

THE POWER OF RED™

SYM-PLY® FORMING SYSTEM

CONCRETE CONSTRUCTION SOLUTIONS

BROCHURE

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 strong-backs 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 15mm (50K) and 20mm (65K) 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

Features and Compatibility

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
- Connects directly to Steel-Ply panels, fillers, corners, hinges and pilaster forms
- Built-in tie-off points meet OSHA requirements for fall protection
- Weighs only 8 pounds per square foot
- 19/32" 100/30 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 15mm (50 KIP) and 20mm (65 KIP) 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 by Symons





Watch the video at www.youtube.com/watch?v=p2dZbjVltZk

Sym-Ply connects directly to these systems:

- **Steel-Ply®**
  Standard wedge bolts make the connection.
- **Flex-Form®**
  The connection is made with wedge bolts.
- **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.
- **Soldier Beam**
  T-Head Sym-Bolts connect Soldier Beam and 8" walers with Sym-Ply clamp system.





Panels and Fillers

Panel Sizes

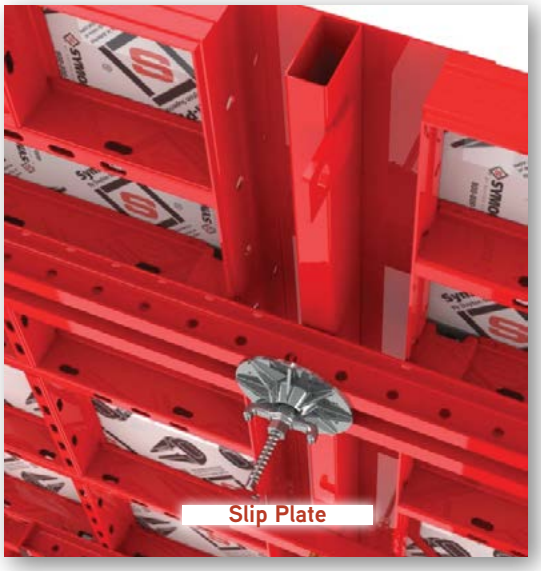
Sym-Ply panels incorporate 4" deep, high strength 80 ksi steel encasing 19/32" 100/30 HDO plywood. The result is a light-weight, high capacity (1,500 psf allowable pressure) forming system. The profiled side rail is shaped to allow clamping and has 13⁄16" diameter holes for wedge bolting directly to Steel-Ply.

Size	Wt.	Size	Wt.	Size	Wt.	Size	Wt.
36" x 8'	172 lbs	36" x 6'	136 lbs	36" x 4'	94 lbs	36" x 2'	53 lbs
30" x 8'	155 lbs	30" x 6'	118 lbs	30" x 4'	85 lbs	30" x 2'	50 lbs
24" x 8'	130 lbs	24" x 6'	100 lbs	24" x 4'	68 lbs	24" x 2'	38 lbs
18" x 8'	114 lbs	18" x 6'	86 lbs	18" x 4'	58 lbs	18" x 2'	32 lbs
12" x 8'	73 lbs	12" x 6'	60 lbs	12" x 4'	40 lbs	12" x 2'	20 lbs
6" x 8'	51 lbs	6" x 6'	39 lbs	6" x 4'	26 lbs		
9' x 8'	800 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'	38 lbs
1" x 8'	32 lbs
2" x 6'	29 lbs
1" x 6'	24 lbs
2" x 4'	19 lbs
1" x 4'	16 lbs



Slip Plate

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 indention in the wall of 1⁄8" will remain in the poured wall.

Size	Weight
14" x 8'	84 lbs
14" x 6'	64 lbs
14" x 4'	42 lbs



Steel Inside Corner and Outside Corner

All-Steel Inside Corners

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

Size	Weight
12" x 12" x 8'	163 lbs
12" x 12" x 6'	129 lbs
12" x 12" x 4'	87 lbs
12" x 12" x 2'	47 lbs

Outside Corners

Profiled outside corners facilitate quick clamp connection.

Size	Weight
8'	34 lbs
6'	26 lbs
4'	17 lbs

Steel-Ply Filler Angles

Filler angles allow custom fillers to be created on site to accommodate penetrations and unique dimensions.

