ENGINEERING CATALOG
No. F-1010

(800) FX-STRUT

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The mission of Flex-Strut and its personnel is to provide quality metal framing products, competitively priced with excellent customer service.

Building Growth

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Flex-Strut CHANNEL

**FS-100**
1-5/8" x 3-1/4" x 12 ga

Ref: Pg. 5

12 ga = .105" nom.

**FS-150**
1-5/8" x 2-7/16" x 12 ga

Ref: Pg. 6

14 ga = .075" nom.

**FS-200**
1-5/8" x 1-5/8" x 12 ga

Ref: Pg. 7

17 ga = .095" nom.

**FS-210**
1-5/8" x 1-5/8" x 14 ga

Ref: Pg. 10

14 ga = .075" nom.

**FS-300**
1-5/8" x 1-3/8" x 12 ga

Ref: Pg. 12

12 ga = .105" nom.

**FS-400**
1-5/8" x 1" x 12 ga

Ref: Pg. 13

FS-100 304#/CFT
FS-150 246#/CFT
FS-200 188#/CFT
FS-210 140#/CFT
FS-300 170#/CFT
FS-400 143#/CFT
Flex-Strut CHANNEL

**FS-450**
1-5/8” x 7/8” x 12 ga

Ref: Pg. 14

**FS-500**
1-5/8” x 13/16” x 14 ga

Ref: Pg. 15

**FS-500**
1-5/8” x 13/16” x 14 ga

Ref: Pg. 15

**FS-510**
1-5/8” x 13/16” x 16 ga

Ref: Pg. 16

**FS-520**
1-5/8” x 13/16” x 12 ga

Ref: Pg. 17

**FS-503**
1-5/8” x 13/16” x 12 ga

Ref: Pg. 17

19 ga = .040” nom.
12 ga = .105” nom.
14 ga = .075 nom.

**WELDED COMBINATIONS**
(Back-to-Back shown on Channel pages)  (Scaled Down to Size)

(800) FX-STRUT
MATERIAL SPECIFICATIONS and GENERAL INFORMATION

CHANNEL
General – Flex-Strut channels are manufactured by Roll-forming strip steel into channel configurations.
Material – Hot-Roll, Green and Hot dip galvanized,..... ASTM A1011 (Meets the physical requirements of Grade 33)
Pre-Galvanized................................. ASTM A-653 (Meets the physical requirements of Grade 33)
Stainless Steel (Type 316 or 304),........... ASTM A240
Aluminum ............................................. 6005-T5 (Exceeds 6063-T6 Strength)
Design – Design tables are based on AISI “Cold Formed Steel Design Manual”.
Welding – Channel combinations are made by spot welding or plug welding. Weld spacing is three inches (3") on center
Finishes – Channels are available in Plain (PL), Pre-galvanized (PG) (G90 per ASTM A653/0.90oz/sq ft; 0.77 mil thickness and
Green (GR). Some channels are available in Aluminum (AL), Stainless Steel (ST4 or ST6), Hot-Dip Galvanized After
Fabrication (HD) (Per ASTM A123 Grade 85/3.3mil thickness), Gold (GD)(Per ASTM B633 Type II SC2 with yellow
chromate (0.30 mil thickness)), fiberglass, and PVC coated. Custom colors are available upon request.

LOAD REDUCTIONS
Values in load tables assume simply supported, solid steel channel with uniform loading.
Reduction factors for other conditions can be seen in the table below.

<table>
<thead>
<tr>
<th>CONDITIONS</th>
<th>REDUCTION FACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Slot (SS) and Holes (H)</td>
<td>0.85</td>
</tr>
<tr>
<td>Slotted (SL)</td>
<td>0.90</td>
</tr>
<tr>
<td>Knock-out (KO)</td>
<td>0.95</td>
</tr>
<tr>
<td>Center Point Load (Published Allowable Stress Values)</td>
<td>0.50</td>
</tr>
<tr>
<td>Center Point Load (Published Allowable Deflection Values)</td>
<td>0.80</td>
</tr>
<tr>
<td>Slotted, Back to Back Channel (Table values marked with *)</td>
<td>0.75</td>
</tr>
<tr>
<td>Aluminum Strut w/ Uniform Load (Published Allowable Stress Values)</td>
<td>0.60</td>
</tr>
<tr>
<td>Aluminum Strut w/ Uniform Load (Published Allowable Deflection Values)</td>
<td>0.33</td>
</tr>
<tr>
<td>Aluminum w/ Center Point Load (Published Allowable Stress Values)</td>
<td>0.30</td>
</tr>
<tr>
<td>Aluminum w/ Center Point Load (Published Allowable Deflection Values)</td>
<td>0.26</td>
</tr>
</tbody>
</table>

*NOTE: Load reductions can be combined for multiple reduction conditions Ex: FS-200SS AL @ 120.00”
(Allowable Uniform load (1/240 deflection) = 120”*.85*.33=34lbs

CHANNEL NUTS
General – Flex-Strut channel nuts are stamped from steel bar and case hardened after forming and tapping.
Material – Steel bar used to manufacture Channel nuts conforms to ASTM A1011.
Finish – Electro-galvanized (E/G) zinc per ASTM B-633 (Type III SC1 (0.2 mil thickness)), Aluminum (ASTM B221,
Type 6063-T5), Stainless Steel (ASTM B783 (Type 316N2-33) or ASTM A276) and Fiberglass nuts are available in some sizes.

FITTINGS
General – Flex-Strut fittings are manufactured by punching and cold forming steel for specific channel connection
applications. Typical fittings are ¼” thick and 1-5/8” wide. Typical holes are 9/16” diameter,
1-7/8” on center and 13/16” from ends.
Material – Steel bar used to manufacture fittings conforms to ASTM A575 or ASTM A1011 GR 33
Finish – Electro-galvanized (E/G) zinc per ASTM B-633 (Type III SC1 (0.2 mil thickness)). Some fittings available in
Aluminum (5052-H32), Stainless Steel (ASTM A276) and Fiberglass.

LOAD DATA
Allowable channel beam and column loads shown in the following tables were developed per the NORTH
AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
CHANNEL FABRICATIONS

SHORT SLOTS

9/16” x 1-1/8” SLOTS • 2” ON CENTER
SUFFIX = “SS” i.e., FS-200SS

SLOTS

13/32” x 3” SLOTS • 4” ON CENTER
SUFFIX = “SL” i.e., FS-200SL

HOLES

9/16” DIAMETER HOLES • 1-7/8” ON CENTER
SUFFIX = “H” i.e., FS-200H

KNOCK-OUTS

7/8” DIAMETER KNOCKOUTS • 6” ON CENTER
SUFFIX = “KO” i.e., FS-200KO

SPECIAL FABRICATIONS

Universal Slot

Special Diameter Holes

Holes Both Ends

Cut to Length

(800) FX-STRUT
### SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>Ix in(^4)</th>
<th>Sx in(^3)</th>
<th>Rx in</th>
<th>Iy in(^4)</th>
<th>Sy in(^3)</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-100</td>
<td>3.04</td>
<td>.894</td>
<td>1.089</td>
<td>.624</td>
<td>1.104</td>
<td>.432</td>
<td>.532</td>
<td>.695</td>
</tr>
<tr>
<td>FS-101</td>
<td>6.08</td>
<td>1.788</td>
<td>6.222</td>
<td>1.914</td>
<td>1.865</td>
<td>.863</td>
<td>1.063</td>
<td>.695</td>
</tr>
</tbody>
</table>

\( I = \text{Moment of Inertia} \quad S = \text{Section Modulus} \quad R = \text{Radius of Gyration} \)

### CHANNEL FINISH:
- Plain (PL)
- Pre-Galvanized (PG)
- Green (GR)
- Hot-Dipped Galvanized (HD)
- Aluminum (AL)

### STANDARD LENGTH:
- 20 FT.
- 10 FT.

### ALLOWABLE BEAM LOADS — Span in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
</table>

1. Total Static Load in LBS.
2. The line is Maximum Allowable Uniform Load creating 25,000 PSI Bending Stress about the X-Axis based on Simple Beam condition.
3. Lower line shows Total Uniform Load which produces a deflection of 1/240th of the SPAN, i.e., 1/2" Def. for 120" Span.
4. Multiply values in upper line by 0.5 to obtain Allowable Center Concentrated Load at 25,000 PSI Stress, Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-100</td>
<td>13,400</td>
<td>11,590</td>
<td>9,805</td>
<td>8,140</td>
<td>6,655</td>
<td>4,630</td>
<td>3,520</td>
<td>2,840</td>
<td>2,385</td>
<td>2,070</td>
<td>1,830</td>
</tr>
<tr>
<td>FS-101</td>
<td>32,700</td>
<td>32,700</td>
<td>32,330</td>
<td>31,300</td>
<td>30,160</td>
<td>27,580</td>
<td>24,730</td>
<td>21,735</td>
<td>18,730</td>
<td>15,820</td>
<td>13,070</td>
</tr>
</tbody>
</table>

1. Column Loads are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. Allowable Column Loads shown are based upon an effective length factor \( K = 0.8 \) standard engineering practice required for evaluation of other conditions.
### Section Properties

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT</th>
<th>AREA</th>
<th>Ix</th>
<th>Sx</th>
<th>Rx</th>
<th>ly</th>
<th>Sy</th>
<th>Ry</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-150</td>
<td>2.46</td>
<td>.723</td>
<td>.516</td>
<td>.388</td>
<td>.845</td>
<td>.333</td>
<td>.410</td>
<td>.679</td>
</tr>
<tr>
<td>FS-151</td>
<td>4.92</td>
<td>1.447</td>
<td>2.801</td>
<td>1.149</td>
<td>1.392</td>
<td>.666</td>
<td>.820</td>
<td>.679</td>
</tr>
</tbody>
</table>

1. Moment of Inertia
2. Section Modulus
3. Radius of Gyration

### Channel Finish:
- Plain (PL)
- Pre-Galvanized (PG)
- Green (GR)
- Hot-Dipped Galvanized (HD)
- Aluminum (AL)

### Standard Length:
- 20 FT.
- 10 FT.

### Allowable Beam Loads — Span in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-150</td>
<td>3,230</td>
<td>2,580</td>
<td>2,150</td>
<td>1,850</td>
<td>1,620</td>
<td>1,290</td>
<td>1,080</td>
<td>920</td>
<td>700</td>
<td>540</td>
<td>340</td>
<td></td>
</tr>
<tr>
<td>FS-151</td>
<td>3,800*</td>
<td>3,800*</td>
<td>3,800*</td>
<td>3,800*</td>
<td>3,800*</td>
<td>3,800*</td>
<td>3,800*</td>
<td>3,190</td>
<td>2,740</td>
<td>2,390</td>
<td>2,130</td>
<td>1,920</td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2’’ Def. for 120’’ Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4” weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

### Allowable Column Loads — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-150</td>
<td>11,240</td>
<td>9,850</td>
<td>8,490</td>
<td>7,240</td>
<td>6,130</td>
<td>4,440</td>
<td>3,470</td>
<td>2,865</td>
<td>2,450</td>
<td>2,150</td>
<td>1,915</td>
</tr>
<tr>
<td>FS-151</td>
<td>28,010</td>
<td>27,375</td>
<td>26,600</td>
<td>25,700</td>
<td>24,695</td>
<td>22,440</td>
<td>19,965</td>
<td>17,390</td>
<td>14,825</td>
<td>12,375</td>
<td>10,110</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
### FS-200 • 1-5/8" CHANNEL • 12 Gauge

<table>
<thead>
<tr>
<th>SECTION PROPERTIES</th>
<th>X-X AXIS</th>
<th>Y-Y AXIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNL P/N</td>
<td>WT/FT LBS.</td>
<td>AREA SQ. IN.</td>
</tr>
<tr>
<td>FS-200</td>
<td>1.88</td>
<td>.553</td>
</tr>
<tr>
<td>FS-201</td>
<td>3.76</td>
<td>1.105</td>
</tr>
</tbody>
</table>

I = Moment of Inertia  S = Section Modulus  R = Radius of Gyration

### CHANNEL FINISH:
- PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR)
- HOT-DIPPED GALVANIZED (HD) • ALUMINUM (AL) • STAINLESS (ST4) TYPE 304
- STAINLESS (ST6) TYPE 316

