

# THE ANNUAL AWARD

## New York University Student Housing



The Student Housing Building constructed by New York University on heavily-traveled 14th Street in Manhattan (the site of the former Luchow's Restaurant) uses a reinforced concrete flat plate structural frame with a pre-cast concrete exterior wall panel system.

The asymmetrical "C" footprint of the building, its vertical setback along 13th Street, and the newly-implemented seismic code created a singular set of design and construction conditions. To reduce the lateral seismic load and torsional forces, the design team used 4,000 psi lightweight concrete for the slab and 5,000 psi normal weight concrete for the shear walls and columns.

In the field, the design gave rise to the challenge of preventing cold joints between the two classes of concrete, and to logistical issues of placing two different strengths of concrete at the same time on a tight construction site. ■

Owner  
New York University

Architect  
Davis Brody Bond LLP

Structural Engineer  
Goldreich, Page & Thropp

### What the Jury Said:

Noting that the project construction is totally concrete, the jury praised the marriage of the precast panel facade and the cast-in-place concrete frame, as well as the adroit handling of lightweight and normal weight concrete. Singled out for particular attention was the use of lightweight concrete in the slabs, which reduced the weight of the building and resulted in smaller columns and low seismic forces on the asymmetrical building shape.



General Contractor  
Plaza Construction Corp.

Concrete Subcontractors  
Laquila Construction Inc. /  
Pinnacle Concrete Corp., JV  
Urban Foundation/Engineering, LLC

Precast Subcontractor  
Global Corp.

Testing Laboratories  
Stallone Testing Laboratories Inc.  
Peto MacCallum, Ltd.  
Israel Berger & Associates, Inc.

Concrete Mix Supplier  
Empire Transit Mix, Inc.

Cement Manufacturer  
Norval Inc.

Precast Erector  
Sky-Lift Corporation

Formwork System & Shoring  
Engineered Devices Corporation  
Patent Construction Systems

Formwork Accessories  
Triboro Hardware Corp.  
Delco Supply

Reinforcing Steel  
Re-Steel Supply Corp.

Reinforcing Accessories  
Reforce Steel & Wire Corp.

Admixtures  
W. R. Grace & Co.

Aggregates  
Tilcon New York Inc. (Coarse)  
Roanoke Sand Co. (Fine)