



# The Future in Superior Building Materials... *Today*

No other known wall system can match its Pricing, Performance Properties, or Green Status

# ECCO excels at meeting *Green-Building* Initiatives



A Gold Medal Choice whether for Residential or Commercial

## Price

- Natural low-cost composites & less energy to make
- Less Time – Material – Labor costs to install (~35% avg)
- Dense, Durable, & Near Maintenance Free

## Perform

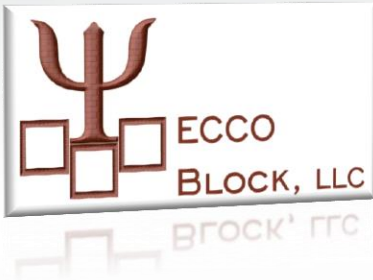
- Many performance qualities unmatched by alternatives
- Contributes to Gold & Platinum LEED status
- No emissions, toxic material, or waste runoff

## Value

- Disaster resilient & less costly in recoverability
- Residential efficiency: Up to 60% Less Energy Costs
- Qualifies for Tax Credits

*Going GREEN* drives property demand & values higher

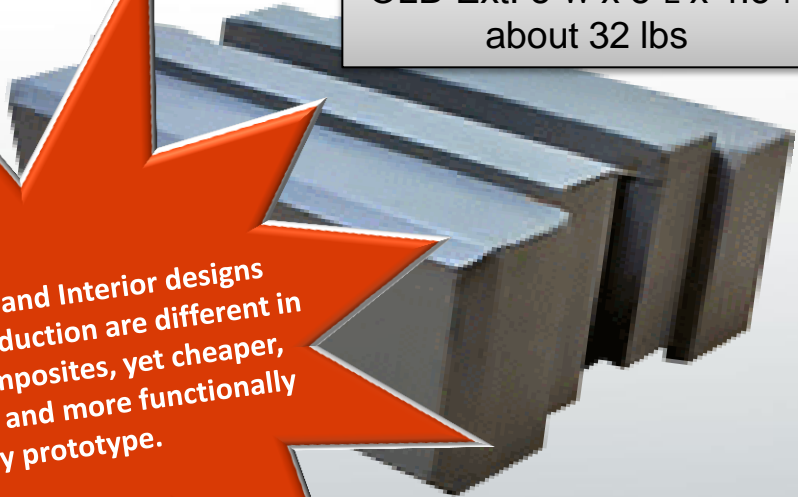




New designs are superior to these prototypes

OLD Ext: 8"W x 8"L x 4.5"H  
about 32 lbs

OLD Int: 4.5"W x 8"L x 4.5"H  
about 13 lbs



Proprietary designs and composite technologies result in blocks offering several exceptional performance properties for building a durable monolithic wall.

