The Symons Soldier system is a lightweight, yet extremely strong, construction beam system that is adaptable to almost any forming or shoring configuration with standard, rentable components and accessories.
**Symons Soldier Design**

The Symons Soldier system is a lightweight, yet extremely strong, construction beam system with virtually unlimited application possibilities.

Symons developed a unique hole pattern which makes the Symons Soldier adaptable to almost any forming or shoring configuration with standard components and accessories.

**Versatility**

The unique hole pattern and a complete line of accessories give the Soldier the versatility you expect from Symons. The Soldier system complements the advantages of standard Symons forming systems. No other form supplier can offer such a wide range of product combinations to handle a diversity of applications.

**Simplicity**

The ability to bolt to all the flanges adds to the efficiency of the Soldier. When bolted end-to-end as a continuous beam, the connection develops the full strength of the Soldier.

**Rentable**

Symons Soldier beams and accessories are a rentable system, providing cost savings compared to high-priced lumber components. With Symons Soldiers, unusual requirements can be satisfied with standard components.

**Durability**

Symons Soldiers are fabricated with high-strength steel to provide high load capacity and long service life. They have a robust strength to weight ratio, resulting in reduced crane capacity requirements.

**Practicality**

Your next forming or construction dilemma could be solved efficiently with Symons Soldier. Use them as braces, walers, strongbacks, shoring, aligners, trusses or whatever the situation demands.
Applications

Bracing
Symons Soldiers are ideally suited for diagonal bracing and plumbing. The ability to bolt end-to-end can create bracing lengths to fit your specific project requirement.

One-Sided Forming
Symons Soldier and Symons standard forming systems are used to create tieless one-sided wall forming schemes, providing substantial savings in time and labor costs.

Shoring
Symons Soldier and standard accessories can be combined to make towers that fit the most demanding shoring and deck support applications.

Alignment
Symons Soldier and accessories are designed for use with other Symons forming systems. Symons Soldier and Symons total product capability offers unlimited possibilities for any aligning and support application.

Walers
Symons Soldier beams are ideally suited for any waler application. When bolted to any Symons steel form system, the Symons Soldier has the capacity to handle the tallest gangs.
Symons Soldier beams permit bolting on all four flanges in addition to end and web bolt holes. The flange holes are a combination of holes and slots at 3" centers to provide dimensional adjustment and flexibility.

**Symons Soldier Properties**

\[
I_{xx} = \text{56.3 in}^4 \\
I_{yy} = \text{27.3 in}^4
\]

Soldier End Plates are high-strength steel, built square to the Soldier beam, enabling the end-to-end bolted connections to develop the full strength of the Soldier beam.

The Symon Soldier is designed to be a compression member. If used as a beam, please consult Dayton Superior prior to design.

<table>
<thead>
<tr>
<th>Part</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>38900</td>
<td>1'-6&quot;</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>38903</td>
<td>2'-0&quot;</td>
<td>52 lbs.</td>
</tr>
<tr>
<td>38917</td>
<td>3'-0&quot;</td>
<td>67 lbs.</td>
</tr>
<tr>
<td>38901</td>
<td>4'-0&quot;</td>
<td>83 lbs.</td>
</tr>
<tr>
<td>38902</td>
<td>8'-0&quot;</td>
<td>148 lbs.</td>
</tr>
<tr>
<td>38904</td>
<td>12'-0&quot;</td>
<td>212 lbs.</td>
</tr>
</tbody>
</table>

---

**End Plate**

Typical End-to-End Connection
**Accessories**

**Pivot Bracket**
When bolted to the end of the Soldier Beam, the Pivot Bracket provides the connection between the Soldier beam brace and forming system.

**Shore Jack**
The jack provides 8" of adjustment in Symons Soldier reshore applications.

**45° Bracket**
The fixed 45° bracket can be used for diagonal bracing and truss configurations.

**Adapter/Spacer**
Bolt the 10" swivel wheel for traveling applications or use as a 3" spacer.

**Riser Bracket**
Swivel ability coupled with vertical adjustment meets most stair and seating riser conditions.

**One-Sided Bracket**
Used in conjunction with the Wedge and Shear Plates in one-sided wall forming applications, the One-Sided Bracket connects the Soldier beams together at the base of the forms and provides the anchor position.

**Tie Washer Plate**
Plate provides bearing surface for ties and nuts in forming applications.

**Attachment Angles**
Bolt Soldier beams to Max-A-Form® or Versiform® gangs.

**Jack Bracket**
Bracket is used in one-sided applications for aligning and leveling the support frame and form gang.

**Lap Splice Plate**
Splice from beam-to-beam in truss applications.

**Strut Jack with Jack Base**
The free-turning nut allows up to 16" adjustment, and the Jack Base pivots.
DAYTON SUPERIOR BRANDS

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

CONSTRUCTION CHEMICALS
- Unitex®

FORMING PRODUCTS
- Symons®
- Max-A-Form®
- Steel-Ply®
- Sym-Ply®

DAYTON SUPERIOR PRODUCTS

BRIDGE DECK FORMING
- Adjustable Joist Hangers
- Bridge Overhang Brackets
- Haunch and Fillet Forming
- Press Steel, Coil Rod and Con-Beam Hangers
- Sledge Supports

CHEMICALS
- Bond Breakers
- Cleaners / Stripers
- Concrete Repair / Restoration
- Curing Compounds / Sealers
- Epoxy
- 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

CONTACT INFORMATION

CORPORATE HEADQUARTERS
1125 Byers Road
Miamisburg, OH 45342
937-866-0711

ACCESSORIES AND CHEMICALS
Customer Service: 888-977-9600
Technical Assistance: 877-266-7732
info@daytonsuperior.com

FORMING PRODUCTS
Customer Service: 800-800-7966
Technical Assistance: 877-266-7732
info@daytonsuperior.com