The Rapid Clamp system is a high-strength concrete forming system designed for fast-paced gangform operations. It has the strength required for the large contact areas and fast pour rates common in large gangform applications.
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I. Introduction

Rapid Clamp components and accessories illustrated herein have been designed with safety and performance in mind to help achieve a safe and productive forming operation. It is recommended that all construction personnel thoroughly familiarize themselves and comply with the applicable industry standards and safe practices established by the American Concrete Institute, the Occupational Safety and Health Administration and the Scaffold, Shoring and Forming Institute.

All Rapid Clamp components and accessories must be inspected regularly for damage or excessive wear. Equipment found to be in these conditions must be replaced immediately and not reused.

NOTE: The procedures outlined in this Application Guide describe standard application procedures for the Rapid Clamp concrete forming system. Since field conditions vary and are beyond the control of Symons, safe and proper use of this equipment is the responsibility of the user.
II. Panels and Fillers

A. Standard Panels

Rapid Clamp is a modular metric system. Panels have a 14.5cm (5 3/8") deep steel frame and an overlaid 15mm (5/8") plywood face. The plywood face is recessed into the steel frame as protection from moisture and edge damage. Panels and fillers are designed based on a maximum allowable concrete pressure of 1250 psf.

The Rapid Clamp system is available in widths from 25 to 200cm, and heights of 1 and 3 meters. A 100 x 200cm panel is also available, but without the filler heights. Crossmembers are spaced at approximately 25cm (10 inches) on centers with four tie locations per panel and filler. Rapid Clamp forms can be used horizontally or vertically, even within the same gang.
The siderail of the Rapid Clamp panels and fillers are uniquely designed to except the Rapid Clamp connecting clamps. The gang size determines the number of clamps required (see pages 17-20 for examples).

B. Adjustable Panel

The Adjustable Panel forms columns and corners of varying dimensions. Columns from 8” to 30” in 2” increments can be formed without internal ties.

When forming columns, four Type 2 Adjustable Panel Connectors, with washers and connecting nuts, are used for each 300 cm high form, and two Type 2 Adjustable Panel Connectors, with washers and connecting nuts are used for each 100 cm high form.

At corner details, four Type 1 Adjustable Panel Connectors, with washers and connecting nuts are used for each 300 cm high form, and two Type 1 Adjustable Panel Connectors, with washers and connecting nuts, are used for each 100 cm high form.
III. Clamps

A. Connecting Clamps

Rapid Clamp clamps connect panels and fillers, and eliminate the need for sockets, wrenches or any other special tools typically required for other forming systems.

The number of clamps will depend on the size of the gang (see pages 17-20). Typically, three clamps are required for a vertical 300cm panel or filler. Additional clamps are required at horizontal joints due to the forces transferred by the weight and size of the gang.

CAUTION: To avoid disengagement from the panel, all clamp handles must be pointed in the down position at all horizontal joints.

Connecting Clamp

Connecting Clamp Attachment

Clamp Orientation for Horizontal Joints

Typical Connecting Clamp Configuration for Vertical Joints
B. Adjustable Clamps

The Adjustable Clamp connects wood fillers up to 25cm (10") wide. The number of clamps required depend on the size of the gang. Typically, four Adjustable Clamps are required for a vertical 300cm panel or filler.

The threaded end of the Adjustable Clamp only requires a standard wing nut for final adjustment.

**NOTE:** Due to the clamp and panel interference, the Adjustable Clamp should not be used with the 200cm x 300cm panel unless used at end rail locations or the handles are pointed away from the 200cm x 300cm panel.
IV. Corners

A. Rigid Corners

Rapid Clamp Standard 90° Inside and Outside Corners are available in 1m and 3m heights. The Inside Corners come in three face size dimensions. The standard size 30cm x 30cm (approximately 12" x 12"), but they are also available in 25cm x 25cm and 35cm x 35cm (approximately 10" x 10" and 14" x 14").

B. Flex Corner

The 30cm x 30cm Inside Flex Corner allows some flexing to make stripping easier. A locking bar is positioned in the lock position prior to pouring, and removed from locked position for stripping.

C. Hinged Corners

The Inside Hinged Corner may be used to form inside corners from 90° up to 295°. They are 30cm x 30cm (approximately 11½" x 11½") and are available in 1m and 3m heights.