Size	Weight
8'	11 lbs
6'	9 lbs
4'	5 lbs



Filler Angles with Wedge BoltConnections

Stripping Panels

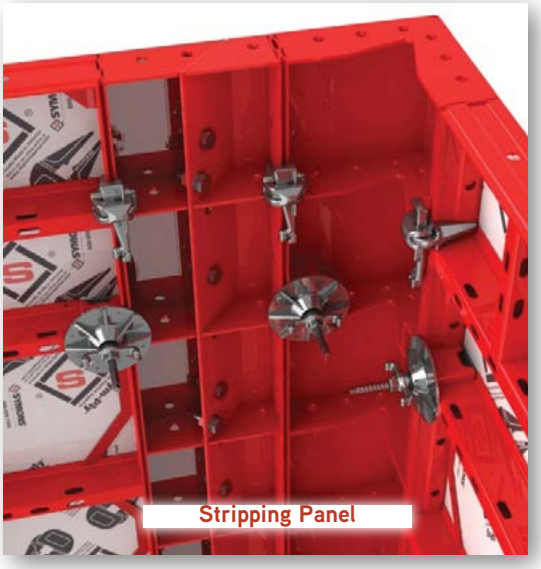
Stripping Panels are made of two beveled forms that allow one to easily strip away from the other. They are useful between gangs, pilasters, or inside corners, and are used to create stripping cores.

Size	Weight
12" x 8'	136 lbs
12" x 6'	108 lbs
12" x 4'	73 lbs

Stripping Corners

The Sym-Ply Stripping Corners are a steel three-piece assembly which bolt together through side flanges that are biased 45 degrees relative to the form face. To facilitate stripping, the bolts are removed allowing the biased sides to slip by one another creating the required relief to strip the corners. These corners are most useful in a core application.

Size	Weight
12" x 12" x 8'	224 lbs
12" x 12" x 6'	167 lbs
12" x 12" x 4'	116 lbs



Stripping Panel

Sym-Ply Turnbuckle Bracket — 3.2 lbs

The Sym-Ply Turnbuckle Bracket is used with the Stripping Corners and 27" Ratchet Turnbuckle in stripping core formwork. This bracket has the same spring loaded connection as other Sym-Ply Accessories so there are no loose parts.

Sym-Clamp — 3 lbs

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

4" Adjustable Sym-Clamp — 5 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 accommodates ¾" bolts and nuts if a bolted connection is desired.



Sym-Clamp and Tie-Off Locations



One-Piece Stacking Clamp

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.

T-Head Sym-Bolt Assy. Long — 4.3 lbs

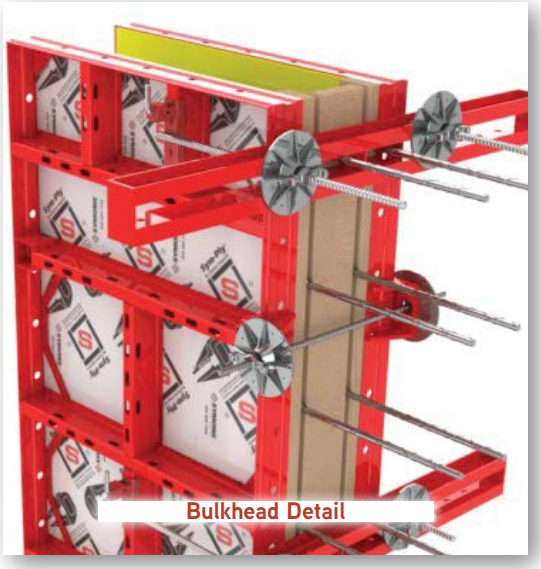
This longer T-Bolt allows the use of Symons Soldier® and 8" walers with the Sym-Ply Clamp System.

Bulkhead Sym-Hook Long — 3.7 lbs

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

15mm x 7" Circular Tie Plate — 2.2 lbs

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



Bulkhead Detail

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 7" Circular TiePlate	5.2 lbs
20 mm Ties	
37" Taper Tie	8.15
47" Taper Tie	11.00
57" Taper Tie	13.85
67" Taper Tie	15.80
20mm Swivel Wing Nut with 7" round plate	5.94



Top Tie Bracket

Size	Weight
5'	43 lbs
10'	86 lbs
13'	112 lbs

Sym-Walers

The Sym-Walers stiffen gangs, support slip plates, and provide bulkhead support. They come in lengths of 5', 10' and 13'.

Top Tie Bracket — 4.3 lbs

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

Lift Bracket **9.9 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 slides into the end pocket of the Walkway Bracket. The guardrail post facilitates guardrail lumber attachment.

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 **3.3 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.

Sym-Ply Tie-Off Bracket **1.8 lbs**

The Sym-Ply Tie-Off Bracket meets OSHA requirements for fall protection. The connecting hardware is fully integrated so there is no loose hardware. The bracket can be placed during gang assembly and the spring loaded connection allows it to be moved quickly and easily if required.

Sym-Ply One-Piece Stacking Clamp **23.5 lbs**

The Sym-Ply Stacking Clamp is used to stiffen and align gangs during the picking and placement process. The Stacking Clamp replaces 6 pieces in one with less weight..

The Sym-Ply Application Guide is available online.

Contact Customer Service for additional details or to arrange onsite assistance.

For more information on all Symons forming systems visit www.symons.com or call 1-800-800-7966.


Lift Bracket


Walkway Bracket


Aligner Bracket



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