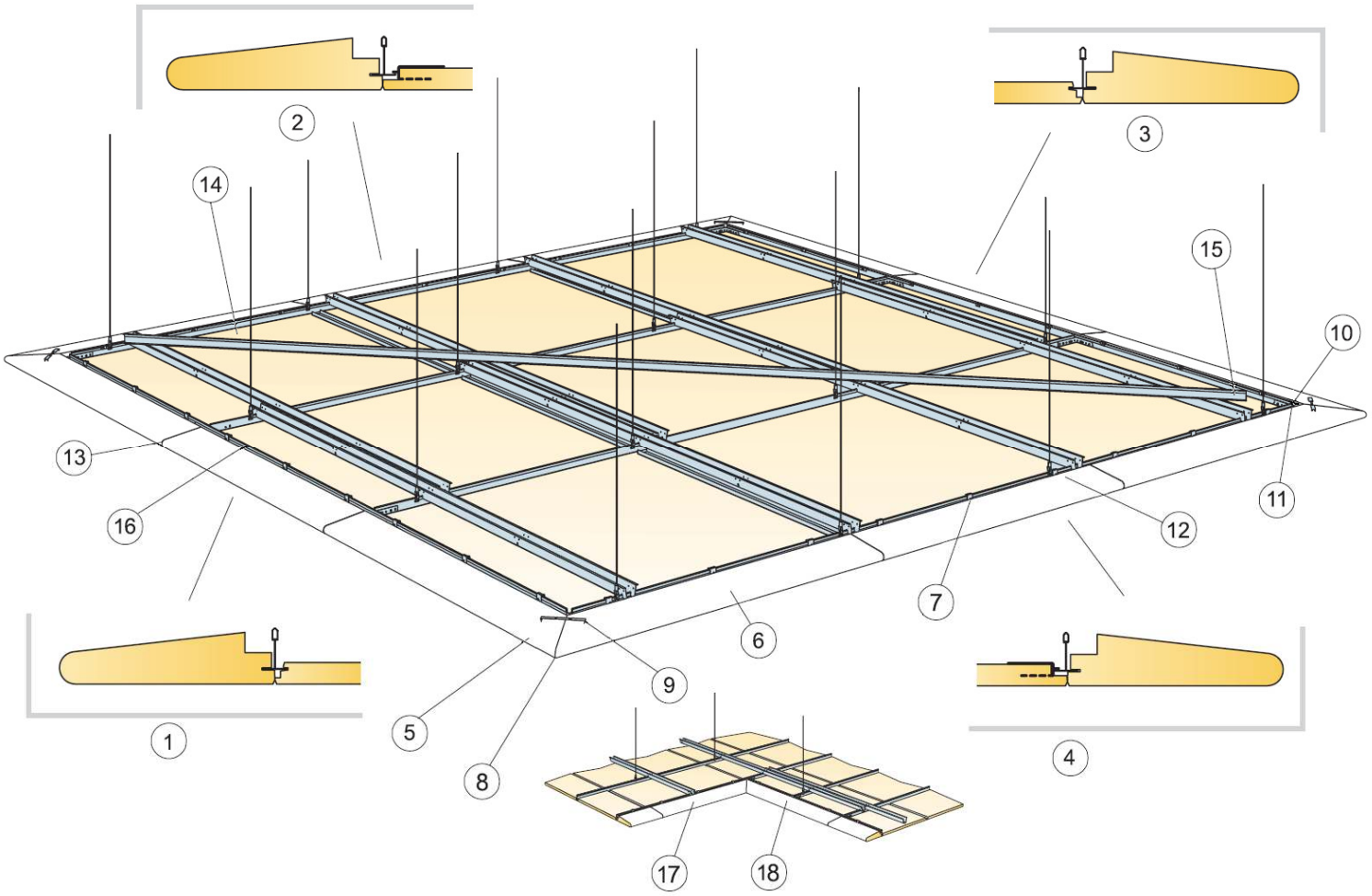
CertainTeed Ceilings

Ecophon® Focus™ Wing Installation Instructions



Install in conditions that do not exceed 70% relative humidity and 77-degrees F

Required Parts:

1,2,3,4. Focus Frost Wing Ds

5. Focus Wing Ds /external corner right

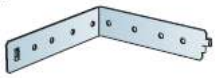
6. Focus Wing Ds /external corner left

7. Connect Wing Cantilever

8. Connect Spline 0219

9. Connect Hook 0666

10. Connect L-coupling 1040



11. 1/2" Self-tapping screw (By others)

12. Connect Installation screw MVL 4005

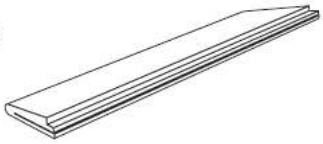
13. Connect Wing Distance 0650

14. Focus Ds system with 15/16" Main runner on all four sides

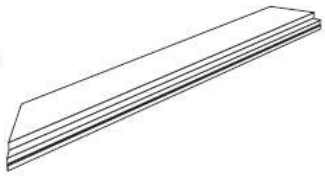
15. 15/16" Main runner for bracing

16. Connect Support clip Dg20 0547

17. Focus Frost Wing Ds /internal corner right



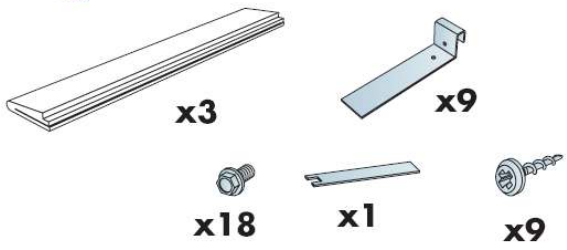
18. Focus Frost Wing Ds /internal corner left



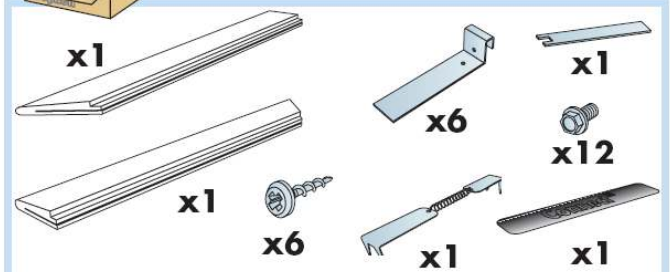
Packaged Parts (available kits)

(Note: there are parts required for Focus Wing assembly that are not included in these kits)

