

# 360 State Street

New Haven, Connecticut

## Building Statistics

Location: 360 State Street, New Haven, CT  
Occupancy: Residential & Retail  
Size: 700,000 gsf.  
Height: 32 Stories  
Dates of Construction: Sept 2008 – Oct 2010  
Project Delivery Method: Design-Bid-Build  
Total Development Cost: \$180 million



## Structural

360 rises out of the ground from a series of mini-piles and pressure injected footings that transition into reinforced concrete beams, columns, and post-tensioned slabs. Above the sixth story, the building is framed with steel W-shapes and hollow-core planks slabs. The lateral systems are comprised of concrete shear walls and a system of staggered trusses.

## Mechanical

A 400kW fuel cell is located on the first floor and it supplies the hot water for the building. Each apartment unit is also supplied with its own heat pump and air conditioning unit. Small mechanical rooms are scattered throughout the building housing equipment such as exhaust or return fans. The rooftop mechanical room however, is dedicated to 360's two cooling towers.

## Electrical/Lighting

360 is powered by five switchboards that range from 1600 to 3000 amps. Four are connected to the city's utility service grid at 120/280V and the last is connected at 277/480V. A 600kW emergency diesel generator is also provided. The ambient light is created by a combination of fluorescent, halogen, and LED downlights and wallwashers. The fixtures are either recessed or surface mounted.

## Project Team

Owner/Developer/Architect: Becker + Becker Associates  
Associate Architect SLCE Architects  
Structural Engineer: DeSimone Consulting Engineers  
MEP Engineers: Cosentini Associates  
Landscape Architect: Tower | Golde  
LEED Consultant/Lighting Designers: Atelier Ten  
General Contractor: Suffolk Construction Co., Inc.

## Architectural

The surrounding buildings offer a historic charm to the city of New Haven that 360 State Street continues in a new, sleek manner. Its façade is clad with architectural pre-cast concrete panels that mix with smooth glass windows. Ornamentation also lines the street level retail and a landscaped garden graces the sixth story terrace. And to top it off, 360 offers great views of the surrounding rolling hills and ocean harbor to its 500 apartment units.



Sabrina Duk | Structural

Senior Thesis: [www.engr.psu.edu/ae/thesis/portfolios/2010/szd125/index.html](http://www.engr.psu.edu/ae/thesis/portfolios/2010/szd125/index.html)