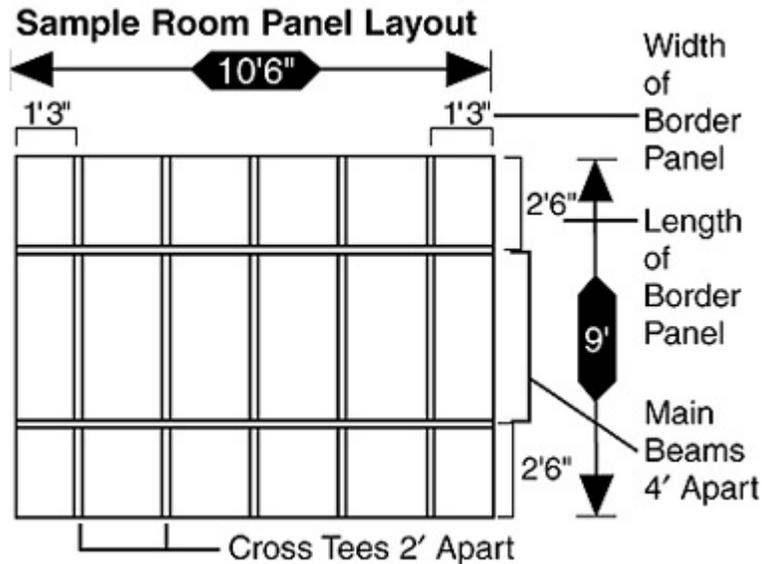


Sample Room Panel Layout

Determine Panel Layout

1. Determine length of border panels.
2. Determine width of border panels.



For best appearance, border panels should be the same size on the opposite sides of the room. Use your room dimensions and follow the formula in the worksheets below.

Sample Worksheets, using 2' x 4' panels in a 9' x 10' 6" room.

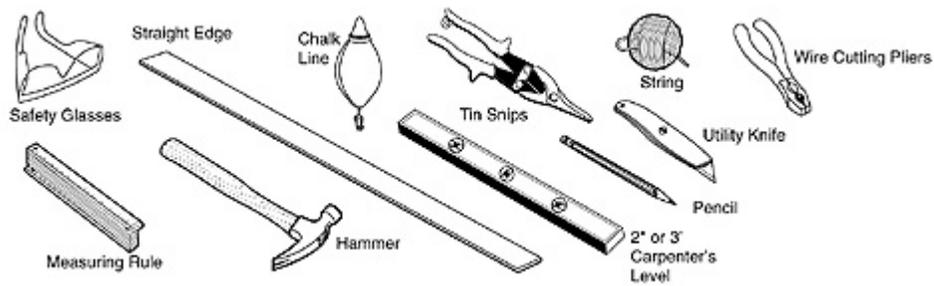
Determine Length of Border Panels	
1. Divide width of room by length of single panel.	$4 \overline{) 9}$
	$\underline{-8}$
2. Add the remainder ... to length of single panel.	$1' + 4'$
	$= 5'$
3. Divide it by 2 ...	$= 2'6''$
Length of the Border Panels is	2'6"

*use 2' for 2'x4' panel, 2' for 2'x2' panel

Determine Width of Border Panels	
1. Divide length of room by width of single panel.	$2 \overline{) 10'6''}$
	$\underline{-10}$
2. Add the remainder to width of single panel	$6'' + 2'$
	$= 2'6''$
3. Divide it by 2 ...	$= 1'3''$
width of the Border Panels is	1'3"