Won the INPEX Invention of the Year Award in 2010



# Build to several preferred exterior looks

Applied materials bond to the block without cracking or separating



Can provide the look of Brick – Stucco  
Siding – Shake – Stone – Veneers

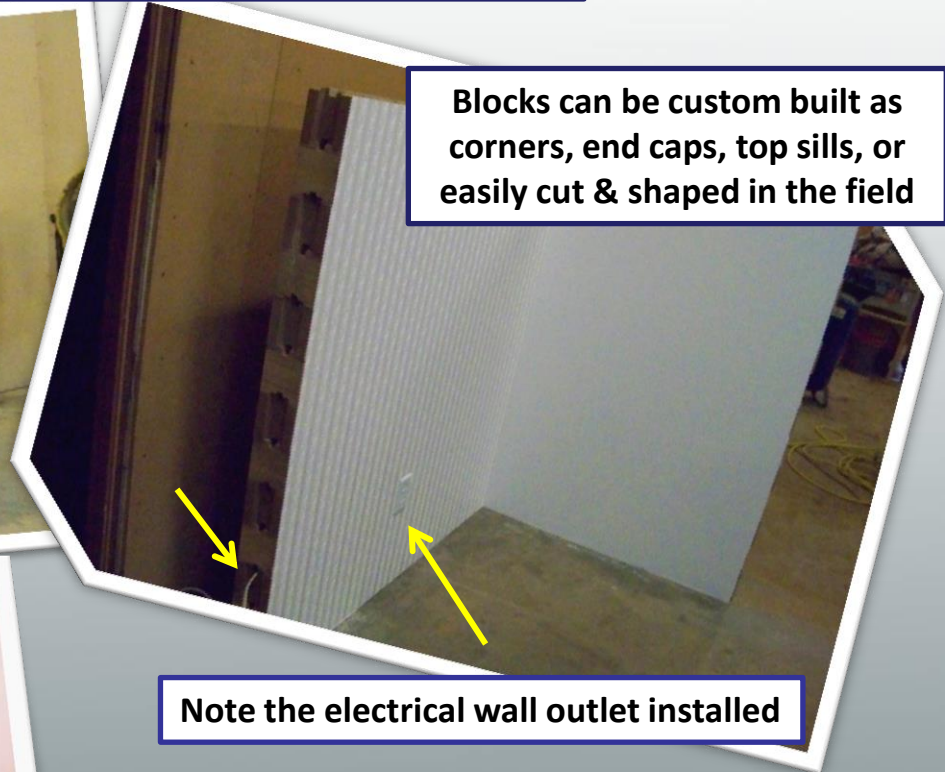
# Samples of Early Wall Prototypes



Interlocking Precision & Adhesive Bonding = a MORTAR-FREE monolithic wall unit that Reduces COSTS of: install time, material, skilled Labor, insulation, re-bar, maintenance



Blocks can be custom built as corners, end caps, top sills, or easily cut & shaped in the field



Note the electrical wall outlet installed



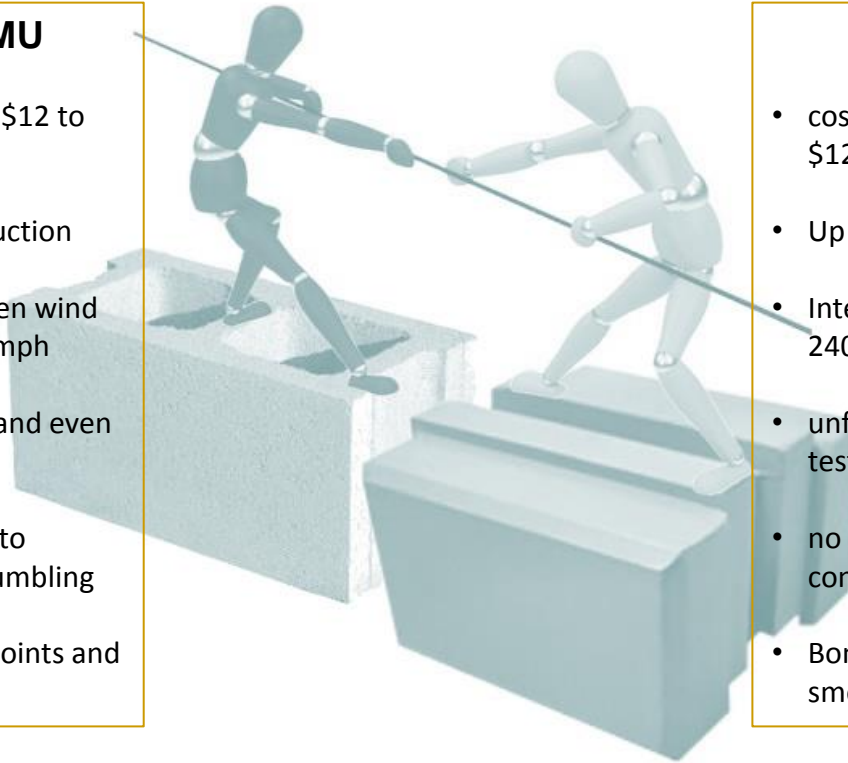
Can be painted smooth, veneered, and even wallpapered as shown

# Just how disruptive is ECCO block's technology?

*block vs block, a general comparison...*

## CONCRETE CMU

- costs range from about \$12 to \$28/ft<sup>2</sup>
- 2000 PSI avg for construction
- Tend to break apart when wind velocities exceeds 120 mph
- fire can cause cracking and even bursting at ~1000°
- mortar & block subject to dislodging, cracking, crumbling
- can be painted though joints and rough surfaces exposed



## ECCO BLOCK

- costs range from about \$7 to \$12/ft<sup>2</sup> (~25% to 60% < CMU's)
- Up to 4 x stronger
- Interlocking wall unit tested at 240+ mph (new may be 300+)
- unfazed by concentrated torch tests at 1850°; kiln tested 2700 °
- no noticeable expansion – contraction
- Bonds with coatings, sealants; smooth painted or wall papered

**A 100% Disruptive Technology**  
**Where 90% of U.S. Homes are Stick-Built**

# Cost Comparisons... median all-in costs for common commercial exterior wall systems over 10,000 ft<sup>2</sup> compiled by Capital Building Consultants from surveys over eastern half of the U.S.