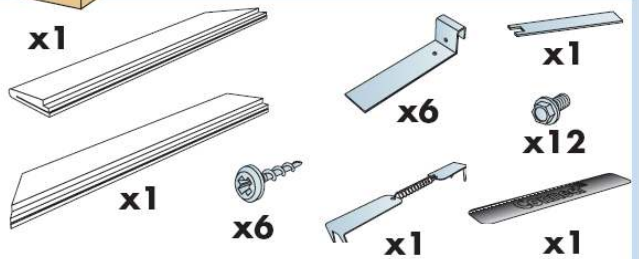
Kit Ds



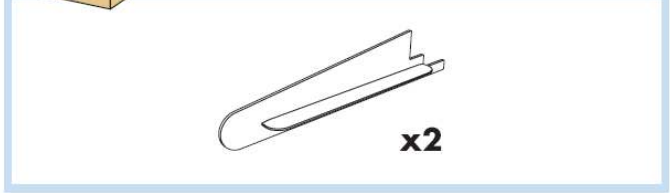
External Corner Kit Ds



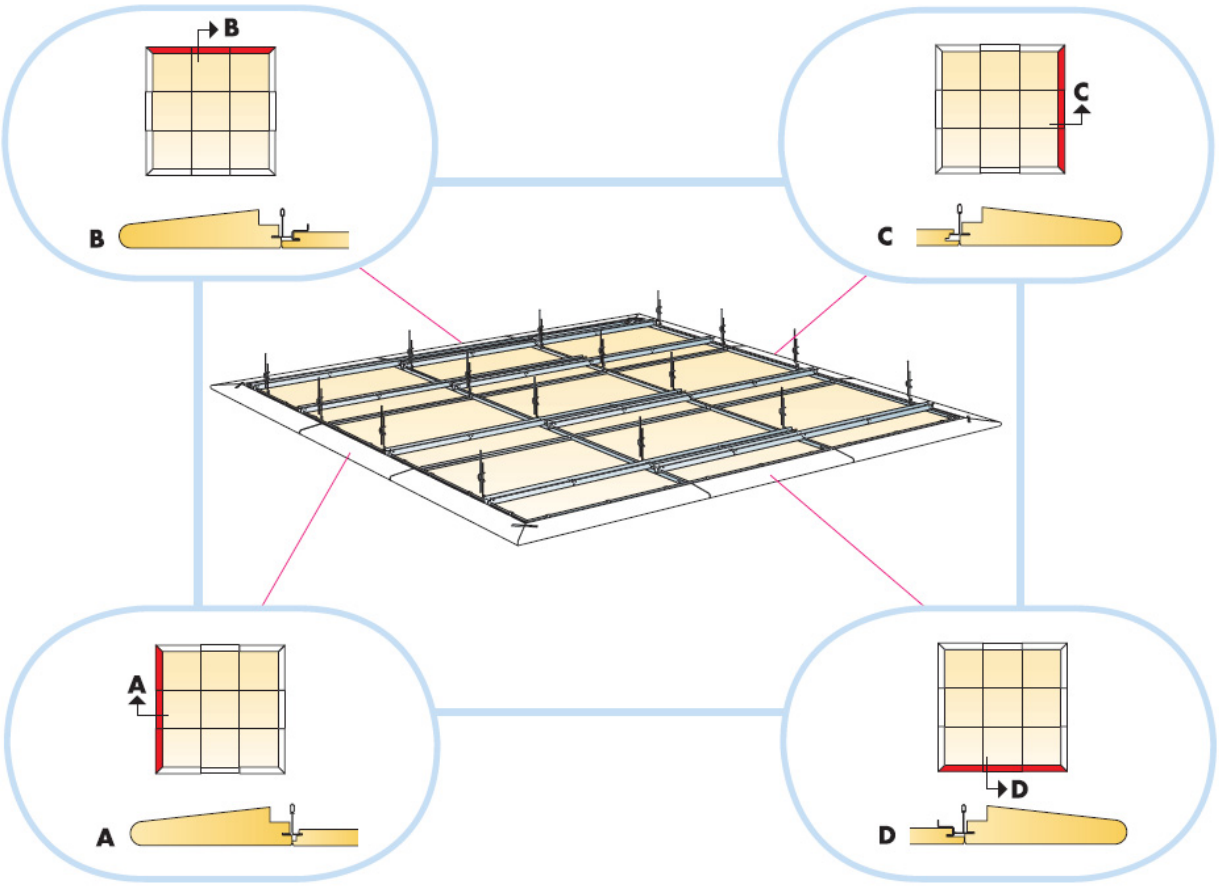
Internal Corner Kit Ds



Connect Wing Distance Ds

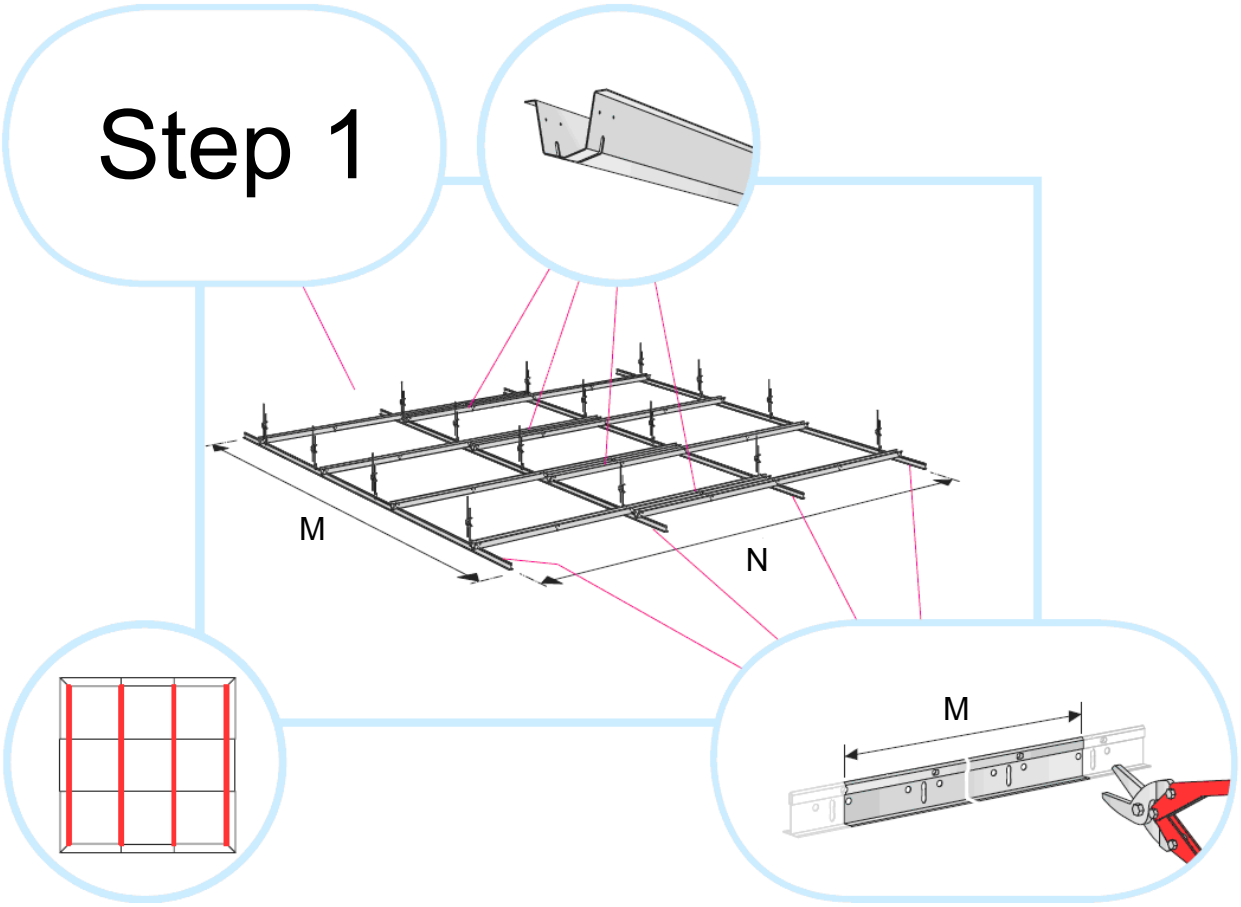


Focus Wing Finished Cloud



Pre-Installation: *Note that the following instructions incorporate installing Focus Wing with Focus Ds 4'x4' Panels. Focus Wing, like Focus Ds and Focus Dg, has a finished surface that is 1/2" below the grid.* ***Focus Wing is an extremely precise system and the tolerance is near zero. The grid system must be square and level.***

Installation Instructions:



Step 1: Assemble the Suspension System (Illustrated Above)

A. Install Hangers

- Install main runners (4' on center).
- Pull a string line along the path that the first main runner will take.
- Hangers should be placed a minimum of every 48" along the main runners as illustrated above.

