



WEARE CEMEX



WE ARE a leading provider of housing and high-scale infrastructure and a strong partner in the socio-economic development of emerging markets throughout the world. We aim to serve the needs of our customers and create value for our stakeholders by becoming the world's most efficient and innovative building solutions company.

OUR WORLD RANKINGS

#1
CONCRETE



1,900 ready-mix concrete facilities

#3
AGGREGATES



476 aggregates quarries [sand and gravel]

#4 CEMENT



57 cement plants







WE HAVE UNMATCHED EXPERTISE IN TAILOR-MADE SYSTEMS & SOLUTIONS

OUR EXPLOSIVE GROWTH IN HOUSING PROJECTS

FOR HOUSING PROJECTS

CUMULATIVE		15,913	712,412
2013*	19	8,140	366,300
2012	9	2,942	131,000
2011	6	3,259	145,115
2010	3	1,572	69,997
	OPERATING COUNTRIES	HOUSING UNITS	SQUARE METERS



WE PROVIDE HOUSING SYSTEMS & SOLUTIONS WITH RELEVANT AND DISTINCTIVE ATTRIBUTES



At our R&D centers in Mexico and Switzerland, we design and develop cutting-edge systems & solutions based on the thorough knowledge and application of concrete technology.

OUR SYSTEMS & SOLUTIONS ATTRIBUTES

Easily Adapted to Construction and Design Requirements

Resilient to Natural Disasters

High Thermal Mass & Insulation

Less Waste at Site

Significantly Reduces **Construction Construction** Time













ARCHITECTS

CONSTRUCTION COMPANIES GOVERNMENT AGENCIES CT MANAGERS

REAL ESTATE INVESTORS SOCIAL HOUSING OFFICIALS





OUR FIRST-CLASS WALL SYSTEMS

CAST IN PLACE FORM WORKS

The Best for Mass Production & Speed

WIRED EPS PANELS [EXPANDED POLYSTYRENE SYSTEM]

High Flexibility to Accommodate Design

ICF [INSULATED CONCRETE FORM]

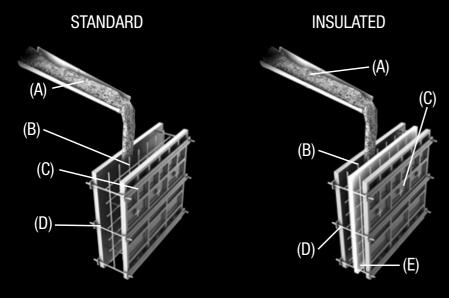
Perfect for High Performance Energy Efficiency

PRECAST SYSTEMS

Most Rational and Efficient Manufacturing Process

CAST IN PLACE **FORMWORKS**

Walls and decks casted in place with removable and predesigned formworks within concrete is poured continuously in one step producing a solid monolithic structure.



(A) Poured Concrete (B) Rebar (C) Formwork Panels (D) Connectors (E) Insulation Panel

BENEFITS(1):

35% Construction Time Reduction

40% Indirect & Financial Costs Reduction

12day/wage Reduction / Due to Savings in Labor Force

PARTICULARLY RECOMMENDED FOR:

- ✓ Mass Production of Horizontal and Vertical Housing
- ✓ Rapid Response for Natural Disaster Relief Programs

ATTRIBUTES:



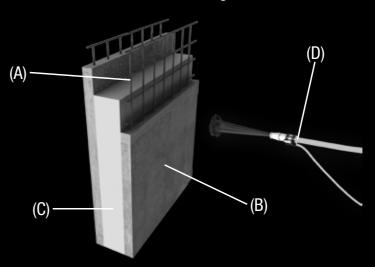




Analysis vs. Concrete Blocks in Mexico

WYRED EPS PANELS [EXPANDED POLYESTYRENE SYSTEM]

Prefabricated panel consisting of three dimensional steel wire mesh and a polystyrene insulation foam coated with shotcrete, providing a cost-efficient, sustainable building.