The Outside Hinged Corner forms outside corners from 200° down to 29°. The Outside Hinge has a dimension of 10.35 cm x 10.35cm (4" x 4"), and are available in 1m and 3m heights.

CAUTION: Due to the inherent flexibility of hinges, corner forms must be braced and blocked as required.
D. Bay Corners

Inside Bay Corners opposite Outside Hinge Corners form a 135° angle corner. The Inside Bay Corner has a 20 cm x 20 cm (approximately 7 7/8" x 7 7/8") face dimension, and are available in 1m, 2m and 3m heights.

Bay Corners can be used horizontally or vertically to form 135° corners or to form wall haunches and "Y" Walls.

![Bay Corners](image)

E. Three-Piece Stripping Corner

Three-Piece Stripping Corners for Rapid Clamp are used when gangs are confined between pilasters, intersecting walls or core walls.

The 11 7/16" x 11 7/16" Three-Piece Stripping Corner consists of three elements: the 10 5/8" x 10 5/8" corner element, and two 1 7/16" filler elements. The fillers are attached to the corner element with 5/8" Fit-Up Bolts. Nuts have been welded to the inside face of the corner element.

The filler elements have 1 7/16" x 3" slots that allow them to slide inward during the form stripping sequence.

In the set position 5/8" x 2" bolts must be at each hole location. In the set position, the Three-Piece Stripping Corner is equivalent to a standard 30 cm x 30 cm rigid corner.
F. Core Wall Stripping and Lifting

Three-Piece Stripping Corners allow core wall gangs to be stripped, lifted and reset without dismantling the gangs.

The filler elements and attached formwork move inward 2" from each wall face to shorten the overall corner-to-corner length of each wall gang by 4".

To strip the Three-Piece Stripping Corner:
1. Remove all Fit-Up Bolts except the Fit-Up Bolts at the location where the filler element has the slotted hole.
2. Back off the remaining Fit-Up Bolts until the point of the bolt is flush with the welded nut in the corner element.
3. Retract the gangform inward with turnbuckles or ratchets until stripping clearance is about 2" between the poured wall and form.

CAUTION: During the stripping procedure, back the tie nuts about 2" toward the end of the tie and do not remove the ties until the crane is hooked to the gang and the gang is free from the poured wall.

To lift the corewall gang:
1. Attach a sling hook to each Lifting Bracket.
2. The Lifting Brackets should be mounted on the two longer wall gangs.
3. Sling lines should not be angled inward between opposite wall Lifting Brackets. Resulting inward pull may rack the formwork out of position.
4. Use a pick-up beam to position sling lines for straight up pull.
Lift rigid box coreform approximately one foot above top of corewall.

Place 4x4s across the corners at the top of the corewall concrete as temporary falsework support, then set the coreform on the falsework.

While the coreform is resting on the temporary falsework, the Shearwall Brackets can be repositioned for the next lift, the re-bar erected, inserts installed, and the forms can be cleaned and oiled.

An 8d nail secures the threaded plastic Setting Plug (F-74, P/C D60426) to the form face.

$\frac{3}{8}$" - 10 UNC x 1½" Expanded Coil Insert (F-57, P/C D40561) is then attached to the form face by threading onto the Setting Plug.
Install Shear Wall Brackets and appropriately sized falsework. Safe load rating 3,000 lbs. at 3:1 safety factory in 3,500 psi concrete.

Use only 3/4" 10 NC x 1 1/2" long zinc coated Grade 5 Anchor Bolts. A standard 3/4" x 1 1/2" long bolt does not contain adequate thread to fully engage the insert and clamp the Shear Wall Bracket.

**CAUTIONS:** Check core form weight to be sure that the Shear Wall Brackets will not be overloaded.

Do not use the Rapid Clamp Shear Wall Bracket for core applications. The welded guide plates will interfere with lumber falsework.

Have the crane lift the core form enough to permit removal of the temporary falsework.

Then, lower the core form onto the falsework supported by the Shear Wall Bracket. Crane time is momentary because expanding the Three-Piece Stripping Corner back to full core form dimensions is accomplished after the crane is released.

