



SYM-PLY® Versatile Clamp Form System



Save time and labor costs with Sym-Ply, the imperial dimensioned, high strength gang forming system designed from the ground up to be adaptable and productive.

 **SYMONS**[®]
BY DAYTON SUPERIOR



Designed and built in the USA, the Sym-Ply form and clamp system is faster, stronger, more adaptable and cost effective compared to traditional bolted waler gang systems.

Easy to Use, Easier to Assemble:

Sym-Ply is imperial-dimensioned meaning metric conversions are eliminated enabling faster assembly and setting of the forms. Innovative clamp design rapidly connects and aligns forms with one step using only a hammer to lock the clamp firmly in place. The system eliminates the need for walers and strongbacks on gangs under 16 feet in height. Tie holes are pre-drilled and protected with a plastic sleeve eliminating the need for drilling on site. The system accommodates 1" up to 1¼" taper ties and/or she-bolts.

- Innovative imperial system means no metric conversions are required in the field, enabling faster construction
- Sym-Ply is 100% compatible with Steel-Ply®, making it versatile and easy to use with an existing fleet – no transition fillers needed
- Engineered for 1,500 psf allowable pour pressure providing high strength in a lightweight system
- Lightweight clamps are easy to carry, quickly connected, and align panels for faster construction time

System Design

Symons all new Sym-Ply™ concrete forming system has been designed and manufactured to the demanding requirements of today's construction projects.

Features:

- 1,500 psf allowable pressure
- 80 ksi steel for strength and durability
- Pins directly to Steel-Ply panels, fillers, corners, hinges and pilaster forms
- Built-in Tie-Off Bars meet OSHA requirements for fall protection
- Only 8 pounds per square foot
- 5/8" 100/30 HDO standard plywood face
- Profiled side rail allows pry bar access for adjusting gangs to the chalk line
- Clamp or bolt together for maximum versatility
- 1 7/16" diameter tie hole accommodates 50 kip or 15mm taper ties and she-bolts
- Plywood protector sleeve plate is buttressed by the tie box for extended sleeve life
- Up to 10° batter with 50K ties
- Only 4" deep means more forms per truck
- Manufactured in the U.S.A.
- Manufactured by union workers
- Manufactured by Symons

Compatibility

Sym-Ply™ connects directly to these systems:



Steel-Ply®

Standard wedge bolts make the connection.

Flex-Form® and Max-A-Form®

The connection is made with 3/4" speed bolts and nuts.



Space-Lift™

T-Head Sym-Bolts and 5" walers create the connection from Sym-Ply to the Space-Lift jump system.



Backbone™

T-Head Sym-Bolts connect Sym-Ply directly to Backbone one-sided wall frame or through intermediate 3" channels or 5" walers.

Panels and Corners



Panels



Slip Plate



8' Inside Corner - 8' Outside Corner

Panel Sizes

Sym-Ply™ panels incorporate 4" deep, high strength 80 ksi steel encasing 5/8" 100/30 HDO plywood. The result is a light-weight, high capacity (1,500 psf allowable pressure) forming system. The profiled side rail is shaped to allow clamping and has 13/16" diameter holes for wedge bolting directly to Steel-Ply.

Size	Weight	Size	Weight	Size	Weight
36" x 8'	187 lbs	36" x 4'	104 lbs	36" x 2'	57 lbs
30" x 8'	166 lbs	30" x 4'	94 lbs	30" x 2'	55 lbs
24" x 8'	128 lbs	24" x 4'	74 lbs	24" x 2'	40 lbs
12" x 8'	80 lbs	12" x 4'	43 lbs	12" x 2'	28 lbs
6" x 8'	53 lbs	6" x 4'	28 lbs		

Fillers

Sym-Ply fillers are a profiled design that can be bolted directly to a siderail, or clamped into position with the Adjustable Sym-Clamp.

Size	Weight
2" x 8'	12 lbs
1" x 8'	8 lbs
2" x 4'	6 lbs
1" x 4'	4 lbs

Slip Plates

Slip Plates are used to fill in a 3" to 12" gap between gangs. They are very useful for reducing the number of different sized fillers required on a project. Slip Filler Plates lap over the panels, so an indentation in the wall of 1/8" will remain in the poured wall.

Size	Weight
14" x 8'	71 lbs
14" x 4'	39 lbs

All-Steel Inside Corners

All-steel construction provides durability and eliminates re-plying.

Size	Weight
12" x 12" x 8'	171 lbs
12" x 12" x 4'	93 lbs

Outside Corners

Profiled outside corners facilitate quick clamped connection.

Size	Weight
8'	37 lbs
4'	19 lbs

Fillers and Connections



Filler Angles



Stripping Panel



Sym-Clamp

Steel-Ply Filler Angles

Size	Weight
8'	11 lbs
4'	5 lbs

Stripping Panels

Stripping Panels are made of two beveled forms that allow one to easily strip away from the other. They are most useful between gangs, pilasters, and inside corners. They are also used to create stripping cores.

Size	Weight
12" x 8'	144 lbs
12" x 4'	74 lbs

Sym-Clamp

3.39 lbs

The Sym-Clamp is the lightest clamp on the market, yet it is extremely durable.