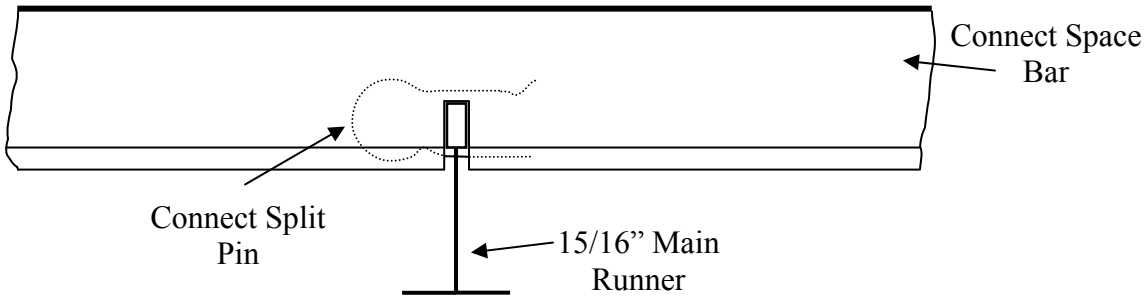
B. Install the first 3 (three) main runners (For smaller clouds, assembly of the suspension system can take place on the floor)

- Install the first section of main runner.
- Attach the main runner to wire.
- Repeat for the next two sections of main runner. (Be sure that the cross tee slots in all the main runners line up, or the Connect Space Bar will not install).

C. Install Connect Space Bar (Space Bars replace cross tees in this system)

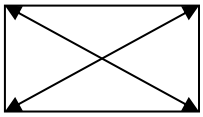
- Establish the location of the first Space Bar. (Max distance of 24” from end of the cloud.)
- Place the Space Bar on top of the four main runners, and insert Connect Split Pin through the cross tee slot (see D).

D. Each main runner should be pinned as illustrated below:



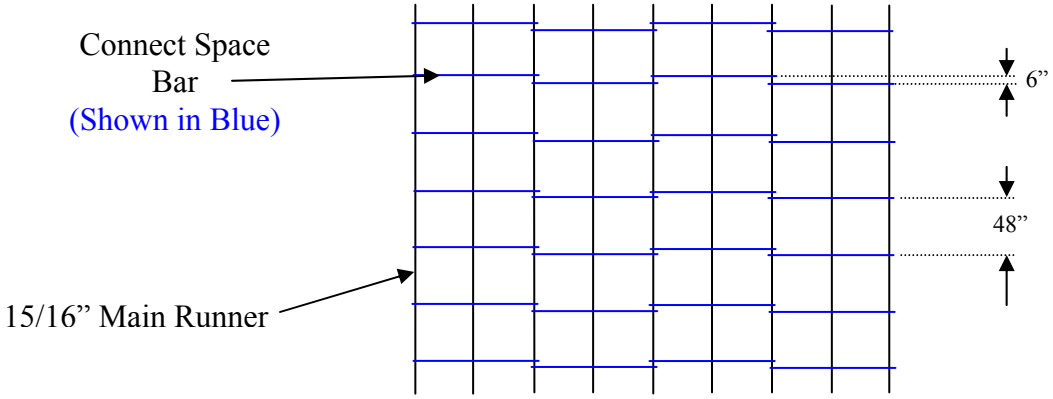
E. Square the grid system

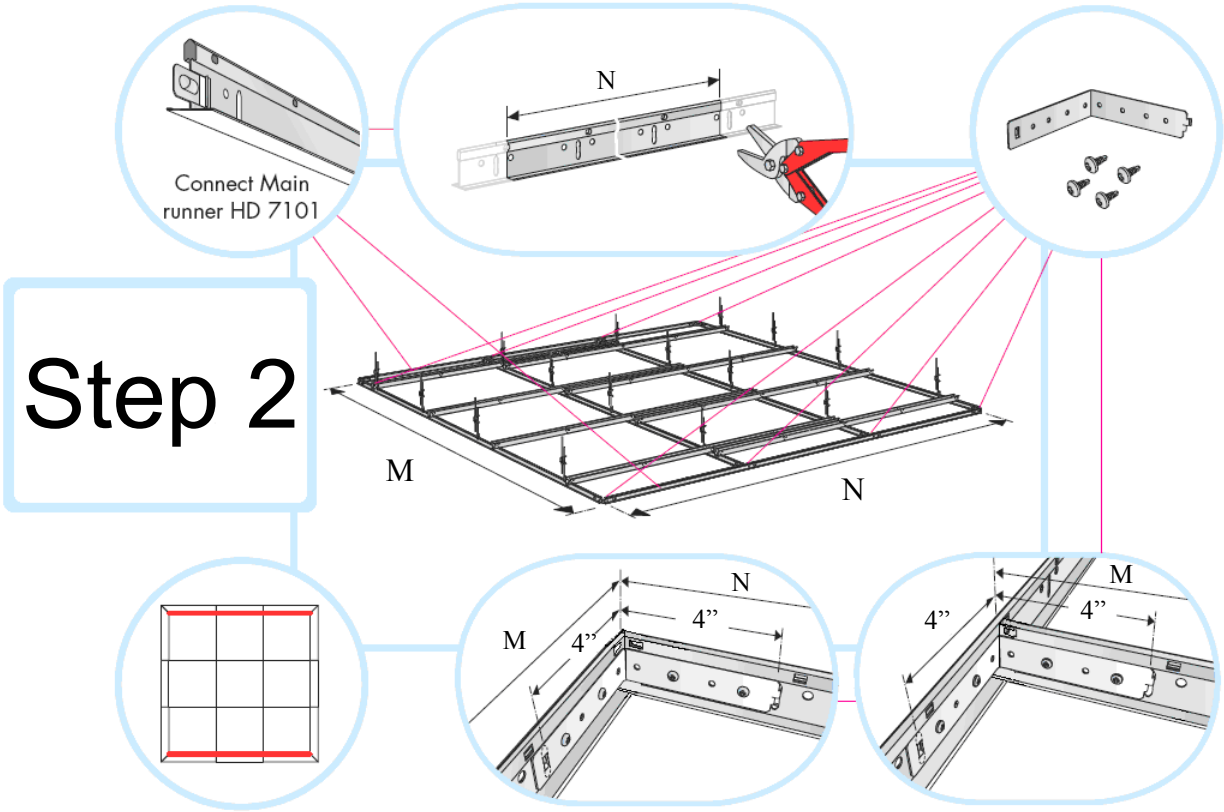
- Check to see if the system is square by measuring diagonally across the opening between the main runners. The measurements should be the same if the system is equal.



