permanently attached to the building with the exception of connection to the floor. In addition to installing over four-hundred 5/8" diameter steel rods embedded in epoxy for the connections, the critical vertical column attachments required heavy duty Simpson ties. For additional support in the walls, special cross braces were incorporated.

The multi-story building design also created challenges delivering construction materials to the different floors. GMI Construction, working with U.S. Door & Building Components, made special construction access areas for each floor of the building. The access areas were 10' wide by 10' high and were created when the concrete for the building was poured. After the materials were delivered using a high reach forklift, the holes were filled in with concrete.

U.S. Door & Building Components has been a major international supplier to the self-storage industry for over 30 years. In addition to supplying roll-up doors, they offer a complete portfolio of related products including hallway and corridor systems, swing doors, lockers, EZ Access wicket doors, relocatable buildings and mezzanine systems. Products are available with factory-guaranteed installation. For more information call 407-859-6770 or go to www.usdoor.com.



PROJECT:
Self Storage 1

BUILDING OWNER:
West LA Self Storage
LLC

LOCATION:
Los Angeles, CA

SQUARE FEET:
86,000

COMPLETED:
Winter 2008

MANUFACTURER:
U.S. Door & Building
Components

SYSTEMS:
Roll-Up Doors
Mezzanines
Hallways

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