*use 4' for 2'x4' panel, 2' for 2'x2' panel

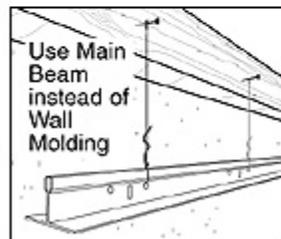
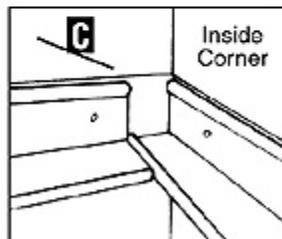
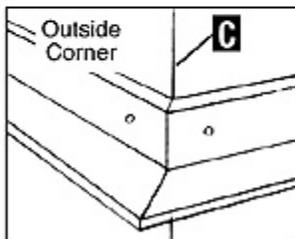
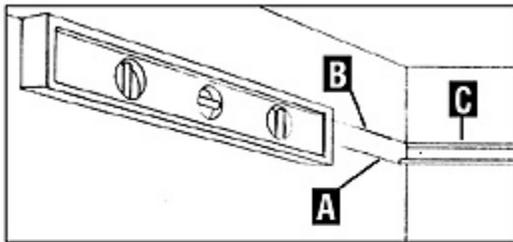
Tools needed to install your ceiling:



Three Easy Steps To Install Your Armstrong Ceiling

Step 1: Install Wall Molding

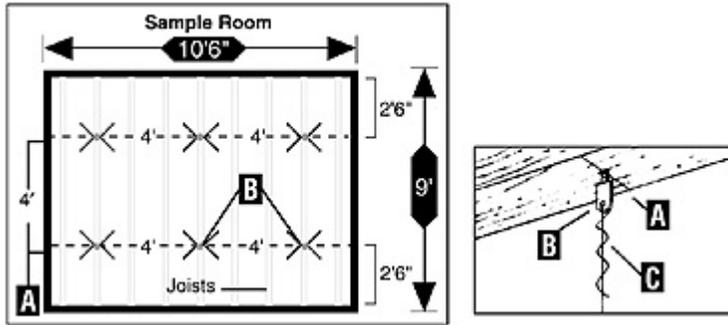
1. Mark height desired for new ceiling (A).
2. Add height of Wall Molding and mark a level line around 3 walls (B).
3. Snap a connecting chalk line on the 4th wall.
4. Nail Wall Molding to the wall studs (C).
5. If nailing molding directly to wall is not possible (for example, a solid concrete or stone wall), hang a section of main runner next to the wall as a substitute for regular wall molding.



Step 2: Install Suspension System

Install Fasteners and Hanger Wires:

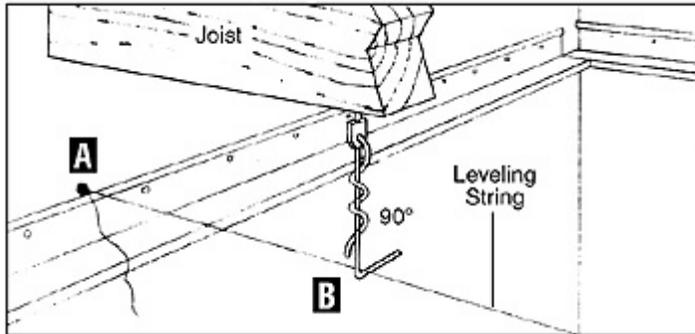
1. Snap Chalk Line for Main Beams 4' Apart (A).
2. Screw in Wire Fasteners 4' Apart (B).
3. Wrap hanger wire securely around itself 3 times (C).



NOTE: Add extra wires for light fixtures, one at each corner of the light.

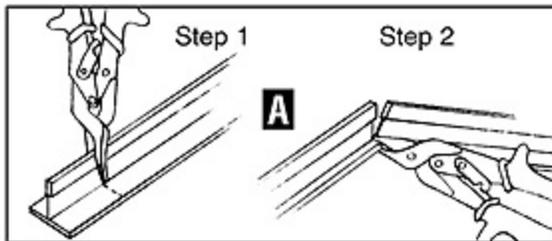
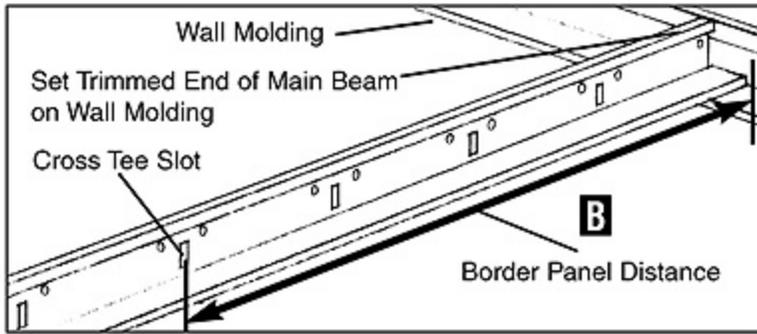
Pre-bend Hanger Wires