Expand the core form by adjusting all Turn-buckles outward. Set the corners by installing 5/8" Fit-Up Bolts.
V. Accessories

A. Transition Fillers

There are two generations of Transition Filler: an all-steel filler, and one with a plywood face. The most common use of the Transition Filler is for forming details, such as corners and pilasters.

The Transition Fillers provide a convenient connection between Rapid Clamp and Steel-Ply® or the Max-A-Form® concrete forming systems.

The plywood-faced Transition Filler connects Rapid Clamp to Steel-Ply or Max-A-Form. It is lighter than the all-steel Transition Filler which can also connect to Versiform®.

One side rail of the Transition Filler is clamped to an Rapid Clamp panel or filler and the other side rail is wedge bolted or bolted to the adjacent panel (depending on the system).

B. Walkway Brackets

Symons offers two types of walkway bracket.

The Rapid Clamp Walkway Bracket is manufactured with a guardrail post. The guardrail post has two “L” brackets with nail holes welded to it for attachment of lumber guardrails. At the bottom of the post is a sliding “L” bracket with nail holes to attach a toeboard. The Walkway Bracket is attached to the forms at one of the accessory holes on vertical crossmembers with the attached pin. If the crossmembers are running in the horizontal direction, the Walkway Connector is bolted to the crossmember and the Walkway Bracket is attached to the Walkway Connector. The capacity of the Walkway Bracket is 400 lbs. at a 4:1 safety factor (5 ft. maximum spacing).

The Scaffold Bracket is designed to connect to either the vertical or horizontal crossmembers with an attachment pin (included). The Guard Rail Post must be ordered with the Scaffold Bracket.
C. Bulkhead Rod

The Bulkhead Rod is used with double 2x lumber or steel walers, plywood or solid lumber and plate and nut to create a job-built bulkhead. The capacity of the Bulkhead Rod is 5,500 lbs. at a 2:1 safety factor.

D. Lift Brackets

Symons offers two types of Lifting Bracket. One locks the lifting handle, and the other does not lock the lifting handle. Either one is safe to use.

The Rapid Clamp Lift Bracket is attached by lifting the release handle, sliding the Lift Bracket onto the form and, with a downward motion of the lever, securing the Lifting Bracket to the panel. The Lift Bracket can be attached anywhere along the endrails or siderails.

The safe load rating of the Rapid Clamp Lift Bracket is 2200 lbs at a 5:1 safety factor. The number of Lift Brackets required shall be determined by the contractor based upon the weight of the gang to be lifted. The rigging must be designed by the contractor to assure that any one Gang Lifting Bracket is not overloaded. Load equalizer beams are recommended for all but simple two point lifts.

A minimum of two lift lines must be used to control movement of the gang form. Do not allow personnel on or directly under any gang form while it is being moved or suspended in air.

**CAUTION:** Do not initiate breaking a gang form loose from a wall by lifting or tugging backward through the Rapid Clamp Lift Bracket.
E. **Tie-Off Rod and Nut**

The installation of the Tie-Off Rod and Nut on Rapid Clamp allows easy attachment of personal fall protection equipment while working on forms; although work platforms are recommended and normally provide a more efficient working condition.

The Tie-Off Rod for personal fall protection attachment should be spaced per job requirements and attached to crossmembers as shown.

**CAUTION:** Do not use the Tie-Off Rods as a Lifting Bracket. Check that the nut is tight before hooking to the Tie-Off Rods.

F. **Aligner Connector**

The Aligner Connector is used to attach a brace when the crossmembers of the Rapid Clamp forms are running in the horizontal direction. If the crossmembers are in the vertical direction, the brace may be pinned directly to the form.

G. **Brace Kicker Bracket**

The Brace Kicker Bracket is designed to be used with any Symons forming system as an efficient way to align and plumb the forms using just one bracket.

H. **Filler Angle**

Symons offers two types of Filler Angles — one which accommodates ⅜" plywood, and one which accommodates ¾" plywood.

Filler Angles allow a custom filler of plywood to be clamped to the adjacent Rapid Clamp panel or filler.

Plywood fillers with Filler Angles are recommended where reinforcing steel, pipes, or other penetrations must protrude through the form face.
I. Rapid Clamp Tie Down Bracket

The Rapid Clamp Tie Down Bracket may be used to secure panels to footings or slabs to prevent movement during the concrete pour.