4" Adjustable Sym-Clamp

4.74 lbs

Facilitates clamping plastic or lumber fillers up to 4" wide. It is the lightest adjustable clamp on the market.

Wedge Bolts

0.13 lbs

Wedge Bolts can be used for quick attachment of Steel-Ply panels, fillers, corners, filler angles and pilaster forms.

¾" Speed Bolts and Nuts

0.54 lbs

The 13/16" diameter side and end rail hole will accommodate ¾" bolts and nuts if a bolted connection is desired.

Clamps and Accessories



Short Waler



Bulkhead Detail



Top Tie Bracket

T-Head Sym-Bolt Assembly 4.0 lbs

The T-Head Sym-Bolt attaches short walers for gangs 16' and taller, or 5" walers when using the Space-Lift™ jump form system.

Bulkhead Sym-Hook 2.4 lbs

Used to attach the Short Waler supporting bulkhead lumber at construction joints.

15mm x 4" x 6" Tie/Plate Nut 2.2 lbs

Attaches Short Walers when used in combination with 15mm ties and the Bulkhead Sym-Bolt.

Short Waler 38 lbs

The 52" long Short Waler stiffens gangs 16' and taller, supports slip plates, and provides bulkhead support.

Tie Systems

Size	Weight
37" Taper Tie	10 lbs
47" Taper Tie	13 lbs
57" Taper Tie	16 lbs
1" Contour Nut	1.0 lbs
1¼" Contour Nut	0.8 lbs
Cast Bearing Washer	3 lbs
1" Cast Contour Nut	1.5 lbs
1¼" Cast Contour Nut	1.5 lbs
Batter Plate Casting	3.5 lbs
15mm Ties	
41" Taper Tie	5.1 lbs
49" Taper Tie	6.5 lbs
57" Taper Tie	7.9 lbs
65" Taper Tie	9.3 lbs
15mm x 4" x 6" Tie/Plate Nut	2.2 lbs

Top Tie Bracket 4.3 lbs

Used for ties over the top of the form or behind the bulkhead lumber.

Accessories



Lift Bracket



Walkway Bracket



Aligner Bracket

Lift Bracket

7.5 lbs

Unique design straddles the tie boxes or crossmembers. The 2,000 pound capacity means that two brackets will typically lift a 400 square foot gang.

Walkway Bracket

13.7 lbs

The Walkway Bracket accommodates three 2" x 10" lumber planks. It has a capacity of 500 lbs at a 4:1 safety factor, and can be spaced up to 8' on center. The connecting hardware is fully integrated so there is no loose hardware

Guardrail Post

9.9 lbs

Strong steel pipe that slides into the end pocket of the Walkway Bracket. The guardrail post facilitates the attachment of guardrail lumber.

Fall Forward Bracket

4.7 lbs

The Fall Forward Bracket is designed to provide guardrail protection on the side of the wall opposite from the walkways. It can be used when the Walkway Brackets are located less than 42" from the top of the form. It features the same integrated hardware as the Walkway Bracket. The guardrail post pocket is angled at 15° to avoid interference when placing concrete by bucket.

Aligner Bracket

2.8 lbs

Provides an attachment point for Pipe Form Aligners or Pier Cap Braces. The bracket design allows attachment to the panel crossmembers without any loose hardware.



REBAR SUPPORTS

Concrete Dobbies
Continuous Plastic and Steel Bar Supports
Individual Plastic and Steel Bar Supports
Mesh Chairs
Paving Chairs
Side Form Spacers

PRODUCTS FOR BRIDGE DECK FORMING

Adjustable Joist Hangers
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One Sided Frames
Self Spanning Forms
Steel Frame Shoring

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Dowel Bar Retrofit System
Elastomeric and Hot Pour Joint Seal
Metal Keyway Form Systems
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Transverse Bar Assemblies
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PRODUCTS FOR PRECAST CONSTRUCTION

Anchors & Lift Systems
Coil / Ferrule Inserts
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Rustications/Chamfers
Sandwich Panel Connector
Shear Connectors
Slotted Inserts

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ABS Plastic
Polystyrene Plastic
Precision Cut Foam
Solid Urethane
Urethane-Skinned Foam

GEOTECHNICAL PRODUCTS

Ground Anchors
Wind Turbine Foundation Anchors

REBAR SPLICING PRODUCTS

Forged Dowel Bar Couplers
Lockshear Bolt Couplers
Shear Resistance Products
Straight Thread Couplers
Taper Thread Couplers

TIES AND ACCESSORIES

Modular Form Ties
Single Waler System
Ties and Accessories

PRODUCTS FOR TILT-UP CONSTRUCTION

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

DAYTON SUPERIOR BRANDS

DAYTON SUPERIOR CONCRETE ACCESSORIES

Accubrace®
Aztec®
Fleet-Lift™
Swift Lift®
Taper-Lock®
Bar Lock®
Corewall®

DAYTON SUPERIOR CONSTRUCTION CHEMICALS

Conspec®
Earth Friendly®
Edoco®
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DAYTON SUPERIOR PAVING PRODUCTS

SYMONS® PRODUCTS

Max-A-Form®
Steel-Ply®
Sym-Ply®

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