### STANDARD LENGTH:
- 20 FT. • 10 FT.

### ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-200</td>
<td></td>
<td>1,660</td>
<td>1,330</td>
<td>1,110</td>
<td>950</td>
<td>830</td>
<td>660</td>
<td>550</td>
<td>480</td>
<td>420</td>
<td>370</td>
<td>330</td>
</tr>
<tr>
<td></td>
<td></td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>FS-201</td>
<td></td>
<td>2,550*</td>
<td>2,550*</td>
<td>2,550*</td>
<td>2,370</td>
<td>1,900</td>
<td>1,580</td>
<td>1,360</td>
<td>1,190</td>
<td>1,050</td>
<td>950</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e., 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-200</td>
<td>9,050</td>
<td>8,090</td>
<td>7,185</td>
<td>6,370</td>
<td>5,650</td>
<td>4,470</td>
<td>3,615</td>
<td>3,040</td>
<td>2,615</td>
<td>2,285</td>
<td>2,015</td>
</tr>
<tr>
<td>FS-201</td>
<td>21,995</td>
<td>21,445</td>
<td>20,840</td>
<td>20,045</td>
<td>19,170</td>
<td>17,220</td>
<td>15,105</td>
<td>12,940</td>
<td>10,820</td>
<td>8,820</td>
<td>7,145</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
## FTS-200H3 and FS-200H3 Telescoping Channel

**FTS-200H3**
Telescoping Strut (1-7/8” x 1-7/8” 12 gauge channel —
fits over 1-5/8” x 1-5/8” channels 9/16” holes on 1-7/8” centers)

<table>
<thead>
<tr>
<th>Section Properties*</th>
<th>X-X Axis</th>
<th>Y-Y Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs/ft</td>
<td>1.93</td>
<td>0.458</td>
</tr>
<tr>
<td>Area In²</td>
<td>0.253</td>
<td>0.253</td>
</tr>
<tr>
<td>Iₜ In⁴</td>
<td>0.743</td>
<td>0.276</td>
</tr>
<tr>
<td>Sₜ In³</td>
<td>0.294</td>
<td>0.776</td>
</tr>
</tbody>
</table>

**FS-200H3**
3-Hole Strut (1-5/8” x 1-5/8” 12 gauge channel
with 9/16” holes on 1-7/8” centers on three sides)

<table>
<thead>
<tr>
<th>Section Properties*</th>
<th>X-X Axis</th>
<th>Y-Y Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs/ft</td>
<td>1.66</td>
<td>0.386</td>
</tr>
<tr>
<td>Area In²</td>
<td>0.160</td>
<td>0.194</td>
</tr>
<tr>
<td>Iₜ In⁴</td>
<td>0.640</td>
<td>0.172</td>
</tr>
<tr>
<td>Sₜ In³</td>
<td>0.212</td>
<td>0.664</td>
</tr>
</tbody>
</table>

**FTS-200H3 and FS-200H3 (combination)**
1-5/8” x 1-5/8” 12 gauge channel with 9/16” holes on 1-7/8” centers on three sides

<table>
<thead>
<tr>
<th>Section Properties*</th>
<th>X-X Axis</th>
<th>Y-Y Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs/ft</td>
<td>3.60</td>
<td>0.847</td>
</tr>
<tr>
<td>Area In²</td>
<td>0.413</td>
<td>0.422</td>
</tr>
<tr>
<td>Iₜ In⁴</td>
<td>0.698</td>
<td>0.0448</td>
</tr>
<tr>
<td>Sₜ In³</td>
<td>0.477</td>
<td>0.727</td>
</tr>
</tbody>
</table>

---
*(Section properties are based on nominal metal thickness and overall dimensions.)*

**Slip Load Resistance (Safety Factor = 3)**

| Typical 1/4” thick 2-hole fitting with (2) 1/2” bolts and nuts | 700 lbs |
| 1/2” bolt and nut | 3600 lbs |

---

**Standard Finish:** Available in Green (GR)
Pre-galvanized (PG)
## Beam Loading Data

<table>
<thead>
<tr>
<th>Beam Span (inches)</th>
<th>Allowable Load (lbs)</th>
<th>Resulting Deflection (inches)</th>
<th>Allowable Load @ Deflection = 1/240 Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>4203</td>
<td>0.012</td>
<td>4203</td>
</tr>
<tr>
<td>24</td>
<td>2099</td>
<td>0.050</td>
<td>2099</td>
</tr>
<tr>
<td>36</td>
<td>1396</td>
<td>0.112</td>
<td>1396</td>
</tr>
<tr>
<td>48</td>
<td>1044</td>
<td>0.200</td>
<td>1044</td>
</tr>
<tr>
<td>60</td>
<td>831</td>
<td>0.312</td>
<td>664</td>
</tr>
<tr>
<td>72</td>
<td>689</td>
<td>0.450</td>
<td>456</td>
</tr>
<tr>
<td>84</td>
<td>587</td>
<td>0.612</td>
<td>330</td>
</tr>
<tr>
<td>96</td>
<td>510</td>
<td>0.799</td>
<td>248</td>
</tr>
<tr>
<td>108</td>
<td>450</td>
<td>1.012</td>
<td>190</td>
</tr>
<tr>
<td>120</td>
<td>401</td>
<td>1.249</td>
<td>149</td>
</tr>
</tbody>
</table>

## FS-200H3

<table>
<thead>
<tr>
<th>Beam Span (inches)</th>
<th>Allowable Load (lbs)</th>
<th>Resulting Deflection (inches)</th>
<th>Allowable Load @ Deflection = 1/240 Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>2225</td>
<td>0.015</td>
<td>3225</td>
</tr>
<tr>
<td>24</td>
<td>1610</td>
<td>0.061</td>
<td>1610</td>
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<tr>
<td>36</td>
<td>1071</td>
<td>0.136</td>
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<td>48</td>
<td>800</td>
<td>0.243</td>
<td>658</td>
</tr>
<tr>
<td>60</td>
<td>637</td>
<td>0.379</td>
<td>417</td>
</tr>
<tr>
<td>72</td>
<td>528</td>
<td>0.546</td>
<td>286</td>
</tr>
<tr>
<td>84</td>
<td>449</td>
<td>0.743</td>
<td>206</td>
</tr>
<tr>
<td>96</td>
<td>390</td>
<td>0.970</td>
<td>153</td>
</tr>
<tr>
<td>108</td>
<td>344</td>
<td>1.228</td>
<td>116</td>
</tr>
<tr>
<td>120</td>
<td>306</td>
<td>1.516</td>
<td>90</td>
</tr>
</tbody>
</table>

## FTS-200H3 and FS-200H3 (both pieces equal length)

<table>
<thead>
<tr>
<th>Beam Span (inches)</th>
<th>Allowable Load (lbs)</th>
<th>Resulting Deflection (inches)</th>
<th>Allowable Load @ Deflection = 1/240 Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>7033</td>
<td>0.013</td>
<td>7033</td>
</tr>
<tr>
<td>24</td>
<td>3511</td>
<td>0.051</td>
<td>3511</td>
</tr>
<tr>
<td>36</td>
<td>2335</td>
<td>0.115</td>
<td>2335</td>
</tr>
<tr>
<td>48</td>
<td>1745</td>
<td>0.205</td>
<td>1705</td>
</tr>
<tr>
<td>60</td>
<td>1389</td>
<td>0.320</td>
<td>1082</td>
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<td>72</td>
<td>1151</td>
<td>0.460</td>
<td>742</td>
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<tr>
<td>84</td>
<td>980</td>
<td>0.627</td>
<td>536</td>
</tr>
<tr>
<td>96</td>
<td>851</td>
<td>0.819</td>
<td>401</td>
</tr>
<tr>
<td>108</td>
<td>749</td>
<td>1.036</td>
<td>307</td>
</tr>
<tr>
<td>120</td>
<td>668</td>
<td>1.279</td>
<td>239</td>
</tr>
</tbody>
</table>
FS-210 • 1-5/8" CHANNEL • 14 Gauge

SECTION PROPERTIES

<table>
<thead>
<tr>
<th>P/N</th>
<th>WT/Ft</th>
<th>AREA</th>
<th>Ix</th>
<th>Sx</th>
<th>Rx</th>
<th>Ly</th>
<th>Sy</th>
<th>Ry</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-211</td>
<td>2.80</td>
<td>.824</td>
<td>.722</td>
<td>.444</td>
<td>.936</td>
<td>.361</td>
<td>.444</td>
<td>.661</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>I = Moment of Inertia</th>
<th>S = Section Modulus</th>
<th>R = Radius of Gyration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNL</td>
<td>X-X AXIS</td>
<td>Y-Y AXIS</td>
<td></td>
</tr>
<tr>
<td>FS-210</td>
<td>15/8&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-211</td>
<td>3 1/4&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-210</td>
<td>1/240</td>
</tr>
<tr>
<td>FS-211</td>
<td>1/240</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,340</td>
<td>1,070</td>
<td>900</td>
<td>770</td>
<td>670</td>
<td>540</td>
<td>450</td>
<td>380</td>
<td>340</td>
<td>300</td>
<td>270</td>
<td></td>
</tr>
<tr>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>200</td>
<td>150</td>
<td>120</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>2,180*</td>
<td>2,180*</td>
<td>2,115 *</td>
<td>1,850</td>
<td>1,480</td>
<td>1,225</td>
<td>1,060</td>
<td>930</td>
<td>820</td>
<td>740</td>
<td></td>
<td></td>
</tr>
<tr>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>980</td>
<td>750</td>
<td>590</td>
<td>480</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the Span, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-210</td>
<td></td>
</tr>
<tr>
<td>FS-211</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,600</td>
<td>5,845</td>
<td>5,090</td>
<td>4,385</td>
<td>3,745</td>
<td>2,715</td>
<td>2,100</td>
<td>1,720</td>
<td>1,460</td>
<td>1,270</td>
<td>1,125</td>
<td></td>
</tr>
<tr>
<td>15,890</td>
<td>15,455</td>
<td>14,965</td>
<td>14,450</td>
<td>13,920</td>
<td>12,650</td>
<td>11,170</td>
<td>9,650</td>
<td>8,145</td>
<td>6,725</td>
<td>5,455</td>
<td></td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

(800) FX-STRUT
### FS-280 • 2" CHANNEL • 10 Gauge

#### SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT</th>
<th>AREA</th>
<th>Ix in(^4)</th>
<th>Sx in(^3)</th>
<th>Rx in</th>
<th>Ly in(^4)</th>
<th>Sy in(^3)</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-280</td>
<td>3.10</td>
<td>.912</td>
<td>.476</td>
<td>.438</td>
<td>.723</td>
<td>.569</td>
<td>.569</td>
<td>.790</td>
</tr>
</tbody>
</table>

**I = Moment of Inertia  S = Section Modulus  R = Radius of Gyration**

#### ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>Span 24&quot;</th>
<th>36&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
<th>132&quot;</th>
<th>144&quot;</th>
<th>156&quot;</th>
<th>180&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-280</td>
<td>3,650</td>
<td>2,440</td>
<td>1,830</td>
<td>1,460</td>
<td>1,220</td>
<td>1,040</td>
<td>910</td>
<td>810</td>
<td>730</td>
<td>660</td>
<td>610</td>
<td>560</td>
<td>490</td>
<td></td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load controlled by 25,000 PSI design stress.

#### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Span 24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-280</td>
<td>16,320</td>
<td>15,055</td>
<td>13,765</td>
<td>12,520</td>
<td>11,350</td>
<td>9,300</td>
<td>7,635</td>
<td>6,315</td>
<td>5,385</td>
<td>4,690</td>
<td>4,135</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

---

**CHANNEL FINISH:**
- PLAIN (PL)
- HOT-DIPPED GALVANIZED (HD)

**STANDARD LENGTH:** 20 FT. • 10 FT.
### SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>Ix in⁴</th>
<th>Sx in³</th>
<th>Rx in</th>
<th>Iy in⁴</th>
<th>Sy in³</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-300</td>
<td>1.70</td>
<td>.500</td>
<td>.118</td>
<td>.151</td>
<td>.487</td>
<td>.204</td>
<td>.251</td>
<td>.639</td>
</tr>
<tr>
<td>FS-301</td>
<td>3.40</td>
<td>1.000</td>
<td>.589</td>
<td>.428</td>
<td>.767</td>
<td>.408</td>
<td>.502</td>
<td>.639</td>
</tr>
</tbody>
</table>

I = Moment of Inertia  S = Section Modulus  R = Radius of Gyration

### CHANNEL FINISH:
- PLAIN (PL)
- PRE-GALVANIZED (PG)
- GREEN (GR)
- HOT-DIPPED GALVANIZED (HD)

### STANDARD LENGTH:
- 20 FT.  •  10 FT.

### ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>P/N</th>
<th>Stress 1/240</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-300</td>
<td>1,260</td>
<td>1,010</td>
<td>840</td>
<td>720</td>
<td>630</td>
<td>500</td>
<td>420</td>
<td>360</td>
<td>310</td>
<td>280</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>FS-301</td>
<td>2,160*</td>
<td>2,160*</td>
<td>2,040</td>
<td>1,785</td>
<td>1,430</td>
<td>1,190</td>
<td>1,020</td>
<td>890</td>
<td>795</td>
<td>715</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-300</td>
<td>7,360</td>
<td>6,745</td>
<td>6,170</td>
<td>5,645</td>
<td>5,175</td>
<td>4,375</td>
<td>3,705</td>
<td>3,120</td>
<td>2,670</td>
<td>2,275</td>
<td>1,845</td>
</tr>
<tr>
<td>FS-301</td>
<td>17,215</td>
<td>16,840</td>
<td>16,435</td>
<td>15,875</td>
<td>15,255</td>
<td>13,860</td>
<td>12,330</td>
<td>10,735</td>
<td>9,150</td>
<td>7,635</td>
<td>6,235</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
### FS-400 • 1" CHANNEL • 12 Gauge

#### SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>Ix in$^2$</th>
<th>Sx in$^3$</th>
<th>Rx in</th>
<th>Ly in$^2$</th>
<th>Sy in$^3$</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-400</td>
<td>1.43</td>
<td>.421</td>
<td>.052</td>
<td>.089</td>
<td>.350</td>
<td>.159</td>
<td>.195</td>
<td>.613</td>
</tr>
<tr>
<td>FS-401</td>
<td>2.86</td>
<td>.843</td>
<td>.250</td>
<td>.250</td>
<td>.545</td>
<td>.317</td>
<td>.390</td>
<td>.613</td>
</tr>
</tbody>
</table>

$I = $ Moment of Inertia  $S = $ Section Modulus  $R = $ Radius of Gyration

#### ALLOWABLE BEAM LOADS —  Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>Stress 1/120</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-400</td>
<td>750</td>
<td>370</td>
</tr>
<tr>
<td>FS-401</td>
<td>1,540*</td>
<td>1,040*</td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

#### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>Stress 1/120</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-400</td>
<td>7,350</td>
<td>2,265</td>
</tr>
<tr>
<td>FS-401</td>
<td>14,420</td>
<td>12,130</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor $K = 0.8$ standard engineering practice required for evaluation of other conditions.
**SECTION PROPERTIES**

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>Ix in⁴</th>
<th>Sx in³</th>
<th>Rx in</th>
<th>Iy in⁴</th>
<th>Sy in³</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-450</td>
<td>1.35</td>
<td>.400</td>
<td>.037</td>
<td>.073</td>
<td>.305</td>
<td>.146</td>
<td>.180</td>
<td>.603</td>
</tr>
<tr>
<td>FS-451</td>
<td>2.70</td>
<td>.800</td>
<td>.183</td>
<td>.208</td>
<td>.475</td>
<td>.294</td>
<td>.361</td>
<td>.603</td>
</tr>
</tbody>
</table>

**ALLOWABLE BEAM LOADS** — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>ALLOWABLE BEAM LOADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-450</td>
<td>Stress 1/240</td>
<td>600 480 400 340 300 240 200 170 150 130 120</td>
</tr>
<tr>
<td>FS-451</td>
<td>Stress 1/240</td>
<td>1,380* 1,380* 1,160 995 870 695 580 500 435 385 350</td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/12" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

**ALLOWABLE COLUMN LOADS** — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>ALLOWABLE COLUMN LOADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-450</td>
<td>5,965 5,390 4,755 4,100 3,450 2,305 1,600 ***** ***** ***** *****</td>
</tr>
<tr>
<td>FS-451</td>
<td>13,280 12,715 12,060 11,325 10,535 8,855 7,160 5,570 4,265 3,370 ****</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
### FS-500 • 13/16" CHANNEL • 14 Gauge

<table>
<thead>
<tr>
<th>SECTION PROPERTIES</th>
<th>X-X AXIS</th>
<th>Y-Y AXIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNL</td>
<td>WT/FT</td>
<td>AREA</td>
</tr>
<tr>
<td>P/N</td>
<td>LBS.</td>
<td>SQ. IN.</td>
</tr>
<tr>
<td>FS-500</td>
<td>.99</td>
<td>.290</td>
</tr>
<tr>
<td>FS-501</td>
<td>1.98</td>
<td>.581</td>
</tr>
</tbody>
</table>

* I = Moment of Inertia  
  S = Section Modulus  
  R = Radius of Gyration

### CHANNEL FINISH:
- PLAIN (PL)  
- PRE-GALVANIZED (PG)  
- GREEN (GR)  
- HOT-DIPPED GALVANIZED (HD)  
- ALUMINUM (AL)  
- STAINLESS (ST4)  
- STAINLESS (ST6)  
- PVC COATED

### STANDARD LENGTH:
- 20 FT.  
- 10 FT.

### ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-500</td>
<td>440</td>
<td>350</td>
<td>290</td>
<td>250</td>
<td>220</td>
<td>180</td>
<td>150</td>
<td>130</td>
<td>110</td>
<td>100</td>
<td>90</td>
</tr>
<tr>
<td>FS-501</td>
<td>420</td>
<td>320</td>
<td>290</td>
<td>250</td>
<td>220</td>
<td>180</td>
<td>150</td>
<td>130</td>
<td>110</td>
<td>100</td>
<td>90</td>
</tr>
<tr>
<td>FS-500</td>
<td>1070*</td>
<td>960</td>
<td>800</td>
<td>690</td>
<td>600</td>
<td>480</td>
<td>400</td>
<td>340</td>
<td>300</td>
<td>270</td>
<td>240</td>
</tr>
<tr>
<td>FS-501</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td></td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.  
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.  
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for a 120" Span)  
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.  
5. * Load limited by spot weld shear.  
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.  
7. *** Load controlled by 25,000 PSI design stress.

### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-500</td>
<td>4,855</td>
<td>4,325</td>
<td>3,685</td>
<td>3,055</td>
<td>2,455</td>
<td>1,570</td>
<td>1,090</td>
<td>*****</td>
<td>*****</td>
<td>*****</td>
<td></td>
</tr>
<tr>
<td>FS-501</td>
<td>11,230</td>
<td>10,610</td>
<td>9,895</td>
<td>9,115</td>
<td>8,290</td>
<td>6,600</td>
<td>4,995</td>
<td>3,675</td>
<td>2,815</td>
<td>2,225</td>
<td>2,005</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.  
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
FS-510 • 13/16” CHANNEL • 16 Gauge

SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>X-X AXIS</th>
<th>Y-Y AXIS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ix in⁴</td>
<td>Sx in³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ly in⁴</td>
<td>Sy in³</td>
</tr>
<tr>
<td>FS-510</td>
<td>.81</td>
<td>.241</td>
<td>.022</td>
<td>.064</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.091</td>
<td>.112</td>
</tr>
<tr>
<td>FS-511</td>
<td>1.62</td>
<td>.483</td>
<td>.102</td>
<td>.126</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.182</td>
<td>.224</td>
</tr>
</tbody>
</table>

I = Moment of Inertia  
S = Section Modulus  
R = Radius of Gyration

CHANNEL FINISH:  
- PLAIN (PL)  
- PRE-GALVANIZED (PG)  
- GREEN (GR)  
- HOT-DIPPED GALVANIZED (HD)  
- PVC COATED

STANDARD LENGTH:  
- 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-510</td>
<td>1/240</td>
</tr>
<tr>
<td>FS-511</td>
<td>1/240</td>
</tr>
</tbody>
</table>

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th></th>
<th></th>
<th></th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-510</td>
<td>3,890</td>
<td>3,470</td>
<td>3,070</td>
<td>2,570</td>
<td>2,100</td>
<td>1,350</td>
<td>940</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-511</td>
<td>9,090</td>
<td>8,610</td>
<td>8,060</td>
<td>7,450</td>
<td>6,810</td>
<td>5,480</td>
<td>4,205</td>
<td>3,115</td>
<td>2,385</td>
<td>1,885</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
FS-520 • 13/16" CHANNEL • 12 Gauge

SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>Ix in⁴</th>
<th>Sx in³</th>
<th>Rx in</th>
<th>Iy in⁴</th>
<th>Sy in³</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-520</td>
<td>1.32</td>
<td>.375</td>
<td>.030</td>
<td>.062</td>
<td>.282</td>
<td>.140</td>
<td>.172</td>
<td>.600</td>
</tr>
<tr>
<td>FS-521</td>
<td>2.64</td>
<td>.750</td>
<td>.145</td>
<td>.180</td>
<td>.435</td>
<td>.280</td>
<td>.345</td>
<td>.600</td>
</tr>
</tbody>
</table>

1 = Moment of Inertia  
S = Section Modulus  
R = Radius of Gyration

CHANNEL FINISH:  • PLAIN (PL)  • PRE-GALVANIZED (PG)  • GREEN (GR)  • HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH:  20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-520</td>
<td>530</td>
<td>420</td>
<td>350</td>
<td>300</td>
<td>260</td>
<td>210</td>
<td>175</td>
<td>150</td>
<td>130</td>
<td>120</td>
<td>105</td>
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</tr>
<tr>
<td></td>
<td>500</td>
<td>320</td>
<td>220</td>
<td>160</td>
<td>125</td>
<td>80</td>
<td>55</td>
<td>40</td>
<td>30</td>
<td>25</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>FS-521</td>
<td>1,245*</td>
<td>1,190</td>
<td>990</td>
<td>850</td>
<td>745</td>
<td>595</td>
<td>495</td>
<td>425</td>
<td>370</td>
<td>330</td>
<td>295</td>
<td></td>
</tr>
<tr>
<td></td>
<td>***</td>
<td>790</td>
<td>605</td>
<td>385</td>
<td>270</td>
<td>195</td>
<td>150</td>
<td>120</td>
<td>95</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, i.e.; 1/2" Def. for 120" Span
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
<th>84&quot;</th>
<th>96&quot;</th>
<th>108&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-520</td>
<td>5,600</td>
<td>4,960</td>
<td>4,280</td>
<td>3,595</td>
<td>2,940</td>
<td>2,355</td>
<td>1,895</td>
<td>****</td>
<td>****</td>
<td>****</td>
<td>****</td>
</tr>
<tr>
<td>FS-521</td>
<td>15,300</td>
<td>14,365</td>
<td>13,300</td>
<td>12,145</td>
<td>10,930</td>
<td>8,495</td>
<td>6,230</td>
<td>4,575</td>
<td>3,505</td>
<td>2,765</td>
<td>****</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.
FS-600 • 13/16" CHANNEL • 19 Gauge

SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>X-X AXIS</th>
<th>Y-Y AXIS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ix in⁴</td>
<td>Sx in³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ly in⁴</td>
<td>Sy in³</td>
</tr>
<tr>
<td>FS-600</td>
<td>.35</td>
<td>.103</td>
<td>.009</td>
<td>.018</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>.009</td>
<td>.028</td>
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<td>.206</td>
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<td>.051</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.042</td>
<td>.056</td>
</tr>
</tbody>
</table>

I = Moment of Inertia  S = Section Modulus  R = Radius of Gyration

FS-600

CHANNEL FINISH: • PLAIN (PL) • GREEN (GR)

STANDARD LENGTH: 10 FT.

ALLOWABLE BEAM LOADS — Span in Inches

<table>
<thead>
<tr>
<th>Span in Inches</th>
<th>12&quot;</th>
<th>18&quot;</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-600 Stress 1/240</td>
<td>330</td>
<td>220</td>
<td>165</td>
<td>135</td>
<td>110</td>
<td>95</td>
<td>85</td>
<td>65</td>
<td>55</td>
</tr>
<tr>
<td>FS-601 Stress 1/240</td>
<td>405*</td>
<td>405*</td>
<td>345</td>
<td>285</td>
<td>245</td>
<td>215</td>
<td>170</td>
<td>145</td>
<td>110</td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e., 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>Unsupported Height in Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>FS-600</td>
</tr>
<tr>
<td>FS-601</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

(800) FX-STRUT
**FS-700 • 13/32" CHANNEL • 19 Gauge**

### SECTION PROPERTIES

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>WT/FT LBS.</th>
<th>AREA SQ. IN.</th>
<th>Ix in^4</th>
<th>Sx in^3</th>
<th>Rx in</th>
<th>Iy in^4</th>
<th>Sy in^3</th>
<th>Ry in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-700</td>
<td>.24</td>
<td>.071</td>
<td>.002</td>
<td>.006</td>
<td>.144</td>
<td>.007</td>
<td>.016</td>
<td>.304</td>
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<tr>
<td>FS-701</td>
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<td>.141</td>
<td>.007</td>
<td>.016</td>
<td>.215</td>
<td>.013</td>
<td>.032</td>
<td>.304</td>
</tr>
</tbody>
</table>

I = Moment of Inertia  
S = Section Modulus  
R = Radius of Gyration

### CHANNEL FINISH:

- PLAIN (PL)  
- GREEN (GR)

### STANDARD LENGTH:

10 FT.

### ALLOWABLE BEAM LOADS — Span In Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>12&quot;</th>
<th>18&quot;</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-700</td>
<td></td>
<td>140</td>
<td>95</td>
<td>70</td>
<td>55</td>
<td>45</td>
<td>40</td>
<td>35</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>FS-701</td>
<td></td>
<td>200*</td>
<td>190</td>
<td>145</td>
<td>115</td>
<td>95</td>
<td>80</td>
<td>70</td>
<td>55</td>
<td>50</td>
</tr>
</tbody>
</table>

1. TOTAL STATIC LOAD in LBS.  
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.  
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, i.e.; 1/2" Def. for 120" Span  
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.  
5. * Load limited by spot weld shear.  
6. *** Load controlled by 25,000 PSI design stress.

### ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

<table>
<thead>
<tr>
<th>CHNL P/N</th>
<th>Stress 1/240</th>
<th>12&quot;</th>
<th>18&quot;</th>
<th>24&quot;</th>
<th>30&quot;</th>
<th>36&quot;</th>
<th>42&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-700</td>
<td></td>
<td>1,290</td>
<td>975</td>
<td>655</td>
<td>420</td>
<td>290</td>
<td>****</td>
<td>****</td>
<td>****</td>
<td>****</td>
</tr>
<tr>
<td>FS-701</td>
<td></td>
<td>2,930</td>
<td>2,610</td>
<td>2,185</td>
<td>1,740</td>
<td>1,320</td>
<td>970</td>
<td>745</td>
<td>475</td>
<td>****</td>
</tr>
</tbody>
</table>

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.  
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.  
3. **** = KL/R>200

---

**(800) FX-STRUT**
## CHANNEL NUTS

### NO SPRING

**FS-200, 300 CHANNEL**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Thread</th>
<th>Thickness</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-0832NS</td>
<td>#8</td>
<td>32</td>
<td>1/4&quot;</td>
<td>6.5</td>
</tr>
<tr>
<td>FS-1032NS</td>
<td>#10</td>
<td>32</td>
<td>1/4&quot;</td>
<td>6.5</td>
</tr>
<tr>
<td>FS-1024NS</td>
<td>#10</td>
<td>24</td>
<td>1/4&quot;</td>
<td>6.5</td>
</tr>
<tr>
<td>FS-1/4NS</td>
<td>1/4&quot;</td>
<td>20</td>
<td>1/4&quot;</td>
<td>6.5</td>
</tr>
<tr>
<td>FS-5/16NS</td>
<td>5/16&quot;</td>
<td>18</td>
<td>3/8&quot;</td>
<td>8.7</td>
</tr>
<tr>
<td>FS-3/8NS</td>
<td>3/8&quot;</td>
<td>16</td>
<td>3/8&quot;</td>
<td>9.0</td>
</tr>
</tbody>
</table>

### SHORT SPRING

**FS-400, 450, 500, 520 CHANNEL**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Thread</th>
<th>Thickness</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-0832SS</td>
<td>#8</td>
<td>32</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-1032SS</td>
<td>#10</td>
<td>32</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-1024SS</td>
<td>#10</td>
<td>24</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-1/4SS</td>
<td>1/4&quot;</td>
<td>20</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
</tbody>
</table>

### REGULAR SPRING

**FS-200, 300 CHANNEL**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Thread</th>
<th>Thickness</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-1/4LS</td>
<td>1/4&quot;</td>
<td>20</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-3/8LS</td>
<td>3/8&quot;</td>
<td>16</td>
<td>3/8&quot;</td>
<td>10.0</td>
</tr>
<tr>
<td>FS-1/2LS</td>
<td>1/2&quot;</td>
<td>13</td>
<td>1/2&quot;</td>
<td>12.0</td>
</tr>
<tr>
<td>FS-5/8LS</td>
<td>5/8&quot;</td>
<td>11</td>
<td>7/16&quot;</td>
<td>16.0</td>
</tr>
<tr>
<td>FS-3/4LS</td>
<td>3/4&quot;</td>
<td>10</td>
<td>7/16&quot;</td>
<td>15.5</td>
</tr>
</tbody>
</table>

### LONG SPRING

**FS-100, 150 CHANNEL**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Thread</th>
<th>Thickness</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-0832TG</td>
<td>#8</td>
<td>32</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-1032TG</td>
<td>#10</td>
<td>32</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-1024TG</td>
<td>#10</td>
<td>24</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
<tr>
<td>FS-1/4TG</td>
<td>1/4&quot;</td>
<td>20</td>
<td>1/4&quot;</td>
<td>7.5</td>
</tr>
</tbody>
</table>

### TOP SPRING

**FS-700 CHANNEL**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Thread</th>
<th>Thickness</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7-0836</td>
<td>#8</td>
<td>36</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-7-0832</td>
<td>#8</td>
<td>32</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-7-1032</td>
<td>#10</td>
<td>32</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-7-1024</td>
<td>#10</td>
<td>24</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-7-1/4</td>
<td>1/4&quot;</td>
<td>20</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### MINI NUT

**FS-600 CHANNEL**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Thread</th>
<th>Thickness</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-6-0836</td>
<td>#8</td>
<td>36</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-6-0832</td>
<td>#8</td>
<td>32</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-6-1032</td>
<td>#10</td>
<td>32</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-6-1024</td>
<td>#10</td>
<td>24</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
<tr>
<td>FS-6-1/4</td>
<td>1/4&quot;</td>
<td>20</td>
<td>.150&quot;</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### MINI NUT

**FS-700 CHANNEL**

**FS-7-0836 | #8   | 36     | .150"     | 1.0        |

### DESIGN BOLT TORQUE

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Foot Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;-20</td>
<td>6</td>
</tr>
<tr>
<td>5/16&quot;-18</td>
<td>11</td>
</tr>
<tr>
<td>3/8&quot;-16</td>
<td>19</td>
</tr>
<tr>
<td>1/2&quot;-13</td>
<td>50</td>
</tr>
<tr>
<td>5/8&quot;-11</td>
<td>100</td>
</tr>
<tr>
<td>3/4&quot;-10</td>
<td>125</td>
</tr>
</tbody>
</table>

### ALLOWABLE PULL-OUT & SLIP LOADS

<table>
<thead>
<tr>
<th>Resistance to Pull-Out</th>
<th>Resistance to Slip</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000 Lbs.</td>
<td>1,500 Lbs.</td>
</tr>
<tr>
<td>1/2&quot; Thick Nuts in 12 Ga. Channel</td>
<td>1/2&quot; Thick Nuts in 14 Ga. Channel</td>
</tr>
<tr>
<td>Resistance to Pull-Out</td>
<td>Resistance to Slip</td>
</tr>
<tr>
<td>1,400 Lbs.</td>
<td>1,000 Lbs.</td>
</tr>
</tbody>
</table>

### ALSO AVAILABLE IN METRIC SIZES

**FS-2626 17#/Cpc**

DOUBLE CONVEYOR ADJUSTING NUT

3/8-16 TAP SIZE
## MISCELLANEOUS HARDWARE

### WHIZLOCK BOLTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Diameter</th>
<th>Length</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7496</td>
<td>1/2&quot;</td>
<td>1-1/2&quot;</td>
<td>12</td>
</tr>
<tr>
<td>FS-7497</td>
<td>1&quot;</td>
<td>2&quot;</td>
<td>14</td>
</tr>
</tbody>
</table>

Available in electro-galvanized (E/G) or yellow-cadmium (YLCD) finish.

### STUD NUTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Size</th>
<th>Thread</th>
<th>&quot;A&quot;</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7430</td>
<td>1/4&quot;</td>
<td>20</td>
<td>7/8&quot;</td>
<td>9</td>
</tr>
<tr>
<td>FS-7431</td>
<td>3/8&quot;</td>
<td>20</td>
<td>1-1/8&quot;</td>
<td>9</td>
</tr>
<tr>
<td>FS-7432</td>
<td>1/2&quot;</td>
<td>20</td>
<td>1-1/4&quot;</td>
<td>13</td>
</tr>
<tr>
<td>FS-7433</td>
<td>3/4&quot;</td>
<td>20</td>
<td>1-1/4&quot;</td>
<td>14</td>
</tr>
<tr>
<td>FS-7434</td>
<td>1&quot;</td>
<td>20</td>
<td>1-1/4&quot;</td>
<td>14</td>
</tr>
<tr>
<td>FS-7435</td>
<td>1-1/4&quot;</td>
<td>20</td>
<td>1-1/2&quot;</td>
<td>16</td>
</tr>
</tbody>
</table>

### ALL-THREAD

LENGTH = 3', 6', 10', OR 12'
FINISH = ELECTRO-GALVANIZED

<table>
<thead>
<tr>
<th>Item</th>
<th>Diameter</th>
<th>Thread</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7124</td>
<td>1/4&quot;</td>
<td>20</td>
<td>12</td>
</tr>
<tr>
<td>FS-7125</td>
<td>3/8&quot;</td>
<td>16</td>
<td>30</td>
</tr>
<tr>
<td>FS-7126</td>
<td>1/2&quot;</td>
<td>16</td>
<td>52</td>
</tr>
<tr>
<td>FS-7127</td>
<td>3/4&quot;</td>
<td>11</td>
<td>85</td>
</tr>
<tr>
<td>FS-7128</td>
<td>1&quot;</td>
<td>10</td>
<td>123</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Hole</th>
<th>Thread</th>
<th>&quot;A&quot;</th>
<th>Wt. Lbs./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7134</td>
<td>1/4&quot;</td>
<td>20</td>
<td>7/8&quot;</td>
<td>2</td>
</tr>
<tr>
<td>FS-7134A</td>
<td>5/16&quot;</td>
<td>18</td>
<td>7/8&quot;</td>
<td>2</td>
</tr>
<tr>
<td>FS-7135</td>
<td>3/8&quot;</td>
<td>16</td>
<td>1-3/4&quot;</td>
<td>11</td>
</tr>
<tr>
<td>FS-7136</td>
<td>1/2&quot;</td>
<td>13</td>
<td>1-3/4&quot;</td>
<td>11</td>
</tr>
<tr>
<td>FS-7137</td>
<td>5/8&quot;</td>
<td>11</td>
<td>2-1/8&quot;</td>
<td>16</td>
</tr>
<tr>
<td>FS-7138</td>
<td>3/4&quot;</td>
<td>10</td>
<td>2-1/4&quot;</td>
<td>28</td>
</tr>
</tbody>
</table>
## FLAT PLATE FITTINGS

### FS-5003 Series
**SQUARE WASHER**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bolt Size</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5003-1/4</td>
<td>1/4&quot;</td>
<td>18#</td>
</tr>
<tr>
<td>FS-5003-3/8</td>
<td>3/8&quot;</td>
<td>18#</td>
</tr>
<tr>
<td>FS-5003-1/2</td>
<td>1/2&quot;</td>
<td>17#</td>
</tr>
<tr>
<td>FS-5003-5/8</td>
<td>5/8&quot;</td>
<td>16#</td>
</tr>
<tr>
<td>FS-5003-3/4</td>
<td>3/4&quot;</td>
<td>15#</td>
</tr>
</tbody>
</table>

### FS-5004 Series
**SQUARE WASHER WITH CHANNEL GUIDE**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bolt Size</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5004-1/4</td>
<td>1/4&quot;</td>
<td>18#</td>
</tr>
<tr>
<td>FS-5004-3/8</td>
<td>3/8&quot;</td>
<td>18#</td>
</tr>
<tr>
<td>FS-5004-1/2</td>
<td>1/2&quot;</td>
<td>17#</td>
</tr>
<tr>
<td>FS-5004-5/8</td>
<td>5/8&quot;</td>
<td>16#</td>
</tr>
<tr>
<td>FS-5004-3/4</td>
<td>3/4&quot;</td>
<td>15#</td>
</tr>
</tbody>
</table>

### Thickness = 1/4"  •  Width = 15/8"  •  Hole Diameter = 5/16"  •  Hole Spacing = 17/8"  •  Edge Distance = 13/16"
FLAT PLATE FITTINGS

- **FS-5022**
  - TEE PLATE
- **FS-5025**
  - FOUR HOLE SPLICE
- **FS-5023**
  - CROSS PLATE
- **FS-5019**
  - THREE HOLE CORNER GUSSET
- **FS-5024**
  - FOUR HOLE CORNER GUSSET
- **FS-5026**
  - FOUR HOLE TEE GUSSET
- **FS-5011**
  - TWO HOLE SWIVEL
- **FS-5027**
  - FIVE HOLE TEE GUSSET
- **FS-5012**
  - THREE HOLE SWIVEL

**Dimensions:**
- Thickness = \(\frac{1}{4}\)"
- Width = \(\frac{5}{8}\)"
- Hole Diameter = \(\frac{9}{16}\)"
- Hole Spacing = \(\frac{7}{8}\)"
- Edge Distance = \(\frac{13}{16}\)"