(A) Welded Wire Fabric (B) Field-Applied "Shotcrete" (C) Polystyrene Insulation Foam (D) Sprayed Concrete

BENEFITS (2):

15% Lower Costs

42% Energy Savings**

29% Higher Acoustic Performance

8x Speed of Construction

PARTICULARLY RECOMMENDED FOR:

- Speed and Lightweight Construction
- ✓ Designs Demanding Structural Flexibility and Thermal Insulation

ATTRIBUTES:





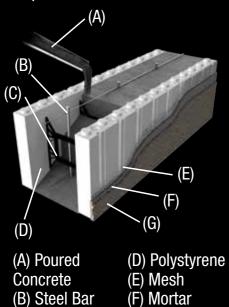


⁽²⁾Analysis vs. Red Clay Bricks in Egypt

10

ICF [INSULATED CONCRETE FORM]

Concrete wall system casted with stay-in-place formwork made of insulating materials, that is quicker to build and offers higher levels of thermal insulation, allowing you to have an insulated wall in one step.





BENEFITS⁽³⁾:

(C) Plastic Ties

33% Energy efficiency**

27% Material Cost Reduction

50% decrease in capacity of HVAC equipment

PARTICULARLY RECOMMENDED FOR:

(G) Finishes

✓ Low-Rise Residential

✓ High Performance, Energy Efficient Buildings

ATTRIBUTES:



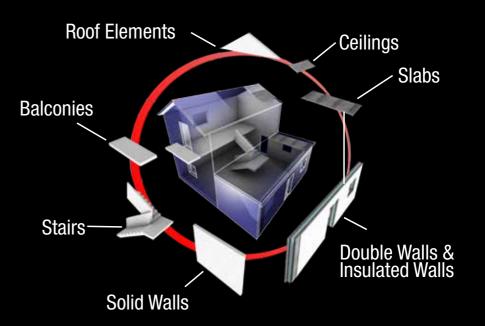




⁽³⁾Analysis vs. Concrete Blocks in France

PRECAST SYSTEMS

Walls and decks poured off site in a controlled and automated warehouse by then being transported to the job site and lifted into the place.



BENEFITS⁽⁴⁾:

70% Formwork Reduction

90% Scaffolding Reduction

30% Waste Reduction

PARTICULARLY RECOMMENDED FOR:

✓ Just-In-Time Production & Constant Quality

✓ Mass Production & Standardized High-Rise Residential

ATTRIBUTES:









Analysis vs.
Traditional
Construction
in Germany

We integrate design, products, and walling systems into housing solutions that are flexible & replicable





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INDUSTRIALIZED HOUSING

Fast, Efficient, and Large-Scale Housing Construction

DISASTER RELIEF HOUSING

The Best Response for Reconstruction After Natural Disasters

ENERGY EFFICIENT HOUSING

Most Competitive Solution for High Performance Buildings

AFFORDABLE HOUSING

The Lowest Possible Cost Without Giving Up Quality

VERTICAL HOUSING

Fast and Efficient Construction for High-Rise & Mid-Rise Residential





INDUSTRIALIZED HOUSTRIALIZED HOUSTRIALIZED [MONOLITHIC CAST-IN-PLACE]

It's a CEMEX Solution that allows fast, efficient, and large-scale construction through the combination of innovative products and processes.

The key element is the use of formwork molds for walls and slabs, which guarantee the project's completion in an efficient way and the capability to move quicker to the sale stage.

ADVANTAGES:

- ✓ Reduction in construction time by using special products and formwork in walls and slabs
- ✓ Less time to recover investment
- ✓ Savings in labor force; less people to perform the work
- Major improvement in quality: quality control of inputs, better supervision of processes, standardization of geometry
- ✓ Reduction of time in homes deliveries
- ✓ Savings on finishes and rework
- ✓ Savings in materials storage











INDUSTRIALIZED HOUSING [PRECAST]

CEMEX provides rational and efficient off-site manufacturing processes that ensure flexibility and adaptability for all construction requirements.

