



**PERFORM  
WITH  
PRECISION™**

**GARAGE BEAM  
SYSTEM**

**CONCRETE  
CONSTRUCTION  
SOLUTIONS**

**BROCHURE**

**F**  
**FORMTECH**  
concrete forms, inc.

 **SYMONS®**  
By Dayton Superior





The one forming package that can solve all of your cast-in-place garage forming and estimating problems—and help you make more money!

The Garage Beam System from Symons is a complete forming system designed specifically for post-tensioned beam and slab multi-story parking structures.

A detailed proposal shows all of the components required, suggested pour sequence and pour schedule, and estimated labor requirements. Symons provides the necessary beam form, temporary support, deck system, formwork handling equipment (gas or electric forklifts) and application instructions for efficient concrete placement.

- The advantages include:
- Identifies “true” cost of formwork
- Minimizes labor requirements
- One-time initial build-up to start
- Detailed application drawings
- Form sequence procedure
- Speeds positioning and setting
- Reduces stripping and moving time
- May eliminate crane-handling
- Lower overall forming cost
- High quality concrete finish



## Features and Benefits

The Garage Beam System includes design and structural recommendations that simplifies formwork and reduces overall construction costs.

The forming system consists of long (up to 60') beam form assemblies that include high-capacity supports, column and capital forms, and deck forming panels. These components are stripped and moved to the next pour position with Symons-supplied forklifts and moving dollies. The Garage Beam System includes application drawings and a pour sequence schedule that makes forming operations highly productive.

- Symons Garage Beam System:
- Requires no tie systems
- Requires no incidental bracing
- Drafted sides to ease stripping
- Produces smooth concrete finish

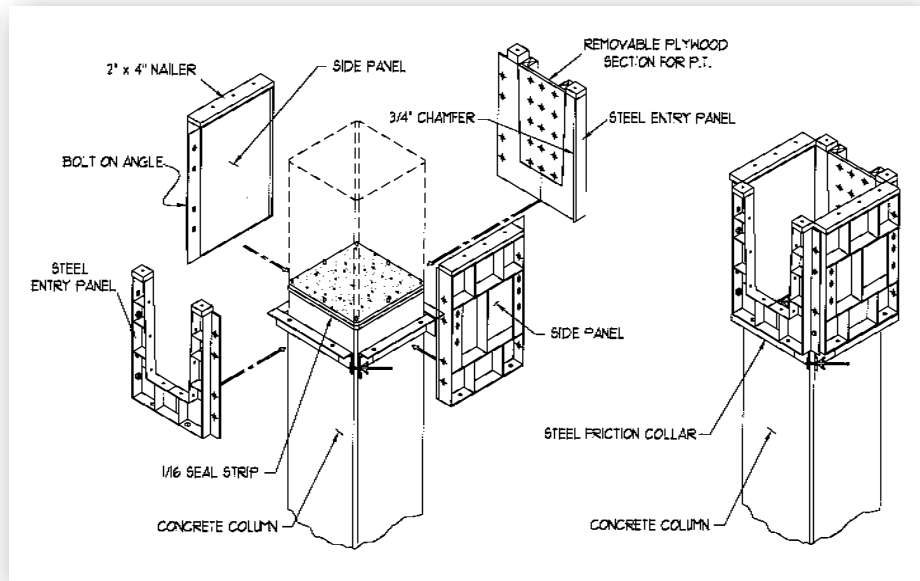
Each major Garage Beam System component has an integrated design for maximum forming and labor productivity.

Beam forms are faced with 3/8" steel skin plate for strength, durability and excellent concrete finish. Deck panels are field-fabricated using wood “I” joists (supplied by Symons) and high-density overlay (HDO) plywood which produces a consistent, smooth concrete finish. Long-span deck panels allow larger drive aisles for movement of forklifts and dollies, to reduce labor and handling.









## Standard Capital Forms

All-steel capital forms are designed specifically for typical exterior and “pass-through” interior locations. Forms are steel-faced to produce smooth concrete and include steel chamfer to facilitate stripping and improve finish. Provisions for post-tension cable penetrations are also included in the capital form design.

