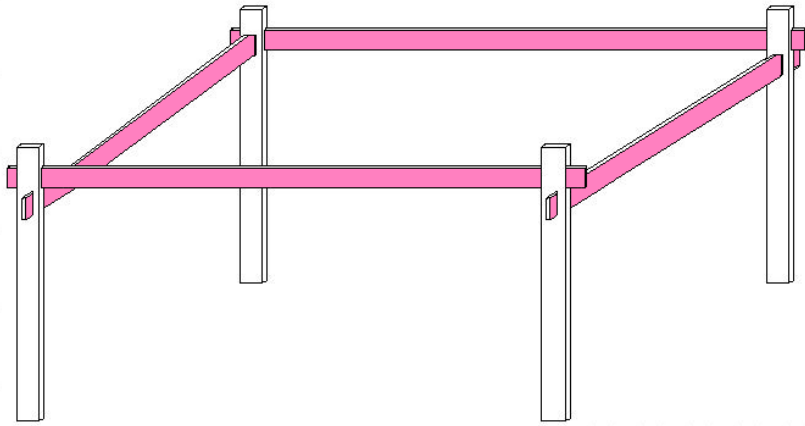


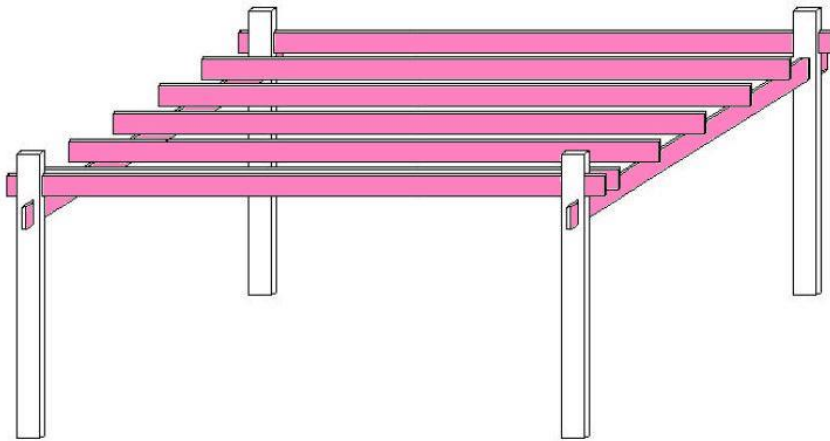
STRUCTURAL PERGOLAS



Posts are reinforced with the *Steel Insert System*: 3" 40wt galvanized pipe set in concrete, core drilled into a pad, or flanged on a deck. 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*

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



Rail Connector



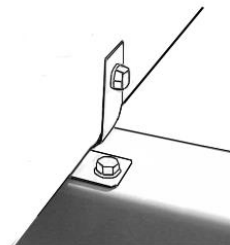
Rail Adapter



Post Adapter

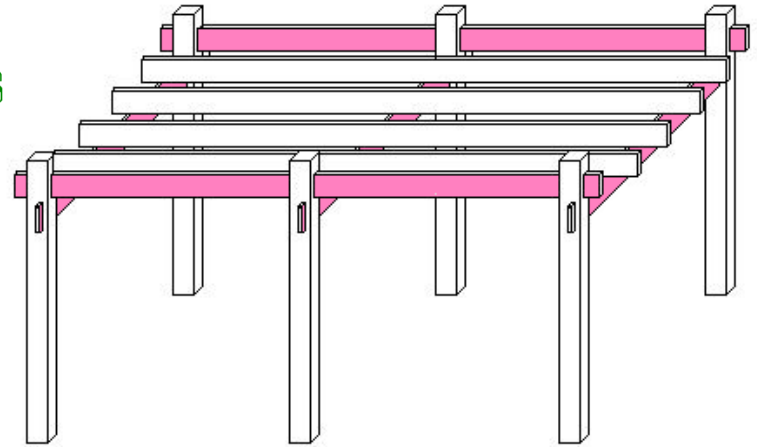
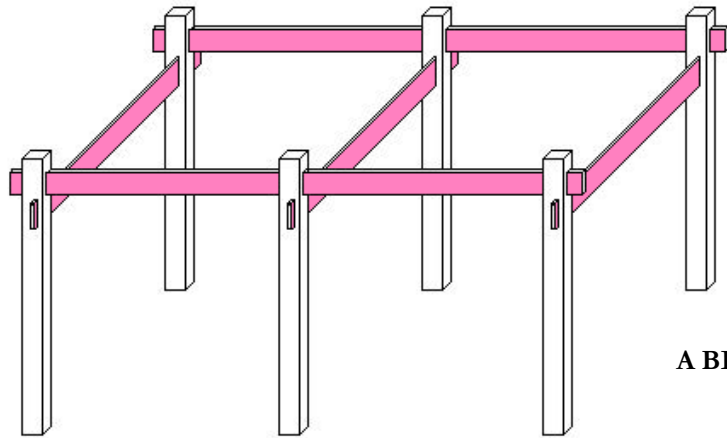


Attach remaining cross beams and top cross pieces with stainless steel powder coated beam brackets.

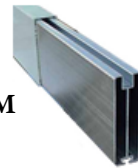


REINFORCED PERGOLAS

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 the 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'.



A BEAM



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

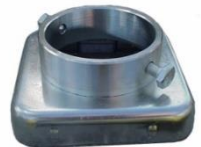
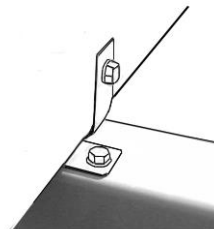
The filled beams allow for a large open area, and can be configured so the widest post spans are facing the most favorable direction.

Recommended for Residential Applications

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



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



Rail Connector

Rail Adapter

Post Adapter