**Fastener Costs:**
- 70#/Cpc
- 76#/Cpc
- 97#/Cpc
- 71#/Cpc
- 102#/Cpc
- 102#/Cpc
- 50#/Cpc
- 148#/Cpc
- 70#/Cpc
90° ANGLE FITTINGS

FS-5102
TWO HOLE CORNER

FS-5103
TWO HOLE CORNER

FS-5104
TWO HOLE INDENTED

FS-5105
ADJUSTMENT ANGLE

FS-5106
ADJUSTMENT ANGLE

FS-5107 & FS-5108
ADJUSTMENT ANGLE

FS-5112
THREE HOLE CORNER

FS-5113
THREE HOLE CORNER

FS-5115
THREE HOLE CORNER

Parts No.  A    B    WT/C
FS-5107  4-7/8"  1-1/4"  65#  
FS-5108  6-7/8"  3-1/4"  85#  

Thickness = 1/4" • Width = 1 7/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 15/16"
**90° ANGLE FITTINGS**

**FS-5123**
FOUR HOLE CORNER

**FS-5125**
FOUR HOLE CORNER

**FS-5124**
UNIVERSAL CORNER

**FS-5135**
OFFSET TEE ANGLE (LEFT HAND)

**FS-5136**
OFFSET TEE ANGLE (RIGHT HAND)

**FS-5120**
TEE ANGLE

**FS-5110**
THREE HOLE CONNECTOR

**FS-5109**
FOUR HOLE CONNECTOR

**FS-5117**
FIVE HOLE CORNER

Thickness = 1/4"  •  Width = 1 1/8"  •  Hole Diameter = 9/16"  •  Hole Spacing = 1 1/8"  •  Edge Distance = 13/16"
ANGULAR FITTINGS

FS-5142 CLOSED
TWO HOLE CLOSED

Part No. A
FS-5142-45 45°
FS-5142-60 60°

FS-5143 OPEN
TWO HOLE OPEN

Part No. A
FS-5143-30 30°
FS-5143-45 45°
FS-5143-60 60°

Part No. A
FS-5144-45 45°
FS-5144-60 60°

Part No. A
FS-5145-30 30°
FS-5145-45 45°
FS-5145-60 60°

Thickness = 1/4"
Width = 1 3/8"
Hole Diameter = 9/16"
Hole Spacing = 1 7/8"
Edge Distance = 13/16"
FS-5130 SLOTTED CORNER ANGLE
Thickness = 1/4"   •   Width = 15/8"   •   Hole Diameter = 9/16"   •   Hole Spacing = 17/8"   •   Edge Distance = 13/16"

FS-5131 SLOTTED CORNER ANGLE

Tapped 5/16" - 18 Thread

FS-5150 TAPPED CORNER ANGLE

Tapped 5/16" - 18 Thread

FS5151 ANGLE WITH STUD

FS-5820 POST BASE

38#/Cpc

45#/Cpc

96#/Cpc

"Z" FITTINGS

FS-5212 "Z" FOR FS-200

51#/Cpc

Part No. A Channel #/Cpc
FS-5209 4-7/8" FS-151 93
FS-5210 3-1/4" FS-100 70
FS-5211 2-7/16" FS-150 66
FS-5213 1-3/8" FS-300 52
FS-5214 1" FS-400 48
FS-5215 13/16" FS-500 47
FS-5209 thru FS-5215 "Z" FITTINGS

Thickness = 1/4"   •   Width = 15/8"   •   Hole Diameter = 9/16"   •   Hole Spacing = 17/8"   •   Edge Distance = 13/16"

FS5151 ANGLE WITH STUD

FS-5820 POST BASE

38#/Cpc

45#/Cpc

96#/Cpc

"Z" FITTINGS

FS-5212 "Z" FOR FS-200

51#/Cpc

Part No. A Channel #/Cpc
FS-5209 4-7/8" FS-151 93
FS-5210 3-1/4" FS-100 70
FS-5211 2-7/16" FS-150 66
FS-5213 1-3/8" FS-300 52
FS-5214 1" FS-400 48
FS-5215 13/16" FS-500 47
FS-5209 thru FS-5215 "Z" FITTINGS

Thickness = 1/4"   •   Width = 15/8"   •   Hole Diameter = 9/16"   •   Hole Spacing = 17/8"   •   Edge Distance = 13/16"
"U" FITTINGS

**FS-5311-1**  
"U" FITTING FOR FS-500

**FS-5311-2**  
"U" FITTING FOR FS-400

**FS-5311-3**  
"U" FITTING FOR FS-300

**FS-5311-4**  
"U" FITTING FOR FS-150

**FS-5311-5**  
"U" FITTING FOR FS-100/201

**FS-5311-6**  
"U" FITTING FOR FS-151

**FS-5312**  
"U" FITTING FOR FS-200

**FS-5307 thru FS-5310**  
SLOTTED "U" FITTING

**FS-5317**  
SIX HOLE "U" SUPPORT

**Part No.** | **A** | **B** | **#/Cpc**  
--- | --- | --- | ---  
FS-5307 | 7-1/4" | 4-1/8" | 103  
FS-5308 | 8-1/2" | 5-3/8" | 115  
FS-5310 | 10-3/8" | 7-1/4" | 135

Thickness = 3/16"  
Width = 13/16"  
Hole Diameter = 9/16"  
Hole Spacing = 17/8"  
Edge Distance = 13/16"
### CLEVIS FITTINGS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>#Cpc</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5324-4</td>
<td>4&quot;</td>
<td>89</td>
</tr>
<tr>
<td>FS-5324-5</td>
<td>5&quot;</td>
<td>93</td>
</tr>
<tr>
<td>FS-5324-6</td>
<td>6&quot;</td>
<td>106</td>
</tr>
<tr>
<td>FS-5324-7</td>
<td>7&quot;</td>
<td>118</td>
</tr>
<tr>
<td>FS-5324-8</td>
<td>8&quot;</td>
<td>132</td>
</tr>
</tbody>
</table>

- Thickness = $\frac{1}{4}$"  
- Width = $1\frac{5}{8}$"  
- Hole Diameter = $\frac{9}{16}$"  
- Hole Spacing = $1\frac{7}{8}$"  
- Edge Distance = $1\frac{13}{16}$"
BRACES

**FS-5460 Series**
TWO HOLE 45 TUBING KNEE BRACE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>#Cpc</th>
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<tbody>
<tr>
<td>FS-5460-18</td>
<td>18&quot;</td>
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<td>FS-5460-24</td>
<td>24&quot;</td>
<td>150#</td>
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<td>FS-5460-30</td>
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<td>180#</td>
</tr>
<tr>
<td>FS-5460-36</td>
<td>36&quot;</td>
<td>215#</td>
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**FS-5461 Series**
TWO HOLE STRAIGHT TUBING BRACE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>#Cpc</th>
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<tbody>
<tr>
<td>FS-5461-36</td>
<td>36&quot;</td>
<td>205#</td>
</tr>
<tr>
<td>FS-5461-42</td>
<td>42&quot;</td>
<td>235#</td>
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<td>FS-5461-48</td>
<td>48&quot;</td>
<td>270#</td>
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<tr>
<td>FS-5461-54</td>
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<tr>
<td>FS-5461-60</td>
<td>60&quot;</td>
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**FS-5472 Series**
CORNER BRACE

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<tr>
<th>Part No.</th>
<th>A</th>
<th>#Cpc</th>
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<tbody>
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<td>FS-5472-12</td>
<td>12&quot;</td>
<td>170#</td>
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<tr>
<td>FS-5472-16</td>
<td>16&quot;</td>
<td>230#</td>
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<tr>
<td>FS-5472-18</td>
<td>18&quot;</td>
<td>238#</td>
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</tbody>
</table>

**FS-5481**
SINGLE ADJUSTABLE CHANNEL BRACE

- Hardware Required
- Sold Separately

- (1) FS-7415D 1/2 x 2-3/4 HHCS
- (1) FS-7463 1/2" HN

**FS-5482**
DOUBLE ADJUSTABLE CHANNEL BRACE

- Hardware Required
- Sold Separately

- (2) FS-7415D 1/2 x 2-3/4 HHCS
- (2) FS-7463 1/2" HN

Tube Braces = 1" O.D. 14 Gauge • FS-5472, 5481 & 5482 Thickness = 1/4"
WING FITTINGS

110#/Cpc

FS-5518
SIX-HOLE 2-WAY CORNER CONNECTION

150#/Cpc

FS-5519
EIGHT-HOLE 2-WAY WING CONNECTION

177#/Cpc

FS-5520
NINE-HOLE 3-WAY CORNER CONNECTION

152#/Cpc

FS-5523
EIGHT-HOLE 2-WAY CORNER CONNECTION

185#/Cpc

FS-5524
TEN-HOLE 2-WAY WING CONNECTION

234#/Cpc

FS-5525
TWELVE-HOLE 3-WAY CORNER CONNECTION

FS-5526 RT Hand (Shown)
FS-5527 LT Hand

176#/Cpc

270#/Cpc

215#/Cpc

FS-5526 & FS-5527
SIX-HOLE CORNER GUSSET CONNECTION

FS-5528
TEN-HOLE 2-WAY WING GUSSET CONNECTION

FS-5529
EIGHT-HOLE 2-WAY CORNER GUSSET CONNECTION

Thickness = 1/4" • Width = 1 1/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"
FS-5813 POST BASE

FS-5814 POST BASE

FS-5815 POST BASE

FS-5813SQ POST BASE

FS-5814SQ POST BASE

FS-5815SQ POST BASE

FS-5810 POST BASE

FS-5816 POST BASE

FS-5816SQ POST BASE

Thickness = 1/4” • Typical Hole Diameter = 9/16” unless noted
<table>
<thead>
<tr>
<th>Model</th>
<th>Left Hand</th>
<th>Right Hand</th>
<th>A</th>
<th>B</th>
<th>#/Cpc</th>
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<tbody>
<tr>
<td>FS-5600-6R</td>
<td>FS-5600-6L</td>
<td>FS-5600-6R</td>
<td>6&quot;</td>
<td>1-15/16&quot;</td>
<td>57#</td>
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<tr>
<td>FS-5600-8R</td>
<td>FS-5600-8L</td>
<td>FS-5600-8R</td>
<td>8&quot;</td>
<td>2-7/16&quot;</td>
<td>82#</td>
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<tr>
<td>FS-5600-10R</td>
<td>FS-5600-10L</td>
<td>FS-5600-10R</td>
<td>10&quot;</td>
<td>2-15/16&quot;</td>
<td>105#</td>
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<tr>
<td>FS-5600-12R</td>
<td>FS-5600-12L</td>
<td>FS-5600-12R</td>
<td>12&quot;</td>
<td>3-7/16&quot;</td>
<td>138#</td>
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<tr>
<td>FS-5600-14R</td>
<td>FS-5600-14L</td>
<td>FS-5600-14R</td>
<td>14&quot;</td>
<td>3-15/16&quot;</td>
<td>175#</td>
</tr>
<tr>
<td>FS-5600-16R</td>
<td>FS-5600-16L</td>
<td>FS-5600-16R</td>
<td>16&quot;</td>
<td>4-7/16&quot;</td>
<td>180#</td>
</tr>
<tr>
<td>FS-5600-18R</td>
<td>FS-5600-18L</td>
<td>FS-5600-18R</td>
<td>18&quot;</td>
<td>4-15/16&quot;</td>
<td>225#</td>
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<tr>
<td>FS-5600-20R</td>
<td>FS-5600-20L</td>
<td>FS-5600-20R</td>
<td>20&quot;</td>
<td>5-7/16&quot;</td>
<td>260#</td>
</tr>
<tr>
<td>FS-5600-22R</td>
<td>FS-5600-22L</td>
<td>FS-5600-22R</td>
<td>22&quot;</td>
<td>5-15/16&quot;</td>
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<tr>
<td>FS-5600-24R</td>
<td>FS-5600-24L</td>
<td>FS-5600-24R</td>
<td>24&quot;</td>
<td>6-7/16&quot;</td>
<td>385#</td>
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<tr>
<td>FS-5600-26R</td>
<td>FS-5600-26L</td>
<td>FS-5600-26R</td>
<td>26&quot;</td>
<td>6-15/16&quot;</td>
<td>435#</td>
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<tr>
<td>FS-5600-28R</td>
<td>FS-5600-28L</td>
<td>FS-5600-28R</td>
<td>28&quot;</td>
<td>7-7/16&quot;</td>
<td>488#</td>
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<tr>
<td>FS-5600-30R</td>
<td>FS-5600-30L</td>
<td>FS-5600-30R</td>
<td>30&quot;</td>
<td>7-15/16&quot;</td>
<td>530#</td>
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**FS-5600 Series Shelf Brackets**