F. Repeat Steps C-E until the entire suspension system is installed.

Note: Space bars are 8’2”. They are installed 48” on center in the field, and should not be installed directly above a panel joint. Space bars in parallel runs should be staggered 6-inches to the next cross tee slot, so they can be properly pinned. (Illustrated below)





Step 2: Add Perimeter Main Runners

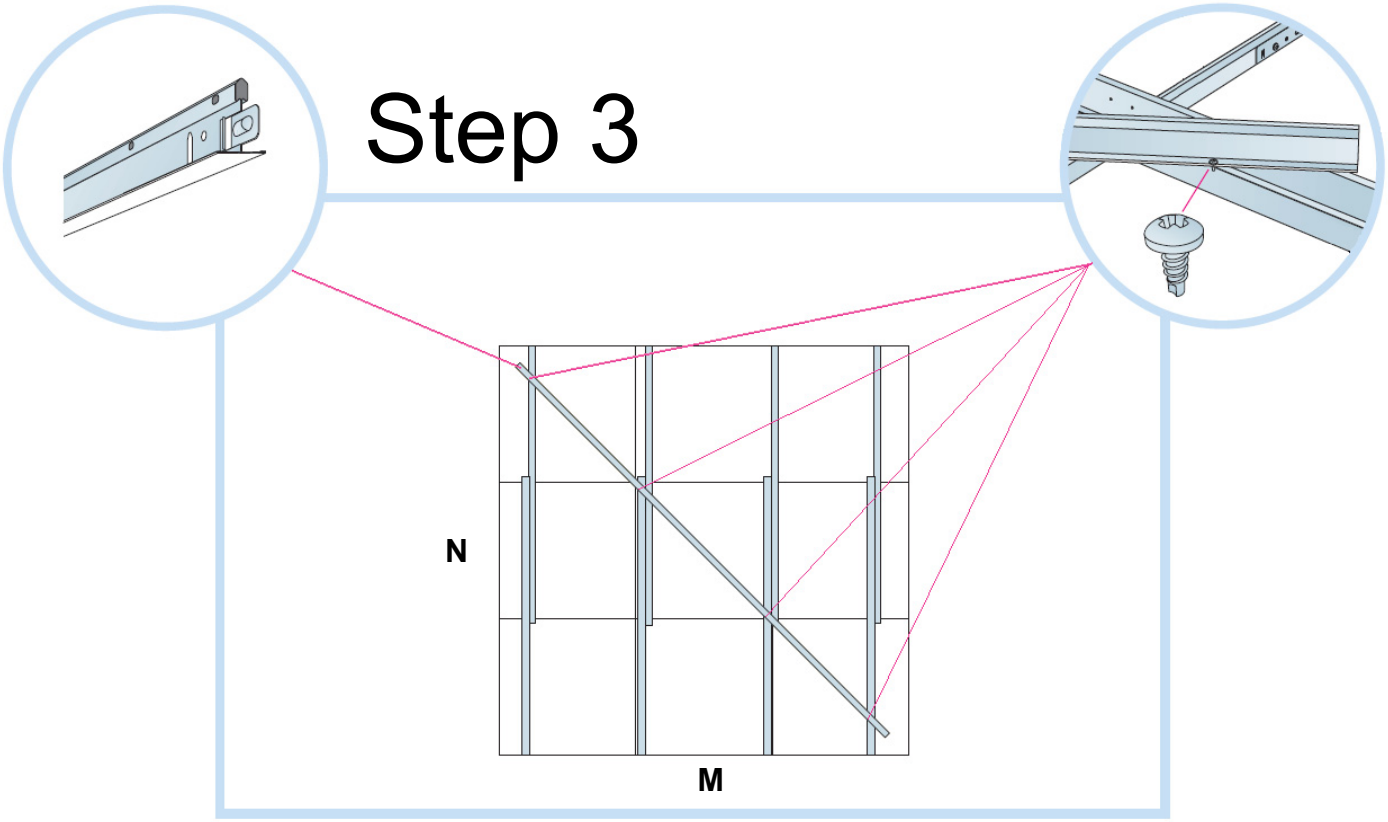
Perimeter mains need to be cut to allow access of a full-sized panel at the edge of the interior cloud field (shown in red above).

A. Check Measurements

- Main runners should be used to complete the cloud along both “N” sides.
- Main runner “N” should be measured and cut (on slot), so that the suspension is sized to facilitate full-sized panels, and so that there is enough to overlap main runner “M”.

B. Install L-couplings (4”x4”) using 1/2” self-tapping screws (by others) to hold the cloud together. Install L-couplings wherever the perimeter main runner intersects a field grid member.

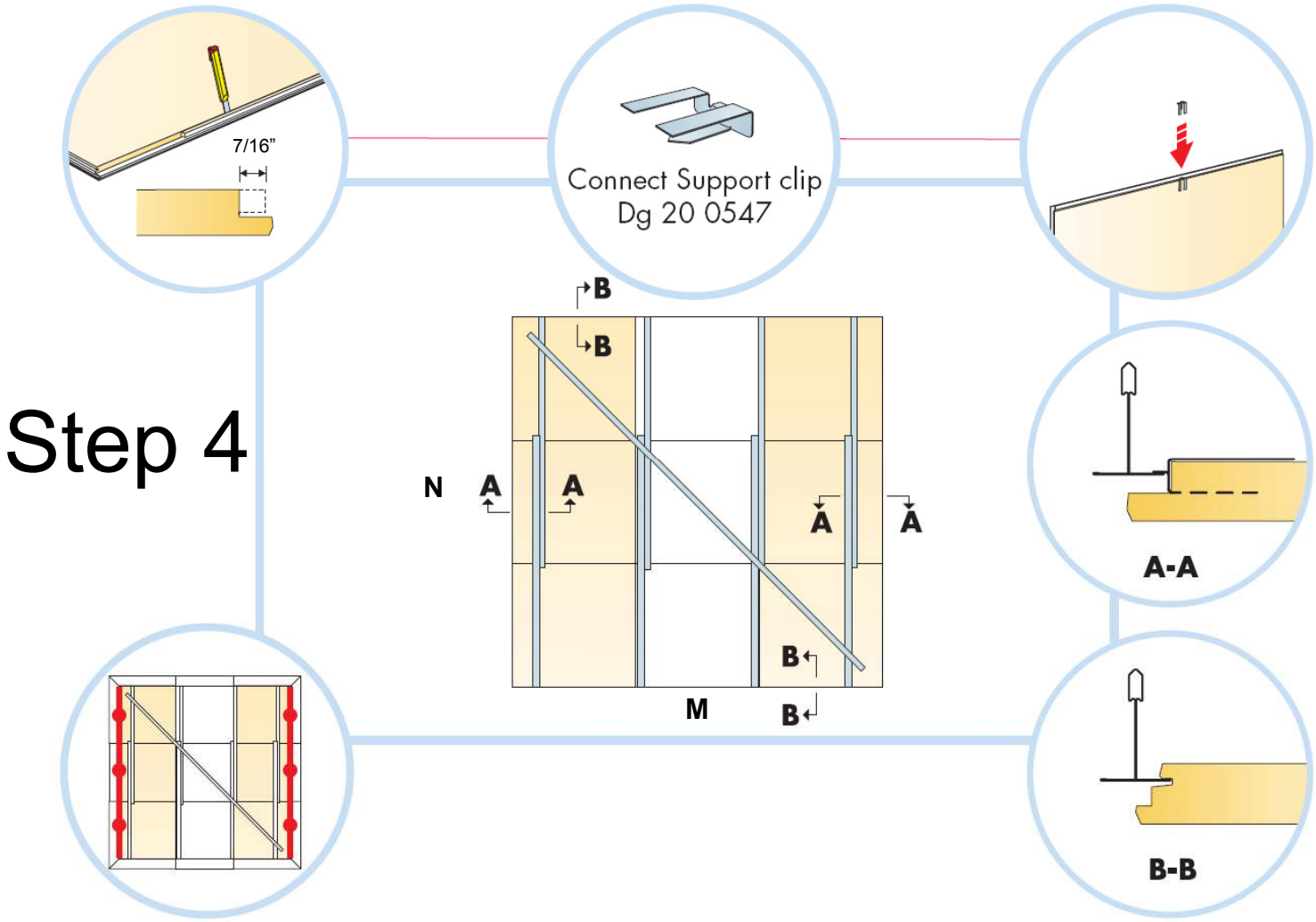
- **The use of L-couplings is extremely important. They inhibit the perimeter main runner frame from rotating under the weight of the Wing.**



Step 3: Bracing

A. Make sure that the suspension system is square, and then lay a piece of main runner or wall angle diagonally across the space bars. Be sure that the bracing member contacts as many space bars as possible.

