

# **EASI-SET<sup>®</sup>**

**TRANSPORTABLE PRECAST  
CONCRETE BUILDINGS**

Available throughout North  
America from EASI-SET<sup>®</sup>  
licensed manufacturers

- Weather-tight
- Fast Installation
- No Footing Needed
- Small to Ultra-Large
- Maintenance Free
- Cost Effective
- Secure



[www.PrecastBuildings.com](http://www.PrecastBuildings.com)

# EASI-SET® Steel-Reinforced Precast Concrete Buildings:

The originator of and industry leader in transportable concrete buildings offers patented post-tensioned roof and floor features which provide even greater weather-tightness and impact resistance.

## Durable

- **Impact resistant:** upgraded post-tensioned design increases average compressive strengths by 28% and increases distribution of radial compressive forces by 33%.
- **Weather-tight:** special roof and floor design provides superior watertight construction and interior and exterior panel joints are caulked with polyurethane concrete sealant.
- **Maintenance Free:** will not rust, warp, corrode, rot or burn and retains finish without maintenance.
- **Heavy-Duty Construction:** galvanized insulated doors, deluxe door hardware and extruded aluminum threshold with integral seal.



**Post-tensioned roof design:** Withstands the impact of a 100-pound block of ice dropped from 200 feet without any internal or external damage.



*Fallen mature oak tree causes no damage*

## Secure

- **Vandal resistant:** steel-reinforced precast concrete construction, tamper-proof hinges, deadbolt locks and steel doors.
- **Bullet resistant:** UL 752 — Level 4 bullet resistant. (See page 7)
- **Fire resistant:** standard fire rating of 1.5 hours with additional protection available.
- **Earthquake resistant:** rated Seismic Zone 4.
- **Hurricane resistant:** withstands up to 130 mph wind loads standard (150 mph available).
- **Petrochemical blast resistant.**

## Versatile

- **Standard sizes:** 10' x 12', 12' x 16', and 12' x 20' (exterior dimensions) with EASI-SET® transportable custom designs and sizes available.
- **Ultra-large sizes:** EASI-SPAN® Modular Expandable precast concrete buildings are available with 20', 24', 30' and 40' clear spans. (See page 5)
- **Exterior-finish choices:** many options offered to provide compatibility with surrounding or adjacent buildings. (See back cover)
- **Unlimited optional features:** buildings can be provided with gabled roofs and outfitted as required.



*Walnut Creek pump station with optional roof detail, Lancaster, NY*

# EASI-SET®

The nationwide network of licensed manufacturers ensures availability of the highest quality buildings where you want them and when you want them.

## Practical

- **Gets your site operational fast:** quick installation and simple site preparation. With built-in floor, no foundations are necessary unless required by local codes. Buildings can also be delivered preassembled, without a floor, and placed on a pre-poured concrete slab.
- **Reduces maintenance expenses:** durable and vandal resistant with lifetime finishes.
- **Saves money:** costs much less than comparable built-in-place construction.
- **Relocatable:** can be moved when needs change.

## Weather-tight Features



### Turn-Down Roof:

Prefabricated turn-down roof caps the walls with an architectural ribbed edge. This design protects the roof joint from direct exposure to driving rain, provides a drip edge which prevents moisture penetration, and ensures a watertight interior.

**Above-Door Rain Guard:** Drip edge protection increases watertightness.



**Galvanized Door and Frame:** Specially reinforced for high quality with mechanical hold-open arm.



**Raised Aluminum Threshold:** Extruded aluminum threshold with integral neoprene seal provides unsurpassed moisture, dust and pest resistance.

**Improved Radial Post-Tension Design:** Provides superior weather-tight construction.



### Step-Down Floor:

Perimeter of floor is recessed so that the wall joint is below top of floor, which ensures additional watertight integrity.



Quick installation of Navigational Aide Building at Dulles International Airport

## It Works!

*Thank you for your help in the purchase of two 12' x 16' precast concrete buildings. Due to network expansion, AT&T placed additional equipment at critical locations to satisfy customer requirements. My territory needed building expansion at two sites, and the due dates required quick delivery and short setup.*

*These buildings provide maximum security for our equipment and require minimum site preparation. They were delivered on time, set quickly and correctly. Within just a few hours the building was ready for HVAC and electrical installations.*

*All of our due dates were either met or bettered by using your buildings rather than conventional construction. We have used this technique also in West Virginia and western Pennsylvania with the same excellent results.*

