EARTH FRIENDLY BLOCK™



Introducing "EF Block" ™

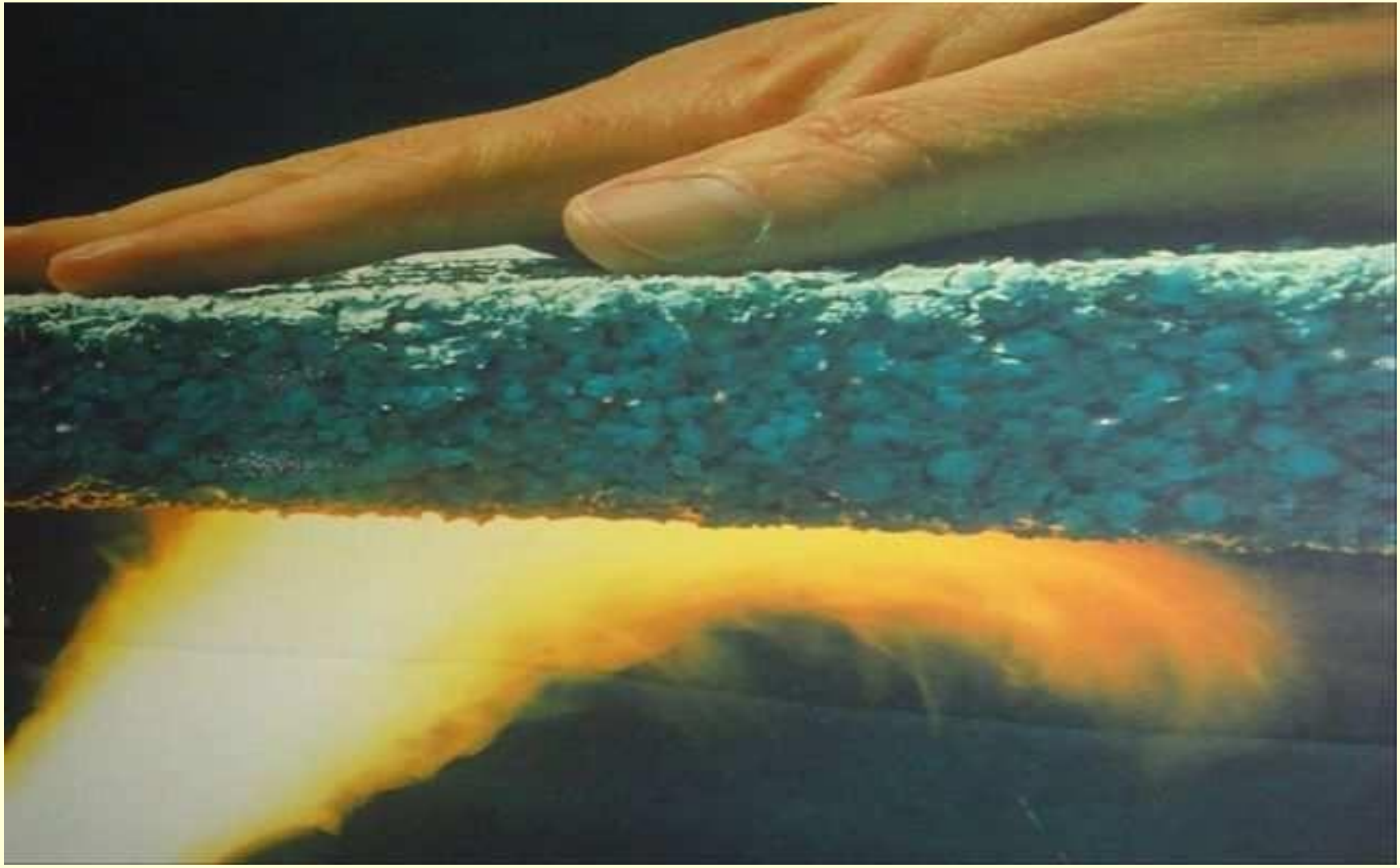
- Introduction to EF Block Building Materials
- Overview of EF Block and the competition
- The EF Block System Proprietary
- Plant, Product and Processes of the EF Block system
- Homes Built with the EF Block
- Commercial Buildings with EF Block
- Owning a Plant and Green Opportunities



