

People and Hollow Core – Still Sleeping Together UMASS Residence Halls



New Residence Halls at UMASS Dartmouth

Photo by Oldcastle Precast

Six new residence halls at UMASS Dartmouth were a true design build fast track job. The project was awarded to Oldcastle Building Systems in early July 2004, shop drawing submittals started in 2 weeks, with production starting the first week in August. Producing the 420,000 sf of 8" x 48" hollow core plank took 10 weeks; continuous erection started early August and finished early November.

This speed record was accomplished with meticulous overlapping of functions: drafting was one week ahead of approvals, approvals were one week ahead of production, and production was one week ahead of erection—and with minor impact to their other customers.

Job credits go to architect Add Inc., Cambridge, engineer Veitas & Vietas, Braintree, contractor Suffolk Construction, Boston, all Massachusetts, and precaster Oldcastle Precast, South Bethlehem, NY. □

Hampton Inn and Suites, Latham, NY

Besides the usual advantages of hollow core plank construction—fast, all weather installation, ceilings ready for paint, immediate work deck for following trades, excellent sound reduction and fire ratings—there are less

obvious benefits from including precast stairs and landings at the same time. They offer safe, immediate and permanent access to all levels; it beats climbing ladders!

(continued on next page)



Hampton Inn & Suites, Latham, NY

Photo by J.P. Carrara & Sons



Precast concrete stairs and landings

Photo by J.P. Carrara & Sons



Clean ceiling lines down corridor facilitates mechanical work

Hampton Inn and Suites (continued)



Plank deck provides safe work deck for following trades

Photo by J.P. Carrara & Sons

In the photo on page 1 bottom left, temporary rails obscure the clean and finished look of precast units. In addition to four levels of 8" by 8" hollow core plank, totaling 48,000 sf, there were 28 pieces of precast stairs and landings. The plank factory finish allows for quick, direct application of carpet with pad.

J.P. Carrara & Sons, Middlebury VT, supplied this work to B.A. Construction Services of Latham, NY. Rauli & Sons, Syracuse, NY was the erector. □



Curry College 8' Plank Erection

Photo by Oldcastle

Governor Announces \$12.7 Million To Improve Water Quality

Last summer, Governor Pataki announced grants for 43 water quality improvement projects to help reduce pollution and runoff entering New York's lakes, rivers, and streams. In addition to new or upgraded wastewater treatment facilities, money will be available for elimination of raw discharges and failing on-site systems in hardship communities.

The PCANY Septic Tank Group has worked over the past year to complete a Certification Program to insure all its tanks are watertight, and to help further the training and certification of all parties in the on-site wastewater treatment process. Despite the grants mentioned here, government funds to build or expand municipal treatment plants will be in short supply, making more on-site treatment the obvious solution.



Septic tank undergoing plant vacuum test

Photo by Eastern Precast Co.

One of the ways concrete septic tank producers are insuring the structural integrity and water tightness of their products is through vacuum testing. Applying this simple test equals applying loads to the tank at 300 psf or even significantly higher, and simultaneously proves that there are no leaks. Contact PCANY or your local producer for complete information on the Certification Program. You can help insure that on-site systems work properly. □



Gage indicating vacuum pulled

Photo by Eastern Precast Co.

Visit www.pcanyc.org for more information on:

- precast concrete products and their application
- precast concrete producers with links to their websites
- precast concrete association of New York, PCANY

If you would like to receive this newsletter via email instead of hard copy in the mail, send your request and email address to pcany@aol.com.

Calendar of Coming Events:

Feb. 11-14 MCPX, Indianapolis

Feb. 12-18 Engineers week, Albany

February 22 PCANY Board, Annual Meeting, and Dinner

February 23 Bridge Design Workshop

Apr 7-9 PCI Committee Days, Chicago

Precast Concrete Panelized Building System



Brick, brushed, and insulated surfaces

Photo by Kistner Concrete



Brick wall panel with window opening

Photo by Kistner Concrete

Kistner Concrete Products has expanded their prefabricated wall choices with their new TAK-Com Precast Building System.

The SignWorks Building, for Alix Development LLC, combines a 4' high foundation wall with structural walls of variable height. The total building is 60' by

140', and provides 16' clear inside height in the warehouse, and 10' clear in the office area.

