

Flood Mitigation At Coney Island Hospital

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Hospital Damage From Superstorm Sandy

Superstorm Sandy hit the eastern coast of the United States in October 2012, leaving behind widespread destruction and damage. Among the many facilities affected was the Coney Island Hospital in Brooklyn, New York. The hospital experienced significant flooding during the storm, with the basement and first floor of the building completely submerged in water.

As a result, the hospital had to evacuate its patients to other facilities, and medical equipment and supplies were destroyed. The damage was extensive, requiring a massive recovery effort, including repairs and renovations to the building's electrical and mechanical systems, as well as upgrades to the hospital's infrastructure. It took several months before the hospital was fully functional and able to accept patients again.



Multiple Levels Of Flood Mitigation

To prevent future damage, flood mitigation solutions were necessary. These solutions would need to meet and exceed FEMA 3-93 requirements for hospitals, providing passive and active protection measures that increase the resiliency of hospitals to withstand up to 500-year storm events.

The hospital required two levels of flood mitigation solutions that could withstand up to a 500-year storm event and ensure the safety of its patients, staff, and facility.

Orange Flood Control, LLC provided consultation, supply, installation, and testing of a combination of solutions on the exterior and interior of the hospital to allow for a tier deployment approach.

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The First Level Of Defense

The first level of defense involves a surrounding perimeter flood wall that utilizes point-of-use sliding flood gates and passive bottom hinge flood barriers to achieve a first line of 100-year flood defense. The perimeter flood defense wall allows the activities of the hospital and staff parking area to continue to operate normally during a less severe 100-year flood event.

The sliding flood barriers are placed at lower elevations, and hospital staff can deploy these devices many hours before the ensuing flood event occurs. The passive gates automatically deploy when flood waters reach them, surrounding the hospital and parking lots from flood waters up to the 100-year flood level.

This unique approach protects the staff, patients, and facility from the more common floods that occur in the Brooklyn, NY area, while maintaining access to the hospital for first responders and surrounding neighbors.

The Second Level Of Defense

The second level of defense is designed for the 500-year flood event. The oxygen tank area utilizes a point-of-use sliding flood barrier that will always remain locked except for deliveries and service, and a passive flood door for all other access to the area.

Protection of the elevator cores uses an innovative fabric barrier system that is stored at the point-of-use for rapid deployment. This barrier protects the elevator pits from contaminating the building with hazardous oils from flooded mechanical systems and allows the hospital to rapidly get back to full operational capacity after the event.

Passive fire-rated flood doors protect critical building infrastructure rooms, allowing 24/7 protection of these electrical and communication rooms. This protection safeguards electrical equipment, wiring, and emergency-backup power systems from floodwaters, mitigating the risk of fire hazards and electrocution risks.

Finally, manually deployed flood planks are deployed by hospital staff at entry points completing the protection of patients, staff, and building components.



Investing In Flood Mitigation

Investing in flood mitigation solutions is an investment in the safety and well-being of the community. Flood mitigation solutions add value to properties by making them a safer and more desirable place to receive emergency medical care.

Orange Flood Control, LLC is committed to providing flood mitigation solutions that protect assets and communities. The company offers a range of solutions that include consultation, supply, installation, and testing, ensuring the safety of patients, staff, and property.

Ask us about our hospital projects in these cities:

- Boston, MA
- Brooklyn, NY
- Houston, TX
- Jersey City, NJ
- Manhattan, NY
- Long Island, NY
- Queens, NY
- St. Louis, MO

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Passive Flood Mitigation

Passive flood control technologies operate automatically during a major flood or natural disaster. These automatic devices do not require any human involvement or manpower to keep your facility safe. Some of the most popular options include passive gates, entry doors, or glass walls. Passive flood devices are the optimal choice to defend your employees and facilities 24/7 - without human involvement. No dependence on power, people, or manual intervention, improves property's resilience from even the most severe storms. These automatic devices protect hundreds of schools, commercial buildings, and critical infrastructure assets from devastating natural disasters.

Passive Flood Device Options:

Flood Doors | Flood Glass | Concealed Automatic Gates

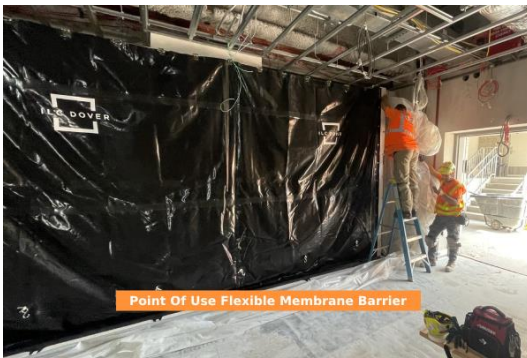


Point-Of-Use Flood Mitigation

These dependable, simple solutions are strategically designed for rapid manual deployment. This unique configuration is known to consume minimal storage space and promote superior visual aesthetics. Point-of-Use solutions can even be stored out-of-sight, and custom designed to fit any opening. Point-of-use flood devices serve as an impact-resistant barrier during severe weather events. Using watertight seals and pre-fabricated anchors, these devices can be rapidly deployed in 30 minutes or less. Facilities can delay deployment - resulting in minimal operational downtime and disruption. This allows organizations to reduce lost profits, damaged reputation, and unsatisfied clients.

Point-Of-Use Device Options:

Vertical/Side Deploy | Swing Gates | Sliding Doors



Active Flood Mitigation

These dry floodproofing devices keep surging stormwater out - minimizing economic impact and harm to critical infrastructure. This helps to keep communities safe and promote social well-being. These manual barriers are a reliable, effective flood defense. Active devices can be manually deployed for emergency flood protection across buildings or entire properties. Their high-strength design defends against strong winds and debris impacts as well. Facilities can rapidly and easily deploy these devices for optimal protection.

Active Flood Device Options:

Flood Planks | Flood Panels | Flood Shields



Protect Your Facility With Orange Flood Control, LLC

Orange Flood Control, LLC is a leading flood mitigation company that provides a comprehensive range of services, including consultation, device sales, installation, on-site testing, training, maintenance, and service. With over 25 years of experience in the field, we conduct thorough on-site **consultants**, producing comprehensive and well-balanced solutions reports for our clients. Once we have reviewed the available options, our team executes detailed shop drawings and fabricates high-quality flood mitigation devices to meet project requirements. Our company specializes in offering active, point-of-use, and passive flood management **device sales** that exceed project specifications while delivering cost savings to our clients.

We work closely with our clients to ensure timely delivery of the finished products, and our manufacturer-trained and certified **installation** department handle all the projects installation needs without disrupting the facility's operations. Our technicians rigorously perform **on-site testing** of the flood mitigation equipment to ensure optimal performance during real-world storms. Additionally, our team provides **training** to the building staff to ensure efficient deployment of the devices.

At Orange Flood Control, LLC, we offer comprehensive support for all installed flood mitigation devices, including those outside our authorized dealer offerings. We provide customized multi-year or annual inspection **maintenance** and **service** contracts. Our services are available throughout the 48 United States, and we consistently exceed our clients' expectations. Contact us today to discover how we can help simplify flood mitigation solutions for your organization.