Extraordinary Benefits…

- Built-in thermal insulative qualities equal to an R-40 insulated frame wall
- Hurricane resistant, 700% Stronger than a 2X6 frame with ½" shear wall
- Mold & mildew resistant
- Sound resistant, 53db sound absorption & 70stc rating
- Fire resistant, 4 hour fire rated
- Easy installation, will save significantly on construction time & labor
- Bug resistant: termites won't eat or nest in EF Block
- Truly green: made from 87% recycled post-consumer Styrofoam

EF Block is Fire Resistant.
4-hour fire rated.



EF Block Plant Tempe Az



Full Molds Tempe Plant



Recycled Styrofoam Ready to Grind









Tempe Plant Silos & Grinder



Tempe Block Ready to Ship



EF Block Plant, La Paz, Mexico



EF Block Plant, Kingman Az



Introduction to EF Block

A Truly Green Building Material

EF Block is manufactured from recycled post consumer and post industrial expanded polystyrene, which is then mixed with a binder. EF Block is 87% recycled material, which would otherwise end up in a landfill never to disintegrate. EF Block is a true “GREEN” building material.

EF Block is the building solution for economical, earth-friendly commercial and residential construction.

Our goal with the EF Block product is to develop, manufacture and build plants at millions less than similar concept’s. While producing a single mold product from 24 years experience the inventor has brought the best block to the market for commercial, residential and institutional builders worldwide.

The EF Block concept has been used to build over 20,000 structures in the US and Mexico.



Over View of the Block

- Perfect weight to volume ratio.
- Incredibly lightweight – five foot block can be handled by 1 person
- Expanded Fully Molded Design Block
- Increased durability – resistance to wind, earthquakes, etc.
- Ease of use - modifications on site simply executed
- Recyclable – no wood - Save 141 trees per 1,500 sq ft home
- No mold, pests, warping, mildew and fire resistant
- Reduced on-site construction time- no waste







The EF Block Concept

Specifications

Uses: EF Block's are used as permanent form work for structural concrete walls in buildings of any type of construction.

Description: EF Block's are hollow core forms comprised of a mixture of polystyrene beads, Portland Cement, admixtures and water; containing approximately 87% by volume of expanded polystyrene beads with a density of between 20 and 24 pcf. A Block has a compressive strength of ≥ 56 psi and a tensile strength of ≥ 43 psi. The expansion of a Block is the same as standard concrete (.0018 inch/ft.).

Concrete fill: Normal weight concrete with 3/8 inch maximum aggregate size and minimum compressive strength of 2500 psi at 28 days.

Reinforcement: Deformed steel reinforcement bars with a minimum yield stress of 40 ksi complying with ASTM A 615.

Structural design: Structural analysis and design of the concrete fill, steel reinforcement, and waterproofing is prepared in accordance with Building Codes.

EF BLOCK BENIFITS

Design, Construction & Efficiency- During construction, EF Block's are dry stacked on top of each other without the need for mortared seams. The panels are easy to cut and shape to fit nearly any design. As the block's are stacked, steel rods (rebar) are inserted in grid-work fashion throughout the cores, and then the cores are filled with concrete. Curved walls, dimensional walls rounded corners, leaning walls and arched openings are now easy and economical. On-site changes can be carried out with a snap.

Strength & Durability-EF Block's structures are 700% stronger then 2" x 6" wood framed structures. Walls are designed to stand up to the challenges of severe climates including tornados, fires, hurricanes and earthquakes.

Energy Efficiency-EF Block buildings show on average a 40% improvement in heating loss. EF Block buildings have a tighter building envelope and a higher insulating value, leading to fewer drafts and a decrease in operating costs to maintain a comfortable interior environment.

