



# COFFOR USA INC.

***INNOVATION  
IN  
CONSTRUCTION***

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# THE COFFOR SYSTEM

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

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# DESCRIPTION



- **INTEGRATED FORMWORK SYSTEM**
- **TWO GRIDS (RIBLATHE)**
- **HORIZONTAL LINKS CONNECT THE TWO SIDES TOGETHERE**
- **VERTICAL STIFFENERS EVERY 8 INCHES STRENGTHEN THE PANEL**
- **HOT DIP GALVANIZED STEEL**
- **WITH OR WITHOUT THERMAL INSULATION**

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 **DESCRIPTION (II)**



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

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 **CONCRETING**



LESS THAN 2% OF CONCRETE GO THROUGH THE GRIDS

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 **CONCRETING**



CONCRETE CAN BE POURED FROM THE SLAB FORMWORK OF THE UPPER FLOOR

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**THE COFFOR SYSTEM**



- **FAST**
- **EASY TO USE**
- **EXTREMELY COST EFFECTIVE**
- **ENVIRONMENTALLY FRIENDLY**

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**COFFOR CAN BUILD:**

- **FOUNDATIONS, CRAWL SPACES, COLUMNS, 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 !!!**

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**COFFOR BASICS**



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 **COFFOR BASICS**



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 **COFFOR BASICS**



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 **COFFOR HOUSES**



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**COFFOR RESIDENTIAL**

مشارقة رقم (٢٠) المرحلة الثانية  
مشروع البيت العائلي بمدينة ٦ أكتوبر

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**COFFOR RESIDENTIAL**

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**COFFOR RESIDENTIAL**

52 VILLAS DEVELOPMENT

**25 WORKERS  
COMPLETED IN 28 DAYS**

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**COFFOR RESIDENTIAL**



**10 STORY Building**  
**320.000 ft²**  
**COMPLETED IN 58 DAYS**

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**COFFOR RESIDENTIAL**



**FOUR 9 STORY AND ONE 12 STORY BUILDING TOTAL: 430.000 ft²**  
**3 MONTH FOR CONCRETE SHELL**  
**5 MONTH FOR SECOND WORK**  
**COMPLETED IN 8 MONTH**

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**COFFOR COMMERCIAL**



**WAREHOUSE WITH 40 FEET HIGH WALLS**

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**COFFOR COMMERCIAL**



**HOTEL WITH  
34 STORIES**

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**COFFOR COMMERCIAL**



Three images showing the construction of a swimming pool. The top two images show the pool deck with metal formwork and rebar reinforcement. The bottom image shows the finished pool.

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**COFFOR COMMERCIAL**



Two images showing the construction of a swimming pool. The top image shows the pool deck with metal formwork and rebar reinforcement. The bottom image shows the finished pool.

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## 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**

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## 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**

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## LABORATORY TESTS

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

- **RESISTANCE UNDER COMPRESSION ✓**
- **RESISTANCE UNDER DEFLEXION ✓**
- **BONDING OF THE C PROFILE TO CONCRETE ✓**
- **IMMEDIATE SHRINKAGE OF CONCRETE ✓**
- **CONCRETE QUALITY ✓**

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**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% !!!**

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**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**

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**COFFOR ADVANTAGES:**

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

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## INNOVATION COFFOR

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

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## INNOVATION COFFOR

- COFFOR IS ENVIRONMENTALLY FRIENDLY (NO WOOD BURNT ON SIDE & NO NEED FOR CLEANING OIL) AND PRESERVES NATURAL RESOURCES (**WOOD USE VASTLY REDUCED & USE OF BRICKS ELIMINATED**)

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## COFFOR vs SHUTTERS DISADVANTAGES :

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

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### **COFFOR vs SHUTTERS DISADVANTAGES :**

- NO DISMENTALING NECESSARY
- NO NEED FOR QUALIFIED WORKERS
- NO ACCESSORIES
- ELIMINATION OF ALL PROBLEMS RELATED TO SHUTTERS:  
**INVESTMENT, AVAILABILITY,  
TRANSPORT, CLEANING,  
MAINTENANCE, ROTATION, STORING**

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### **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**)

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