

## Smithtown Concrete Seminar Outline

- I. Fire rated walls
  - A. Fire video tape (produced by PCA)
  - B. November 1992, one specimen criteria
  - C. C of A's by the sheet rock people
  - D. Fire walls and New NY State Code, Section 1250.3, RS 22-26
  - E. ACI 216, consensus standard
  - F. Equivalent thickness Calculations
  - G. Fire Wall: A wall of noncombustible construction, with qualities of fire resistance and **structural stability**, which completely subdivides a building into fire areas and which resists the spread of fire.
  
- II. 16" or 18" Long Block
  
- III. ASTM C-90, our national standard, pretty soon, no more Type I
  
- IV. Versalok Retaining Wall System, w/videotape
  
- V. ACI 530 our masonry code
  - A. Reinforced/unreinforced/ empirical chapters
  - B. Masonry Specification section
  - C. H/L ratio for bearing and non-bearing walls for empirical design.
  - D. established table of prism strengths correlated to block unit strength
  - E. Hot dipped galv joint reinforcement for walls on exterior envelope
  - F. details of wall connections
  - G. NYC Dept as of Spring 95, adopted
  
- VI. Detailing and Split Face material behavior. **Crack Control**
  - A. Detail thick flashing 30mil or better over two courses of backup masonry
  - B. Reason why Korfil insulation is popular.
  - C. Core fill 500 falacy. Urea formaldehyde foam insulation
  - C. Integral water repellent, Calcium Stearate
  - D. Treatment of One wythe walls,
  - E. Exterior Sealers, Prime a Pell Plus/Prime a Pell H<sub>2</sub>O, Silane/siloxane
  - F. umbrellas for the wall
  - G. Masonry Technology Cavity Vent 5010 Flashing 16" instead of 8"
  
- VI. Efflorescence, *No Negative Surprises*
  - A. rainy weather in the fall
  - B. two kinds of salt buildup
  
- VII. Colored Mortar
  - A. Supervision vs. Pre-mix, wet weather, tooling, retempering
  - B. The wall panel
  
- VIII. Steel Stud Walls, and their use in backup
  - A. Recent experience, Coherent, Hauppauge
  - B. Lamparta's building, in Hauppauge
  - C. NYS energy and ASHRAE