

STEEL INSERT SYSTEM[®]

for

STRUCTURAL PERGOLAS



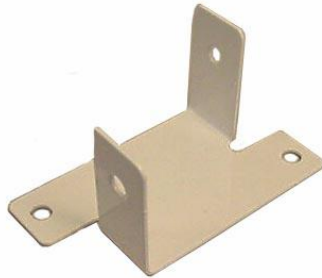
Post Adapter



Rail Adapter



Rail Connector



STEEL
STRINGER
BRACKETS



PERGOLA
CAPS



**SET 40 WT STEEL POSTS IN CONCRETE.
DETERMINE HEIGHT OF BOTTOM RAIL (CARRYING BEAM).
SET POSTS TO THAT HEIGHT. POSTS MAY BE CUT TO
HEIGHT IF NECESSARY.**

Determining post placement is critical to ensure material will fit and be the correct height.



INSTALL POST ADAPTERS
(12"± from top & bottom of post).



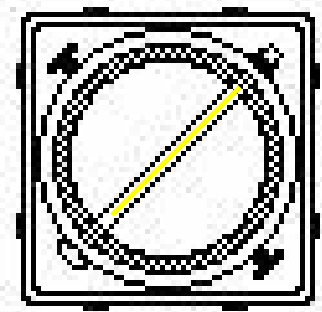
**ALIGN AND TIGHTEN
WITH SET SCREWS.**
Adapters should be fastened
to posts with Tek Screws.

*Confirm adapter placement before fastening to
ensure pvc post will fit correctly*





MARK 6" DOWN ON POSTS, DRILL 3/8" HOLES THROUGH POSTS. HOLES MUST BE DRILLED SO BOLT WILL FIT ABOVE CORNER OF POST ADAPTER. THIS WILL ALLOW ROOM FOR BOLT AND NUT TO FIT INSIDE OF PVC POST.



HOLES CAN BE PILOTTED WITH SMALLER BIT THEN ENLARGED.

INSERT RAIL ADAPTERS INTO POSTS



***ALIGN RAIL ADAPTERS
FOR ATTACHMENT TO
POSTS.***

DRY FIT RAILS INTO ADAPTERS FOR CORRECT ALIGNMENT.

SPREAD THE BRACKETS SLIGHTLY APART FOR EASIER RAIL INSERTION.



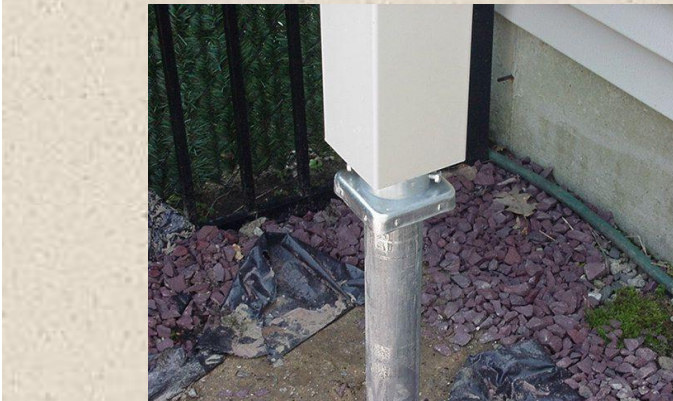
**KEEP RAIL IN
ADAPTERS
WHEN
PROCEEDING
TO THE NEXT
STEP TO
ENSURE
CORRECT
ALIGNMENT.**





**MARK HOLE
PLACEMENT ON
RAIL ADAPTERS
AND DRILL
THROUGH.
INSERT BOLT
AND FASTEN
WITH
NUT/LOCK NUT**





SLEEVE PVC POSTS OVER STEEL PIPES, ALIGNING ROUTED HOLES CORRECTLY. RAIL ADAPTER MUST BE LEVEL WITH OR SLIGHTLY BELOW THE BOTTOM ROUTED HOLE.

**SLIDE CARRYING BEAMS
THROUGH BOTTOM ROUTED
HOLES, HOLDING IN PLACE AS
CARRYING BEAMS ARE GUIDED
THROUGH POSTS.**



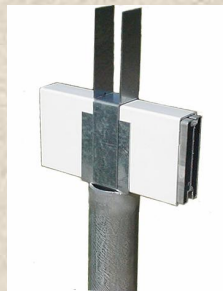
**ADJUST CARRYING BEAMS SO EQUAL
AMOUNT OVERHANGS POSTS.**



***ALL BEAMS MUST BE FILLED
WITH ALUMINUM OR STEEL.***



INSERT RAIL CONNECTOR INTO POST, OVER RAIL ADAPTER. FIT WILL BE SNUG. RAIL CONNECTOR FITS OVER RAIL ADAPTER. TOP OF RAIL ADAPTER IS LARGER TO ACCOMMODATE CROSS BEAMS.





SLIDE CROSS BEAMS THROUGH TOP ROUTED HOLE IN POSTS. ADJUST FOR EQUAL OVERHANG



ALL BEAMS MUST BE FILLED WITH ALUMINUM OR STEEL.

MARK PVC POSTS FOR 1" HOLE DRILLING. DRILL 1" HOLE (SPADE BIT RECOMMENDED) THROUGH PVC POST, BOTH SIDES.



DRILL 3/8" HOLE THROUGH ADAPTERS AND BEAM (DRILL SMALLER PILOT HOLE, THEN ENLARGE IF NEEDED). INSERT 3 1/4" BOLT INTO RAIL CONNECTOR, RAIL ADAPTER, AND CARRYING BEAM THROUGH THE 1" HOLE, FASTEN WITH LOCK NUT, TIGHTEN.





**REPEAT FOR CROSS
BEAM ATTACHMENT**



**INSERT BOLT
& NUT AND
TIGHTEN.**





**INSERT HOLE
PLUGS, SNAP INTO
PLACE.**



INSTALL REMAINING CROSS BEAMS

ALL BEAMS MUST BE FILLED WITH ALUMINUM OR STEEL, ATTACHED WITH STEEL STRINGER BRACKETS FOR METAL TO METAL CONNECTION.



INSTALL POST CAPS AND PERGOLA CAPS

INSTALL TOP CROSS TIES. OPTIONS: 1 ½" SQUARE WITH PYRAMID CAPS, 2" X 3 ½" WITH PERGOLA CAPS, SQUARE OR DIAGONAL LATTICE (REMOVAL IN WINTER RECOMMENDED)