B. Check for square. Once the suspension system is square, use self-tapping screws to fasten the bracing member to the space bars. This action should stop the main runners from moving, and as such, hold the system in-square.



Step 4: Install Panels

A. Install non-perimeter field panels

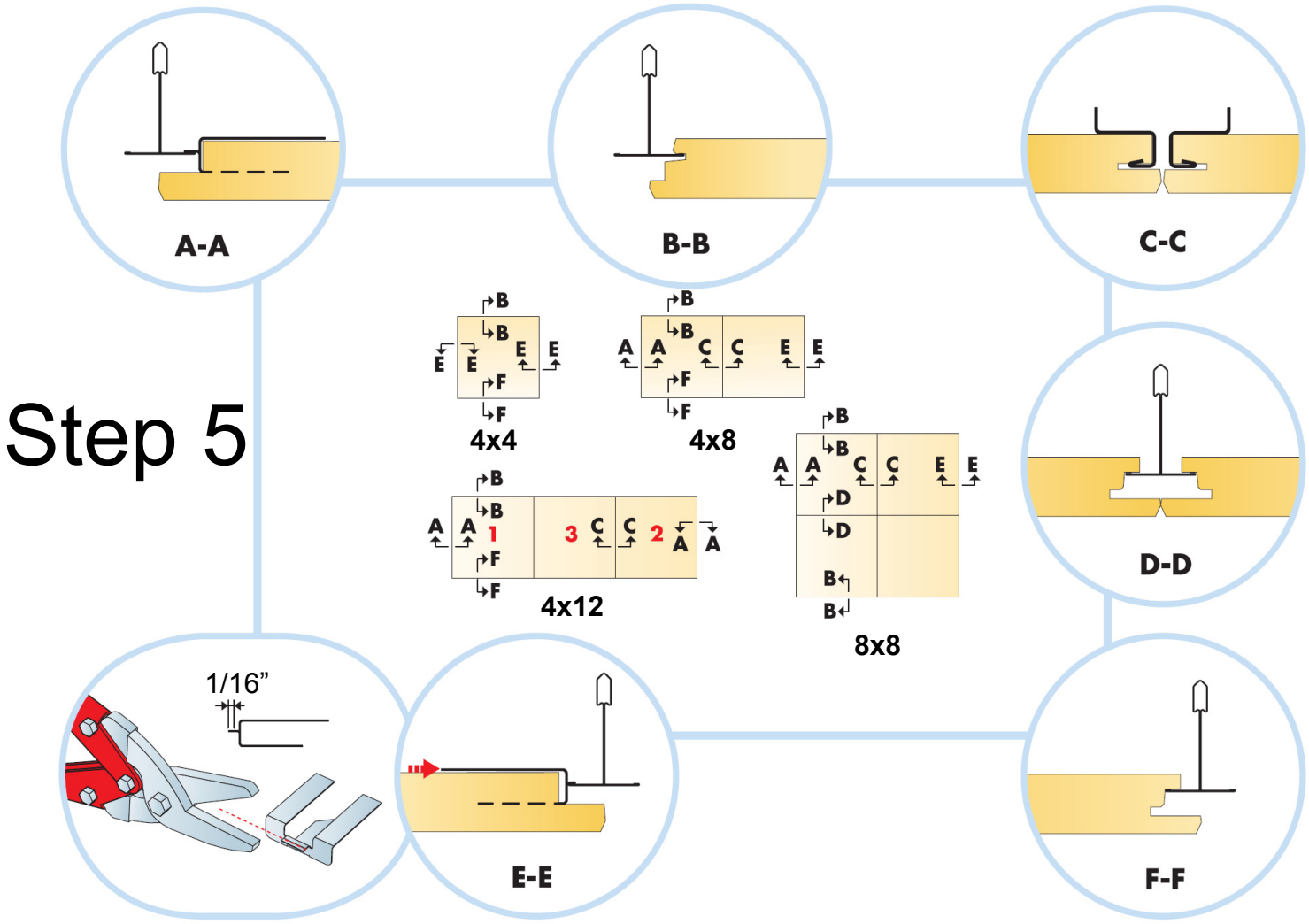
- For installation instructions for particular panels, please consult www.certainteed.com.

If you are installing any panel other than Focus Ds 4’x4’, you can install every panel in the field and move on to Step 6. If you are installing Focus Ds 4’x4’, follow the directions below.

B. Install any perimeter panels that border on “M”, but not border “N”.

C. To install Focus Ds 4’x4’ perimeter panels along edge “N”, cut 7/16” off the non-supporting edge that will face the perimeter main runner. (Illustrated above)

