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### **COFFOR USA INC.**

INNOVATION IN CONSTRUCTION



### **THE COFFOR SYSTEM**

- DESCRIPTION
- >APPLICATIONS
- >TESTS PERFORMED -CERTIFICATIONS
- >ADVANTAGES OVER OTHER SYSTEMS



# DESCRIPTION (II)



#### CONCRETE POURED BETWEEN THE TWO GRIDS EXCESS WATER IS

- EXCESS WATER IS
  ELIMINATED BY GRAVITY
  AIR IS ALSO ELIMINATED
- CONCRETE PRESSURE IS GREATLY REDUCED
- COFFOR REMAINS IN THE WALL AFTER POURING

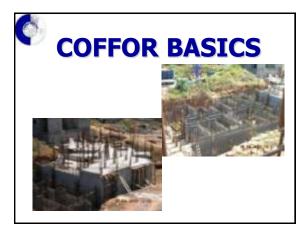




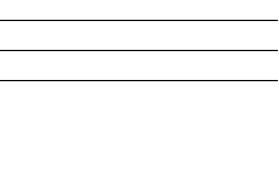




- FOUNDATIONS, CRAWL SPACES, COLOMNS, BEAMS, WALLS, RADIUS WALLS, SLABS, ROOFS
   BUILDINGS: PRIVATE, RESIDENTIAL,
- COMMERCIAL, INDUSTRIAL, HIGH RISE
- > HOSPITALS, SCHOOLS, UNIVERSITIES, SWIMMING POOLS
- > TUNNELS, DYKES, SUSTAINING WALLS, ADJOINING WALLS, SUPPORTING WALLS
- >UNDER WATER !!!







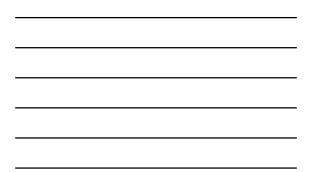






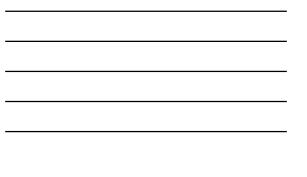


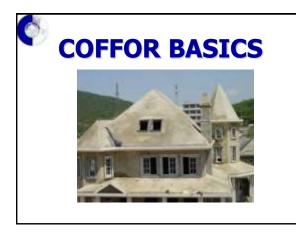














































#### **INNOVATION COFFOR**

ALL THE COMPONENTS OF COFFOR ARE ALREADY USED IN CONSTRUCTION:

**RIBLATHE, C CHANNELS, REBARS** 

THE PARTICULAR OF COFFOR IS TO ASSEMBLE THEM TOGETHER

#### **COFFOR IS A SYSTEM**

#### CERTIFICATIONS

- > THE FIRST CONSTRUCTION WAS DONE IN 1996 FOR THE PILES OF THE HOSPITAL GEORGE POMPIDOU IN PARIS
- > MORE THAN 21.530.000 ft<sup>2</sup> OF CONSTRUCTION WERE DONE IN 2005 AND 2006
- COFFOR IS CERTIFIED: CSTB (France), CNERIB (Algeria), ITB (Poland), Switzerland, China, Russia, Thailand, Turkey, Saudi Arabia, UAE, Egypt...
- > TEN YEAR GUARANTEE ISO 9001

#### LABORATORY TESTS

SEVERAL TESTS WERE PERFORMED IN FRANCE,SWITZERLAND, EGYPT, CHINA & ALGERIA TO MEASURE:

- > RESISTANCE UNDER COMPRESSION  $\sqrt{}$
- > RESISTANCE UNDER DEFLEXION  $\sqrt{}$
- > BONDING OF THE C PROFILE TO CONCRETE  $\sqrt{}$
- > IMMEDIATE SHRINKAGE OF CONCRETE  $\sqrt{}$
- > CONCRETE QUALITY  $\checkmark$

## **COFFOR ADVANTAGES:**

- VERY LIGHT (23 lb/11ft<sup>2</sup>), COFFOR CAN BE CARRIED BY HAND
- >NO CRANE NECESSARY INCREASED SITE SECURITY
- > EASY TO USE NO QUALIFIED PERSONNAL IS NECESSARY
- >NO NEED FOR ACCESSORIES (WIRES & TUBES ARE SUFFICIENT)
- >CONSTRUCTION TIME IS REDUCED BY AT LEAST 50% !!!

### **COFFOR ADVANTAGES:**

- > EASY INSERTION OF REBAR (IF NECESSARY)
- > NO NEED TO ADD REBAR IN CURRENT PORTION OF WALLS
- > ELIMINATION OF ANTI-CRACK WELDED WIRE
- > VISUAL CONTROL OF THE POUR (NO SEGREGATION)
- > EASY INSERTION OF RESERVES FOR PLUMBING & ELECTICITY

#### **COFFOR ADVANTAGES:**

- > OTHER FILLING MATERIAL POSSIBLE
- > EASY APPLICATION OF ANY TYPE OF FINISHING
- COFFOR CAN EASILY BE CUT W A CIRCULAR SAW
- **> EXTREMLY COST EFFECTIVE**

### **INNOVATION COFFOR**

- > COFFOR ALLOWS ALL ARCHITECTURAL FREEDOM
- > LAST MINUTE CHANGES ARE EASILY POSSIBLE
- > INSULATED COFFOR OFFERS AN EXTERIOR INSULATION THAT ELLIMINATES THERMAL BRIDGES AND REDUCES HEATING COSTS

# **INNOVATION COFFOR**

COFFOR IS ENVIRONMENTALY FIENDLY (NO WOOD BURNT ON SIDE & NO NEED FOR CLEAINING OIL) AND PRESERVES NATURAL RESOURCES (WOOD USE VASTLY REDUCED & USE OF BRICKS ELIMINATED)

#### COFFOR vs SHUTTERS DISADVANTAGES :

>A FINISHING IS NECESSARY >COFFOR CAN NOT BE USED AGAIN >NECESSITY TO WEAR GLOVES

### COFFOR vs SHUTTERS DISADVANTAGES :

- >NO DISMENTALING NECESSARY
- >NO NEED FOR QUALIFIED WORKERS

#### $\succ$ NO ACCESSORIES

> ELIMINATION OF ALL PROBLEMS RELATED TO SHUTTERS: INVESTMENT, AVAILABILITY, TRANSPORT, CLEANING, MAINTENANCE, ROTATION, STORING

### COFFOR vs SHUTTERS DISADVANTAGES :

- > NO CRANE NECESSARY INCREASED SITE SECURITY
- > EASY CONTROL OF THE RERBAR POSITION
- **> EASY CONTROL OF THE POUR**
- POSSIBILITY TO POOR ONE ENTIRE STORY IN ONE PASS
- > EASY INTEGRATION OF SECOND WORK RESERVES (ELECTRICITY & PLUMBING)