ITEM # C-4
4X4 ELLIS CLAMP
STEEL SHORES
• Standard
• Light Duty
• Heavy Duty

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ITEM # SJ-4
4X4 SCREW JACK

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ITEM # GRS-P12
ITEM # GRS-P24
PARAPET GUARDRAIL SYSTEM

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ITEM # CC-48
COLUMN FORMING CLAMP SCISSOR TYPE

PAGE 14-15

Order On-line at EllisOK.com

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ELLIS SHORES

“UP AND DOWN” FAST!
YOU CAN RECYCLE 5 OR MORE ELLIS SHORES WHILE YOU ARE MEASURING, CUTTING, SPLICING, ERECTING, AND WEDGING ONE 4X4 SHORE.

ELLIS CLAMPS

THE SECRET OF THE ELLIS SHORE IS THE ELLIS CLAMP.
Patented by Ellis Manufacturing Company Inc. in the 1950’s, the Ellis Clamp is simply designed to bring two pieces of lumber together to quickly create an adjustable shore. By using Ellis Shoring Methods, contractors are able to extremely reduce the costs of labor, material, and time. Ellis Clamps are used in the construction industry to stabilize and secure structures, such as shores, for pressing, lifting, and flooring. Ellis Clamps are available in various sizes to accommodate different applications.

ELLIS SHORES ARE EXTRA SAFE!

SPECIFICATIONS:
- MATERIALS: Lower Shore Members are composed of two Ellis Clamps permanently attached with threaded double nuts. Attach the top clamp 2” from the top of the lower shore member and space the second clamp 12” center to center below the top clamp. (Pictured Left). The upper member should be of sufficient length to obtain desired height. Both lower and upper members should be #1 Douglas Fir or Yellow Pine.
- LENGTH: For jobs requiring shores 20’ or less the lower shore member should be 6’ and the upper shore member long enough to reach desired height. For shores over 20’, we suggest putting the upper (or longer) member at the bottom and the lower member at the top. By doing this, the bottom member can be braced at recommended intervals and adjustments can be made to the top member by working off scallie plates laid across the brace. This eliminates removing several rows of bracing to make minor adjustments.

HOW TO USE ELLIS SHORES:
First, get the proper length lumber to make an Ellis Shore of the desired height— that being a 6’ or 7’ lower shore member and an upper shore member of the proper length. The sketches at the left give some suggestions for best results in the operation of Ellis Shores. Adjustments are made by raising the upper shore member to the approximate shore height, final adjustment is made with the Ellis Jack wrench (see page 4). When the desired height is obtained, the clamps should be tapped down (a hammer lug is provided on the clamp casting) to seat them and a safety nail is driven in the shore above each casting. This nail does not support any load, but simply keeps the clamps from vibrating loose.

RESULTS OF LABORATORY TESTS ON ELLIS SHORES

ONLY DEFLECTED – NEVER BROKE!
To establish the fact that Ellis Shores would withstand loads recommended on forming jobs, Ellis Manufacturing Co. had a series of load tests run under extreme overload conditions. Using the same #1 Douglas Fir or #1 Southern Yellow Pine 4x4’s as Ellis recommends to contractors and Ellis Clamps, an 11-0” Ellis Shore was erected. Increasing amounts of pressure were applied until the load was more than 20,000 lbs, but still the Ellis Shore did not break! There was very slight deflection at 6,000 lbs. and progressive deflection up to 20,000 lbs. (See test results on the right). These tests proved once again what contractors already know— Ellis Shores are Extra Safe!

EFFICIENCY!
Low initial cost, hundreds of reuses, great time savings, less waste.

ADAPTABILITY!
Use the same Ellis Equipment on different types of jobs in quick succession-- suspended floor jacks, climbing beams, interchangeable form, columns, clamps, jacks, etc.

SPEED!
Ellis “Up & Down” Faster Method is job-proven speed advantage. Fewer skilled man required… shores simply slip into place — a big time saver!

S. E. A. S.
- SAFETY: Ellis 4x4 shoring methods ensure a 2.5:1 safety factor. Shores are double-strength in the middle to prevent buckling; for adequate bracing, nail at any point.
- ECONOMY: Low initial cost, hundreds of reuse, great time savings, less waste.
- ADAPTABILITY: Use the same Ellis Equipment on different types of jobs in quick succession… suspended floor jacks, climbing beams, interchangeable form, columns, clamps, jacks, etc.
- SPEED: Ellis “Up & Down” Faster Method is job-proven speed advantage. Fewer skilled man required… shores simply slip into place — a big time saver!

SPECS:
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HOW TO USE ELLIS SHORES:
First, get the proper length lumber to make an Ellis Shore of the desired height—that being a 6’ or 7’ lower shore member and an upper shore member of the proper length. The sketches at the left give some suggestions for best results in the operation of Ellis Shores. Adjustments are made by raising the upper shore member to the approximate shore height, final adjustment is made with the Ellis Jack wrench (see page 4). When the desired height is obtained, the clamps should be tapped down (a hammer lug is provided on the clamp casting) to seat them and a safety nail is driven in the shore above each casting. This nail does not support any load, but simply keeps the clamps from vibrating loose.

LOADING CHART: Allowable maximum value of 6,000 lbs. per shore is based upon a safety factor of 2.5 to 1, against the mechanical strength of splice parts.