Maintenance-EF Block buildings are dimensionally stable, offering lower maintenance costs. With no wood to rot, no insects, paint lasts longer and stucco cracks are practically eliminated. HVAC units turn on/off less often. Reduced maintenance costs contribute to a lower cost-of-ownership, a good feature when you sell.

EF Block is made of 87% Recycled EPS



ASU ARIZONA STATE UNIVERSITY



ARIZONA SCIENCE CENTER



Build Green, Build Smart

- Environmentally Friendly
- Recyclable
- Quicker Build
- Efficient
- Mold Resistant
- Fire Retardant
- Termite Resistant
- Reduced Noise
- Tax Breaks
- Low Labor Costs
- Seismic Level 4 Approved



The EF Block is easier to install, and has better qualities than traditional wood framing . With ease of use in building and lower construction labor, Name brand corporations are accepting this **GREEN** Concept today.

McDonalds Tempe Az



EF Block Loading & Unloading









EF BLOCK GOES UP THIS EASY!



MEASURE IT



SCRIB IT



CUT IT



CHECK IT FOR PLUMB



GLUE IT



GROUT IT

UNDER CONSTRUCTION



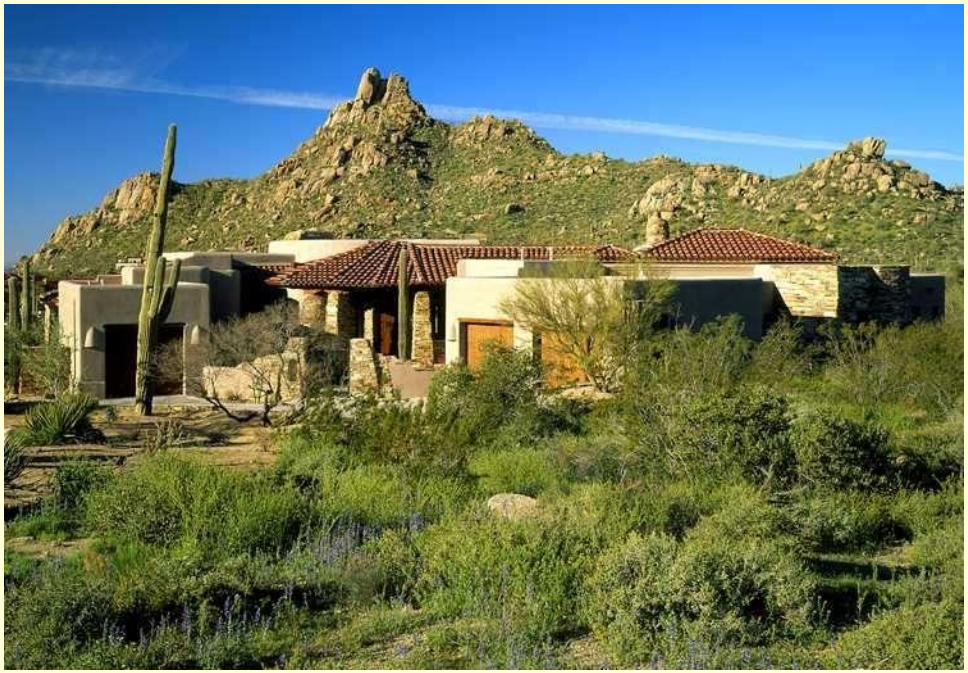






The EF Block has integrated environmentally responsible designs and construction principles into the custom building industry. Making it an ideal Global Green Building solution. We have over 300 custom designs for water falls, doors, panels, all shapes and sizes to customize any project.





