The EFCO SUPER STUD is a complete system of lightweight steel beams and accessories that gives you total versatility.

The versatility of the SUPER STUD comes from its design, its lightweight/strength ratio and its two-axis "bolt up hole" module.

SUPER STUDs are available in both the 9" x 9" system and 6" x 6" SUPER STUD Jr. System.

The backbone of both systems is the lightweight, high strength beam which can be bolted end-to-end to form a straight, rigid continuous beam.

Lightweight Channels

The basic 9" x 9" SUPER STUD is fabricated of two special light weight formed channels 2-1/4" apart welded together with two 1/2" thick end plates and spacers 3' on centers. The two spaced channels form an excellent beam for symmetrical loading and rotational stability. The 2-1/4" spacing of the channels allows large she bolts, taper ties, and screw jacks to pass between the channels.

Even Lighter Weight

Large 4" round holes, 9" on centers in the channel webs make the SUPER STUD even lighter and open up the space between the channels for ease in making bolt up connections.

Lateral Bracing

The vertical SUPER STUD flange and web holes are available for lateral bracing connection on tall and slender shores.

Precision End Plates

SUPER STUD end plates are exactly perpendicular to the STUD and precision jig built making it possible to bolt STUDs end-to-end for use as continuous beams, columns, shores, walers, aligners, and studs. This bolted connection develops the full strength of SUPER STUD. With this moment carrying end connection, the SUPER STUD can be extended to almost any length.

Continuous Beams

Holes for 3/4" EFCO QUICK BOLTS run down both flanges of both channels on 3" centers. The transverse channel flange holes are at 6" centers. There are 13/16" holes in the web of the channels, two rows on 6" centers. These holes provide for a multitude of uses and are a key to the flexibility of the SUPER STUD System.

Key To Flexibility

When SUPER STUDs (using just four 3/4" diameter EFCO QUICK BOLTS) are bolted end-to-end as a continuous beam, the bolted connection develops the full strength of the SUPER STUD.

*6" x 6" SUPER STUD Jr. is dimensioned proportionately
FEATURES/BENEFITS

Lightweight
- Allows larger form picks
- Reduces crane size requirements
- Reduces freight costs
- Permits manhandling

Strong
- SUPER STUD's strength can be compared to a 7" or 8" double channel assembly, but with less weight.

User Friendly
- The SUPER STUD's hole spacing provides for a multitude of uses and connections while reducing costly on-site modifications.

Versatile
- The modular SUPER STUD System allows versatile arrangements of the SUPER STUDs for many, many different applications.

Compatible
- SUPER STUD's are compatible with other EFCO Forming Systems

End Plate Connection
- Full strength moment end connections mean continuous members of any length.

COMPARE

The real benefit of the EFCO SUPER STUD comes from its lightweight and versatile design. The SUPER STUD can structurally be compared to double 7" channels or double 8" channels back-to-back.

To really understand the value of the EFCO SUPER STUD, compare strength, weight and deflection with other systems.

APPLICATIONS

The SUPER STUD System has unlimited applications.

Industrial
- Jacks
- Gantry supports
- Hoist Supports
- Machine Bases
- Equipment Bases
- Fixture Bases
- Die Racks
- Shelving
- Work Platforms
- Towers
- Carts
- Dollies

Construction
- Walers
- Aligners
- Stiffbacks
- Shores
- Braces
- Headers
- Cantilevers
- Trusses
- Tables
- Railings

SUPER STUD applications are limited only by the user's imagination...

Just Imagine!

The 9" x 9" SUPER STUD and 6" x 6" SUPER STUD JR. give high strength and stiffness with only 3/4 the weight of rolled channel.
The backbone of the SUPER STUD System is the lightweight, high strength SUPER STUD beam. SUPER STUDs are available in four modular sizes which, when combined with SUPER STUD accessories (page 32), offer the versatility of a giant "erector set".

### 9" x 9" SUPER STUD SIZES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Size</th>
<th>Wt.</th>
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<tbody>
<tr>
<td>01500</td>
<td>12'-0&quot;</td>
<td>162</td>
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<tr>
<td>02500</td>
<td>6'-0&quot;</td>
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<td>03500</td>
<td>3'-0&quot;</td>
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</tr>
<tr>
<td>04500</td>
<td>1'-6&quot;</td>
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</table>
SUPER STUDs and SUPER STUD accessories (page 32) are available on a lease or purchase basis from the EFCO warehouse nearest you.
This technical data has been developed to assist engineers in the design of your specific SUPER STUD applications. Capacities are based on safety factors commonly used by the forming and shoring industry. Compression members are rated using 2.5:1 safety factors. The users of EFCO SUPER STUDs must design SUPER STUD forming and shoring assemblies to appropriate safety factors and control all field conditions to assure that SUPER STUDs are not overloaded.
SUPER STUD Shoring

LOAD CHART

UNBRACED LENGTH (FT)

LOAD (KIPS)

HEIGHT

LOAD

6" X 6"

l_m = 42.8 in

r_m = 3.90 in.

6" X 9"

l_m = 9.67 in

r_m = 2.58 in.

Footing supports and shores to be designed and field inspected by qualified personnel.

9" x 9" SUPER STUD Wind Brace

PW = .003V
V = Wind Velocity in MPH
PW = Wind Pressure in PSF

NOTE:
Magnitudes of loads vary with the angle of the raker to the vertical.
Loads will reverse due to wind directions and uplift loads will be encountered.

All installations to be checked by a qualified designer.

Example:
Assume Braces @ 12'-0" cc/80mph wind
PW = (.003)(80) = 19.2 lb/sq ft.
Wind Uniform Load = (19.2)(12) = 231 #/ft.

Typical loads for 45°

<table>
<thead>
<tr>
<th>H</th>
<th>Rev</th>
<th>Ribh</th>
<th>Revh</th>
<th>Revh</th>
<th>Rbh</th>
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<tbody>
<tr>
<td>18</td>
<td>2.77K</td>
<td>2.77K</td>
<td>2.77K</td>
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<td>5.54K</td>
<td>5.54K</td>
<td>2.77K</td>
<td>7.83K</td>
<td></td>
</tr>
</tbody>
</table>

X-bracing incl/75° Y-Y Axis

NOTE: Capacities are increased 4/3 due to wind loading.