**SHELF BRACKETS**

**CHANNEL BRACKETS**

- **FS-5651** 230#/Cpc SHELF BRACKET FOR FS-200
- **FS-5650** 275#/Cpc SHELF BRACKET FOR FS-201

*FS-5600 Thickness = 12 Ga. / FS-5650 / 51 Thickness = 1/4"*
<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>#/Cpc</th>
<th>Uniform Design Load</th>
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</thead>
<tbody>
<tr>
<td>FS-5631-6</td>
<td>6&quot;</td>
<td>160#</td>
<td>1,200#</td>
</tr>
<tr>
<td>FS-5631-12</td>
<td>12&quot;</td>
<td>260#</td>
<td>600#</td>
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<td>FS-5631-18</td>
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<td>350#</td>
<td>400#</td>
</tr>
<tr>
<td>FS-5631-24</td>
<td>24&quot;</td>
<td>440#</td>
<td>300#</td>
</tr>
<tr>
<td>FS-5633-6</td>
<td>6&quot;</td>
<td>190#</td>
<td>1,600#</td>
</tr>
<tr>
<td>FS-5633-12</td>
<td>12&quot;</td>
<td>290#</td>
<td>800#</td>
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<tr>
<td>FS-5635-18</td>
<td>18&quot;</td>
<td>435#</td>
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<td>FS-5635-24</td>
<td>24&quot;</td>
<td>525#</td>
<td>400#</td>
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FS-5632 Series

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>#/Cpc</th>
<th>Uniform Design Load</th>
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<tbody>
<tr>
<td>FS-5632-6</td>
<td>6&quot;</td>
<td>160#</td>
<td>1,200#</td>
</tr>
<tr>
<td>FS-5632-12</td>
<td>12&quot;</td>
<td>260#</td>
<td>600#</td>
</tr>
<tr>
<td>FS-5632-18</td>
<td>18&quot;</td>
<td>350#</td>
<td>400#</td>
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<td>FS-5632-24</td>
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<td>440#</td>
<td>300#</td>
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</table>

FS-5634 Series

<table>
<thead>
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<th>Part No.</th>
<th>A</th>
<th>#/Cpc</th>
<th>Uniform Design Load</th>
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</thead>
<tbody>
<tr>
<td>FS-5634-6</td>
<td>6&quot;</td>
<td>190#</td>
<td>1,600#</td>
</tr>
<tr>
<td>FS-5634-12</td>
<td>12&quot;</td>
<td>290#</td>
<td>800#</td>
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FS-5342 Back Plate

FS-5343 Back Plate

1/4" Thick Back Plate

FS-5636 Series

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>#/Cpc</th>
<th>Uniform Design Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5636-6</td>
<td>6&quot;</td>
<td>150#</td>
<td>1,500#</td>
</tr>
<tr>
<td>FS-5636-12</td>
<td>12&quot;</td>
<td>245#</td>
<td>750#</td>
</tr>
<tr>
<td>FS-5636-18</td>
<td>18&quot;</td>
<td>340#</td>
<td>500#</td>
</tr>
<tr>
<td>FS-5636-24</td>
<td>24&quot;</td>
<td>435#</td>
<td>250#</td>
</tr>
</tbody>
</table>
**FS-5637 Series**

**CHANNEL BRACKETS**

Part No. | A     | B     | #/Cpc | Uniform Design Load
---|---|---|---|---
FS-5637-12 | 12" | 8-3/4" | 360# | 1,200#
FS-5637-18 | 18" | 8-3/4" | 475# | 1,000#
FS-5637-24 | 24" | 8-3/4" | 710# | 800#
FS-5637-30 | 30" | 11-1/4" | 925# | 600#
FS-5637-36 | 36" | 11-1/4" | 1,090# | 500#

**FS-5638 Series**

**CHANNEL BRACKETS**

Part No. | A     | B     | #/Cpc | Uniform Design Load
---|---|---|---|---
FS-5638-12 | 12" | 8-1/2" | 4" | 175# | 800#
FS-5638-10 | 10-1/2" | 4" | 205# | 800#
FS-5638-12 | 12" | 6" | 245# | 900#
FS-5638-14 | 14-1/2" | 6" | 300# | 900#
FS-5638-16 | 16-1/2" | 6" | 300# | 1,200#
FS-5638-18 | 18" | 6" | 395# | 1,000#
FS-5638-24 | 24" | 6" | 435# | 600#

**Design load when used in 12 ga channel**

Safety Factor = 2-1/2" • Black Plate & Web Thickness = 1/4" • All Channel Shown = 12 Ga.
• Attach with FS-1/2 Strut Nut and 1/2" HHCS •
FS-5709
“U” BOLT BEAM CLAMP FOR FS-200

FS-5708
“U” BOLT BEAM CLAMP FOR FS-201

FS-5709-J6  130#/Cpc
FS-5709-J12  143#/Cpc
“U” BOLT BEAM CLAMP WITH J-HOOK

FS-5710
WEDGE C-CLAMP

FS-5711
WEDGE C-CLAMP

Part No. A B C #/Cpc Load
FS-5710-3/8 3/8” 1-1/2" 15/16" 34# 400#
FS-5710-1/2 1/2" 1-1/2" 15/16" 34# 500#

Part No. A B C #/Cpc Load
FS-5711-3/8 3/8” 1-7/8" 15/16" 37# 400#
FS-5711-1/2 1/2" 1-7/8" 15/16" 37# 500#

• Standard Fitting Finish = Electro-Galvanized (Plated), Unless Otherwise Noted •
BEAM CLAMPS

FS-5712
FLANGE BEAM CLAMP
“Z” WITH SET SCREW

FS-5713
CHANNEL-TO-FLANGE
ONE-HOLE BEAM CLAMP

FS-5714
CHANNEL-TO-FLANGE
TWO-HOLE BEAM CLAMP

FS-5715
CHANNEL-TO-FLANGE
LIGHT-DUTY BEAM CLAMPS

FS-5716
CHANNEL-TO-FLANGE
HEAVY-DUTY BEAM CLAMPS

FS-5717
CHANNEL-TO-FLANGE
DEEP THROAT BEAM CLAMP

FS-5718 Series
ROD SUPPORT

<table>
<thead>
<tr>
<th>Part No.</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</th>
<th>#/Cpc</th>
<th>Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5718-1/4</td>
<td>1&quot;</td>
<td>1-1/4&quot;</td>
<td>1/4&quot;</td>
<td>22</td>
<td>150 lb</td>
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<tr>
<td>FS-5718-3/8</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>3/8&quot;</td>
<td>95</td>
<td>350 lb</td>
</tr>
<tr>
<td>FS-5718-1/2</td>
<td>2-3/4&quot;</td>
<td>2-1/2&quot;</td>
<td>1/2&quot;</td>
<td>165</td>
<td>600 lb</td>
</tr>
</tbody>
</table>

Design Load = 600 lb/pr.

FS-5718 Series
ROD SUPPORT

Design Load = 1000 lb/pr.

Design Load = 450 lb/pr.

Design Load = 900 lb/pr.

Design Load = 900 lb/pr.

Design Load = 600 lb/pr.
### BEAM CLAMPS

#### Part No. A B C #/Cpc Allowable Load

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>#/Cpc</th>
<th>Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5721</td>
<td>1/4&quot;-20</td>
<td>1/8&quot;</td>
<td>3/8&quot; x 1-1/2&quot;</td>
<td>65</td>
<td>650#</td>
</tr>
<tr>
<td>FS-5722</td>
<td>5/16&quot;-18</td>
<td>1/8&quot;</td>
<td>3/8&quot; x 1-1/2&quot;</td>
<td>65</td>
<td>650#</td>
</tr>
<tr>
<td>FS-5723</td>
<td>3/8&quot;-16</td>
<td>1/8&quot;</td>
<td>3/8&quot; x 1-1/2&quot;</td>
<td>65</td>
<td>650#</td>
</tr>
<tr>
<td>FS-5724</td>
<td>3/8&quot;-16</td>
<td>3/16&quot;</td>
<td>1/2&quot; x 1-1/2&quot;</td>
<td>100</td>
<td>1100#</td>
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<tr>
<td>FS-5725</td>
<td>1/2&quot;-13</td>
<td>3/16&quot;</td>
<td>1/2&quot; x 1-1/2&quot;</td>
<td>100</td>
<td>1100#</td>
</tr>
<tr>
<td>FS-5726</td>
<td>1/2&quot;-13</td>
<td>1/4&quot;</td>
<td>1/2&quot; x 1-1/2&quot;</td>
<td>130</td>
<td>1600#</td>
</tr>
<tr>
<td>FS-5727</td>
<td>5/8&quot;-11</td>
<td>1/4&quot;</td>
<td>1/2&quot; x 1-1/2&quot;</td>
<td>130</td>
<td>1600#</td>
</tr>
<tr>
<td>FS-5728</td>
<td>5/8&quot;-11</td>
<td>5/16&quot;</td>
<td>5/8&quot; x 1-1/2&quot;</td>
<td>160</td>
<td>2400#</td>
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<tr>
<td>FS-5729</td>
<td>3/4&quot;-10</td>
<td>5/16&quot;</td>
<td>5/8&quot; x 1-1/2&quot;</td>
<td>160</td>
<td>2400#</td>
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</table>

#### Part No. A B C #/Cpc Allowable Load

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>#/Cpc</th>
<th>Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5731</td>
<td>1/4&quot;-20</td>
<td>1/8&quot;</td>
<td>3/8&quot; x 2&quot;</td>
<td>105</td>
<td>800#</td>
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<tr>
<td>FS-5734</td>
<td>3/8&quot;-16</td>
<td>3/16&quot;</td>
<td>1/2&quot; x 2&quot;</td>
<td>160</td>
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<td>FS-5736</td>
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<td>1/4&quot;</td>
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<td>200</td>
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#### Loading

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<tr>
<th>Part No.</th>
<th>Tapped Hole Size</th>
<th>Throat Opening</th>
<th>#/Cpc</th>
<th>Allowable Load</th>
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</thead>
<tbody>
<tr>
<td>FS-5741</td>
<td>3/8&quot;-16</td>
<td>3/4&quot;</td>
<td>50#</td>
<td>400#</td>
</tr>
<tr>
<td>FS-5742</td>
<td>1/2&quot;-13</td>
<td>3/4&quot;</td>
<td>55#</td>
<td>500#</td>
</tr>
</tbody>
</table>

*Also Available in Stainless Steel*
BEAM CLAMPS

FS-5750
ALL-PURPOSE BEAM CLAMP

FS-5751
SWIVEL HANGER

FS-5755 & FS-5756
"J" BOLT

FS-5760
COLUMN ATTACHMENT FLANGE-TO-FLANGE CLAMP

FS-200 CHANNEL ORDERED SEPARATELY.
CHANNEL SHOULD BE CUT 1-1/2" SHORTER THAN INSIDE DIMENSION BETWEEN COLUMN FLANGES. ALLOWABLE LOAD 800#.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Flange Width Min.</th>
<th>Flange Width Max.</th>
<th>J-Bolt Length</th>
<th>Wt./100 pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-5755</td>
<td>3&quot;</td>
<td>7&quot;</td>
<td>8-5/8&quot;</td>
<td>24</td>
</tr>
<tr>
<td>FS-5756</td>
<td>7&quot;</td>
<td>11&quot;</td>
<td>12-5/8&quot;</td>
<td>33</td>
</tr>
</tbody>
</table>

Use with FS-5750 Beam Clamp

(800) FX-STRUT
END CAPS

For FS-200 Channel

FS-5940-1/2" END CAP WITH 1/2" KNOCKOUT 26#/Cpc
FS-5940-3/4" END CAP WITH 3/4" KNOCKOUT 26#/Cpc

FS-5940 Series

FS-5910 WIREWAY END CAP FOR FS-200 CHANNEL 13#/Cpc
FS-5915 SINGLE PIECE END CAP FOR FS-150 CHANNEL 6#/Cpc
FS-5920 SINGLE PIECE END CAP FOR FS-200 CHANNEL 5#/Cpc
FS-5921 SINGLE PIECE END CAP FOR FS-210 CHANNEL 5#/Cpc
FS-5933 SINGLE PIECE END CAP FOR FS-300 CHANNEL 4#/Cpc
FS-5934 SINGLE PIECE END CAP FOR FS-400 CHANNEL 4#/Cpc
FS-5935 SINGLE PIECE END CAP FOR FS-500 AND FS-450 CHANNEL 4#/Cpc

FS-5910 thru FS-5935

FS-5952 ANCHOR END CAP FOR FS-200 CHANNEL 21#/Cpc
FS-5953 ANCHOR END CAP FOR FS-300 CHANNEL 21#/Cpc
FS-5954 ANCHOR END CAP FOR FS-400 CHANNEL 21#/Cpc