In precast construction, building elements are developed at special plants in an automated or semi-automated production process and then delivered for erection on-site.

Through this process, on-site quality concerns are reduced, enabling shorter construction times.

ADVANTAGES:

- ✓ Just-in-time production
- ✓ Precise prefabrication with individual geometries
- ✓ Smooth surface finishes, ready for wallpaper and painting
- ✓ Fast building process in a constant high quality
- ✓ Pre-installations [e.g., tubing for electrical wiring, plug sockets, heat conducting pipes, and openings] reduce construction time
- ✓ Adaptability to almost all customer's specifications
- ✓ Less on-site supervision by main contractor













DISASTER RELIEF

HOUSING

Cemex has an immediate response capacity to rebuild an enhance the number and quality of houses at natural disaster sites.

CEMEX's solution prioritizes the provision of decent, safe, and sanitary housing, with an emphasis on housing design and materials to reduce maintenance and insurance costs. The scope of intervention also includes site infrastructure construction. CEMEX's disaster relief housing designs are resistant to hurricanes, earthquakes, and tornadoes.

ADVANTAGES:

- ✓ Exterior walls withstand high temperatures without igniting
- ✓ Housing able to withstand winds in excess of 200 miles per hour
- ✓ Passive cooling/heating strategies due to the location and alignment of doors and windows
- ✓ Greater discounts on insurance costs if risk mitigation is considered adequate for natural disasters
- ✓ Solid and insulated roof decks prepared for accept vertical expansions













ENERGY EFFICIENT HOUSING

CEMEX combines its special products and systems to construct high-performance buildings, which consume less energy and natural resources and achieve high green building certification standards.

Our construction solutions maintain thermal continuity, minimizing thermal bridging and uncontrolled infiltration. Specific design principles on detailing issues are included in our solutions to avoid surface condensation and mould growth at junctions.

ADVANTAGES:

- ✓ Savings on energy consumption
- ✓ Energy efficient buildings diminish demands on central heating systems
- ✓ Simple service installation
- ✓ Less requirements for tools and equipment on site
- ✓ High design flexibility
- ✓ Variety of finishes















AFFORDABLE HOUSING

CEMEX has developed high quality housing, offered at the lowest possible cost.

CEMEX's Affordable Housing Solution takes advantage of the optimal use of materials and standardized production to minimize costs, reduce waste, and ensure housing quality.

Affordable Housing Solutions are offered in rural and urban areas, for housing developments, and to individual land users.

ADVANTAGES:

- ✓ Standardized production reduces the costs of windows, doors, and finishing due to the lower deviations in measurement
- ✓ Job site activities are simplified through better quality control and reduced rework
- ✓ Durability and monolithic construction require minimum maintenance
- Standardized production reduces the number of people required to perform the work, creating labor force savings













VERTICAL HOUSING

CEMEX has an integral solution for vertical housing, designed for quick construction. The construction system allows a wide variety of architectural designs, making it ideal for social and residential complexes.