1. Measure up 7/8" from the bottom of the molding. Drive nail into wall just above molding.
2. Do the same on other side of room. Stretch a string from nail to nail along a row of wires (A).
3. Swing hanger wires over to string and bend each one at 90° where they touch the string (B). Stretch additional strings to pre-bend other hanger wires, to help level entire ceiling.
4. Remove Leveling String(s) after pre-bending wires.



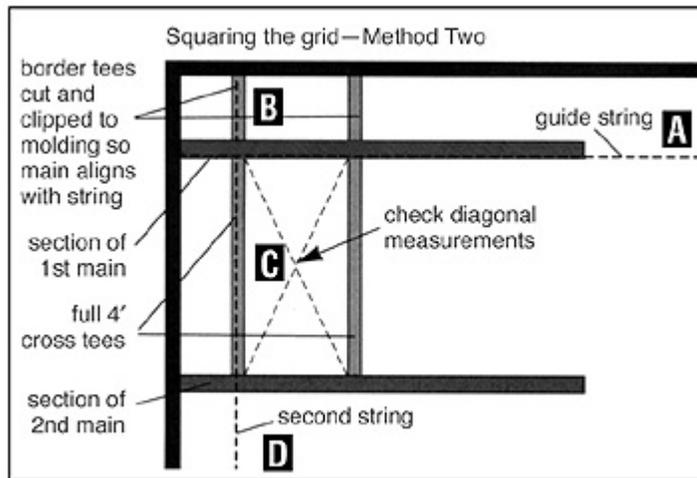
Trim the Main Beam

1. Trim end of first Main Beam (A) so that a Cross Tee slot on the Main Beam is the border panel distance from the wall (B).



Hang First Main Beam

1. Stretch a guide string from one end of the room to the other below the molding where the first main beam will hang (A). (illus. A)



illus. A

- 2.
3. Place the cut end of the main beam on the wall molding and insert a hanger wire in a hole near the other end of the main and wrap the wire around itself three times.
4. Insert the other wires into the main beam and wrap the wires around themselves three times.

Cut Border Cross Tees

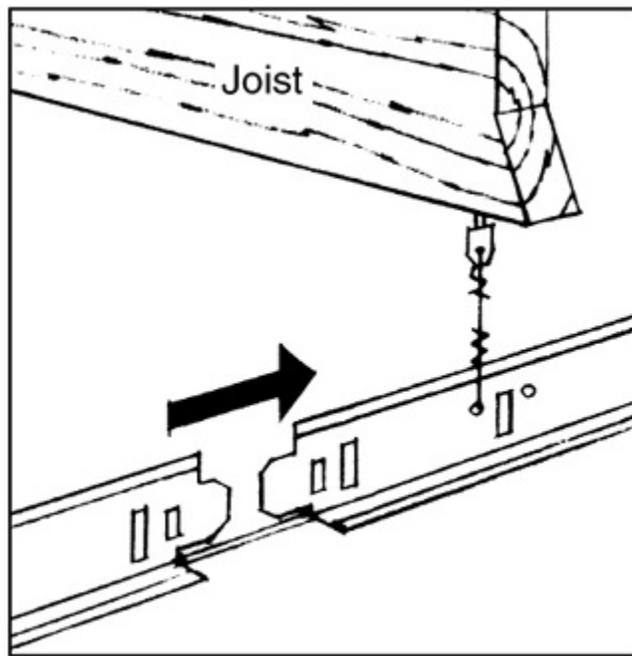
1. Find the location of the first border cross tee. (Border panel distance from end of main).
2. Place the end of the white face of the cross tee against the edge of the wall molding at the side and cut the cross tee where it crosses the guide string (B). (illus. A)
3. Insert the uncut end of the cross tee into the main and rest the cut end of the tee on