PLASTIC END CAPS FOR SECTIONS

Part No.          Color | Channel Size | #/Cpc
FS-5960-1W    White | FS-100       | 5
FS-5960-15B   Black | FS-150       | 5
FS-5960-2BL   Blue  | FS-200       | 4
FS-5960-2R    Red   | FS-200       | 4
FS-5960-2W    White | FS-200       | 4
FS-5960-2Y    Yellow| FS-200       | 4
FS-5960-2BR   Brown | FS-200       | 4
FS-5960-2B    Black | FS-200       | 4
FS-5960-5R    Red   | FS-500       | 4
FS-5960-5W    White | FS-500       | 4
FS-5960-7B    Black | FS-700       | 2

Also Available in Other Standard Strut Sizes
### FS-1100 Series
**RIGID CONDUIT CLAMPS (PIPE)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal Size</th>
<th>#/Cpc</th>
<th>Gauge</th>
<th>Allowable Load</th>
<th>Slotted Indented Hex Cap Screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-1100-3/8</td>
<td>3/8&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1100-1/2</td>
<td>1/2&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1100-3/4</td>
<td>3/4&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1100-1</td>
<td>1&quot;</td>
<td>600#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1100-1-1/4</td>
<td>1-1/4&quot;</td>
<td>600#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1100-1-1/2</td>
<td>1-1/2&quot;</td>
<td>800#</td>
<td>5/16&quot; x 1&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1100-2</td>
<td>2&quot;</td>
<td>800#</td>
<td>5/16&quot; x 1&quot;</td>
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</table>

### FS-1300 Series
**UNIVERSAL CLAMPS (E.M.T. OR RIGID)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal Size</th>
<th>#/Cpc</th>
<th>Gauge</th>
<th>Allowable Load</th>
<th>Slotted Indented Hex Cap Screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-1300-3/8</td>
<td>3/8&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1300-1/2</td>
<td>1/2&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1300-3/4</td>
<td>3/4&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1300-1</td>
<td>1&quot;</td>
<td>600#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1300-1-1/4</td>
<td>1-1/4&quot;</td>
<td>600#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1300-1-1/2</td>
<td>1-1/2&quot;</td>
<td>800#</td>
<td>5/16&quot; x 1&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1300-2</td>
<td>2&quot;</td>
<td>800#</td>
<td>5/16&quot; x 1&quot;</td>
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</tr>
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</table>

### FS-1000 Series
**THINWALL CONDUIT CLAMPS (E.M.T.)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal Size</th>
<th>#/Cpc</th>
<th>Gauge</th>
<th>Allowable Load</th>
<th>Slotted Indented Hex Cap Screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-1000-3/8</td>
<td>3/8&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1000-1/2</td>
<td>1/2&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1000-3/4</td>
<td>3/4&quot;</td>
<td>400#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1000-1</td>
<td>1&quot;</td>
<td>600#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1000-1-1/4</td>
<td>1-1/4&quot;</td>
<td>600#</td>
<td>1/4&quot; x 3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1000-1-1/2</td>
<td>1-1/2&quot;</td>
<td>800#</td>
<td>5/16&quot; x 1&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FS-1000-2</td>
<td>2&quot;</td>
<td>800#</td>
<td>5/16&quot; x 1&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FOR ASSEMBLED, USE "A" SUFFIX**
Example: FS-1300A-2
### Standard Finish = Electro-Galvanized E/G

<table>
<thead>
<tr>
<th>Special Material</th>
<th>Add Suffix to Part Number</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Plated Clamp and Hardware</td>
<td>C/P</td>
<td>FS-1200-2½ C/P</td>
</tr>
<tr>
<td>Aluminum</td>
<td>AL</td>
<td>FS-1200-2 AL</td>
</tr>
<tr>
<td>Stainless Steel Type 304</td>
<td>ST4</td>
<td>FS-1200-2 ST4</td>
</tr>
<tr>
<td>Stainless Steel Type 316</td>
<td>ST6</td>
<td>FS-1200-2 ST6</td>
</tr>
</tbody>
</table>

**For Assembled Clamps** - A - FS-1200A-2

Special Materials Available for FS-1100 and FS-1200 Series
(Any pipe clamp may be assembled)

**LARGER SIZES AVAILABLE UPON REQUEST**
**HANGERS & ELECTRICAL ACCESSORIES**

<table>
<thead>
<tr>
<th>Design Load</th>
<th>Cat. No.</th>
<th>Use With</th>
<th>Hole</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>25#/Cpc</td>
<td>FS-6420</td>
<td>Channel Hanger</td>
<td>9/16&quot; Dia. for 1/2&quot; ATR</td>
<td>28</td>
</tr>
<tr>
<td>4#/Cpc</td>
<td>FS-6460</td>
<td>Fixture Stud Nut</td>
<td>1&quot; Dia. for 1/2&quot; ATR</td>
<td>28</td>
</tr>
<tr>
<td>2#/Cpc</td>
<td>FS-6461</td>
<td>Fixture Nut</td>
<td>TAPPED FOR 1/4&quot; -20 SCREW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FS-6422</td>
<td>Fixture Hangers</td>
<td>9/16&quot; Dia. for 1/2&quot; ATR</td>
<td>27#/Cpc</td>
</tr>
<tr>
<td></td>
<td>FS-6442</td>
<td>Conduit Connector</td>
<td>1/2&quot; Conduit</td>
<td>25#/Cpc</td>
</tr>
<tr>
<td></td>
<td>FS-6443</td>
<td>3/4&quot; Conduit</td>
<td>1-3/32&quot;</td>
<td>45#/Cpc</td>
</tr>
</tbody>
</table>

*For deep channel fixture hanger, use Part No. FS-6426

Assembly includes Strut Nuts and Flat Head Machine Screws

FS-6442

(800) FX-STRUT
HANGERS & ELECTRICAL ACCESSORIES

**Includes**
- FS-6432/39
  - INCLUDES
    - FS-6432-SPLICE CLEVIS
    - FS-6439 STUD PLATE

**Includes**
- FS-6432/40
  - INCLUDES
    - FS-6432-SPLICE CLEVIS
    - 1/4" -20FHMS
    - FS-6440 TAPPED PLATE

**Includes**
- FS-6441
  - IN-LINE STRUT JOINER

**Includes**
- FS-6445
  - OUTLET BOX
    - Includes:
      - (2) 1/4" Strut Nuts
      - (2) 1/4" -20 FHMS

**Includes**
- FS-6500
  - CLOSURE STRIP (ELECTRICAL COVER)
  - STEEL OR ALUMINUM

**Includes**
- FS-6518
  - CLOSURE STRIP
  - PLASTIC

**Includes**
- FS-6432/39
  - INCLUDES
    - FS-6432-SPLICE CLEVIS
    - FS-6439 STUD PLATE

**Includes**
- FS-6432/40
  - INCLUDES
    - FS-6432-SPLICE CLEVIS
    - 1/4" -20FHMS
    - FS-6440 TAPPED PLATE

**Includes**
- FS-6441
  - IN-LINE STRUT JOINER

**Includes**
- FS-6445
  - OUTLET BOX
    - Includes:
      - (2) 1/4" Strut Nuts
      - (2) 1/4" -20 FHMS

**Includes**
- FS-6500
  - CLOSURE STRIP (ELECTRICAL COVER)
  - STEEL OR ALUMINUM

**Includes**
- FS-6518
  - CLOSURE STRIP
  - PLASTIC
TROLLEYS

FS-6600
FOUR WHEEL TROLLEY

Design Load = 600#

Fits FS-200 Channel

9/16" dia.

FS-6603
TROLLEY BEAM JOINT SUPPORT

9/16" Dia. Hole for 1/2" Rod Support

7/16" Dia. Holes for
FS-7408B 3/8 x 2-1/2 HHCS and
FS-7462 3/8" H.N.

Hardware Sold Separately

FS-6602
TWO WHEEL TROLLEY

Design Load = 300#

Fits FS-200 Channel

9/16" dia.

FS-6604
TROLLEY BEAM INTERMEDIATE SUPPORT

9/16" Dia. Hole for 1/2" Rod Support

7/16" Dia. Holes for
FS-7408B 3/8 x 2-1/2 HHCS and
FS-7462 3/8" H.N.

Hardware Sold Separately

Design Load = 59#/Cpc

(800) FX-STRUT
**CONCRETE INSERTS**

**50#/Cpc**
Allowable Load = 800#
when used with FS-7025-1/2" or Larger

12 Gauge

FS-7000
SPOT CONCRETE INSERT

---

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Tapped Size</th>
<th>#/Cpc</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7025-1/4&quot;</td>
<td>1/4&quot;-20</td>
<td>11#</td>
</tr>
<tr>
<td>FS-7025-3/8&quot;</td>
<td>3/8&quot;-16</td>
<td>15#</td>
</tr>
<tr>
<td>FS-7025-1/2&quot;</td>
<td>1/2&quot;-13</td>
<td>19#</td>
</tr>
<tr>
<td>FS-7025-5/8&quot;</td>
<td>5/8&quot;-11</td>
<td>18#</td>
</tr>
<tr>
<td>FS-7025-3/4&quot;</td>
<td>3/4&quot;-10</td>
<td>17#</td>
</tr>
<tr>
<td>FS-7025-7/8&quot;</td>
<td>7/8&quot;-9</td>
<td>15#</td>
</tr>
</tbody>
</table>

FS-7025 Series
INSERT SQUARE NUT

---

**FS-7370 Series**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Allowable Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7350</td>
<td>800#</td>
</tr>
<tr>
<td>FS-7351</td>
<td>1000#</td>
</tr>
<tr>
<td>FS-7352</td>
<td>1200#</td>
</tr>
<tr>
<td>FS-7353</td>
<td>2000#</td>
</tr>
<tr>
<td>FS-7354/70</td>
<td>2000#/FT</td>
</tr>
</tbody>
</table>

Furnished with either FS-5933 or FS-5953 End Caps and Foam

Max. allowable Pour Pressure = 1,100PSF
Contact factory for higher pour pressure applications.

FS-7370 Series

---

**FS-7350 Series**

Insert End Cap Weight

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Length</th>
<th>End Cap Furnished</th>
<th>Weight Cpcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7350</td>
<td>4&quot;</td>
<td>FS-5953</td>
<td>100#</td>
</tr>
<tr>
<td>FS-7351</td>
<td>6&quot;</td>
<td>FS-5953</td>
<td>130#</td>
</tr>
<tr>
<td>FS-7352</td>
<td>8&quot;</td>
<td>FS-5953</td>
<td>160#</td>
</tr>
<tr>
<td>FS-7353</td>
<td>12&quot;</td>
<td>FS-5953</td>
<td>220#</td>
</tr>
<tr>
<td>FS-7354</td>
<td>16&quot;</td>
<td>FS-5953</td>
<td>250#</td>
</tr>
<tr>
<td>FS-7355</td>
<td>20&quot;</td>
<td>FS-5953</td>
<td>310#</td>
</tr>
<tr>
<td>FS-7356</td>
<td>24&quot;</td>
<td>FS-5953</td>
<td>370#</td>
</tr>
<tr>
<td>FS-7357</td>
<td>32&quot;</td>
<td>FS-5953</td>
<td>490#</td>
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<td>FS-7357A</td>
<td>36&quot;</td>
<td>FS-5953</td>
<td>550#</td>
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<tr>
<td>FS-7358</td>
<td>40&quot;</td>
<td>FS-5953</td>
<td>610#</td>
</tr>
<tr>
<td>FS-7359</td>
<td>4'</td>
<td>FS-5933</td>
<td>730#</td>
</tr>
<tr>
<td>FS-7360</td>
<td>5'</td>
<td>FS-5933</td>
<td>910#</td>
</tr>
<tr>
<td>FS-7361</td>
<td>6'</td>
<td>FS-5933</td>
<td>1090#</td>
</tr>
<tr>
<td>FS-7362</td>
<td>7'</td>
<td>FS-5933</td>
<td>1270#</td>
</tr>
<tr>
<td>FS-7363</td>
<td>8'</td>
<td>FS-5933</td>
<td>1450#</td>
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<tr>
<td>FS-7364</td>
<td>9'</td>
<td>FS-5933</td>
<td>1630#</td>
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<tr>
<td>FS-7365</td>
<td>10'</td>
<td>FS-5933</td>
<td>1810#</td>
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<tr>
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<td>12'</td>
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<tr>
<td>FS-7367</td>
<td>14'</td>
<td>FS-5933</td>
<td>2530#</td>
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<td>FS-7368</td>
<td>16'</td>
<td>FS-5933</td>
<td>2890#</td>
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<td>FS-7369</td>
<td>18'</td>
<td>FS-5933</td>
<td>3250#</td>
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<td>FS-7370</td>
<td>20'</td>
<td>FS-5933</td>
<td>3610#</td>
</tr>
</tbody>
</table>
FS-7730 Series
ONE-HOLE TUBING CLAMPS
Use with any 1-5/8" wide channel

Requires FS-7401 (hex head cap screw) and FS-1/4RS (channel nut); order separately.

