

**BUILDS LIKE STANDARD POST-FRAME - NO MORE ROT PROBLEMS!**



## PRE-CAST CONCRETE COLUMNS

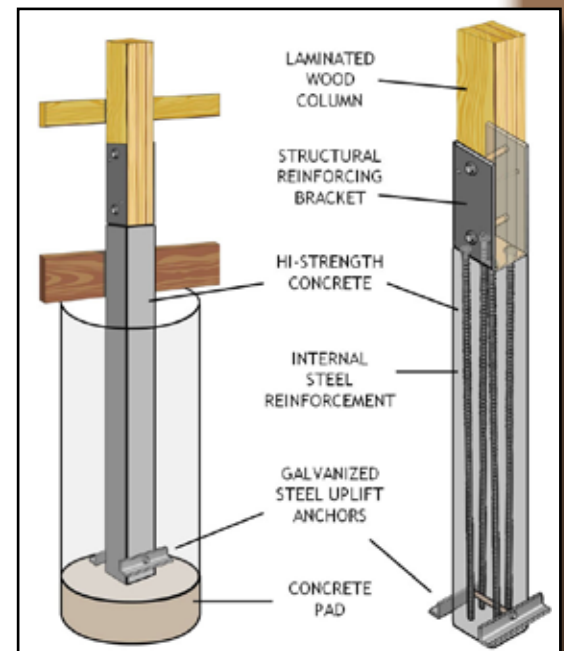
Perma-Columns are five foot precast concrete columns that keep wood out of the ground, ensuring your building's foundation will never rot. They are the first product to combine the economy of post frame construction with the durability of a concrete foundation. Simple installation. No waiting on concrete trucks. No treated wood in the ground. **No more rot problems!**



Perma-Columns use the latest in SCC precasting technology to provide three times the strength of standard concrete. Microfibers add shock resistance and durability. Microsilica enhances flexural/compressive strength and erosion resistance. A corrosion inhibitor protects the rebar reinforcement from rusting, and a final admixture is added to give freeze/thaw protection. The technology incorporated in our special mix guarantees a lifetime of durability.

The wood column is attached to a "U" shaped steel bracket made of 1/4" steel with 1/2" thru-bolts and 1/4" lags. This bracket is robotically welded to steel reinforcement that runs the entire length of the column. All the steel we use is a premium high strength alloy purchased domestically. A sleeve is precast in to the base of the column to allow easy attachment of our innovative uplift or extender systems. See optional accessories section for more information

Perma-Columns have been extensively tested by both Wisconsin and Purdue University. In comparative strength tests, Perma-Columns have proven to outperform the industry standard for wood columns. As a general rule of thumb, Perma-Columns are as strong as the wood they are replacing.



U.S. Patent Number 6,964,139  
"Precast concrete column for use in post-frame construction"

Call your local Northland Buildings Sales Consultant for more information

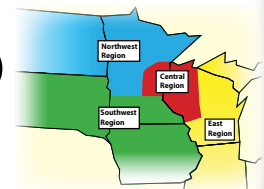


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**THE LEAST EXPENSIVE CONCRETE FOUNDATION FOR POST-FRAME BUILDINGS**