*I plan to utilize EASI-SET® Buildings for our future network needs.*

Sincerely,  
Gregory A. Carter  
Building Engineer, AT&T

# EASI-SET® Additional Buildings

## Spill Containment

### HAZARDOUS MATERIAL STORAGE: Maximum Security and Protection

#### STANDARD FEATURES

- **Standard building sizes:** 10' x 12' x 8'-8" and 12' x 20' x 8'-8" with storage capacities for 20 and 45, 50-gallon drums, respectively.
- **Maximum protection:** high-strength, thick, steel-reinforced precast concrete.
- **Crack and water penetration resistance:** 4" thick post-tensioned roof and floor slabs.
- **Easy access:** double-steel entry doors.
- **Greater containment capabilities:** secondary spill containment sump holds more than 33% of drum storage capacity (exceeds the minimum EPA required sump capacity specified in 40 CFR Par. 264.175).
- **Safe:** galvanized steel or fiberglass grating elevates containers above floor surface (corrosion resistant fiberglass provides 250 psf loading, skid resistant and spark resistant).

#### AVAILABLE OPTIONS

- Larger containment capacities.
- Customized duct, pipe or wire openings.
- Special corrosion-resistant epoxy coatings.
- Static grounding systems to prevent sparks.
- Fire rated doors.
- Interior climate controls.
- Fire, security and spill alarm systems.
- Fire protection system with sprinkler and/or dry chemical fire suppression.
- Explosion-proof lighting and electrical systems.
- Custom explosion-relief panels.
- DOT and NFPA warning signs and placards.
- Ventilation systems to prevent hazardous vapor accumulation.
- Roll-up garage doors.
- Non-corrosive doors and hardware.



*Building provides  
spill-containment  
protection*



## Ultra-Large Buildings

*EASI-SET® provides the largest, precast concrete buildings.*



*Combination concessions and restrooms*



*Unobstructed space allows room for large equipment  
Independent Hill, VA*



*Electrical Substation, Board of Public Utilities*

# Buildings EASI-SPAN® EXPANDABLE BUILDINGS

...-engineered, transportable precast concrete building in the industry.



- **Self-supporting clear-span roof:** available in widths of 20', 24', 30', and 40'.
- **Sizes:** combine roof sections (in 10' lengths) for overall building lengths up to 200'.
- **Easily transported and installed.**
- **No footing or foundation required.**
- **Expandable length:** the only precast building in the industry with the ability to be lengthened, as needs change, and still maintain the original monolithic structural roof.



Additional sections can be attached to existing structure.

The engineering capabilities of EASI-SET® and its manufacturing network allow the design and production of bigger, more specialized buildings to meet your specific needs.

**EASI-SPAN® expandable precast building... assembled in days for a “lifetime of security”**

The optional EXPANDABLE building maintains the original structural and water-tight integrity during future expansions.



equipment,



ies, Jamestown, NY



Unobstructed 30' W x 24' H x 60' L space allows room for large hydroturbine equipment, Mesa, AZ

**EASI-SET®** offers customers the largest selection of sizes, options and custom designs available in the industry.



*Communications Equipment Housing, Chicago, IL*



*Restroom Building, Las Vegas, NV*

## Communications

- Fiber Optic Regenerator Huts
- Switching Stations
- Microwave Transmission Shelters
- Cellular Phone Sites
- Other Pre-finished Equipment Shelters

## Government, School & Municipal

- Weather and Pollution Monitoring Stations
- Military Storage, Equipment Housing and Electronic Operations
- Hazardous and Flammable Materials Storage with Spill Containment
- Park Vending Enclosure, Restrooms and Ticket Kiosks
- Traffic Control Systems
- School Maintenance and Athletic Equipment Storage
- Airport Lighting Control and Transmitter Housing
- Law Enforcement Evidence and / or Ammunition Storage



*Generator Building, Oliver City Sanitary Sewer System, Warrenton, VA*



*Pump Enclosure, Ontario, Canada*

## Utilities

- Electrical Switching Stations and Transformer Housing
- Gas Control Shelters and Valve Enclosures
- Water and Wastes Treatment Facilities
- Pumping Stations
- Reduced Pressure Zone and Water Meter Enclosures

## Commercial & Industrial

- Electromechanical Housing
- Storage of Contaminated Substances
- Emergency Generator Shelters
- Maintenance Equipment Storage
- Irrigation System Housing
- Food or Bottle Storage
- Gate Houses
- Restrooms
- Electrical Controls
- Pump Enclosures