ALLOWABLE LOAD: Table based on allowable unit stresses of 1,500 lbs. per sq. ft. for wood members of fir or yellow pine, 6” of loces. This table is based upon approved engineering standards, but does not compensate for unusual conditions. Tested Under Loads from 3,000 to More than 20,000 lbs.
ELLIS JACK WRENCH

FOR FAST, EASY SHORE HEIGHT ADJUSTMENT...

The Ellis Jack makes leveling of shores and purlins simple. The Jack grips the wood of the lower shore member and the upper shore member is raised about one inch per stroke through the lifting pressure of the cam at the anchored end of the Jack handle. (see illustration below).

4 X 4 JACK WRENCH - STANDARD SPECIFICATIONS

| Handle Length | 12" |
| Weight | 17 lbs |
| Frame Opening | 3-3/4" |
| Lift | 1400 lbs |

ITEM # H-4

2 X 4 JACK WRENCH SPECIFICATIONS

| Handle Length | 12" |
| Weight | 9.0 lbs |
| Frame Opening | 3-5/8" |
| Lift | 1400 lbs |

ITEM # H-2

6 X 6 JACK WRENCH SPECIFICATIONS

| Handle Length | 12" |
| Weight | 20 lbs |
| Frame Opening | 5-3/4" |
| Lift | 1400 lbs |

ITEM # H-6

MATERIAL

Permasteel (hardened malleable) for better wear and longer life.

GRIPPING SURFACES

Pivotal plates with serrated surfaces.

This simple Ellis Jack, when used with Ellis Adjustable Shores, will level shores without the time-and-money consuming measuring, cutting, splicing, blocking, or wedging necessary with other methods. The Ellis Jack is a real money-saver!

HOW TO USE THE ELLIS HAND JACK WITH ‘ELLIS METHODS’

The Ellis Jack is used in conjunction with Ellis Methods to level forms used in concrete construction. Only a few Ellis Jacks are needed around the job – one for each 100 or even 200 shores. One workman, using the Ellis Jack, can level shores by himself. He simply holds the Jack by the handle with one hand, slips it onto the lower shore member just below the bottom of the upper member, using the other hand to guide the back plate into position. Then he jacks the handle one stroke, which raises the upper member and the shore after each stroke.

A story pole and level line may be used for measuring story height to which form must be adjusted. NOTE: The Ellis Jack is not used for lowering forms. This is done by simply tapping Shore Clamps one at a time with hammer. Nor is the hand jack recommended for lifting loads of over 1,400 lbs. (Such as forms and concrete which require correction).

ELLIS SHORES

SIMPLY ‘SLIP IN’!

Eliminating the need for old-fashioned shore-making, which entailed measuring, cutting, nailing, wedging, etc., the Ellis Slip-In Shore Holders saves a tremendous amount of lumber, time and labor. Just attach ‘SH’s’ at desired distance apart along the purlin, with duplex nails, and they are ready to receive adjustable Ellis Shores. After the assembly of end shores and purlins are raised and braced, it’s easy to ‘slip in’ the in-between shores… only a few seconds are required. Instead of three men to erect a shore, just one man is needed. Below are the different types of Ellis Slip-In Shore Holders. Each are used with 4x4 shoreing lumber.

SPECIFICATIONS FOR ITEM # SH-4C:

| CUP TYPE | 3/16”steel |
| SIZE | 4 x 4 |
| SPACING | Not to Purlins 2” to 8” apart, depending on slab thickness. |

ITEM # PC-B66 (6x6)

ITEM # PC-FP-44 (4x4), PC-FP-66 (6x6)

5003 N. COOPER
OKLAHOMA CITY, OK 73118

E-MAIL: info@EllisOK.com

WABASHE OFFICE: 1211 W. GRAND
DECATUR, ILLINOIS 62522

PHONES: 405-528-4671
FAX: 405-528-1796

www.EllisOK.com

ELLIS SLIP-IN SHORE HOLDERS

PAGE 5

FOR ITEM # SH-4CA:

| DESCRIPTION: |
| Fits 4 x 4 or 6 x 6 Purlins. |

ITEM # PC-A44 (4x4), PC-A66 (6x6)

SHORE CUP

SHORE CUP FOR ALUMINUM PURLIN

SHORE CUP FOR FLAT PLATE

SHORE CUP FOR PERPENDICULAR

PIVOTING SHORE CUP PARALLEL

PIVOTING SHORE CUP FLAT PLATE

PIVOTING SHORE CUP PERPENDICULAR

PIVOTING SHORE CUP HALF PLATE

ELLIS PIVOTING HEAD SHORE CUP A, B, & FLAT PLATE

NO MORE SHIMMING between Ellis Shore and Purlin / Stringer. Before, form builders would have to shim between the Ellis Shore and Purlin / Stringer when the angle created between the two was not 90 degrees. Now, the Pivoting Shore Cup allows the two to easily be adjoined without shimming, saving you an immemorable amount of time and money.