K. Support Brackets

The Rapid Clamp or the Multi-Shear Wall Support Bracket supports gangform weight at subsequent pour elevations. They should not be subjected to tension loads.

The Rapid Clamp Bracket has a built-in guide. The Multi-Shear Bracket uses a guide plate secured with a Transition Bolt and ½” Contour Nut.

When properly mounted in 3,500 psi concrete, the Support Bracket safe loading rating is 3,000 lbs. at a 3:1 safety factor.

CAUTION: Make sure that the inset alignment is perpendicular to the form face and is not disturbed during concrete placement.

J. Rapid Clamp Handling Hook

The Handling Hook allows stacks of Rapid Clamp panels to be moved as one. Insert one hook (curve down) into holes at each corner of the panel at the bottom of a stack of as many as 4 panels (approx. 2800 lbs for 200 x 300 cm panels), attach a line, and relocate the forms. Stacks of fillers may be higher as long as the weight does not exceed 2800 lbs.

NOTE: Not all Rapid Clamp forms have holes in the side and end rails. When stacking forms for transport, be sure the bottom form has holes.
The Support Bracket adjustment range is 2⅝", from 3½" to 5⅛". They must be installed a minimum of 6" from the top of the previously poured concrete for proper anchor strength.

After forms are stripped, a fully threaded high-strength ¾" bolt attaches the Support Bracket to the insert. Expanded Coil Inserts are a closed ferrule structural connection.

**NOTE:** On applications with form liners or when the 300cm x 100cm panel is horizontal, consult the Symons branch for technical service for proper installation procedures.

**Support Bracket Installation Procedure:**

1. Attach adapter plug to form face with a nail at or below the prescribed minimum 6" dimension. Clinch the nail behind the plywood.

2. Thread the concrete insert onto the adapter plug. The assembly is now ready for concrete.

3. When it is time to strip the concrete forms, straighten the nail, remove the forms and adapter plug.

4. Attach a shear wall bracket with a ⅝" x 1½" high-strength bolt.

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**VI. Walers**

Rapid Clamp is designed as a walerless forming system, but there are forming situations were a waler would be required or may be added as an option:

1. If a project is to be poured in multiple lifts, a trailing waler could be added to the gang for aligning purposes.

2. If Rapid Clamp is used with the Space-Lift™ or Sky-Lift™ systems, 5" Versiform® Walers must be added to the gang.
3. Gang heights exceeding 16 feet may require walers. Contact Symons Technical Service for application information.

A Waler Connector with plate and wing nut is required to attach the Versiform Waler to Rapid Clamp.

VII. Wall Ties

Wall Ties and their installation must be in compliance with industry standards and safe practices established by the American Concrete Institute, The American National Standards Institute, The Occupational Safety and Health Administration, and the Scaffolding, Shoring and Forming Institute. Illustrations and capacities of Taper Ties, Thread Bar, Top Tie and She-Bolt Ties are shown below.

**15MM Thread Bar Tie**

![15MM Thread Bar Tie Diagram](image)

**Ultimate Capacity = 38,200 lbs**

**15MM Taper Tie**

![15MM Taper Tie Diagram](image)

5/8" to 7/8" Taper

(41" and 49" Lengths with 11 1/2" threading each side + 1" ends)

**Ultimate capacity = 36,800 lbs**

**She-Bolt Cone Tie**

![She-Bolt Cone Tie Diagram](image)

**Ultimate capacity = 38,200 lbs**

**Top Tie**

![Top Tie Diagram](image)

**Ultimate capacity = 8,268 lbs**

PC 54500 - 0" to 18" wall thickness
PC 54501 - 18" to 36" wall thickness

**NOTE:** Application drawings indicate safe load capacities of Taper Ties, Thread Bar and She-Bolt assemblies, when both outer unit and inner ties are supplied by Symons.

**NOTE:** Applications using 200 cm or 100 cm wide panels require the allowable concrete pressure to be reduced to 1161 psf for 37,500 ties.

