

LALLY LOCK COLUMN

Patented Locking, Concrete Filled Column

EASY **1 2 3** INSTALL

Step 1 Choose your **column**

Step 2 Choose your **cap plate**

Step 3 Choose your **base plate**



PORTLAND STONE WARE CO.



Step 1: Choose your column

Column Size Options

Column Diameter	Lengths Available
3 ½ 16" gauge	6' to 12'
4" 16 gauge	6' to 14'
4" 11 gauge	6' to 16'

Custom columns are available upon request.

Column Load Table

	Lally Lock Column Safe Load		Lally Lock Column Ultimate Load	
	3 1/2"	4"	3 1/2"	4"
6-0	16,500#	21,300#	31.0 kips	40.0 kips
6-6	15,850#	20,650#	29.8 kips	38.8 kips
7-0	15,200#	20,050#	28.7 kips	37.7 kips
7-6	14,600#	19,350#	27.5 kips	36.4 kips
8-0	14,000#	18,700#	26.3 kips	35.2 kips
8-6	13,300#	18,000#	25.0 kips	33.9 kips
9-0	12,600#	17,300#	23.8 kips	32.6 kips
9-6	11,950#	16,550#	22.5 kips	31.2 kips
10-0	11,300#	15,800#	21.3 kips	29.8 kips
11-0	10,000#	14,400#	18.7 kips	27.1 kips
12-0	8,700#	12,900#	16.4 kips	24.3 kips
14-0	N/A	N/A	N/A	19.2 kips

This load chart was established by Dean Column Corporation.

One kip is about 1,000 pounds.



Step 2: Choose your cap plate

Lally Lock Cap Plates



Lally Lock Cap Plate

This plate is made in low carbon steel in dimensions $5 \frac{3}{8}'' \times 5 \frac{3}{8}'' \times \frac{1}{8}''$. The plate has two $\frac{5}{16}''$ holes, two $\frac{1}{4}''$ slotted holes, four $\frac{3}{8}''$ oval holes, and four raised lugs to fit outside dimension of the column. One $\frac{9}{16}''$ counter sink hole is center located to attach the column. One $\frac{1}{2}''$ hex head screw is included in the packaging ($\frac{5}{16}''$ hex head bit not included). Available to fit both $3 \frac{1}{2}''$ OD or $4''$ OD columns. Unpainted.

Lally Lock Beam Plate

The Lally Lock Beam Plate is a great option for wider beams. It is $8''$ long and made from $\frac{1}{4}''$ low carbon steel. The plate has either one keyhole or one $\frac{3}{8}''$ hole located in each corner and the plates are packaged with GRK screws. To accommodate any Lally Lock Column diameter, this plate has a $\frac{19}{32}''$ counter sunk hole in the center of the plate to accept a $\frac{1}{2}''$ bolt. This plate can be used for a $3 \frac{1}{2}''$ or $4''$ column.

Available sizes:

- » $3 \frac{1}{8}'' \times 8'' \times \frac{1}{4}''$ for 2 2x's
- » $4 \frac{5}{8}'' \times 8'' \times \frac{1}{4}''$ for 3 2x's
- » $6 \frac{1}{8}'' \times 8'' \times \frac{1}{4}''$ for 4 2x's
- » $3 \frac{5}{8}'' \times 8'' \times \frac{1}{4}''$ for 2 LVL
- » $5 \frac{3}{8}'' \times 8'' \times \frac{1}{4}''$ for 3 LVL
- » $7 \frac{1}{8}'' \times 8'' \times \frac{1}{4}''$ for 4 LVL



Lally Lock Saddle Plate

This plate is made from 12-gauge low carbon steel to wrap the sides of a beam. Eight $\frac{3}{16}''$ holes are cut out of each side of the saddle for bolting the saddle to the beam. Located in the center of the bottom of the saddle is a specially designed hole for a bolt to connect the plate to the column. It comes in different size saddles to fit different beams. Painted black.

Available sizes:

- » $3 \frac{1}{8}'' \times 4'' \times 11 \frac{1}{2}''$ for (2) 2x's
- » $3 \frac{5}{8}'' \times 4'' \times 11 \frac{1}{2}''$ for (2) LVL
- » $4 \frac{5}{8}'' \times 4'' \times 11 \frac{1}{2}''$ for (3) 2x's
- » $5 \frac{3}{8}'' \times 4'' \times 11 \frac{1}{2}''$ for (3) LVL
- » $6 \frac{1}{8}'' \times 4'' \times 11 \frac{1}{2}''$ for (4) 2x's
- » $7 \frac{1}{8}'' \times 4'' \times 11 \frac{1}{2}''$ for (4) LVL



**Standard Plate*



**Beam Plate with Ring
(similar to Springfield Plate)*



**Saddle Plate with Ring
(similar to U Cap with Ring)*



Step 3: Choose your base plate

Lally Lock Base Plates



Lally Lock Base Plate

This plate is made in low carbon steel in dimensions $5 \frac{3}{8}'' \times 5 \frac{3}{8}'' \times \frac{1}{8}''$. The plate has two $\frac{5}{16}''$ holes, two $\frac{1}{4}''$ slotted holes, four $\frac{3}{8}''$ oval holes, and four raised lugs to fit outside dimension of the column. One $\frac{1}{4}''$ counter sink hole is center located to attach the column with one Phillips head concrete screw included in packaging (Phillips head bit not included). Available to fit both $3 \frac{1}{2}''$ OD or $4''$ OD columns. Unpainted.



Adjustable Base Set

- » Holds 55,000 pounds
- » 3" adjustment
- » Self leveling
- » 2 threaded holes in the bearing plate allow the plate to be connected to the base plate

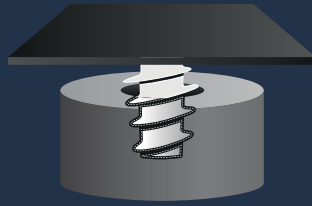


**Standard Plate*



**Beam Plate with Ring
(similar to Springfield Plate)*

*** Please note:** Portland Column plates also fit Lally Lock Columns, however it will not have the locking capability, therefore field welding is needed.

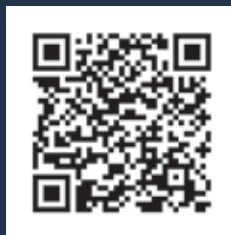


LALLY LOCK COLUMN

A Structural Lock Product

- ✓ **No Welding**
- ✓ **One Man Install**
- ✓ **Uplift Protection**

For installation instructions
or information on other Structural
lock products, please visit our website.



PORTLAND
STONE WARE CO.