Brick/Block Veneer; Util. Brk/Blk; Wood/Metal Frame	\$20/ft <sup>2</sup>	Utility Brick & Block Cavity; Block & Block Cavity	\$25/ft <sup>2</sup>
Brick & Block Barrier Wall	\$29/ft <sup>2</sup>	12" Split Face Block	\$19/ft <sup>2</sup>
Stucco on Concrete Masonry Unit (CMU)	\$24/ft <sup>2</sup>	Hardcoat Simulated Stucco	\$14/ft <sup>2</sup>
Precast Concrete Tilt-Up Panels/Fluted Panels	\$17/ft <sup>2</sup>	8" Split Face Colored Block	\$18/ft <sup>2</sup>
Industrial Ribbed Metal Siding	\$16/ft <sup>2</sup>	Metal Curtain Wall	\$38/ft <sup>2</sup>
Hollow Structural Brick	\$21/ft <sup>2</sup>	Ground Face Block	\$24/ft <sup>2</sup>
8" Split Ext. Loadbearing, Reinforced-Insulated Masonry	\$13/ft <sup>2</sup>	8" Ext. Loadbearing Reinforced-Uninsulated CMU	\$12/ft <sup>2</sup>

Exterior or Interior, ECCO's All-in COST / sq. ft.... incl. allowance for variables = **\$7 – \$12 / sq. ft.**



ECCO wall systems will range from about **27% to 62% Less / sq. ft.** than conventional wall systems...

**NO other known products can match ECCO's PRICING – PERFORMANCE – GREEN STATUS**

For example, what if ECCO's **Wind-Resistant** blocks...

were installed in the only buildings left standing after devastating hurricanes and tornadoes?



How many Schools, Hospitals, Factories, Commercial Buildings... or entire neighborhoods could be saved?

**How many precious LIVES can be spared?**

How significant the reduction in COST of salvage, rebuilding, and damage claims?

*Certified tests have shown ECCO Blocks are capable of withstanding sustained wind speeds over 240 mph... about double that of CMU's*



Or if ECCO's ***Fire Retardant*** blocks...  
could contain fires to a single room or floor?



How many LIVES – PROPERTIES Saved? What if loved ones were in such an Apartment, Home, Hotel, Motel, Resort, Hospital, School, Factory? Fully engulfed fires burn at ~1200° max. **ECCO Blocks unfazed at +2000°**

# What if ECCO's *Water Resistant* blocks...

were the only structures salvaged after floods and tidal surges?

Do you remember Hurricane Katrina?



Likely see \$Billions in reduced Insurance Premiums & Recovery Costs; No Denials



Hurricanes Andrew and Sandy?



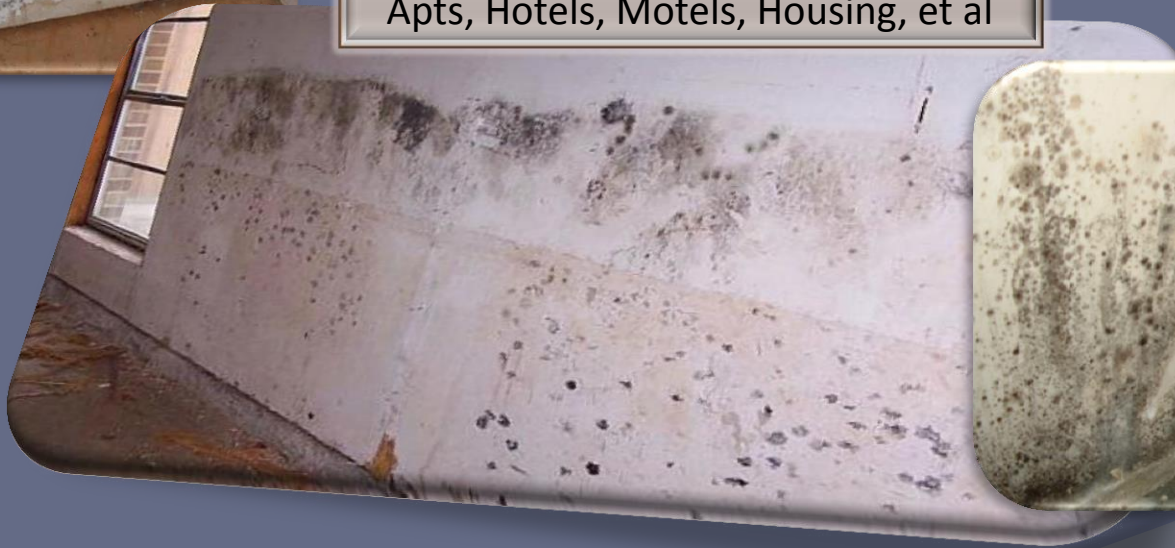
FACT: 70% of insurance claims are for water, mold & mildew damage

# What if ECCO's *Mold Resistant* blocks...

were the only structures that remained  
free of deadly mold and mildew?