Standard Finish – electro-galvanized (Available in Stainless Steel)

FS-7870 Series
STANDARD PIPE STRAPS

Requires hex head cap screw and channel nuts; order separately.

Standard Finish – electro-galvanized
Available in Stainless Steel

FS-7880 Series
PARALLEL PIPE CLAMPS

Standard Finish – electro-galvanized

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Pipe Size</th>
<th>&quot;L&quot; Length</th>
<th>&quot;T&quot; Material Thickness</th>
<th>&quot;H&quot; Hole Size</th>
<th>#/Cpc</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7880-3/8</td>
<td>3/8&quot;</td>
<td>16 Ga.</td>
<td>300#</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>FS-7880-1/2</td>
<td>1/2&quot;</td>
<td>16 Ga.</td>
<td>300#</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>FS-7880-3/4</td>
<td>3/4&quot;</td>
<td>14 Ga.</td>
<td>300#</td>
<td>31</td>
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</tr>
<tr>
<td>FS-7880-1</td>
<td>1&quot;</td>
<td>14 Ga.</td>
<td>400#</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>FS-7880-1-1/4</td>
<td>1-1/4&quot;</td>
<td>14 Ga.</td>
<td>400#</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>FS-7880-1-1/2</td>
<td>1-1/2&quot;</td>
<td>12 Ga.</td>
<td>500#</td>
<td>49</td>
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<tr>
<td>FS-7880-2</td>
<td>2&quot;</td>
<td>12 Ga.</td>
<td>500#</td>
<td>52</td>
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<tr>
<td>FS-7880-2-1/2</td>
<td>2-1/2&quot;</td>
<td>12 Ga.</td>
<td>500#</td>
<td>59</td>
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<tr>
<td>FS-7880-3</td>
<td>3&quot;</td>
<td>12 Ga.</td>
<td>500#</td>
<td>65</td>
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<tr>
<td>FS-7880-3-1/2</td>
<td>3-1/2&quot;</td>
<td>11 Ga.</td>
<td>500#</td>
<td>81</td>
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<tr>
<td>FS-7880-4</td>
<td>4&quot;</td>
<td>11 Ga.</td>
<td>500#</td>
<td>88</td>
<td></td>
</tr>
</tbody>
</table>
CUSHION CLAMP ASSEMBLIES

HYDRA-ZORB CUSHION CLAMP ASSEMBLIES
FOR PIPES, TUBES, AND HOSES.

- Reduce noise, shock and vibration caused by fluid surges in tubes, pipes, and hoses used in the construction of stationery and mobile equipment.
- Eliminate metal to metal contact between fluid conductors and clamps.
- Resist most fuels, oils, gases, greases, solvents, mineral acids, etc.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent conductors.
- Permit various fluid conductors to be mixed to suit installation.
- Allow center distances between fluid conductors to be variable and not critical for compact installation.
- Are usable to temperatures down to -65°F and up to 275°F.
- Provide fast and simple installation. Only one man and one tool needed for assembly after base channel is in place.

Standard Finish – electro-galvanized with yellow chromate rinse
Also available in stainless steel, 304 or 316, aluminum and hot dip galvanized.

Contact Factory For Additional Sizes

<table>
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<tr>
<td>FS-1400P-025</td>
<td>1/4&quot;</td>
<td>FS-1400P-200</td>
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<td>FS-1400P-037</td>
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<td>FS-1400P-250</td>
<td>2-1/2&quot;</td>
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<td>FS-1400P-050</td>
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<td>FS-1400P-300</td>
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<td>3-1/2&quot;</td>
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<td>FS-1400P-150</td>
<td>1-1/2&quot;</td>
<td>FS-1400P-600</td>
<td>6&quot;</td>
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FLEX-WRAP - FS-3792
25 FT / Box

Hydra-Zorb is a Registered Trademark of Hydra-Zorb Corporation
FLEXANGLE® KLO-SHURE®

**FLEXANGLE GUSSET PLATES**

Heavy, flat plates used for extra bracing, extra rigidity in severe service. Can be added to existing structures without disassembling corner joints. Shipping weight 5 lbs. per package of ten.

The Klo-Shure® Insulation Coupling reduces the time required to insulate copper tubing used for refrigerant lines, hot and cold water plumbing, and chilled water systems.

They are easy to install. The Klo-Shure® Insulation Coupling can be slit open to facilitate installation, and later secured with the provided metal clip. They also can be used unopened by sliding the coupling over tubing as it is installed.

No special tools, glue or tape required. Klo-Shure® Couplings are recommended for pipe fitters to support and level tubing during installation. This will allow insulation to be secured in seconds.

**EXTRA NUTS AND BOLTS**


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HEAVY DUTY CONCRETE INSERT

FS-9319
CONCRETE INSERT
WITH STUDS
AND INSTALLED NUTS

For use in heavy loading conditions; i.e. glass and stone retention; anchoring curtain wall mullions and structural grids.

Inserts come complete with anchor end caps, plastic closure and two (2) 1/2 - 13 channel nuts factory installed.

Channel nuts should be placed a minimum of 3" on center.

**Design Load = 7,500#**
**Safety Factor = 2-1/2**
When properly imbedded in concrete with a minimum compressive strength of 4,000 psi and a minimum edge distance of 5" from center line of insert to edge of concrete. Loading based on using a (2) nut & bolt connection with "T" clip attachment.

**Design Load = 6,000#**
**Safety Factor = 3**
When properly imbedded in concrete with a minimum compressive strength of 3,000 psi and a minimum edge distance of 2-3/4" from center line of insert to edge of concrete. Loading based on using a (2) nut & bolt connection with "T" clip attachment.

Contact factory regarding special loading conditions and special fabrications.

STANDARD FINISH = ELECTRO-GALVANIZED (GD)

or HOT DIP GALVANIZED (HD)

(800) FX-STRUT
CONTINUOUS HEAVY DUTY CONCRETE INSERTS

Finish: Hot Dip Galvanized
Provided with Foam Filler or Plastic Closure
Available in 1 foot increments

Part No. "L"
- FS-9401 1'
- FS-9402 2'
- FS-9403 3'
- FS-9404 4'
- FS-9405 5'
- FS-9406 6'
- FS-9407 7'
- FS-9408 8'
- FS-9409 9'
- FS-9410 10'

Design Load = 7,500 lb./Ft.
Safety Factor = 2.5
with full embedment multiple 1/2" connections

SPECIAL INSERTS AVAILABLE UPON REQUEST

(800) FX-STRUT
## MINI FITTINGS

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<th>Image</th>
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<td>SQUARE WASHER</td>
<td></td>
<td><img src="image1.png" alt="Image" /></td>
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<tr>
<td>FS-8007</td>
<td>TWO HOLE SPLICE</td>
<td></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>FS-8008</td>
<td>THREE HOLE SPLICE</td>
<td></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>FS-8009</td>
<td>FOUR HOLE SPLICE</td>
<td></td>
<td><img src="image4.png" alt="Image" /></td>
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<tbody>
<tr>
<td>FS-8102</td>
<td>TWO HOLE CORNER</td>
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<td><img src="image5.png" alt="Image" /></td>
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<tr>
<td>FS-8103</td>
<td>TWO HOLE CORNER</td>
<td></td>
<td><img src="image6.png" alt="Image" /></td>
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<tr>
<td>FS-8112</td>
<td>THREE HOLE CORNER</td>
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<td><img src="image7.png" alt="Image" /></td>
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<tr>
<td>FS-8113</td>
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<tr>
<td>3/8&quot;</td>
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Thickness = 1/8" • Hole Spacing = 13/32" from End, 113/32" on Center • Hole Diameter = 9/32"
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1. **Acceptance**
   No order shall be binding upon us until accepted in writing by an authorized official at Flex-Strut Inc. Any contract for sale of goods, and these Conditions of Sale, shall be governed by and constructed to the Uniform Commercial Code as adopted in the state of Ohio.

2. **Errors**
   Should an error be made filling an order, notify Flex-Strut promptly and we will immediately attempt to adjust the matter without any expense to the purchaser.

3. **Cancellation**
   Cancellation of orders will be accepted only with the understanding that Flex-Strut will be reimbursed for expenses incurred as a result of the cancellation. Orders for special, non-cataloged items are not subject to cancellation after production is started.

4. **Returned Material**
   Permission to return any standard merchandise must be obtained in writing from Flex-Strut in Warren, Ohio. A Returned Goods Authorization (RGA) form will be provided and must accompany the material upon receipt. Request for RGA must be made within 60 days from the date of shipment and be subject to conditions spelled out in the RGA including, but not limited to the following:
   a. Return transportation must be pre-paid.
   b. Material not in first-class, saleable condition will be subject to the cost of reconditioning.
   c. Merchandise credit will be allowed on the basis of the price charged for the merchandise, less handling and restocking charge defined in RGA less any outbound freight allowed or paid by Flex-Strut.
   d. Returns will only be considered for standard catalog items. Any special, non-cataloged items are not subject to return for credit under any circumstances.

5. **Prices**
   Prices are subject to change without notice. The price list supersedes and cancels all previous quotations on any part listed in this catalog. Orders are accepted with the understanding that material will be billed at the price in effect at the time of shipment, unless otherwise specified in quotation or order.

6. **Minimum Order**
   $30.00 Net

7. **Terms**
   1% 10 days date of invoice
   Net 30 days date of invoice

8. **Terms of Payment**
   Failure by customer to meet punctual payment shall subject any further deliveries to be suspended or cancelled at the manufacturer's option; without prejudice to the manufacturer's rights to claim for material supplied or work done at the time of cancellation, and for any loss or injury occasioned thereby.

9. **Taxes**
   Prices are exclusive of all Federal, State and Local Taxes.

10. **Finance Charges**
    Any amount not timely paid by the customer shall bear interest at the maximum rate permitted by law, not to exceed 1.5% per month.

11. **Freight**
    All prices are FOB point of shipment, unless otherwise stated.

12. **Catalog Weights, Dimensions and Design Loads**
    Catalog weights and dimensions are careful estimates but not guaranteed. Design loads are based on testing or by calculations based on static load conditions.

13. **Damage or Loss in Transit**
    Delivery of goods to a carrier at our plant or other shipping point shall constitute delivery to purchaser; and regardless of freight payment all risk of loss or damage in transit shall pass to the purchaser at that time. Purchaser shall make claims for loss or damage to goods while in transit against the carrier; Flex-Strut will assist in securing satisfactory adjustment of such claims.

14. **Claims**
    Claims for defective material, shortages, delays, failures in shipment or delivery for any other cause shall be deemed waived and released by purchaser unless made in writing within 30 days after arrival of material. Under no circumstances shall purchaser install damaged or defective material if claims are to be made.

15. **Liability for Misuse**
    Flex-Strut shall not be liable for damages to property or persons due to improper installation of its material or through attempts to utilize the material under conditions which exceed the designed capabilities. Purchaser agrees to indemnify and hold harmless from any and all claims, liabilities, damages, costs and expenses asserted against Flex-Strut or incurred by Flex-Strut because of injuries to persons or damages to property resulting from the improper installation or misuse of the material.

16. **Material Supplier Only**
    Flex-Strut is a material supplier and fabricator and not a construction sub-contractor. We assume no responsibility for any terms, conditions, or special provisions contained in any contract between purchaser and any other party, including, but not limited to, provisions regarding warranties, time and method of payment and retainage, cancellation and penalties for delay in completion.

17. **Purchaser’s Specifications**
    Purchaser agrees to protect, defend, indemnify, and hold Flex-Strut harmless from and against all claims, liabilities, demands, causes of action, losses, damages, costs and expenses, including by way of description but not by way of limitation, attorney’s fees, expenses which may be asserted against us or may be incurred by us arising out of manufacture and/or sale of any material furnished to or for purchaser in compliance with purchaser’s designs, plans or specifications, including any claim, demand, or liability on account of actual or alleged infringement of any United States or foreign patent or trademark.

18. **Warranties**
    We guarantee to replace, or at our option to repair, any material which we find in our sole discretion to be defective in material or workmanship provided that a claim, and proof thereof, is made in writing to us within 30 days after purchaser’s receipt of material. Our obligation with respect to material found by us to be defective shall be limited to replacement or repair. No other warranty or guarantee of any kind is made, expressed or implied, statutory, by operation of law, or otherwise including warranties for merchantability and fitness for a particular purpose.