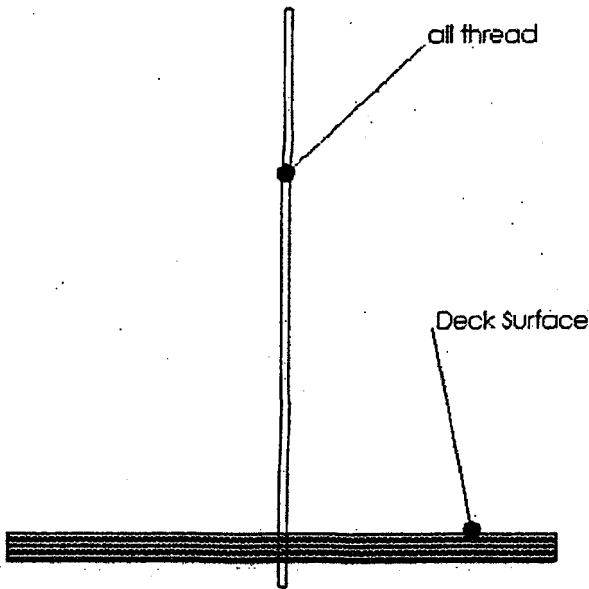


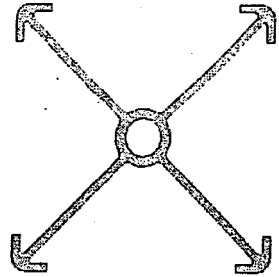
Standard Structural Post Installation Deck Mounting

Bill of Materials:

1. 36" or 42" aluminum structural post, Patent Pending
2. 39" or 45" PVC post 4' X 4" X 0.115 wall
3. 41" or 47" 1/2" all thread rod
4. 2- 1/2" flat washers
5. 2- 1/2" lock washers
6. 2- 1/2" nuts
7. 3- 3" X 3" compression plates
8. 2- leveling wedges

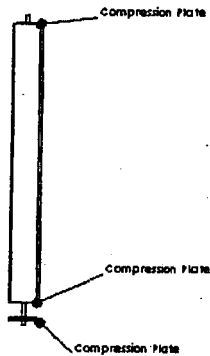
Step 1: Locate center of post to be installed. Cross brace a 2" X 6" board between the joists under the deck areas that the Structural Posts are to be mounted. Drill a 5/8" hole 4" deep through the deck and cross braces.



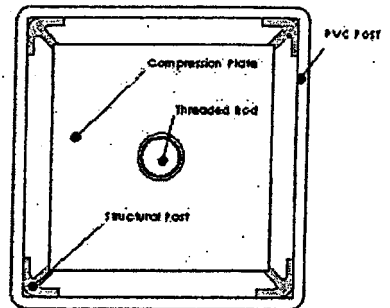


Step 2: Place the 3' X 3" compression plate squarely between the post assembly and the deck surface. Center the structural post assembly over the threaded rod and square up the assembly. Utilizing the wedges level the assembly. Place the 3' X 3" compression plate squarely over the threaded rod and seated on the top and under the deck cross brace of the assembly. Place the 1/2" flat washers over the threaded rod, followed by the lock washers and nuts. Securely tighten the nuts to place the assembly in as much compression as possible. Place the 4' X 4" PVC post over the structural post assembly.

Side View 10:1 Scale



Top and Bottom View of Post Assembly



Structural Post -> Assembly

Step 3: Place a skirt over the post, if desired. (not included). Pre-drill the holes for your mounting brackets through the PVC post and into the structural post. Mount the brackets with 1-1/2" thread cutting type 17 point screws. Mount your railing assembly to the brackets and continue this process until completed.