



**DO WE OFFER THE
CAPACITY TO ENDURE?
ABSOLUTELY!**



METROMONT™

RESPONSIBILITY. RELIABILITY. SUSTAINABILITY.

The Brundland Commission defined sustainability as “meeting the needs of the present generation without compromising the needs of future generations to meet their own needs.” In other words, sustainability is our capacity to endure. As an industry. As a society. And as a people. We do this by making the most of our resources and by recycling and reusing materials whenever possible in a responsible and efficient manner.

Metromont is a leading provider of precast/prestressed concrete building systems, which offers a host of inherent sustainability benefits both during the construction process and long after the building or structure has been completed. Through thermal efficiency, recycled content, local materials, minimal waste and more, we help enhance each building’s sustainability and assist in contributing to LEED® points, ENERGY STAR ratings, Green Globes™ assessments and ASHRAE energy standards.

We invite you to discover how you can save time, save money and help save the planet through Metromont’s precast concrete building solutions.

We have seen owners, developers and architects demanding more and more sustainable buildings in the past few years. Buildings that are more durable, more efficient to operate and that will provide a longer life cycle with adaptive re-use in mind. Metromont’s precast building solutions offer the capacity to endure on all counts, and at a very competitive price when compared to other forms of construction. From our thermal efficient wall panels to our carbon-fiber-grid double tees, we’re helping to reduce materials, reduce waste and reduce the energy required to operate buildings.

–Rick Pennell, Metromont President & CEO





SUSTAINABILITY BEGINS AT HOME.

Metromont's thermal efficient precast concrete building systems with continuous insulation offer a host of sustainability benefits both during the construction process and long after the building has been completed. In addition, Metromont has incorporated a number of innovative sustainable initiatives within our own manufacturing facilities. The result is the reduction of a considerable amount of energy over both the short and long term. And as with just about every sustainability idea, each not only helps protect the world we live in, but also reduces costs significantly.

Offsite Manufacturing and Minimal Waste

Since precast concrete building systems are manufactured in a controlled environment, we minimize building material waste along with construction site noise and dust. Typically less than 2% waste is created and up to 95% of that waste is reclaimed and/or recycled into other products.

Water Recycling and Aggregate Reclaiming

Recycling of all concrete slurry water and reclaiming of aggregates is becoming common in concrete manufacturing facilities. Metromont is leading the way in the concrete industry with one of the world's largest recycling and reclaiming processes at our Greenville, Hiram, Richmond and Florida manufacturing facilities. In one plant alone, we recycle approximately 6.3 million gallons of water per year. This commitment in sustainable manufacturing is not only saving a precious resource, it has decreased our water bill by more than 70%.

Metromont has incorporated a number of innovative sustainable initiatives within our own manufacturing facilities... each not only helps protect the world we live in, but also reduces costs significantly.

PROXIMITY HOTEL

First LEED® Platinum Hotel in U.S.

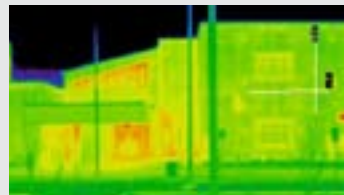


Thermal efficient precast panels help Proximity use 36.5% less energy than a conventional hotel.

MAKING SUSTAINABILITY WORK FOR YOU



Thermal Mass Effect
Concrete has the ability to store energy and dampen the effect of temperature change. The high thermal mass of concrete can reduce total heating and cooling energy requirements by up to 25% compared to other types of construction materials.



Continuous Insulation
Continuous Insulation in precast wall systems greatly enhances both energy efficiency and moisture control, improving thermal efficiency and typically exceeding ASHRAE energy standards for mass wall requirements.



REDUCE. REUSE. RECYCLE.

Local and Regional Materials

In the regional markets we serve, typically 80-90% of the materials are extracted, manufactured, delivered and installed within 100 – 500 miles of all project sites.

Reduced Materials

Integrated design allows for a substantial reduction in material consumption and use. For example, a full bed depth brick utilizes five times the raw material of thin brick. By using non-corrosive C-GRID® carbon fiber reinforcing in our Double Tees, we reduce weight by up to 8%. Additionally, perimeter steel columns and fire proofing can be eliminated by utilizing the load carrying capacity of a fully composite, thermal efficient precast wall panel. The integrated design utilizes less material, costs less, is extremely durable and it can provide aesthetically pleasing architecture.