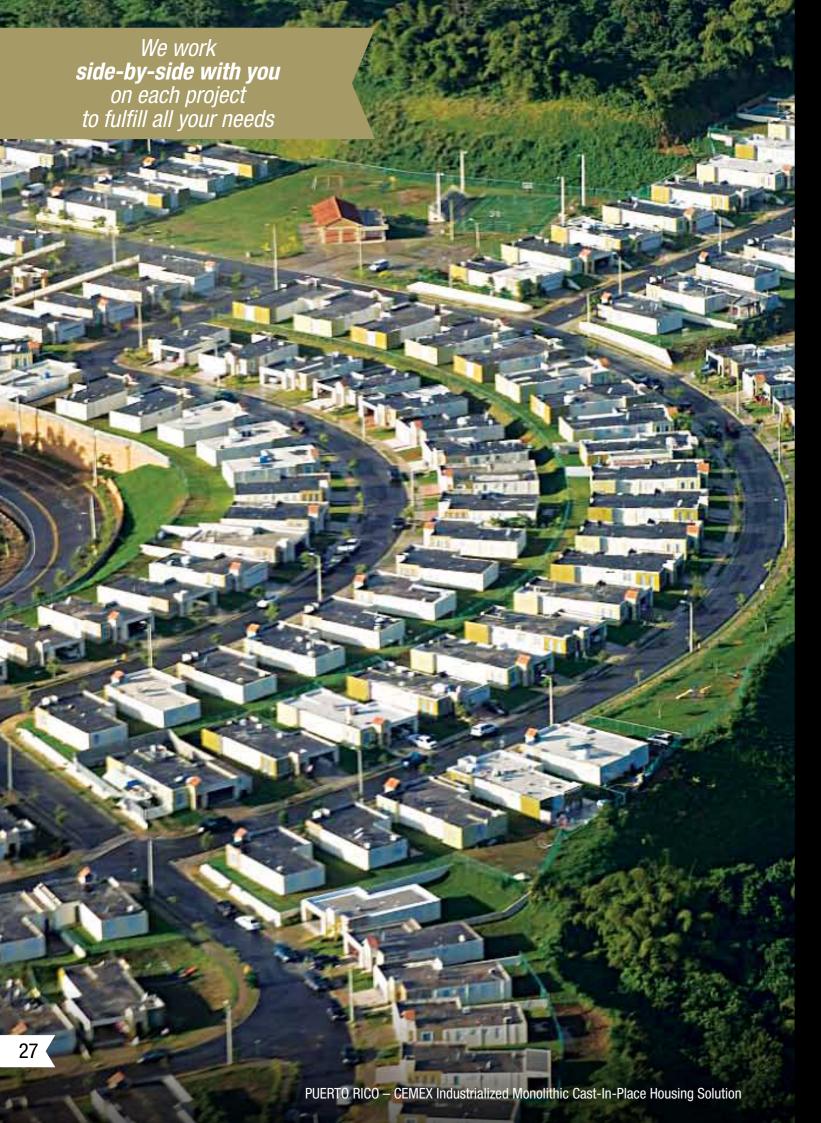
Mid-rise and high-rise residential buildings can be completed quickly and efficiently with high quality results.

ADVANTAGES:

- ✓ 3 days in shell structure work by floor vs. 2 weeks in traditional systems
- ✓ Steel reinforcement optimization
- ✓ Use of slender elements reduces the structure's weight and foundation costs
- ✓ Safer system; fewer people working at heights
- ✓ No need to brake up walls for plumbing and electrical work









WE OFFER INTEGRATED SERVICES TO REALIZE YOUR NEXT HOUSING PROJECT



We can take part in any of the phases of a project or participate in all phases as a **ONE-STOP-SHOP** for your housing project.





WE BRING HIGH VALUE-ADDED GREEN BUILDING SERVICES TO OUR CUSTOMERS

Bioclimatic Architecture

Integrated Engineering

Building Energy Modeling

Sustainable Materials & Solutions

Energy Monitoring & Auditing

Renewable Energy Supply

Building Certifications [e.g., LEED, BREEAM]

We help our clients with specialized services that differentiate their projects through sustainable attributes.