CONTACT US AT:
ELLIS MANUFACTURING COMPANY, INC.
803 H. COOPER
OKLAHOMA CITY, OK 73118

PHONE: 405-528-4671
FAX: 405-528-1796

www.EllisOK.com
ELLIS PURLIN SPLICERS AND ELLIS HEADS

**PURLIN SPANNER - ITEM # PS-4**

**SPECIFICATIONS:**
- **MATERIAL:** 3/16" steel
- **SHORE SIZE:** 4 x 4, 4 x 6, 5 x 6, 6 x 6
- **WEIGHT:** 10 lbs.

**DESCRIPTION:** This product is made to fit 4 x 4, 4 x 6, 5 x 6, 6 x 6 Purlin. Simply lift the bottom of the Ellis Shore to pry the nails out of the purlin.

**ELLIS T-HEAD - ITEM # TH-4**

**SPECIFICATIONS:**
- **MATERIAL:** 1/8" steel plate welded to 4" square tubing.
- **SHORE SIZE:** 4 x 4 (use with 5 x 4 or C-4).
- **JOINT SIZE:** 2 x 4, 2 x 6, etc.
- **WEIGHT:** 4 lbs.

**DESCRIPTION:** This item is also made to fit Double (HD-4) or Triple (HT-6) 2 x 4 joints (see drawings to the right).

**ELLIS RED HEAD**

**ITEM # RH-4**

**SPECIFICATIONS:**
- **MATERIAL:** 1/8" Steel Plate welded to 1/8" flat stock.
- **SHORE SIZE:** 4 x 4, 4 x 6, 5 x 6, 6 x 6 (use with SJ-6 or C-6).
- **WEIGHT:** 4.5 lbs.

**DESCRIPTION:** This product is made to fit 4 x 4 or 4 x 6 Purlin only. Simply lift the bottom of the Ellis Shore to pry the nails out of the purlin.

**HOW TO**

1. First attach the Angle Plate 2-1/2” from each end of the 4 x 4, 4 x 6 or aluminum purlin.
2. Next the Purlin is raised and the Angle Plate is placed in the slot of the purlin splicer.
3. Dismantling is made simple because Purlin Splicers are not nailed to purlin or Ellis Shores.

**ELLIS JOIST HOLDERS**

**4X4 JOIST HOLDER**

**ITEM # JH-4**

**SPECIFICATIONS:**
- **MATERIAL:** 1/8" Steel Plate welded to 4" Square Tubing.
- **SHORE SIZE:** 6 x 6 (use with 5 x 6 C-6).
- **JOINT SIZE:** 2 x 4, 2 x 6, etc.
- **WEIGHT:** 8 lbs.

**DESCRIPTION:** This product is made to fit Double (HD-4) or Triple (HT-6) 2 x 4 joints (see drawings to the right).

**6X6 JOIST HOLDER**

**ITEM # JH-6**

**SPECIFICATIONS:**
- **MATERIAL:** 1/8" Steel Plate welded to 6" Square Tubing.
- **SHORE SIZE:** 7 x 7 (use with 6 x 6 C-6).
- **JOINT SIZE:** 2 x 4, 2 x 6, etc.
- **WEIGHT:** 10 lbs.

**DESCRIPTION:** This product is made to fit Double (HD-6) or Triple (HT-6) 2 x 4 joints (see drawings to the right).

**ELLIS SLOTTED PURLIN SPLICERS**

Ellis Slotted Purlin Splicers assure faster erection and dismantling of Ellis Shoring System. Purlin ends splice together without nailing them to Ellis Shores or Purlin Splicers.

**4X4 SLOTTED SPINNER FOR LUMBER PURLIN**

**ITEM # PS-4S**

**SPECIFICATIONS:**
- **MATERIAL:** 1/8" Steel Plate welded to 4" Square Tubing.
- **SHORE SIZE:** 4 x 6 (use with 5 x 4 or C-4).
- **JOINT SIZE:** 2 x 4, 2 x 6, etc.
- **WEIGHT:** 5 lbs.

**DESCRIPTION:** This item is also made to fit 4 x 6 / 4 x 4 Ellis Shore (Item PS-46S).

**4X4 SLOTTED SPINNER FOR ALUMINUM PURLIN**

**ITEM # PS-4SA**

**SPECIFICATIONS:**
- **MATERIAL:** 1/8" Steel Plate welded to 4" Square Tubing.
- **SHORE SIZE:** 4 x 6 (use with 5 x 6 C-4, see page 2).
- **JOINT SIZE:** 2 x 4, 2 x 6, etc.
- **WEIGHT:** 6 lbs.

**DESCRIPTION:** This item is also made to fit 4 x 6 / 4 x 4 Ellis Shore (Item PS-465).

**ANGLE PLATE**

**ITEM # AP-1**

**SPECIFICATIONS:**
- **MATERIAL:** 3/16" x 3" steel strip, bent with a 90 degree angle.
- **WEIGHT:** 14 oz.
- 4 - 3/16” Nail Holes (for 4 x 4 or 4 x 6 Purlin)
- 2 - 5/8” Bolt Holes (for Aluminum Purlin)

**ELLIS SLOTTED PURLIN SPLICERS WILL SAVE YOU AN INMEASUREABLE AMOUNT OF LABOR.**

1. First attach the Angle Plate 2-1/2” from each end of the 4 x 4, 4 x 6 or aluminum purlin.
2. Next the Purlin is raised and the Angle Plate is placed in the slot of the purlin splicer.
3. Dismantling is made simple because Purlin Splicers are not nailed to purlin or Ellis Shores.
ALIGN FORMS FOR WALLS, COLUMNS OR BEAMS WITH...

