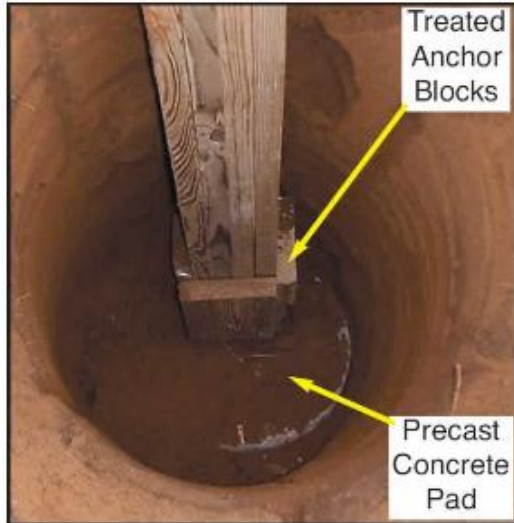


## Laminated Columns

### Laminated Columns: A Stronger Choice

Midwest has incorporated laminated columns for certain building specifications. Rivet clinched laminated columns are an option to solid treated posts. Rivet clinched laminated columns provide advantages over solid posts when used as vertical supports.

### Lifetime Warranty/.60# Per Cubic Foot Retention



Improved treatment is realized with the laminated column. Midwest extends a lifetime written warranty on the treated material used in laminated columns. In addition, more consistent penetration is obtained by individually treating the materials before lamination. The treated materials are inspected by the Southern Pine Inspection Bureau; this assures they meet industry specifications. The treating process has been proven safe by Bell Laboratories, the United States Department of Agriculture and Forest Products Laboratory and agricultural departments of

leading universities.

### Uniformity in Assembly & Strength

Southern Pine Lumber provides an assembly with more consistent strength and stiffness characteristics. This is due to the grains of the laminated wood running in random directions, versus a solid post. Midwest laminated columns are stronger than solid posts of the same grade and species. Quality controlled factory production creates a consistently straight laminated column, thus a straighter walled building.



### Strong Truss To Column Connection

The positive connection between truss and laminated column provides a strong junction and in some cases eliminates the need for knee braces. The bottom chord of the truss bears directly on the center member of the laminated column. The truss to column fastening is then determined by the

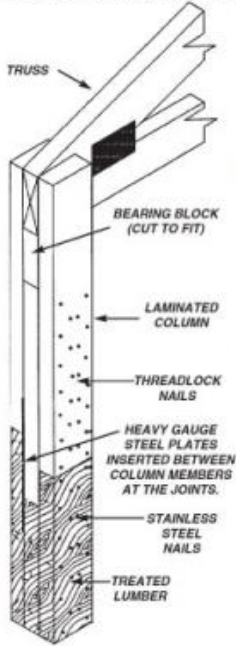


specific building's specifications.

### Manufactured to Custom Specifications

Midwest laminated columns can be fabricated to any length to match special sidewall heights. The custom features of fabrication allow the columns to be designed and manufactured for each individual building's specifications. The number of plies and dimensions of lumber used is determined by the building's design requirements.

### Rivet Clinched Laminated Columns with Steel Reinforced Joints Midwest



offers an improved laminated column to replace treated square timbers as vertical supports in building construction. The Midwest laminated columns are manufactured using an automated nail machine which drives threaded nails formed from spiral shaped fluted low carbon steel wire. The machine automatically aligns the component members with its powerful clamping system, removing normal warpage and pressing members firmly together while the threaded nails are driven. The machine automatically countersinks and rivet clinches the points. The threaded nail screws its way into material, as its head is formed. When the nail is driven all the way through the column, the driving point is rivet clinched and a larger head is formed on the other end of the nail. The rivet clinched threaded nails cannot back out.

### Laminated Columns Provide Distinct Advantages: Stronger Lamination with Rivet Clinched Nails

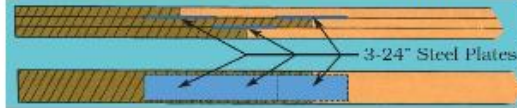


The rivet clinched threaded nail allows for complete penetration of all column members. Where thickness is equal to three standard dressed members, a single threaded nail, rivet clinched has a joint separation resistance 4.45 times greater than two 16 penny common nails. In three piece construction joints, one rivet clinched threaded nail in double shear is equivalent to two 16 penny common nails, driven from each outside piece.



Rivet Clinched Threaded Nails Are Accepted By:  
FHA - Federal Housing Administration  
ICBO - International Conference of Building Officials  
BOCA - Building Officials Conference of America  
CMHC - Central Mortgage and Housing Corp. (Canada)

#### Steel Plate Reinforcement & Stainless Steel Rivet Clinched Nails



The automated nailer accurately produces a superior laminated column under a factory controlled condition. The treated (lower end)

of the column is also laminated in the factory and therefore no field splicing is necessary. Treated materials are laminated with stainless steel rivet clinched nails. In addition to the advantage of factory lamination of the treated and untreated components, heavy gauge steel plates are inserted between the column members at the joints of treated and untreated material. These plates greatly increase the strength of this critical joint. Laminated columns 20' and under may be constructed totally of treated lumber without a joint.

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