**Enhances LEED objectives...** perfect  
for Schools, Hospitals & Clinics, Labs,  
Apts, Hotels, Motels, Housing, et al



Especially in areas prone to floods,  
tidal surges, and high humidity

No need to tear out entire interiors... easy clean up,  
at worst, perhaps a new coat of paint and done

# What if ECCO's *Dense & Durable* blocks...

could offer long term maintenance-free and stylish walls for earth, terrace, and water retention projects?

Interlocking **Mortar - Free** Adhesive Bonding

No weak joints, dislodging, cracking  
Superior option against expansion - contraction



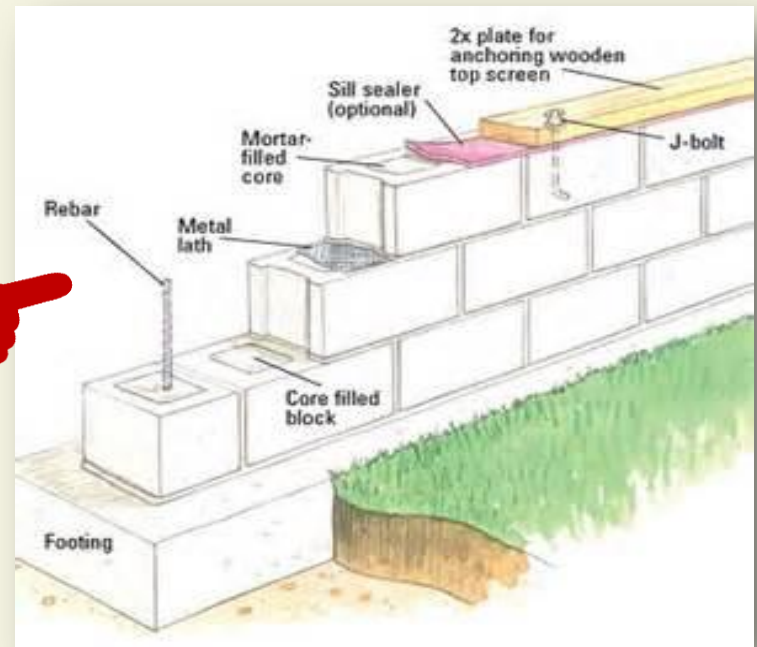


Demand likely to always out-pace production

if for only one reason...  
**PRICE!**

Line by line item, ECCO walls cost considerably less per sq. ft. than conventional CMU wall systems

ECCO eliminates the need for mortar, highly-skilled labor, vapor barriers, reinforcing, insulation, drywall, and regular maintenance



**Truly a Disruptive Technology**

*“Sort of how gypsum board replaced plaster”*



Pricing aside, it's also a **SOLUTION** when no other product will work. ECCO is earmarked to supply a multi-billion dollar entity in need of ~275 MILLION block for up to 25,000 residential units.



**ECCO has identified a State Alliance Group with a \$42B budget interested in ECCO block for its superb performance criteria for building—**

*“... a sustainable community unlike any before seen in the USA... in this particular case, between 15,000 - 25,000 single-family residential units are planned for fulfillment. The opportunity comes from the fact that building has not yet fully commenced, not for a lack of resources, but for a lack of a building materials solution.”*

## Translation?

**ECCO Blocks are the only solution that:**

- replaces conventional materials that cannot meet project criteria such as an ability to withstand Category 5 hurricane wind speeds; prevent rot and damage from flooding and tidal surges; plus prevent damage from termite infestations
- by default, will likely reduce insurance premiums as a bonus



Perhaps a familiar-looking product, yet a new technology likely to be a game-changer within the building materials industry.

No known alternative products can match ECCO Blocks for pricing, performance properties, or green status.



**Fire Proof**



**Superb Water Repellant**



**Insect Proof**



**Wall Cost Avg  
~40% Less/s.f.**



**Enhances LEED Status**

**EF-5 Wind Resistant**



**Effective Sound Barrier**



**Mold - Mildew Resistant**



**Less to Install & Maintain**



**Optimizes Insular Value**