breeam





OUR PRODUCTS, SYSTEMS & SOLUTIONS CONTRIBUTION TO LEED CERTIFICATION

UP TO 46 POINTS OUT OF 110 AT STAKE



SUSTAINABLE SITES

Credit 2: Development Density and Community Connectivity

Credit 3: Brownfield Redevelopment

Credit 5.1: Site Development - Protect/Restore Habitat

Credit 5.2: Site Development - Maximize Open Space

Credit 6.1: Stormwater Design - Quantity Control

Credit C 6.2: Stormwater Design - Quality Control

Credit 7.1: Heat Island Effect - Nonroof

Credit 7.2: Heat Island Effect - Roof



ENERGY & ATMOSPHERE

Credit 1: Optimize Energy Performance



MATERIALS & RESOURCES

Credit 1.1: Building Reuse - Maintaining Existing Walls,

Floors, and Roof

Credit 2: Construction Waste management

Credit 4: Recycled Content

Credit 5: Regional Materials



INDOOR ENVIRONMENTAL QUALITY

Credit 4.3: Low Emitting Materials - Flooring Systems

Credit 8.1: Daylight and Views - Daylight



INNOVATION IN DESIGN

Credit 1: Innovation in Design





BENEFITS OF CEMEX'S HOUSING SOLUTIONS TO OUR CUSTOMERS

ARCHITECTS ENGINEERS

- Adaptability to all Specifications
- ✓ High Design Flexibility
- ✓ Variety of Finishing
- ✓ Precise Construction

CONSTRUCTION COMPANIES PROJECT MANAGERS

- Reduction in Construction Time and Costs
- Savings in Labor Force
- Less On-site Supervision
- ✓ Less Waste During Construction

DEVELOPERS REAL ESTATE INVESTORS

- ✓ Lower Overall Costs
- ✓ Less Time to Recover Investment
- ✓ Shorter Construction Time
- CEMEX Warranty as Supplier and Contractor

GOVERNMENT AGENCIES SOCIAL HOUSING OFFICIALS

- Reduction of Time in Homes Deliveries
- Durable and Resilience
- Support to Develop Communities
- ✓ Social intervention







BENEFIS OF CEMEX'S HOUSING SOLUTIONS TO OUR FINAL USERS

OCCUPANTS

- ✓ Higher Quality Standards
- ✓ Lower Energy Bills
- ✓ More durable structures, resistant to fire, tornado, earthquake and floods
- ✓ High Indoor Air Quality
- ✓ Improved Acoustic Performance

LOCAL COMMUNITIES

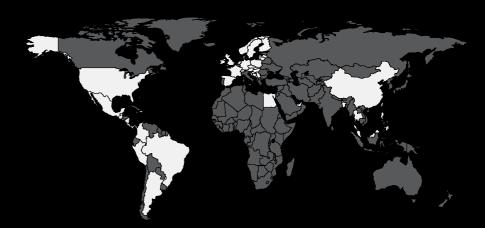
- ✓ Use of Local Labor
- ✓ Utilize Regional Materials
- ✓ Shorter Construction Time and less waste production
- ✓ Less Requirements of Equipment On-Site
- Resistant to Natural Disasters





WE HAVE

UNRIVALLED EXPERIENCE DELIVERING SYSTEMS AND SOLUTIONS FOR HOUSING PROJECTS WOORLDWIDE



WE HAVE operations in 50 countries throughout 4 continents.

ARGENTINA AUSTRIA BAHAMAS BANGLADESH BARBADOS BERMUDA BOSNIA AND HERZEGOVINA BRAZIL CHINA COLOMBIA COSTA RICA CROATIA CZECH REPUBLIC DOMINICAN REPUBLIC EGYPT EL SALVADOR FINLAND FRANCE GERMANY GUADELOUPE GUATEMALA HAITI HUNGARY IRELAND ISRAEL JAMAICA LATVIA LITHUANIA MALAYSIA MARTINIQUE MEXICO MONTENEGRO NETHERLANDS NICARAGUA NORWAY PANAMA PERU PHILIPPINES POLAND PUERTO RICO SLOVAKIA SPAIN SWEDEN SWITZERLAND TAIWAN THAILAND TRINIDAD AND TOBAGO UNITED ARAB EMIRATES UNITED KINGDOM UNITED STATES