ELLIS WALL BRACES

Ellis Wall Braces can be attached quickly to the top end of a 2 x 4 brace. Note also the rolled angle, which makes the metal fit well against the lumber and gives increased strength to the brace. 1” self-cleaning coil threads and all 2” welds. Use them on wall, column and beam forms. Bracing and alignment are fast and sure with Ellis Wall Braces.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MATERIALS:</th>
<th>Steel, with welded steel turnbuckle.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT:</td>
<td>8 lbs. each.</td>
</tr>
<tr>
<td>DESCRIPTION:</td>
<td>Standard angle is 45 degrees.</td>
</tr>
</tbody>
</table>

Rolled Corner = More Strength, Perfect Fit

1" Diameter 6" Take Up

BRACING FOR WALL FORMS    COLUMN FORMS    SPANDREL BEAM FORMS

HORIZONTAL SHORES

Horizontal Shores allow form builders to set up and tear down quickly by reducing the total number of shores needed to support form work. Quickly open and close wedge lock with strike of a hammer.

Horizontal Shores work great for forming form work, pouring concrete decks, bridges, and box culverts. They can be used for forming situations with or without Ellis Shores.

ITEM #WB

--- AVAILABLE IN 3 SIZES ---

ADJUSTABLE ELLIS KICK BRACE

ALIGN EDGE FORMS, DROP BEAM SIDES, AND LOW WALL FORMS WITH ELLIS ADJUSTABLE KICK BRACES.

Ellis Kick Braces can be attached quickly by nailing two nails in each end plate. Each brace can be placed at any angle, and can be adjusted quickly by turning the turnbuckle. Self-cleaning coil threads and full length welds are other outstanding features. Use strong and durable Ellis Kick Braces for many years.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MATERIALS:</th>
<th>All Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE:</td>
<td>29 1/2&quot; closed length</td>
</tr>
<tr>
<td>WEIGHT:</td>
<td>10 1/2 lbs.</td>
</tr>
<tr>
<td>DESCRIPTION:</td>
<td>Each end swivels 180 degrees. Can be used at any angle.</td>
</tr>
</tbody>
</table>
ELLIS STEEL SHORES • SIZES AND LOAD CAPACITIES

HEAVY DUTY WITH BEARINGS IN ADJUSTMENT HANDLE

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>Range Of Adjustment</th>
<th>Safety Lock</th>
<th>Load Capacity Safe Working (Lbs.)</th>
<th>Thrust Bearings</th>
<th>Weight (Lbs.)</th>
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</thead>
<tbody>
<tr>
<td>STL-10HD</td>
<td>10” to 14” - Adj. 4”</td>
<td>✔</td>
<td>54,000</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>STL-13HD</td>
<td>13” to 20” - Adj. 7”</td>
<td>✔</td>
<td>52,000</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>STL-19HD</td>
<td>19” to 32” - Adj. 13”</td>
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<td>48,000</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>STL-31HD</td>
<td>31” to 56” - Adj. 25”</td>
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<td>40,000</td>
<td>55</td>
<td></td>
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<tr>
<td>STL-55HD</td>
<td>55” to 80” - Adj. 25”</td>
<td>✔</td>
<td>34,000</td>
<td>73</td>
<td></td>
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<tr>
<td>STL-79HD</td>
<td>79” to 104” - Adj. 25”</td>
<td>✔</td>
<td>30,000</td>
<td>87</td>
<td></td>
</tr>
<tr>
<td>STL-103HD</td>
<td>103” to 128” - Adj. 25”</td>
<td>✔</td>
<td>27,000</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>STL-127HD</td>
<td>127” to 152” - Adj. 25”</td>
<td>✔</td>
<td>26,000</td>
<td>116</td>
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<tr>
<td>STL-151HD</td>
<td>151” to 176” - Adj. 25”</td>
<td>✔</td>
<td>25,000</td>
<td>131</td>
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LIGHT DUTY WITH BEARINGS IN ADJUSTMENT HANDLE

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<th>ITEM #</th>
<th>Range Of Adjustment</th>
<th>Safety Lock</th>
<th>Load Capacity Safe Working (Lbs.)</th>
<th>Thrust Bearings</th>
<th>Weight (Lbs.)</th>
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<tbody>
<tr>
<td>STL-10</td>
<td>10” to 14” - Adj. 4”</td>
<td>✔</td>
<td>20,000</td>
<td>18</td>
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<tr>
<td>STL-14</td>
<td>14” to 22” - Adj. 8”</td>
<td>✔</td>
<td>20,000</td>
<td>23</td>
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</tr>
<tr>
<td>STL-22</td>
<td>22” to 38” - Adj. 16”</td>
<td>✔</td>
<td>16,000</td>
<td>25</td>
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</tr>
<tr>
<td>STL-38</td>
<td>38” to 62” - Adj. 24”</td>
<td>✔</td>
<td>12,000</td>
<td>32</td>
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<tr>
<td>STL-62</td>
<td>62” to 86” - Adj. 24”</td>
<td>✔</td>
<td>8,000</td>
<td>39</td>
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<tr>
<td>STL-86</td>
<td>86” to 110” - Adj. 24”</td>
<td>✔</td>
<td>5,000</td>
<td>45</td>
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<tr>
<td>STL-110</td>
<td>110” to 134” - Adj. 24”</td>
<td>✔</td>
<td>3,000</td>
<td>53</td>
<td></td>
</tr>
</tbody>
</table>