# EASI-SET® Specifications

## STANDARD EASI-SET® BUILDING

- Meets IBC 2003 requirements; Patented in USA and Canada.
- Standard Building Dimensions:  
Exterior: 10' x 12', 12' x 16', 12' x 20'; custom sizes available.  
Interior Heights: 8'; custom heights available.
- 5,000 psi steel-reinforced concrete.
- Standard double doors, 6' x 6'-8" x 1<sup>3</sup>/<sub>4</sub>"; 18-gauge galvanized steel; insulated; tamper-proof hinges; deadbolt lock; adjustable mechanical door hold-open arm; door stop and holder; rain guard.
- Extruded aluminum threshold with integral neoprene seal.
- Two 12.5-gauge screened aluminum vents; minimum 7" x 18".
- Post-tensioned roof and floor, each by a single continuous tendon, creating radial compression in the roof and floor.
- Sloped roof panel with prefabricated, architectural ribbed edge\*.
- Exclusive turn-down roof with built-in drip edge.
- Roof load capacity: 60 psf standard; higher loadings available.
- Wind load: 130 mph standard; higher loadings available.
- Rated Seismic Zone 4.
- Bullet tested to UL 752, Level 4 (30 caliber rifle fired at 15 feet).
- Floor load: 250 psf standard; additional capacities available.
- Various lifetime finishes available.

\*Some standard features are not available on custom-sized buildings.

## ADDITIONAL SPECIFICATIONS EASI-SPAN® BUILDING

- Standard Dimensions:  
Clear-span widths: 20', 24', 30' and 40'.  
Lengths: up to 200' in multiples of 10'.  
Interior Heights: 9'; custom heights available.
- Horizontal precast roof and floor joints sealed watertight with polymer concrete grouted keyways and longitudinal post-tensioning. (Post-tensioning creates the equivalence of a monolithic two-way slab design.)
- Field erected on EASI-SPAN® precast concrete floor slab or customer's slab-on-grade, or can be delivered pre-assembled in sections.
- Optional expandable feature: structural integrity and watertightness maintained when expanded.

## ADDITIONAL SPECIFICATIONS EASI-SET® HAZARDOUS MATERIAL STORAGE BUILDING

- Meets requirements for: EPA Spill Containment requirements 40 CFR Par.264.175; ACI 318-97 "Building Code Requirements for Reinforced Concrete"; Concrete Reinforcing Institute "Manual of Standard Practice"; and ANSO "Building Code Requirements for Minimum Design Loads in Buildings and Other Structures."
- Larger secondary spill containment sump available.
- Non-corrosive, skid-resistant, clean-out floor grating (may be omitted).
- Extruded aluminum threshold with neoprene seal.
- 6' x 6'-8" x 1<sup>3</sup>/<sub>4</sub>" double-steel doors with standard 1.0 hour fire rating (higher ratings available).

HAZARDOUS MATERIAL STORAGE BUILDING: Since we cannot anticipate all conditions under which this information and our product, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

Contact your EASI-SET® Manufacturer for detailed specifications.  
Autocad specifications available on disk or via e-mail.



Transformer Substation (Pre-assembled building delivered with hole in floor to fit over transformer)



Outback Restroom Building, Midland, VA



Federal Detention Facility Guardhouse, Batavia, NY



Simple site preparation, no footings required

# Site Preparation and Installation

EASI-SET® Precast Buildings are easily transported and installed. No foundations or footings are required, only a level six-inch layer of sand or crushed stone on an approved sub-base. Your installation can be completed within a few hours.



Installed in a matter of hours

**The EASI-SET® / EASI-SPAN® Precast Building...  
Installed in hours for a "lifetime of protection"**

## Finishes

Colors and textures of natural materials may vary by region. Additional colors and finishes available.



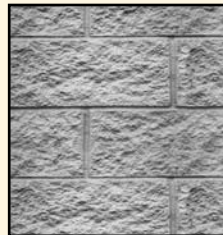
Skip Trowel



Broom



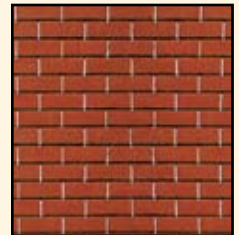
Exposed Stone



Split Block



Barnboard



Easi-Brick® Precast Concrete Brick Finish

**Manufactured Locally By:**



5119 Catlett Road, Midland, VA 22728 • (800) 547-4045 • (540) 439-8911 • fax: (540) 439-1232  
www.easiset.com • www.precastbuildings.com • info@easiset.com

EASI-SET® Industries is a licensor of precast products worldwide, and a wholly owned subsidiary of SMITH-MIDLAND® Corporation, a publicly traded company. Copyright 2007 by EASI-SET® Industries. All rights reserved. Printed in USA.