

Iron Mountain

TYPE OF APPLICATION: Cladd Rack

LOCATION: Freehold, NJ

DATE OF CONSTRUCTION: 2006

ENGINEER: RC Engineering

CONTRACTOR: PJR Construction

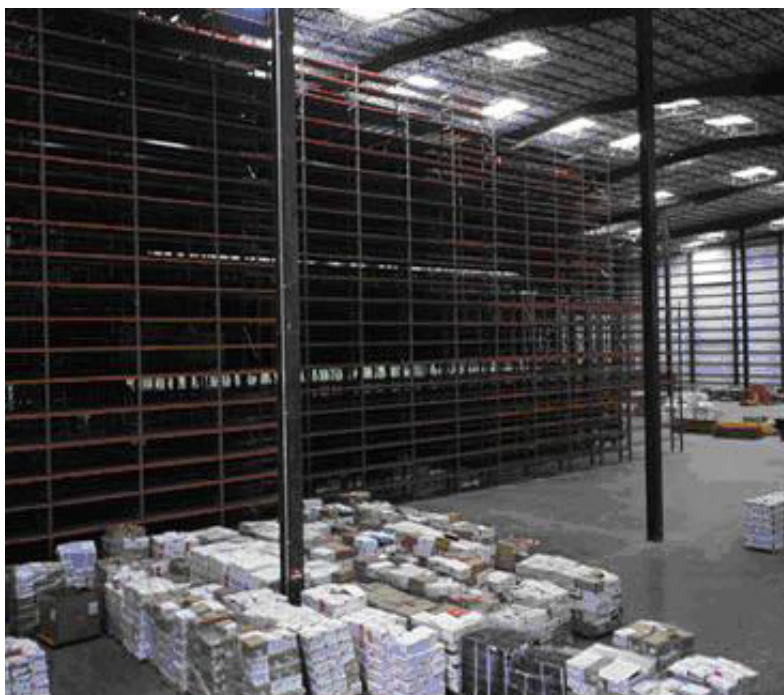


Racks and Mezzanines

Description of the project

Iron Mountain is a leader in records and information management. They required a building to provide storage for many different media types: paper, computer disks and tapes, microfilm and microfiche, master audio and videotapes, films and optical disks, x-rays and blue prints. The building needed to store the maximum amount of products in the smallest space. The building consisted of a 70 foot tall prefabricated building and multiple layered rack system with mezzanines. The columns from the storage rack system rested directly on the slab on ground. These columns and the slab needed to support the rack dead loads, the storage material weight, live loads and earthquake loads which totaled about 60,000 lbs for each column.

Bekaert worked closely with RC Engineering and PJR Construction to design the slab on ground reinforced with Dramix steel fibers. The slab was placed with a single thickness of 12 inches to support the rack loads.



Racks and Mezzanines

Solution with Dramix®

Fibre type:

RC65/60BN

Concrete thickness:

12 inches

Concrete quality:

Project size:

160 000 ft²