COMMERCIAL PROJECTS









RESIDENTIAL PROJECTS









EF Block Endless Applications

Residential



- Low Income
- Planned Communities
- Custom Cabins
- Fencing

Industrial



- Warehouses
- Manufacturing Plants
- Distribution Centers
- Storage Sites

Military



- Offices
- Barracks
- Storage
- Fencing

Commercial



- Office Buildings
- Retail Buildings
- Apartments
- Condominiums

Institutional

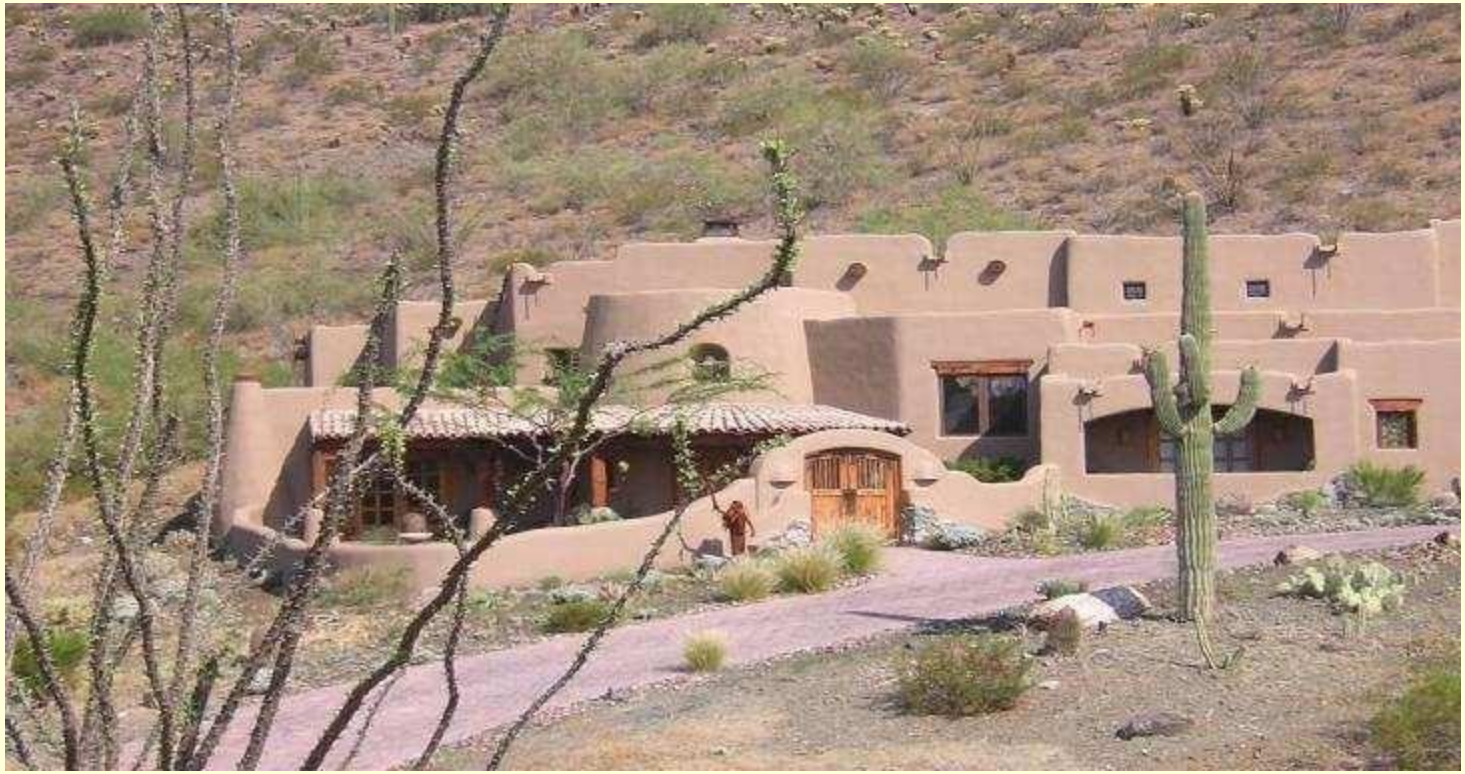


- Schools
- Libraries
- Churches
- Convention Centers

Complete Kits



- Flex Lofts
- Flex Plex Multi-use
- Security Stations
- Guest Quarters



THANK YOU

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