D. To install panels that border on “N”, see Step 5 on page 9.

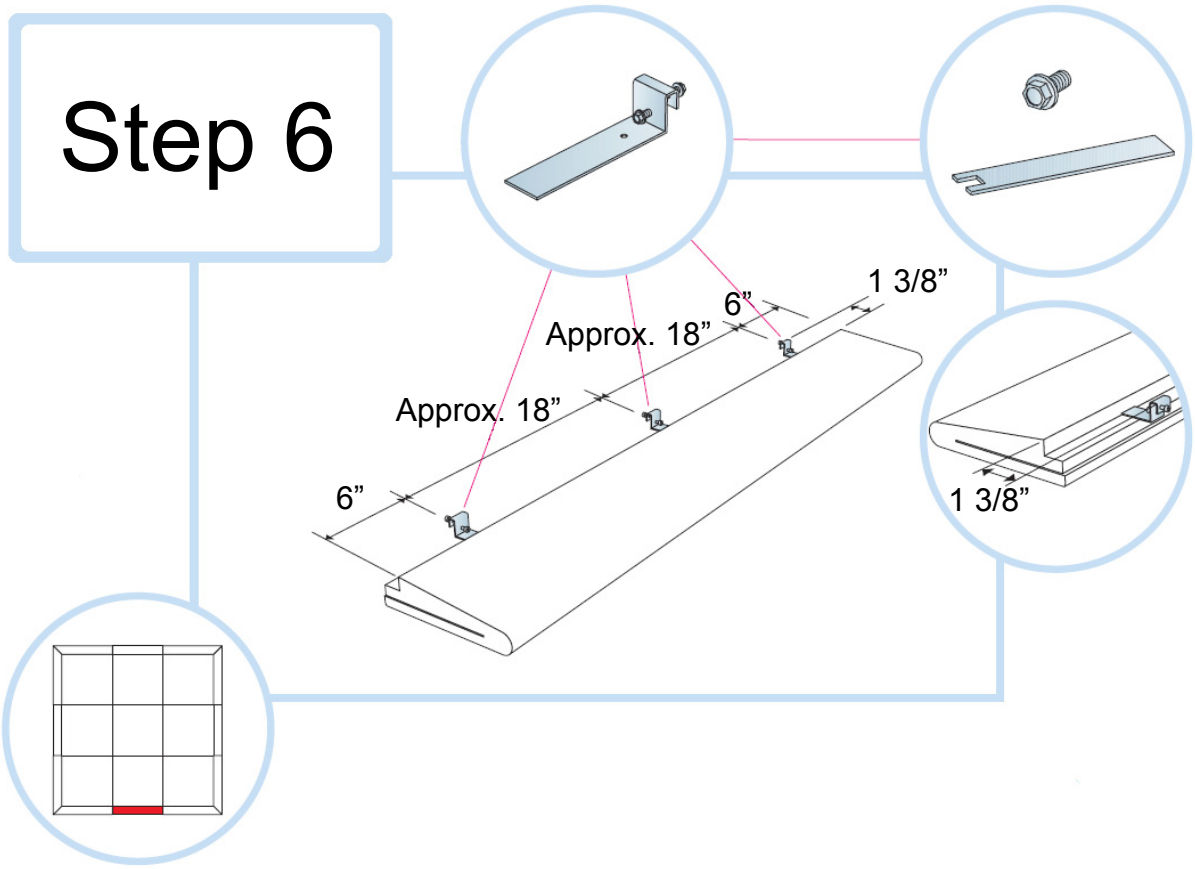


Step 5: Install Perimeter Panels

A. Cut 1/16” off the horizontal tab on the Connect Support Clip DG20 0547 as illustrated above.

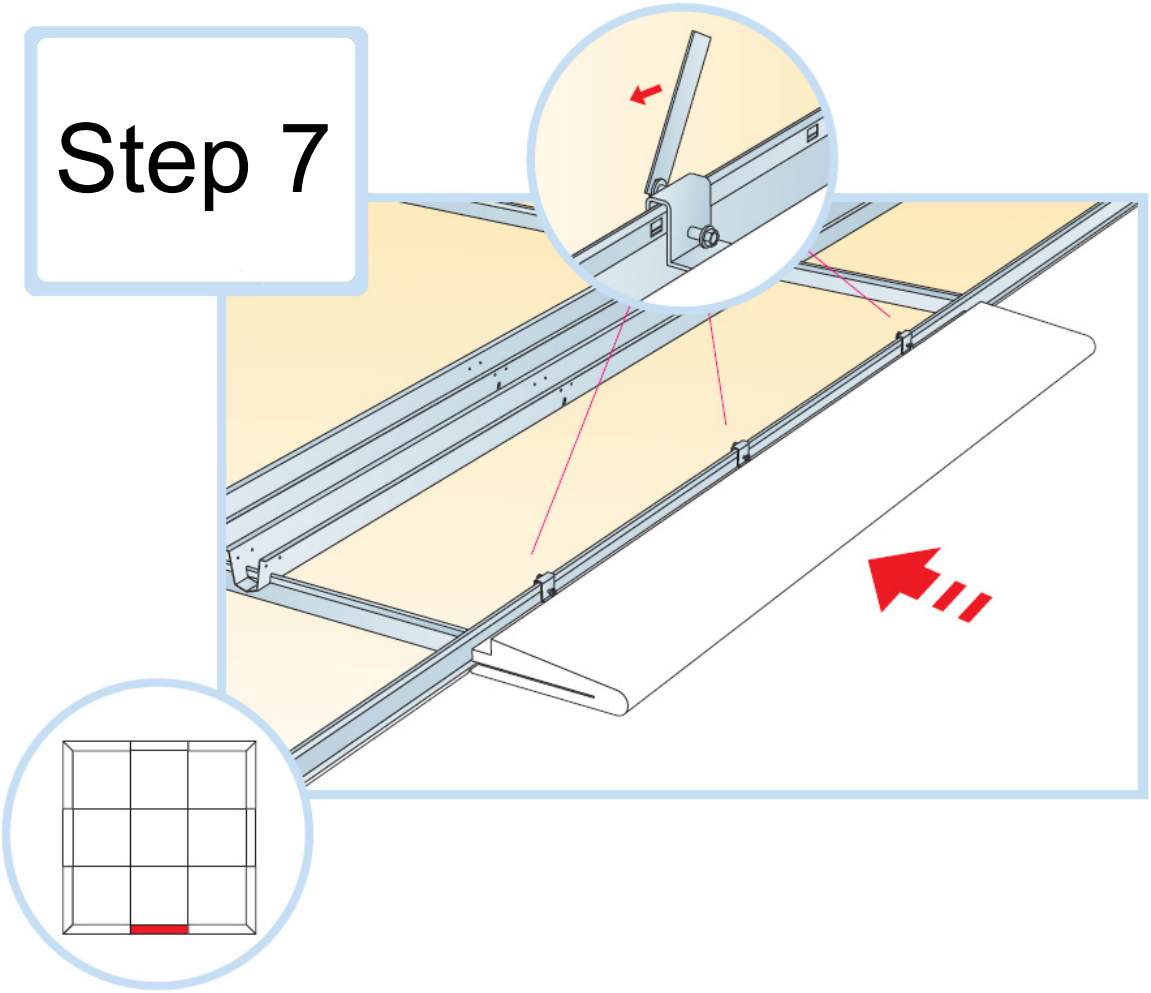
B. Install the Connect Support Clip into the panel at the mid-point of the non-supporting edge, and then install the panel.

C. Once the panel is installed, push the Connect support clip toward the main runner until it stops. (Illustrated above) This will prevent the non-supporting edge from sagging.