STANDARD WITHOUT BEARINGS IN ADJUSTMENT HANDLE

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<tr>
<th>ITEM #</th>
<th>Range Of Adjustment</th>
<th>Safety Lock</th>
<th>Load Capacity Safe Working (Lbs.)</th>
<th>Thrust Bearings</th>
<th>Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STL-13</td>
<td>13” to 17” - Adj. 4”</td>
<td>✔</td>
<td>20,000</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>STL-19</td>
<td>19” to 27” - Adj. 8”</td>
<td>✔</td>
<td>18,000</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>STL-23</td>
<td>23” to 35” - Adj. 12”</td>
<td>✔</td>
<td>16,000</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>STL-27</td>
<td>37” to 61” - Adj. 24”</td>
<td>✔</td>
<td>12,000</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>STL-61</td>
<td>61” to 85” - Adj. 24”</td>
<td>✔</td>
<td>8,000</td>
<td>38</td>
<td></td>
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<tr>
<td>STL-85</td>
<td>85” to 109” - Adj. 24”</td>
<td>✔</td>
<td>5,000</td>
<td>44</td>
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<tr>
<td>STL-109</td>
<td>109” to 133” - Adj. 24”</td>
<td>✔</td>
<td>3,000</td>
<td>52</td>
<td></td>
</tr>
</tbody>
</table>

ELLIS STEEL SHORES - HEAVY DUTY, LIGHT DUTY, AND STANDARD

Provide a quick, easy, and safe way to support structures. Use as temporary or permanent support in commercial or residential applications, for example: as reinforcement under concrete beams and slabs; wood, steel, or aluminum beams; and as additional support in crawl spaces under floors, ceilings and attics.

EASY INSTALLATION

To install the Steel Shore, simply turn the nut to raise or lower the screw and top plate. Lastly, lock the adjustment nut using the Safety Lock set screw to prevent further height adjustment of the shore.

THRUST BEARING AND SAFETY LOCK

In the illustrations, you will notice the thrust bearings inside the adjustment nuts. This patented design, found in the Light and Heavy Duty Steel Shores, greatly reduces the amount of friction caused when adjustment to the wing nut is made under load and significantly increases its jacking capability.

Unlike the Standard Steel Shore, these with Bearings are built as one complete unit to aid in uplift resistance and do not come apart. Furthermore, we’ve added the Safety Lock set screw in the side of the nut, and when tightened down locks the adjustment handle in place for permanent or long term shoring applications.

The top plate is attached with a clevis pin and interchangeable with different designs (see below).

All shoring applications should be properly braced to prevent lateral shifting. Consult with a certified structural engineer for approval of any Ellis Manufacturing Products.

CUSTOM U-HEAD STEEL SHORE TOPS

Available for:
- Heavy Duty
- Light Duty
- Standard

CUSTOM PIVOTING STEEL SHORE TOPS

Available for:
- Heavy Duty
- Light Duty
- Standard
E  L L I S  S C R E W  J A C K S

4X4 SCREW JACK

FOR STANDARD DRESSED 4X4 LUMBER

Overall Height: 14-1/4” Screwed Down

Range of Adjustment: 6’

Safety Lock System: 6mm Set Screw

Acme Screw Size: 1-3/4” Diameter

Top: 4” x 4” x 5” Square Tube and 1-1/2” x 6-1/2” Pipe

Base Plate: 5-1/2” Square Plate with 4 - 3/8” Holes Provided

Weight: 13 lbs.

Inner pipe is packed with grease to prevent rusting.

For a rugged and durable piece of hardware in the Ellis line, none get it done like the Ellis Bridge Jack. With top and bottom plates measuring 1-1/2” x 9” x 9” for support, the Acme Screw is 2” and a 1/2” in diameter and greased for easy turning and capable of extending a full 3” (BJ-3), 6” (BJ-6), or 12” (BJ-12). For extra leverage, a 1” steel rod can also be used when turning the screw. Each of the Ellis Bridge Jacks while weighing 45, 60 and 70 lbs can support loads up to 80,000 lbs. The top plate has been attached to swivel freely, allowing the screw to be turned with ease. For added support, gussets on the top and the bottom plate have been added with full length welds.

With this kind of hardware, it’s no surprise that the Ellis Bridge Jack can support loads up to 80,000 lbs. A favorite of contractors, they fit directly under concrete slabs or beams in tight spots, as well as with timbers for shoring projects. Install the Ellis Bridge Jack at its closed height of 10” (BJ-3), 13” (BJ-6) or 19” (BJ-12) and screw up into position.

Search and Rescue teams also know the value of the Ellis Bridge Jack. With its ability to fit in tight spaces to stabilize concrete slabs or steel beams, the Ellis Bridge Jack is a versatile tool for downed buildings and reinforcement in small areas. It is strength in a small package, when time is of the essence.

