Resilient Building Design
Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Trending Search Terms: “Resilient Design”

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Resilient Building Design

“the intentional design of buildings, landscapes, communities, and regions in response to vulnerabilities to disaster and disruption of normal life”
Resilient Building Design

Con Edison power plant exploding on 14th Street

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Resilient Building Design

Con Edison power plant exploding on 14th Street

NYU Langone Hospital Emergency Department closes
Resilient Building Design includes:

1. Emergency Resilience and
2. Everyday Resilience
Resilient Building Design

Emergency Resilience

1. Seismic Control
2. Extreme Weather
3. Fire Control
4. Power Outages
Resilient Building Design

Everyday Resilience

1. Normal Wear-and-Tear
2. Managing Hot and Cold
3. Durable Building Envelope
4. Durable Interior Finishes
Emergency Resilience

Seismic Control

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Emergency Resilience

Fire Control

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Emergency Resilience

Power Outages

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Emergency Resilience
Lessons Learned

1. always have a back-up power supply,
2. elevate your back-up power (not in the basement),
3. maintain off-grid heating and cooling capabilities,
4. make sure that building insulation is as tight as can be,
5. make sure ventilation is possible when air conditioning fails
6. maximize daylight so that people can continue to see.

Power Outages
Everyday Resilience

Normal Wear-and-Tear

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Everyday Resilience

Managing Heat and Cold

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Everyday Resilience

Durable Exterior Envelope

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Everyday Resilience

Durable Interior Finishes

Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Resilient Building Design

Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.
Remember,

“The Greenest Building is the one’s that already built!”

architect Carl Elefante
Resilient Building Design
Tom Massey, AIA LEED AP, Gannett Fleming Architects, Inc.