Materials with Recycled Content

Numerous materials with recycled content are used in precast concrete components. From rebar and steel mesh, to form liners, insulation and fly ash. Fly ash is the waste by-product of burning coal in electrical power plants. Generally, 15-20% of burned coal takes the form of fly ash. At one time, most fly ash was landfilled, but today a significant portion is used in concrete. Metromont incorporates 15-35% of fly ash in most structural products if allowed by specifications.

A typical total precast building solution contains 25-35% recycled content. Of this, post-consumer content accounts for 20-25%, while pre-consumer content accounts for 5-10%.

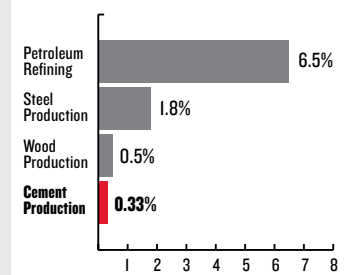
MAKING SUSTAINABILITY WORK FOR YOU



Minimal Site Disturbance

Total precast building systems are routinely installed from the inside out. The result is minimal site disturbance, reduction/elimination of site laydown area and perimeter scaffolding.

2008 U.S. Energy Consumption (According to the Department of Energy)





THE BOTTOM GREEN LINE.

Everyone has their own unique set of motivations for incorporating sustainability into their buildings. Some are following codes. Others are following trends. While others still are leading the way for new and innovative initiatives. One thing connects them all, and that's the appreciation of the significant cost benefits that can be achieved across the life cycle of the building.

Much of this savings comes from the fact that concrete has the ability to store energy and dampen the effect of temperature change on heating and cooling systems. This is known as Thermal Mass Effect. The cost benefits to owners include:

- Long-term energy savings – less energy to heat or cool a structure
- Smaller investment in HVAC equipment
- Off-peak energy used due to lag in peak demand

When you consider that 65% of the electricity generated in the U.S. is used to heat, cool and operate buildings, and that 30% of greenhouse gas emissions are from buildings, this reduction has a significant financial and environmental impact.

Precast concrete components minimize internal temperature changes and reduce peak heating and cooling loads, which results in lower operating costs and greater occupant satisfaction.

REDUCING YOUR FINANCIAL FOOTPRINT



When Georgia State University planned the construction of the largest privately funded university housing complex in the nation, they opted to use precast. This decision took months off the construction schedule and six figures off their energy bill for the first year!

Design Case

Energy simulation for all building loads (brick/steel studs/batt insulation):
\$1,244,000

The actual energy cost for the first year (precast with continuous insulation):
\$833,000

The Result:
Savings of **33%** or **\$411,000**
in the first year!



A LITTLE **PLANNING** GOES A LONG WAY.

At its core, sustainability is about being responsible stewards of our limited resources. At Metromont, we take this responsibility seriously and, in fact, go beyond environmental impact and are cognizant of those highly precious and intangible resources like time, space, noise and beauty. We come to every table to listen – to hear what you want to achieve and how you want to achieve it. Then we work with the whole team to craft a custom solution. One that takes into consideration the whole building: its lifecycle and its objectives. In the end, we champion your vision. We celebrate your achievements. And we incorporate sustainability along the way.

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We champion your vision. We celebrate your achievements. And we incorporate sustainability along the way.

BOOKENDS Mixed-Use Structures



LEED® Registered Project

GSA-SSA Parking Structures



Integrated Rainwater Collection

HUBBEL LIGHTING, INC Office Buildings and Data Centers



LEED® Silver Project

TWIN RIVERS MIDDLE SCHOOL Schools and Dormitories



Built for \$97.40/sq. ft.

TEAM METROMONT

We live for a challenge and thrive on results. Our passionate team is focused on delivering high performance precast solutions, while turning our customers into heroes! Our expertise spans from schools, office buildings and parking structures to industrial plants, justice facilities and stadiums. We're ready to take on your greatest challenge. Try us.



1-888-295-0383

www.metromont.com