These walls have a rich red brick exterior finish, achieved with detailed formwork and a pigmented exterior finish. This system has many additional advantages. It includes 8 1/2" thick EPS insulation and

metal studs to receive gypsum wall board, thus providing a fire-rated interior finished wall.

In addition to the 35 brick faced exterior walls, there are 18 brush finish concrete interior walls serving as space dividers and fire walls. The complete wall frame was installed in five days. □

DESTRUCTIVE TESTING?



Not really; but it proves that well made concrete products are tough. In this unfortunate plant mishap, where a lifting cable snapped on the truck hoisting apparatus, this septic tank crashed to the

ground. No bounce, but no break—the tank showed no cracks and no signs of distress. The cable was repaired, and the tank was fine. [Producers photo credit withheld to protect the innocent].

Professors Workshops

The Northeast Cement Shippers Association, our Partners in Promotion, is again accepting applications to attend concrete related workshops for professors teaching undergraduate or beginning graduate courses. NECSA will reimburse for travel, lodging, and meal expenses. In addition, PCANY will reimburse those selected for registration fees to two specific workshops: Design of Concrete Bridges by the AASHTO LRFD Specifications (August 2004), and Faculty Enhancement Workshop (June 2005). You can complete an online application at www.necementshippers.com.

Precast Concrete Association of New York, Inc.

2829 East Avenue, Rochester, New York 14610
Tel: 518-895-8352 Facs: 585-381-0945
Email: pcany@aol.com Web: www.pcany.org
Carl Buchman, PE: Exec Director

Producer Member Companies:

AFCO Precast, Middle Island, NY 11953
A & R Conc Specialties, New Windsor, NY 12550
Bayshore Conc Prod, Cape Charles, VA 23310
Binghamton Precast, Binghamton, NY 13901
Carrara & Sons, Middlebury, VT 05753
Coastal Pipeline Products, Calverton, NY 11933
Concrete Building Supply, Plattsburgh, NY 12901
William E. Dailey, Shaftsbury, VT 05262
The Fort Miller Co, Schuylerville, NY 12871
Hanson Pipe and Products, Pottstown, PA 19464
Jefferson Concrete, Watertown, NY 13601
Kistner Conc Products, East Pembroke, NY 14056
Newcrete Products, Parsippany, NJ 07054
Oldcastle Precast, South Bethlehem, NY 12161
Riefler Concrete Products, Hamburg, NY 14075
Roman Stone Const Co, Bay Shore, NY 11706
Rotondo Precast, Avon, CT 06001
Schuylkill Products, Cresona, PA 17929
Sunnycrest Inc, Auburn, NY 13021
Unistress Corp., Pittsfield, MA 01201
LC Whitford Co., Wellsville, NY 14895

Associate Member Companies:

A-Lok Products, Tullytown, PA 19007
Amcrete Products, Newburgh, NY 12550
Concrete Sealants, Royersford, PA 19468
Cresset Chemical Co, Weston, OH 43569
Dayton Richmond Corp, Collinsville, CT 06022
degussa.Construction Chemicals, Cleveland, OH 44122
Eastern States Steel, Upper Saddle Riv, NJ 07458
Engineered Wire Products, Upper Sandusky, OH 43351
Euclid Chemical Co, Saratoga Springs, NY 12866
WR Grace, Old Chatham, NY 12136
H & H Hulls, Hudson, NY 12534
Helsel Industries, Tualatin, OR 97062
O W Hubbell & Sons, New York Mills, NY 13417
Polylok, Yalesville, CT 06492
Press Seal Gasket Corp, Boxford, MA 01921
Jepco Sales, Royersford, PA 19468
JVI Inc, Pittsfield, MA 01201
NPC Inc, Milford, NH 03055
Oilchem Inc, NH Merrimack, NH 03054
A L Patterson, Fallsington, PA 19054
Rebar Systems, Cotuit, MA 02635
Sika Corporation, Fairless Hills, PA 19030
Spillman Company, Columbus, OH 43207
Splice Sleeve N A, Bonita Springs, FL 34134
Stelcrete Industries, Niagara Falls, Ont L2E 6V6
Syracuse Castings Sales Corp, Cicero, NY 13039
USF Fabrication, Durham, CT 06422
E-Z Set, Haymarket, VA

Septic Tank Producer Companies:

