

INSULATED PRECAST CONCRETE VS. INSULATED METAL PANELS

CHOOSING THE RIGHT WALL SYSTEM FOR YOUR BUILDING

Both systems provide insulation and weather protection—but the way they perform, and what they offer over the life of the building, can be very different.

BUILT TO PROTECT YOUR INVESTMENT

What does your building need to withstand?

SEVERE WEATHER

Wind, hail, heavy rain & snow

FIRE

Non-combustible construction & fire resistance

EXTREME TEMPERATURES

Insulation & thermal performance

IMPACT & SECURITY

Strength, durability & resistance to damage

LOW MAINTENANCE

Less upkeep over the building's life

LONG-TERM VALUE

Performance that lasts for decades

TWO SYSTEMS. DIFFERENT PERFORMANCE.

EAGLE BUILDERS INSULATED PRECAST CONCRETE

A load-bearing insulated sandwich panel combining structure, insulation and exterior/interior finishes in one system.

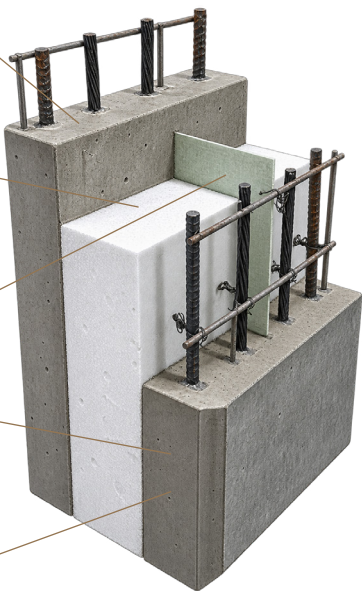
Exterior Concrete Wythe
3-4" concrete
Durable, non-combustible finish

Continuous Insulation
Typically 4-6" EPS, XPS or Mineral Wool
High thermal performance

Shear Connectors Non Conductive
Connect the concrete wythes for structural performance

Interior Concrete Wythe
3-4" concrete
Fire resistant & impact resistant

Load-Bearing Panel
Carries vertical & lateral loads
Reduces additional structural requirements



KEY STATS

Typical Panel Thickness
8-12"

Typical R-Value*
R-20-R-30

Fire Resistance
2-4 hours

INSULATED METAL PANEL (IMP)

A lightweight wall system consisting of insulated metal panels supported by a steel frame.

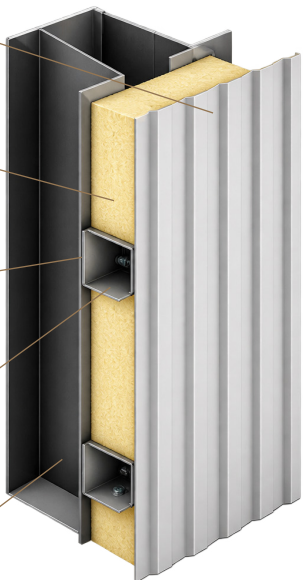
Exterior Metal Skin
26-24 ga. steel
Protective coating

Insulation Core
Typically 2-4"
PIR or mineral wool

Interior Metal Liner
26-22 ga. steel
Interior finish

Steel Girt / Purlin
Supports the wall panels

Steel Frame
Carries building loads
Separate from the wall panel



KEY STATS

Typical Panel Thickness
3-6"

Typical R-Value*
R-15-R-24

Fire Resistance
0-1 hour**



PERFORMANCE AT A GLANCE

	EAGLE INSULATED PRECAST	INSULATED METAL PANEL
Structure	Load-bearing wall system	Requires separate steel framing
Thermal Performance	High insulation + thermal mass	Insulation within panel
Fire	Non-combustible concrete	Rating varies by assembly
Weather & Impact	High resistance to wind, hail and impact	More susceptible to dents and coating damage
Maintenance	Minimal ongoing maintenance	Periodic inspection and panel maintenance
Construction	Large panels installed quickly	Lightweight panels installed on steel framing
Longevity	Designed for long-term durability	Greater exposure to corrosion, damage and replacement

WHY PRECAST? ONE PANEL. MULTIPLE FUNCTIONS.

STRUCTURAL

Load-bearing panels can reduce the need for additional structural elements.

DURABLE

Concrete resists impact, weather, corrosion and everyday wear.

LOW MAINTENANCE

A durable exterior means less ongoing upkeep.

THERMAL

Continuous insulation and concrete thermal mass support stable interior temperatures.

FIRE RESISTANT

Non-combustible concrete provides inherent fire resistance.

LONG-TERM VALUE

A high-performance building envelope can reduce lifecycle costs over time.

WHERE EACH SYSTEM FITS

EAGLE BUILDERS INSULATED PRECAST

Ideal for projects where durability, fire performance, weather resistance and long-term value are priorities.

- ✓ Agricultural
- ✓ Commercial
- ✓ Industrial
- ✓ Institutional
- ✓ Infrastructure
- ✓ Multi-residential

INSULATED METAL PANELS

Often suited to projects where low upfront cost, lightweight construction or future flexibility are key considerations.

- ✓ Budget-sensitive projects
- ✓ Shorter-term ownership
- ✓ Lightweight building requirements
- ✓ Projects requiring future reconfiguration

THE BOTTOM LINE YOUR WALL SYSTEM IS MORE THAN AN EXTERIOR.

It affects your building's structure, energy performance, durability, maintenance and long-term value.

Eagle insulated precast concrete panels combine these functions into one durable, high-performance system—built to perform for decades.