the molding

4. The far edge of the main should be directly above the string.
5. If you are using hook end cross tees, measure from the wall to the string and cut the cross tee to that length. The string will then line up with the near edge of the main.
6. Cut the second cross tee to length and insert it.
7. Temporarily fasten the tees to the wall molding so they do not move.

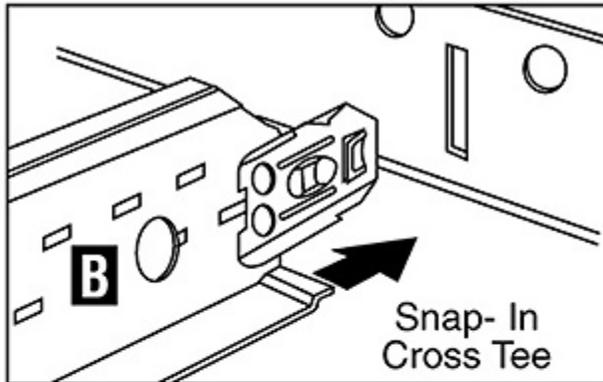
Squaring the Grid

1. Now install the first section of the second row of mains after cutting off one end so a cross tee slot is the border panel distance from the end.
2. Install two four foot cross tees between the two mains in line with the first two border tees (C). (illus. A)
3. Measure across the diagonals of the 2' x 4' opening. The measurements will be the same if the grid is square. If the measurements are not the same, shorten one of the mains until the diagonals are equal.
4. Complete the rows of mains joining the ends with the built-in splices. (illus. B)

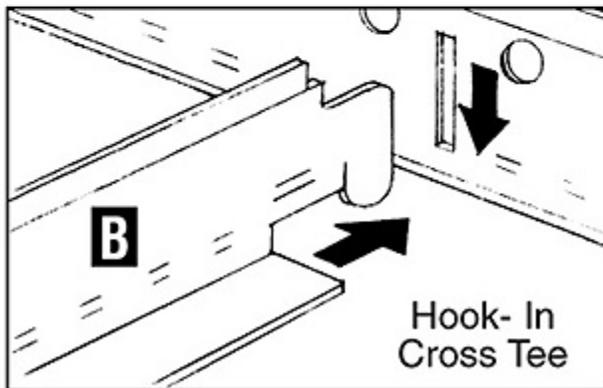


illus. B

5. Finish cutting border cross tees between the wall the first row of mains.
6. Use the leftover ends of the mains to start other rows of mains if your room requires them.
7. If you have additional rows of mains to install, stretch a second string from one side of the room to the other aligning it with the first 4 foot cross tee as shown (D). (illus. A)
8. This second string will be your guide for cutting the remaining rows of mains. Just measure from the end wall to the string to determine the distance for the first cross tee slot you will use.
9. You must line up cross tee slots for the grid to be square!



illus. C



illus. D

Install Grid

1. After the first section of main is installed in each row, and the grid is square, install the rest of the mains and cross tees. Use left over pieces of main to start succeeding rows of mains after cutting to align cross tee slots.
2. Measure and cut border cross at the other side of the room.

2' x 2' Installation

1. If you are using 2 x 2 panels, you need to lay out your grid differently.
2. Determine the size of your border panels from side to side.
3. Place the first main beam the border panel distance plus 2 feet from the wall.
4. Cut 4' cross tees to the wall and insert 2' cross tees between the 4' cross tees to establish the border panel openings.
5. Your main beams will then fall on 4' centers from that point.

Step 3: Install Panels

1. Lift panel at angle through grid; drop into place (A).
2. Trim border panels, cutting panel face side up (B).