Burnett Concrete Products, Wolcott, NY 14590
Butts Concrete Products, Masonville, NY 13804
Eastern Precast Co, Brookfield, CT 06804
Grimm Build Materials, Green Island, NY 12183
Guardian Block, Schenectady, NY 12308
Hoyte's Concrete Products, Rome, NY 13440
Keeler Vault, Hudson, NY 12534
Oneonta Block, Oneonta, NY 13820
R Deso, Inc Champlain, NY 12919
Woodard's Concrete Products, Bullville, NY 10915
Zeiser Wilbert Vault, Elmira, NY 14904

Professional Member Firms:

Abate Engineers, Buffalo, NY 14225
Advance Testing, Stockbridge, MA 01266
Barton & Loguidice, Syracuse, NY 13220
Bay Saver, Mount Airy, MD 21771
Bergmann Associates, Rochester, NY 14614
A L Blades, Hornell, NY 14843
Clough Harbour & Assoc, Albany, NY 122056
Con/Span Bridge Systems, Dayton, OH 45420
John S Deerkoiski & Assoc, Warwick, NY 10990
Delta Engineers, Binghamton, NY 13901
DiDonato Associates, Buffalo, NY 14224
FRA Engineering, Henrietta, NY 14467
Greenman-Pederson Inc, Albany, NY 12205
Hunt Engineers & Architects, Corning, NY 14830
LaBella Associates PC, Rochester, NY 14614
LEAP Associates, Tampa, FL 16007
Maser Consulting, West Nyack, NY 10994
McFarland-Johnson, Inc Binghamton, NY 13902
Nussbaumer & Clarke, Buffalo, NY 14219
O'Neil Consulting, Spring Lake, NJ 07762
Popli Consulting Engineers, Penfield, NY 14526
Ryan-Biggs Associates, Troy, NY 12180
A H Sample Engineers, Ottsville, PA 18942
R Samsel Engineers, Henrietta, NY 14467
Chas H Sells, Briarcliff Manor, NY 10510
Simpson Gumpertz & Heger, Waltham, MA 02453
Spectra Engineering, Latham, NY 12110
TVGA Consultants, Elma, NY 14059
Edward Watts Engrs, Williamsville, NY 14221

Officers, Directors and Staff:

President: Scott Harrigan, The Fort Miller Co
Vice-President: Rick Martel, Unistress Corp
Secretary: Tom Montalbino, Roman Stone Constr.
Treasurer: David Wan, Oldcastle Precast
Assoc Dir: Ed Pennypacker, Concrete Sealants
Prof Director: Ron Thornton, Delta Engineers
Imm Past Pres: Jay Abbey, Binghamton Precast
Executive Director: Carl Buchman

**Precast Concrete Association
of New York, Inc.
2829 East Avenue
Rochester, NY 14610**

RETURN SERVICE REQUESTED

PRSR STD
U.S. POSTAGE
PAID
Permit No. 76
Albany, N.Y.

January 2005

PCANY MONTHLY NEWSLETTER

Page 4

Pittsford keeps pace thanks to town's choice of precast concrete

In the Rochester Democrat and Chronicle, Dec. 20, 2004, staff writer Dolores Orman wrote a story on the Pittsford Library project (see PCANY Newsletter November 2004), from which we excerpt:

"Precast concrete units rather than structural steel are shaping much of the new two-story Pittsford Community Library. It allows the building to go together much faster" said Peter Buckley, project director with the Pike Co., construction manager for the library. Pike officials recommended the precast concrete method to town officials. "We felt that it was a good idea to pay more for this structural system to get the building up and enclosed," he said.

The estimated \$40,000 additional cost had to be weighed against "the cost of basically trying to put a building up in the middle of winter," Buckley said. Town Officials accepted the recommendation.

However, changing economic times have turned what was projected to be a \$40,000 additional expense to an estimated saving of \$60,000 in the \$9 million project. "What happened was the steel market went out of control" by the time the project went out to bid, Buckley said. The price of structural steel has increased 40 percent since mid-2003. So by using precast concrete, the town actually saved money.

Precast concrete is "becoming more and more standard practice. One of the reasons for that is there has been a real escalation in the cost of construction materials. It probably saved us a month. I'd say the project is going exceptionally well," Buckley said. "All columns, beams, and flooring are precast concrete."

As we said before, you can learn important lessons at the library. □