**NOTE:** It is the contractors' responsibility to control concrete mix and placement procedures to assure that the maximum formwork design pressure is not exceeded.
3 Meter Height Clamp Distribution

Note: A plate is required to prevent tie plate obstruction when Rapid Clamp forms are laid horizontally.
4 Meter Height Clamp Distribution

4M OUTSIDE CORNERS
3M+1M Panels
5 Clamps lower panel
2 Clamps upper panel
5 Meter Height Clamp Distribution

5M OUTSIDE CORNERS
3M + 1M + 1M Panels
5 Clamps lower panel
2 Clamps middle panel
2 Clamps upper panel
6 METER HEIGHT CLAMP DISTRIBUTION

6M OUTSIDE CORNERS
3M + 3M PANELS
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Improper Use of Concrete Accessories Can Cause Severe Injury or Death

Read, understand and follow the information and instructions in this publication before using any of the Dayton Superior concrete accessories displayed herein. When in doubt about the proper use or installation of any Dayton Superior concrete accessory, immediately contact the nearest Dayton Superior Service Center or Technical Service Department for clarification. See back cover for your nearest location.

Dayton Superior products are intended for use by trained, qualified and experienced workmen only. Misuse or lack of supervision and/or inspection can contribute to serious accidents or deaths. Any application other than those shown in this publication should be carefully tested before use.

The user of Dayton Superior products must evaluate the product application, determine the safe working load and control all field conditions to prevent applications of loads in excess of a product’s safe working load. Safety factors shown in this publication are approximate minimum values.

The data used to develop safe working loads for products displayed in this publication are a combination of actual testing and/or other industry sources. Recommended safe working loads given for the products in this publication must never be exceeded.

For safety, concrete accessories must be properly used and maintained. Concrete accessories shown in this publication may be subject to wear, overloading, corrosion, deformation, intentional alteration and other factors that may affect the device’s performance. All reusable accessories must be inspected regularly by the user to determine if they may be used at the rated safe working load or should be removed from service. The frequency of inspections depends upon factors such as (but not limited to) the amount of use, period of service and environment. It is the responsibility of the user to schedule accessory hardware inspections for wear and remove the hardware from service when wear is noted.

Welding can compromise a product’s safe working load value and cause hazardous situations. Knowledge of materials, heat treating and welding procedures is necessary for proper welding. Consult a local welding supply dealer for assistance in determining required welding procedures.

Since Dayton Superior cannot control workmanship or conditions in which modifications are done, Dayton Superior cannot be responsible for any product altered in the field.

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Note: See Safety Notes and Safety Factor Information.
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- Aztec®
- Bar Lock®
- Corewall®
- Fleet-Lift™
- Swift Lift®
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- Symons®
- Max-A-Form®
- Steel-Ply®
- Sym-Ply®

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- Curing Compounds / Sealers
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- Floor Levelers
- Form Release Agents
- Grout
- Hardeners / Industrial Toppings
- Liquid Densifiers
- Surface Retarders

**FORMING AND SHORING**
- Aluminum Shoring
- Ganged Formwork
- Garage Beam System
- Handset Formwork
- Highway Forms
- Jump Forms
- Modular Deck Shoring
- One Sided Frames
- Self Spanning Forms
- Steel Frame Shoring

**FORMLINERS**
- ABS Plastic
- Polystyrene Plastic

**PAVING**
- Dowel Bar Expansion Caps
- Dowel Bar Retrofit System
- Elastomeric and Hot Pour Joint Seal
- Metal Keyway Form Systems
- Tie Bar Assemblies
- Transverse Bar Assemblies
- Welded Dowel Assemblies
- Wire Baskets without Dowels

**PRECAST**
- Anchors and Lift Systems
- Coil / Ferrule Inserts
- Core Plugs
- Magnets
- Precast Forms
- Rustications / Chamfers
- Sandwich Panel Connector
- Shear Connectors
- Slotted Inserts

**REBAR SPLICING**
- Forged Dowel Bar Couplers
- Lockshear Bolt Couplers
- Shear Resistance Products
- Straight Thread Couplers
- Taper Thread Couplers

**REBAR SUPPORTS**
- Concrete Dobies
- Continuous Plastic and Steel Bar Supports
- Individual Plastic and Steel Bar Supports
- Mesh Chairs
- Paving Chairs
- Side Form Spacers

**TIES AND ACCESSORIES**
- Modular Form Ties
- Single Waler System
- Ties and Accessories

**TILT-UP**
- Braces and Brace Anchors
- Helical Ground Anchors
- Setting Plugs
- Strongback System
- Tilt-Up Anchors and Lifting Systems

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