E L L I S  B R I D G E  J A C K S

DOUGLAS FIR DIRECTIONAL LUMBER

UNSUPPORTED LOAD CAPACITY - 80,000 lbs / 40 tons

Minimum Overall Height: 10’

Maximum Overall Height: 13’

3” Adjustment

ITEM # BJ-3

Overall Height Screwed Down: 10”

Range of Adjustment: 3” from 10” to 13”

Top Plate: 9” Square with 4 - 9/16” Holes

Bottom Plate: 9” Square with 4 - 9/16” Holes

Acme Screw: 2-1/2” Diameter

Weight: 45 lbs

ITEM # BJ-6

Overall Height Screwed Down: 13”

Range of Adjustment: 6” from 13” to 19”

Top Plate: 9” Square with 4 - 9/16” Holes

Bottom Plate: 9” Square with 4 - 9/16” Holes

Acme Screw: 2-1/2” Diameter

Weight: 60 lbs

ITEM # BJ-12

Overall Height Screwed Down: 19”

Range of Adjustment: 12” from 19” to 31”

Top Plate: 9” Square with 4 - 9/16” Holes

Bottom Plate: 9” Square with 4 - 9/16” Holes

Acme Screw: 2-1/2” Diameter

Weight: 71 lbs

NEED MORE LIFTING POWER? TRY OUR HYDRAULIC JACKS...

12 TON HYDRAULIC BOTTLE JACK

Minimum Height: 9-9/16”

Maximum Height: 18-1/2”

Lifting Height: 5-1/8”

Screw Adjustment: 3-1/8”

Weight: 17 lbs

20 TON HYDRAULIC BOTTLE JACK

Minimum Height: 9-9/16”

Maximum Height: 17-13/16”

Lifting Height: 5-13/16”

Screw Adjustment: 2-3/8”

Weight: 24 lbs
**ELLIS COLUMN FORM CLAMPS**

**SCISSOR TYPE** - for square or rectangular columns.

Here’s the fast, easy and accurate way to form columns with the ELLIS Column Clamps. All parts are connected to make single units with no loose parts to get lost. The units are identical, no right or left, up or down. Only a hammer is needed to put up the form. Steel bars hold the plywood form sides snugly in place, a wedge is dropped into a rectangular-cut slot and tightened with a tap of a hammer. You can reuse many times.

**THE ELLIS COLUMN CLAMPS ARE MADE OF HIGH CARBON STEEL WITH MALLEABLE IRON CASTINGS.**

---

### **Item #**

**Clamp Size**

**Bar Size**

**Dimensions Using ¾” Plywood and 2x6 Studs**

**Weight**

**Net Concrete Column Dimensions Using ¾” Plywood and 2x6 Studs**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Bar Size</th>
<th>Weight</th>
<th>Range of Adjustment</th>
<th>Net Concrete Column Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC-38</td>
<td>38”</td>
<td>34 lbs</td>
<td>10” to 10”</td>
<td>24” to 24”</td>
</tr>
<tr>
<td>CC-48</td>
<td>48”</td>
<td>55 lbs</td>
<td>10” to 10”</td>
<td>34” to 34”</td>
</tr>
<tr>
<td>CC-60</td>
<td>60”</td>
<td>80 lbs</td>
<td>22” to 22”</td>
<td>46” to 46”</td>
</tr>
</tbody>
</table>

**ITEM # CC-38**

Top View of Vertical Stud hanging out over End of the Plywood.

Wedges are used to tighten Column Clamps

Chamber Strip in Corners Each Form Side is identical in a Square Column Form.

---

**ELLIS COLUMN FORM CLAMPS**

**SINGLE BAR TYPE**

The Ellis Single Bar Column Form Clamp is a simple way to clamp column forms. There are no moving parts and every bar is interchangeable. Only a hammer is needed to assemble the Column Form Clamps. They can be used for square or rectangular columns. 1-1/2” Slots are spaced 1” apart. Hook the bars together and drive the wedge down to tighten each corner. Remove clamps fast with a tap of the hammer for dismantling. Each bar can be nested together for storage.

---

**CONTACT US AT:**

ELLIS MANUFACTURING COMPANY, INC.
4803 N. COOPER
OKLAHOMA CITY, OK 73118
PHONE: 405-528-4671
FAX: 405-528-1796
www.EllisOK.com

---

**ITEM #**

**Bar Size**

**Weight**

**Range of Adjustment**

**Net Concrete Column Dimensions Using ¾” Plywood and 2x6 Studs**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Bar Size</th>
<th>Weight</th>
<th>Range of Adjustment</th>
<th>Net Concrete Column Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-24</td>
<td>3/8” x 2 1/2” x 39”</td>
<td>10 lbs</td>
<td>13” to 28”</td>
<td>9” to 24”</td>
</tr>
<tr>
<td>SB-36</td>
<td>3/8” x 2 1/2” x 51”</td>
<td>14 lbs</td>
<td>25” to 40”</td>
<td>21” to 36”</td>
</tr>
<tr>
<td>SB-48</td>
<td>3/8” x 3” x 64”</td>
<td>18 lbs</td>
<td>37” to 52”</td>
<td>33” to 48”</td>
</tr>
<tr>
<td>SB-60</td>
<td>3/8” x 3” x 76”</td>
<td>22 lbs</td>
<td>49” to 64”</td>
<td>45” to 60”</td>
</tr>
<tr>
<td>SB-72</td>
<td>3/8” x 3” x 88”</td>
<td>26 lbs</td>
<td>61” to 76”</td>
<td>57” to 72”</td>
</tr>
</tbody>
</table>

---

**ITEM # SB-24**

Tighten wedges with a hammer

Column Form clamp hooks together.