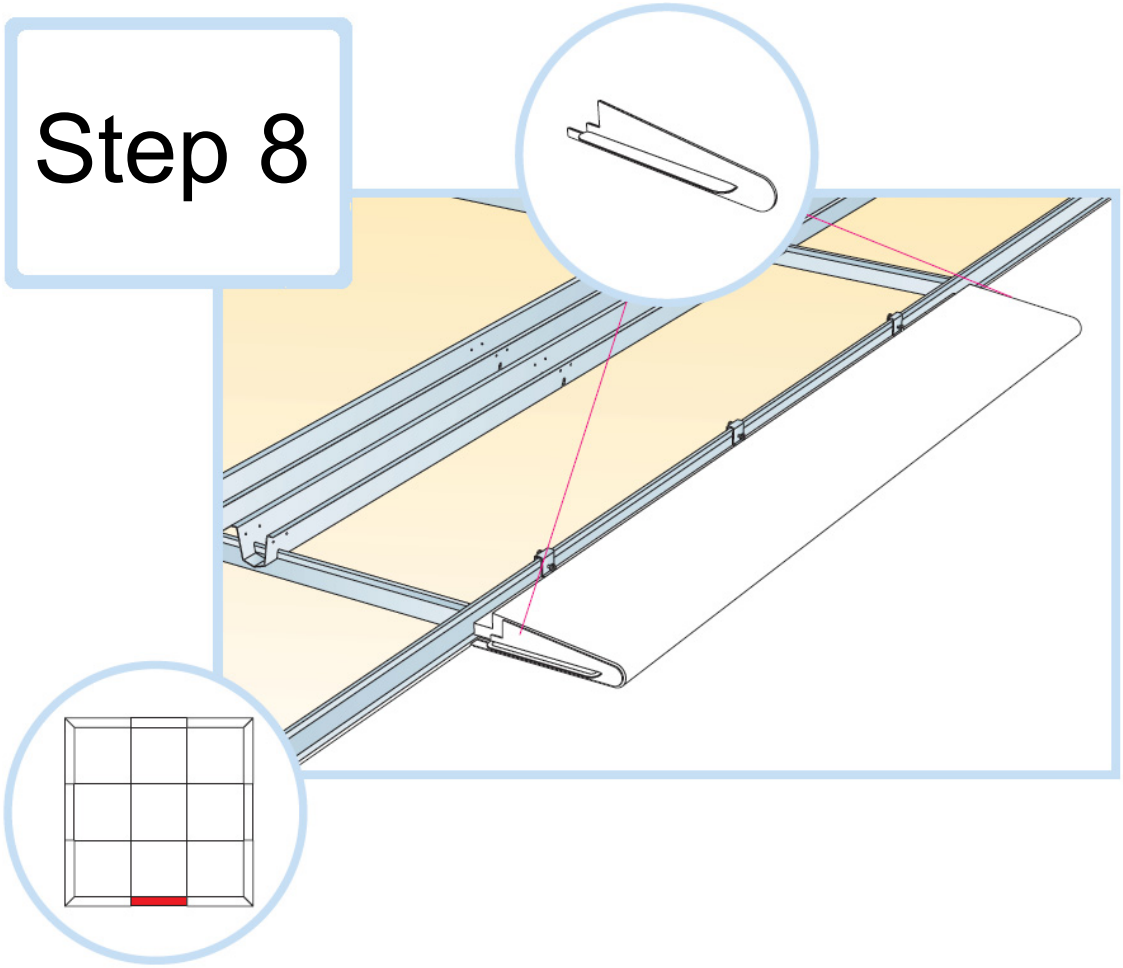
Step 6: Straight Focus Wing Panels

A. Install 3 (three) Connect Wing Cantilevers into each straight panel and corner panel as illustrated above.



Step 7: Install Straight Focus Wing Panels on the Grid

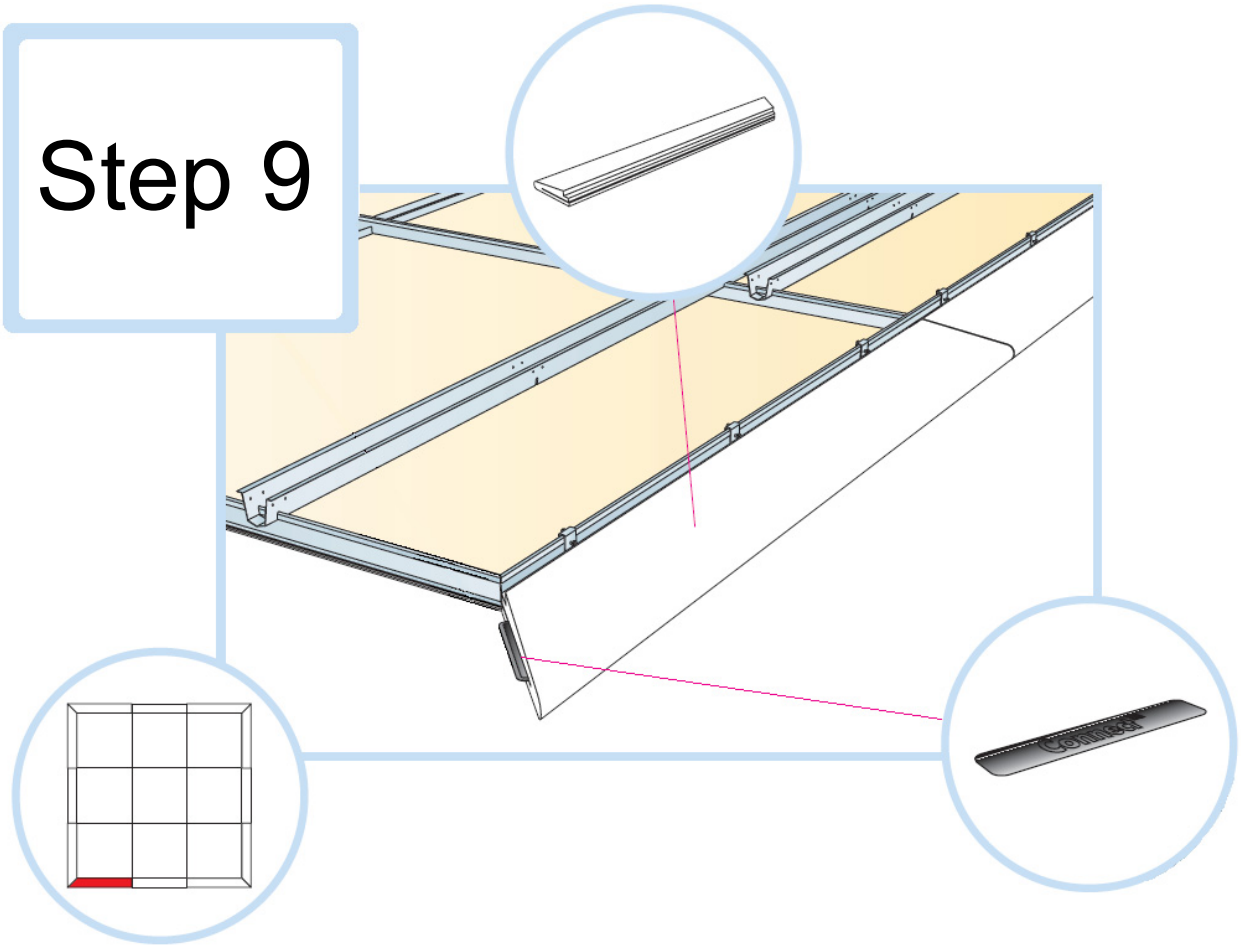
A. Install Wing panels onto the main runner frame, and tighten both cantilever placement bolts on each cantilever until the surface of the wing panel is level with the surface of the field panels.



Step 6: Install Connect Wing Distance 0650

It is imperative to include Connect Wing Distance 0650 in any Focus Wing installation, as they not only provide support, but also complete the 4' modular dimension that is Focus Wing.

