



SOLDIER

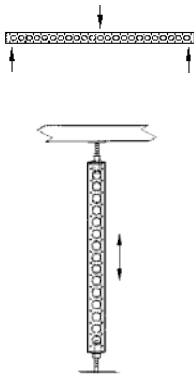
Soldier beams were developed for forming and construction to reduce the need for high-priced lumber.

The "Next Generation"

Symons Soldiers are strong, lightweight, construction beams with almost unlimited application possibilities. They are truly the "next generation" because of the unique hole pattern that makes them adaptable to almost any configuration. When used in combination with hardware and accessories, Symons Soldiers can become braces, horizontal shores, vertical shores, strongbacks, walers, cantilever stiffbacks, trusses and many other typical forming components.

Symons Soldiers are compatible with all Symons forming systems. They can be the waler and strongback for Steel-Ply® or Versiform®; they can be the one-sided bracing or cantilever stiffbacks for Max-A-Form®; they can be the truss and shoring for custom applications. Just bolt them together in the configuration required and Symons Soldiers do the job.

SOLDIER SYSTEM DESIGN



Symons Soldiers are double 9", specially formed channels of 10 gauge, high-strength steel. The end plates are welded perpendicular to the channels. When bolted together end-to-end with four 3/4" x 2" Speed Bolts, Symons Soldiers become a straight, continuous beam which develops its full strength through the connection. Hole patterns in all faces of the channels and in the end plates accommodate accessories and permit assembly in many configurations.

Symons Soldiers are lightweight and strong. They are as light as double 5" channels and as strong as double 8" channels. The engineering data confirms the impressive strength-to-weight ratio of Symons Soldiers.

SOLDIER SYSTEM FEATURES

Physical Properties:

Material Analysis:

10 gauge - 50 ksi steel

Cross Section Analysis:

62 in⁴ = I_{x-x}

13.78 in³ = S_{x-x}

Construction Beam Sizes, Weights:

12'-0" Soldier Beam
(204 lbs.)

8'-0" Soldier Beam
(152 lbs.)

4'-0" Soldier Beam
(83 lbs.)

3'-0" Soldier Beam
(68 lbs.)

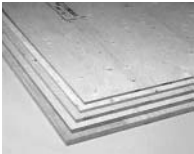
2'-0" Soldier Beam
(54 lbs.)

1'-6" Soldier Beam
(45 lbs.)

End-to-end beam connection provides almost any size Soldier Beam.

SYMONS SOLDIER FEATURES:

- Hole pattern permits a wide variety of assembly configurations
- All accessories bolt to the Soldier with standard 3/4" x 2" Speed Bolt
- Symons Soldier is fabricated with strong, but lightweight 50 ksi steel
- Accessories are bolted directly to the Soldier at any point along web
- End-to-end connection provides same moment capacity as beam
- A complete line of accessories and hardware are available

MISCELLANEOUS**B B OILED FORM PLYWOOD 3/4"X4'X8'
7PLY FIR**

ITEM # 315090

M.D.O. 7 PLY STRUC I DOUGLAS FIR O&ES PLYWOOD 1/2"X4'X8'

ITEM # 315091

**H.D.O. PLYWOOD 1/2 "X4'X8'
(REFACING PLYWOOD) 1 SIDED**

ITEM #315092