---

**SB-24 & SB-60 used to pour a 24” x 60” Concrete Column.**

---

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ELLIS GUARDRAIL SYSTEMS

ELLIS MANUFACTURING’S GUARDRAIL STANCHIONS ARE FAST, SAFE, STRONG, AND AN AFFORDABLE WAY TO BUILD YOUR GUARDRAILS.

FAST
Easily and quickly adjusts with handle to fit slabs up to 36”. For even faster turning, adjustments can be made with a screw driver by placing it in one of the holes provided in the handle (pictured at bottom). Wrench adjustment is also optional.

STRONG
Constructed with 5/8” Acme Screw inside for firm grip on slab. Will withstand horizontal loads in excess of 250 lbs.

SAFE
Meets and exceeds OSHA standards. Manufactured with quality welds and durable steel.

AFFORDABLE
Like all Ellis Manufacturing Products, this one is built to last and only requires a minimal investment.

CLAMPS ONTO THE SLAB EVERY 6 FEET. USE 2X4’S, 2X6’S OR CABLE FOR RAILS.

ELLIS 12” PARAPET QUICKRAIL
ITEM# QR-P12
WEIGHT: 15 lbs.
Secures to the top of walls 4” to 12”.

ELLIS 24” PARAPET QUICKRAIL
ITEM# QR-P24
WEIGHT: 18 lbs.
Secures to the top of walls 4” to 24”.

ELLIS QUICKRAIL SYSTEMS (TWO TYPES):
Quickly build guardrails around the leading edge of an elevated slab or top of Parapet Wall. The Ellis QuickRails adjust to fit a concrete slab or parapet wall up to 24” thick. Simply turn the handle to accommodate different slab / wall thickness and tighten to clamp down. Place your own 4x4 lumber into the square tubing provided on the QuickRail and attach through the rail holes on the sides. The vertical 4x4 Lumber will allow you to attach 2x6’s to it for your horizontal railing. This is a Fast and Affordable way to build your guardrail!

SLIP ON GUARDRAIL BRACKET
Simple to use. Slip on the end of a 4x4 or 4x6 purlin/stringer (pictured above), and nail into place. Drop a 4x4 post and nail through tubing. Nail on 2x4’s to build your railing.

SPECIFICATIONS:
MATERIAL: 6 lbs.
WEIGHT: 4” x 4” x 6” square tubing 1/4” x 1” flat bar.
Description: fits 4x4 posts and 4x6 or 4x4 stringers or joists.

ELLIS 12” PARAPET GUARDRAIL SYSTEM
ITEM# GRS-P12
WEIGHT: 23 lbs.
Secures to top of walls 4” to 12”.

ELLIS 24” PARAPET GUARDRAIL SYSTEM
ITEM# GRS-P24
WEIGHT: 30 lbs.
Secures to top of walls 4” to 12”.

ELLIS QUICKRAIL SLAB GRABBER
ITEM# QR-SG24
WEIGHT: 18 lbs.
Quickly secures to Concrete Slabs up to 24”. Slip a 4x4 post in the square tubing and nail your 2x6’s or 2x8’s to build your railing.

ITEM # SG-1

ALL PRODUCTS ON THIS PAGE WILL EXCEED OSHA’S REQUIREMENT OF 200 LBS. LOAD TEST.

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www.EllisOK.com
SPACING FOR ELLIS SHORES, PURLINS, AND JOISTS.

RECOMMENDED SPACING OF SHORES, PURLINS, AND JOISTS FOR DIFFERENT LOADS.

**SLAB THICKNESS**

<table>
<thead>
<tr>
<th>Plywood Thickness</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; PLY WOOD</td>
<td>2'-0&quot;</td>
<td>3'-0&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>5/8&quot; PLY WOOD</td>
<td>3'-6&quot;</td>
<td>3'-0&quot;</td>
<td>4'-6&quot;</td>
</tr>
<tr>
<td>4X6 PULINS W/ 4X4 JOISTS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4&quot; OR UNDER</td>
<td>3'-0&quot;</td>
<td>4'-0&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>5 TO 9-1/2&quot;</td>
<td>4'-0&quot;</td>
<td>5'-0&quot;</td>
<td>6'-0&quot;</td>
</tr>
<tr>
<td>10&quot; TO 12&quot;</td>
<td>5'-0&quot;</td>
<td>6'-0&quot;</td>
<td>7'-0&quot;</td>
</tr>
<tr>
<td>13&quot; TO 14&quot;</td>
<td>6'-0&quot;</td>
<td>7'-0&quot;</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>4X4 PULINS W/ 4X4 JOISTS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4&quot; OR UNDER</td>
<td>2'-0&quot;</td>
<td>3'-0&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>5 TO 7&quot;</td>
<td>3'-0&quot;</td>
<td>4'-0&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>8&quot; TO 9-1/2&quot;</td>
<td>4'-0&quot;</td>
<td>5'-0&quot;</td>
<td>6'-0&quot;</td>
</tr>
<tr>
<td>10&quot; TO 12&quot;</td>
<td>5'-0&quot;</td>
<td>6'-0&quot;</td>
<td>7'-0&quot;</td>
</tr>
</tbody>
</table>


douglas fir, construction grade joist and purlins. 3/4" plywood held strong way over joists with face grain parallel to span. Main deflection $L/360$.