A. Install Connect Wing Distance into the Wing panels by inserting one flange into the panel.

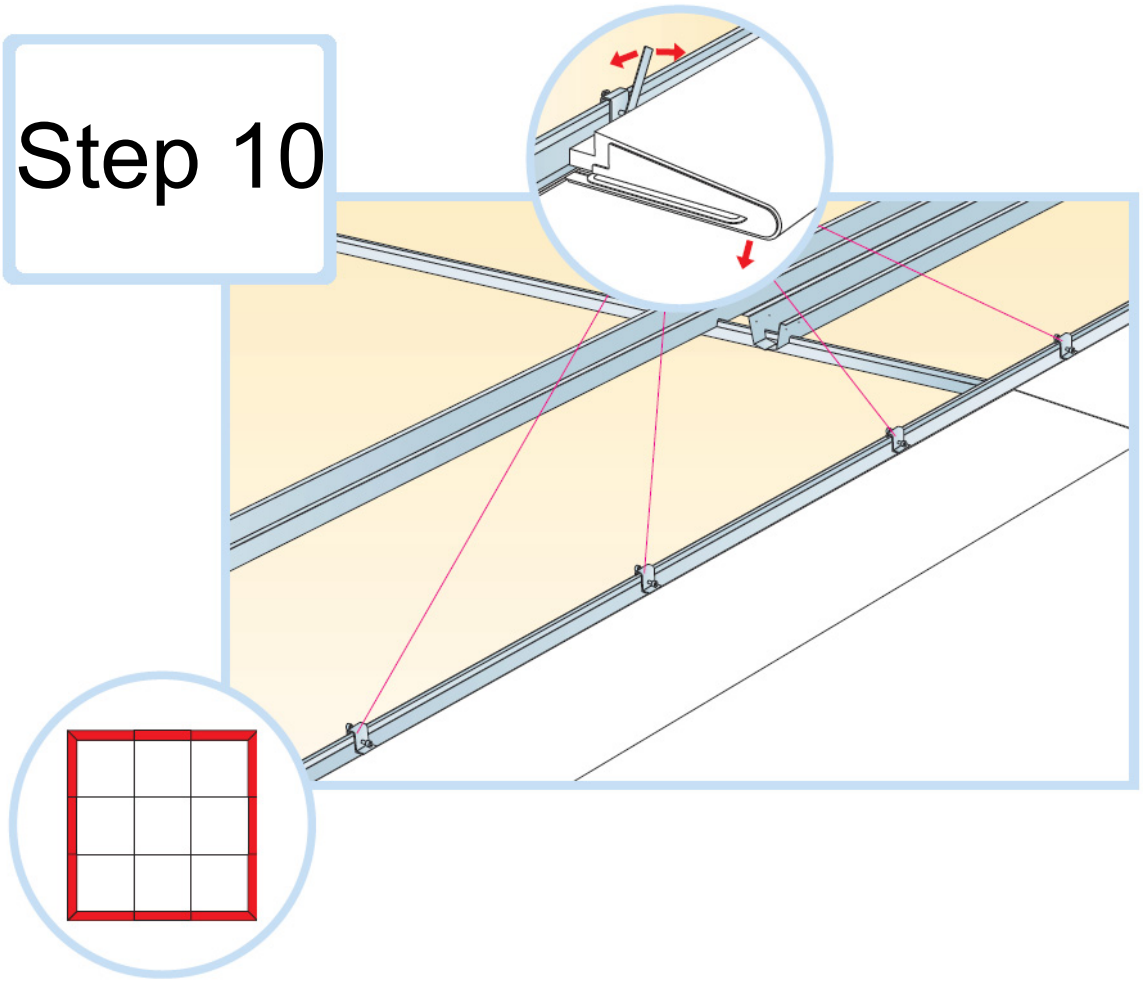


Step 9: Install Wing Corner Panels

A. Install the Connect Wing corner panel onto the grid and into the Wing Connect Distance 0650. Tighten both cantilever placement bolts on each cantilever until the surface of the wing panel is level with the surface of the field panels. Insert a Connect Spline 0219 into the angled edge of the corner panel.

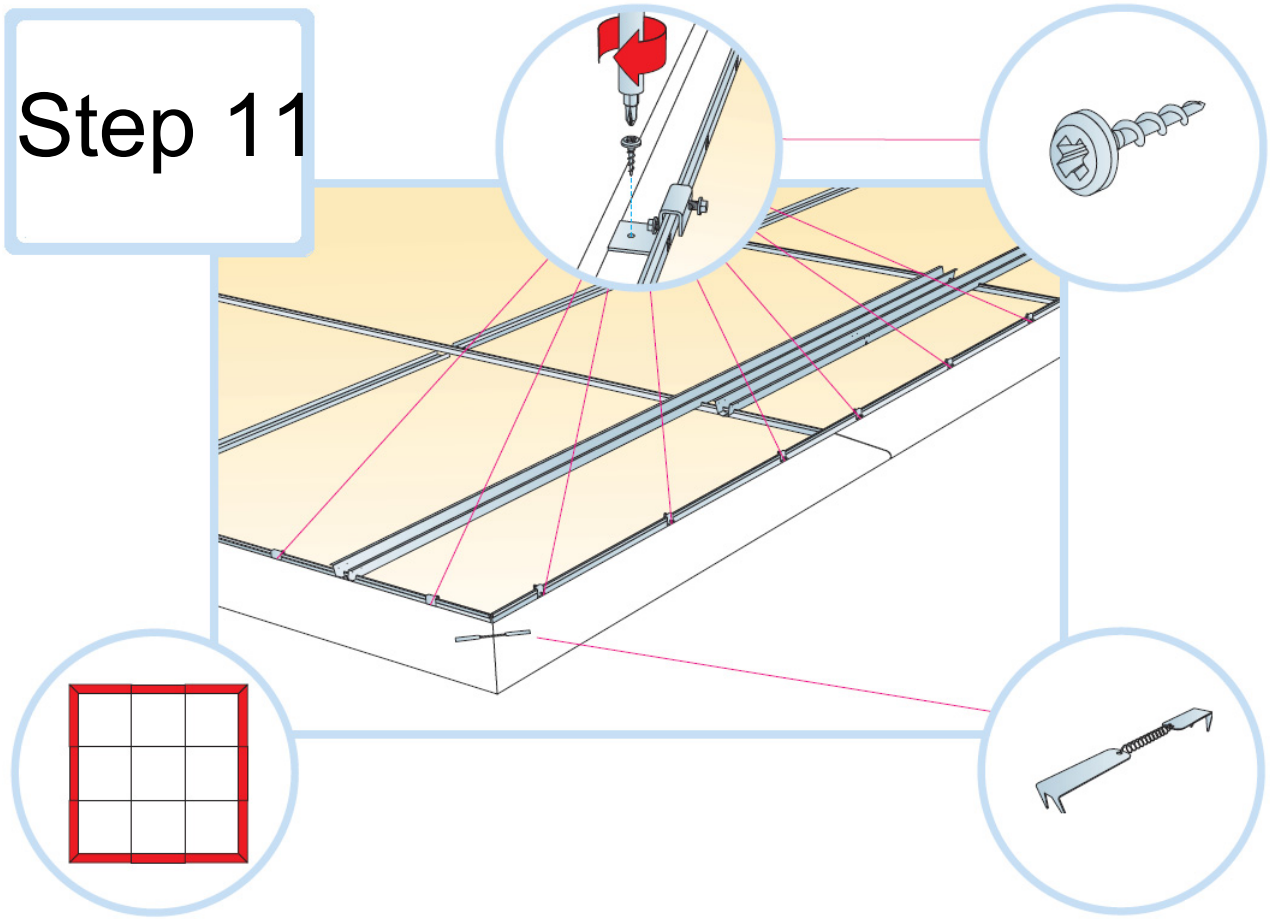
B. Install the next corner panel.

C. Install the remaining Wing panels until the entire cloud is completed.



Step 10: Adjust Cantilever Bolts

A. Tighten/loosen any cantilever placement bolts as required to level the surface of the Wing panels with the field panels.



Step 11: Install Cantilever Screws & corner panel Connect Hooks

A. Install Cantilever screws as illustrated above to stop lateral movement.

B. Install Connect Hooks 0666 at corner panels as illustrated above.

FOR PRODUCT AND INSTALLATION QUESTIONS:

- Call 1-800-233-8990 (Monday-Thursday: 7:30 am-6:30 pm; Friday: 7:30 am-6:00 pm EST); English, Spanish and French speakers available. Or email ceilingstechnicalservices@certainteed.com.

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