Capital forms are usually supported by steel friction collars, eliminating the need for independent shoring support and simplifying setting procedures.

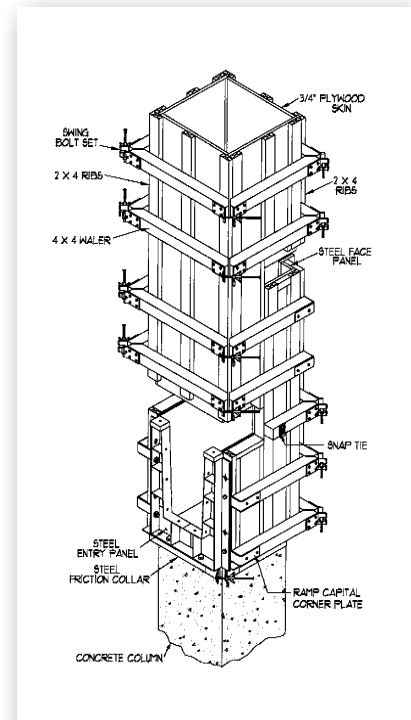
For low reuse applications, capital forms can be field-fabricated with plywood and lumber, according to fabrication details provided.

Formwork details are available for special beam intersections, ramp capitals, and other unique applications to meet the production goals for almost any specific project.



## Ramp Capital Forms

Ramp capitals are located at column and beam intersections on ramps. These post-tensioned beams often intersect this area at different elevations on opposite sides of the column. These variations typically cause ramp capital forms to be built on-site with field fabrication drawings supplied by Symons. Ramp capitals consist of plywood and dimensional lumber (supplied by contractor) and steel entry panels (supplied by Symons). Ramp capitals are assembled with swing bolt hardware that speeds stripping and resetting procedures. Ramp capitals are supported using steel friction collars.

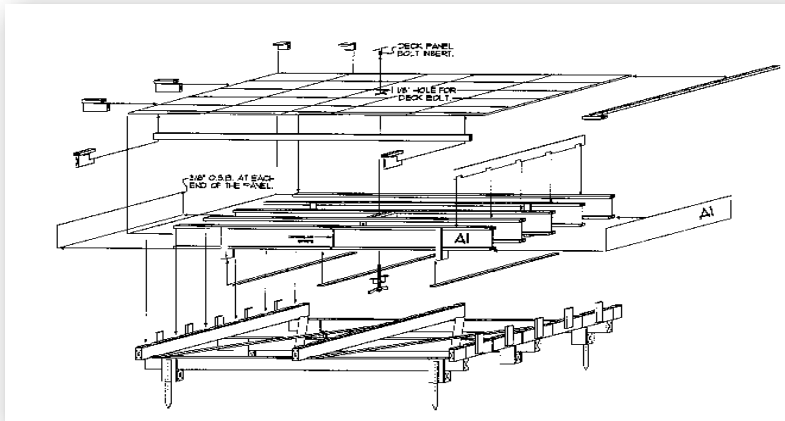


Deck panels are field-fabricated using wood "I" joists and high-density overlay plywood. Using the wood "I" joist allows spans up to 22'-0" without center shoring as often seen with other systems on the market. The HDO plywood produces a smooth concrete finish and provides maximum reuse for garage decks. Fabrication details for building deck panels are provided for optimum production during site-fabrication of deck panels.

## Sequencing

All Garage Beam system equipment is analyzed for forming operations, post-tensioning sequence and construction schedules.

The long "learning curve" often associated with other forming methods can be reduced with the Garage Beam system because preplanning and field instruction are provided. The system is designed to use the least amount of formwork and labor needed for the desired construction cycle.



## Fabrication

Quality fabrication of the entire system is provided by Symons based on years of experience in concrete formwork design and manufacturing. Only the highest quality materials are used to provide superior form strength, long service life, and excellent concrete finish.

## Service

Field service personnel are available to assist during initial formwork assembly and moving sequences. On-site technical service is available to assure uninterrupted progress.







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