**PLYWOOD DECKING CHART**

- Chart is based on requirements for continuous spans over 3 or more supports. Grain of two plies parallel to span. Stock 128# per. ft. D.L. = 30# per. ft.

**U-PURLIN ASSEMBLIES**

- Make series of u-purlin assemblies on ground, each consisting of 2 Ellis shores and one purlin, then raise.

**CROSS BRACE**

- Cross brace these inverted U's so they are free standing.

**JACK LEVEL**

- Level whole system of purlins and end shores by story pole or string method, using Ellis Jack.

**COMPLETE A SECTION**

- Stack of purlins on top, shores below.

**“SLIP IN”**

- In-between shores just "slip in" (see previous page).

**“WALK IT OUT”**

- Men above push purlin end out, man below slips shore into purlin splicer, walk it out. Top man seats and nails it.

**“WALK IT OUT”**

- Stack of shores on ground ready to use.

**METHOD A**

- Complete a section with joists and decking. Stack purlins on top, shores below.

**METHOD B**

- To shore entire area before decking, make series of L's with 1 shore to 1 purlin.

**COMPLETE & DECK**

- Then level, add slip-in shores, joists and decking to complete. Either method does a great job!

**EXTEND WITH “L” ASSEMBLIES**

- Assemble on ground.

**ADD “L” ASSEMBLIES**

- Erect L's, seating free end of each in purlin splicer left open, nail, cross brace as before.

**DETERRINE SPACING**

- See catalog to get shore, purlin and joist spacing. (pg. 4).

**ATTACH METAL PARTS**

- On ground, attach Ellis metal parts to lumber.
History of Ellis Manufacturing Co., Inc.

In 1948, Navy pilot and golf enthusiast L.S. “Gunna” Holmboe Jr. graduated from the University of Oklahoma with a degree in Business. Eager to get to work, he started working with his father L.S. Sr. as a maintenance director for 200 rental units. Realizing it was only busy work he soon grew tired of the simplicity of the job and started looking for something more challenging than fixing roofs and mending fences.

L.S. Sr., seeing his son’s dissatisfaction, came up with a new project -- to simplify the manufacture of wooden shores using metal clamps. This new product would eliminate the time spent measuring and cutting lumber to support the form work for pouring concrete and L.S. decided to call it “The Ellis Clamp,” so named for “L.S.”

Just two Ellis Clamps and two pieces of lumber would allow a totally adjustable shore, saving time and money in his construction business. He went to his son with a $10,000 loan and a proposition – sell the Ellis Clamps and see what comes of it. “But if you go in the red, you can forget it,” he said.

L.S. Holmboe Jr. would never forget, needless to say, because the Ellis Clamp took off like a shot. From his basement, L.S. Jr. worked to create the clamps using a machine he designed himself and soon he hired an assistant to help. It was far from the last hire the company would make. Before long, L.S. hired his assistant and a welder to work for him full-time and designed another machine to bend the metal into a rectangular shape. Though his first order was small by today’s standards – only 200 – it put him hard at work and in just a week, the Hughes Construction Company had their Ellis Clamps. They were happy to have the product, and they weren’t the only ones who saw the exciting future offered by the clamps. “I sent out some sales literature and received a lot of interest,” he said. “Including that of my father. Our first large order was from a big contractor named Volpe Construction in Malden, Mass.,” he said. “This was a big step, to make 2000 clamps in two weeks.” Now that orders for Ellis Clamps were on the rise, so much so that men worked two shifts daily making clamps, L.S. Sr. started the Ellis Equipment Company, which would later become Ellis Manufacturing Company, Inc, in 1951.

Response for the clamp was so positive that father and son decided to invest in a patent for their invention, specifically allowing only Ellis Manufacturing Co., Inc. to legally make the Ellis 4x4 Shore Clamp with only one weld. In 1956, a new headquarters was built at 4803 N. Cooper Ave. in Oklahoma City to house the growing enterprise. Sadly, before it was completed, L.S. Sr. passed away. Thankfully, he lived long enough to see his dream of operating a family business come true. And L.S. Jr. stayed true to that dream, bringing his first son, Brent Holmboe, into the business in 1973. Brent is now President and responsible for operations, increasing productivity and expansion of the Ellis Manufacturing line of products.

Innovation is the key, President Brent Holmboe said. Ellis is dedicated to improving their existing products, developing new tools, ideas and products for customers and continuing a legacy of excellence for the construction industry. In addition, as a small, family-owned company, Ellis can stay adaptable in their focus on customer satisfaction. “We listen to our customers concerns and are willing to modify our products to fit their needs,” Vice President Clay Holmboe said. “Not only do we sell standard shoring, bracing and guardrail materials, but we can also customize products to fit specific needs of our customers.” Using on-site punch presses, iron workers and welding machines, Ellis has the ability to quickly manufacture standard and customized products. And since Ellis owns their own building and all of the equipment, they can operate with low overhead costs and offer its customers quality products at reasonable prices.

In business since 1951, Ellis has 64 years of experience and expertise to offer customers and looks forward to new challenges in the demanding business of commercial and residential construction, mining and search and rescue industries. On April 20, 2005 at the age of 81, after months of health complications, and surrounded by his family and friends L.S. “Gunna” Holmboe Jr. passed away. Gunna will always be remembered for having an incredible sense of humor and an exceptional love for his family and friends. His contributions to this company are unprecedented and he will forever be missed.