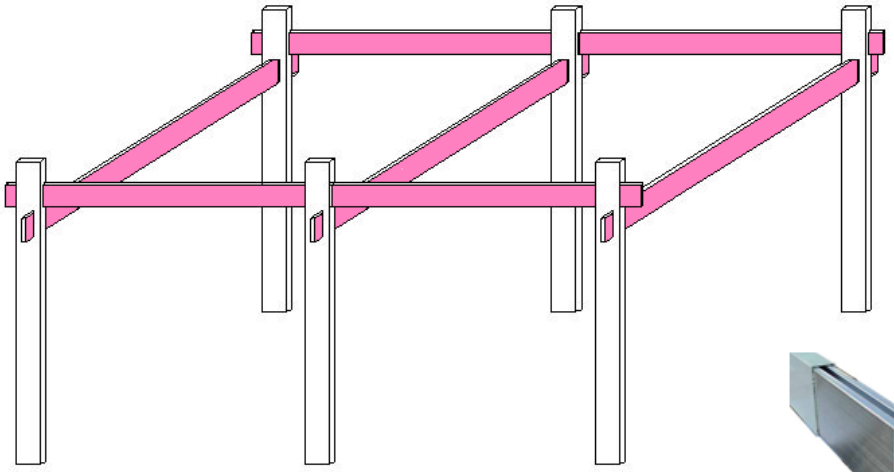
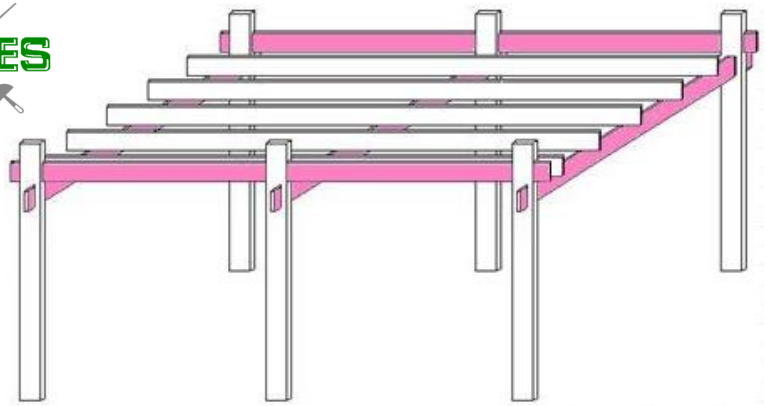
REINFORCED PERGOLAS

For a large 6 post pergola, the design can be altered slightly to reduce the amount of aluminum stiffeners needed, lowering the overall cost of structure. Filled Carrying Beams are run across the longest span. Filled Cross Beams are used only on the ends; with the Steel Insert System forming the metal to metal connection. Ribbed Cross Beams are used to fill the remaining area, with the middle filled Carrying Beam eliminating sagging. A six post pergola can span up to 16' x 16'.





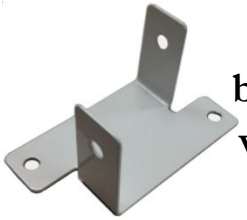
The filled beams allow for a large open area, and can be configured so the widest post spans are facing the most favorable direction.

A BEAM

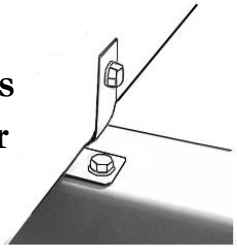
Recommended stiffener: Aluminum A BEAM, filling entire profile to establish metal to metal connection.

Posts are reinforced with the Steel Insert System: 3" or 4" 40wt galvanized pipe set in concrete (or core drilled into pad). Add 2 post adapters, 1 rail adapter and 1 rail connector per post. Sleeve routed PVC post over steel post.

Recommended for Residential Applications



Attach remaining cross beams and top cross pieces with stainless steel powder coated beam brackets.

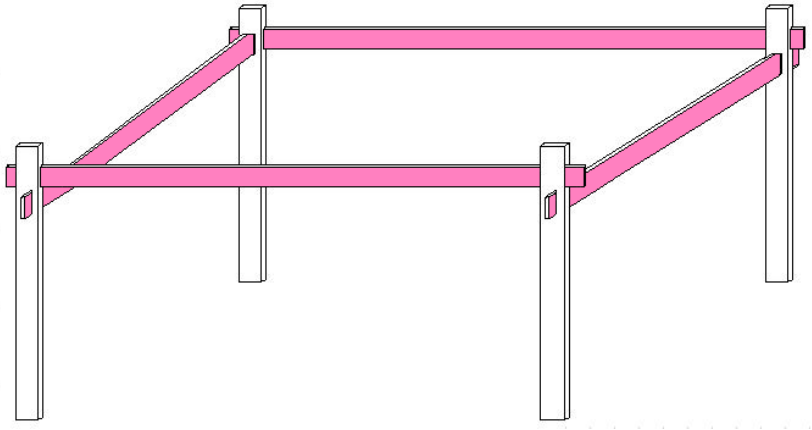


Rail Connector

Rail Adapter

Post Adapter

STRUCTURAL PERGOLAS



Posts are reinforced with the Steel Insert System: 3" or 4" 40wt galvanized pipe set in concrete (or core drilled into pad). Add 2 post adapters, 1 rail adapter and 1 rail connector per post. Sleeve routed PVC post over steel post.

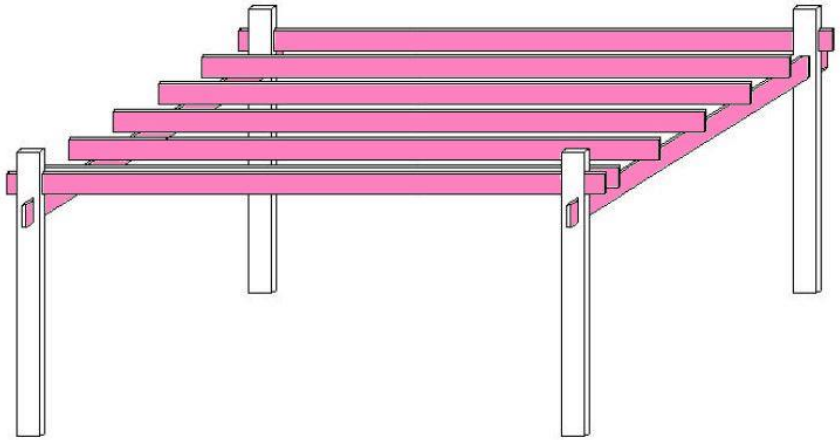
Recommended for Commercial & Residential Applications

Rail Connector

Rail Adapter

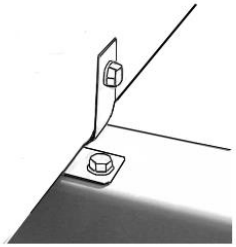
If any post span on a 4 post pergola exceeds 8', all carrying and cross beams must be filled with a stiffener (anything over 8' *will* sag). Recommended stiffener: Aluminum A BEAM, filling entire profile to establish metal to metal connection.

A BEAM



Post Adapter

Attach remaining cross beams and top cross pieces with stainless steel powder coated beam brackets.



VINYL FENCES INC.