

# LAMINATED COLUMNS



## LIMITED WARRANTY - .60# PER CUBIC FOOT RETENTION

Improved treatment is realized with the laminated column. Midwest Manufacturing extends a limited 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, and the treatment retention meets American Wood Preservative Association 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.

## SOLID COLUMN ANCHOR / FOUNDATION

All Midwest laminated columns are anchored with treated anchor blocks which are fastened to the treated bottom of the column at the jobsite. These anchor blocks help prevent uplift. The columns rest firmly on precast concrete pads which provide a solid foundation for the building. The laminated columns may also be anchored to concrete slabs or foundations using fasteners specifically designed for these applications.



## 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.

### How to Make Claims:

Defective product may be brought back to the nearest Menards® store for an even exchange of replacement product or for a refund. The defective CCA and a receipt of your purchase will be required.\*Permanent Wood Foundations, post frame buildings and laminated beams are engineered systems and therefore are not warranted by the Retailer, Chemical Supplier or the Manufacturer of the treated lumber other than fungal decay and termite damage. The expense of labor, installation, delivery, or removal of treated product is not covered by this warranty. For all installed claims: If you purchased CCA installed it, have a problem with it and cannot simply bring it back for an exchange or refund - please submit an Installed Guest Complaint Form along with photograph(s), description of the defect and a copy of your original purchase receipt or proof of purchase. Forms may be obtained at any Menards® store, or can be found online at [www.Menards.com](http://www.Menards.com) and mailed directly to:

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At Menard, Inc.  
5101 MENARD DRIVE  
EAU CLAIRE, WI 54703

# COMMERCIAL AGRICULTURAL RESIDENTIAL

# RIVET CLINCHED NAILED LAMINATED COLUMNS WITH STEEL REINFORCED JOINTS

## 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.

## STRONGER LAMINATION WITH RIVET CLINCHED NAILS

Midwest offers an improved laminated column to replace treated square posts as vertical supports in building construction.

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.

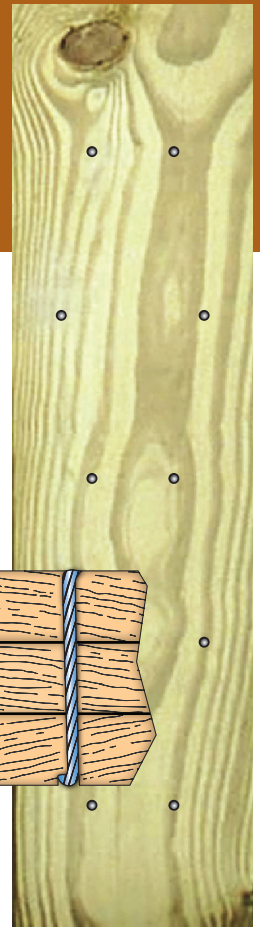
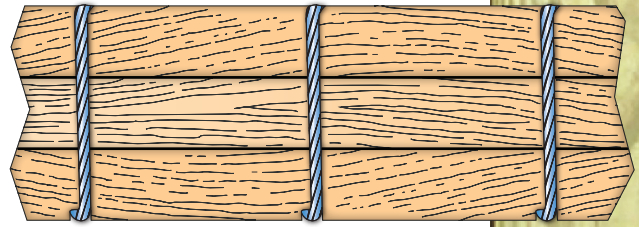
The machine automatically countersinks and rivet clinches the points. The threaded nail screws its way into material, as its head is formed. When the nail is driven all the way through the column, the driving point is rivet clinched and a larger head is formed on the other end of the nail. The rivet clinched threaded nails cannot back out.

The rivet clinched threaded nail length completely penetrates the 2X 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 of two, 16-penny, common nails, driven from each outside piece.

## STEEL PLATE REINFORCEMENT

The automated nailer machine 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.

Laminated columns over 20' are reinforced with 24" steel plates



### 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 & Housing  
Corp. (Canada)

Approved by American Society of  
Agricultural Engineers **A.S.A.E.**



Available at **MENARDS**

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