

Experience, Above All™

FeltWorks®

Open Cell

Design Guide

Armstrong®
World Industries

Emphasize with Kitted Dimensional Looks

With FeltWorks® Open Cell, you redefine the visual plane while adding acoustics to interiors. Available in ready-to-install kits that provide custom looks and depth to your space.

- · Reduce noise and define spaces
- High sound absorption 0.80 NRC (E-400 Mounting)
- · Install kits individually or interlink for wall-to-wall visual
- Part of the Sustain® portfolio; meets the most stringent industry sustainability compliance standards today
- 15 standard colors
- No need to field-finish cut edges with color throughout panels

FeltWorks Open Cell Peaks & Valleys panels







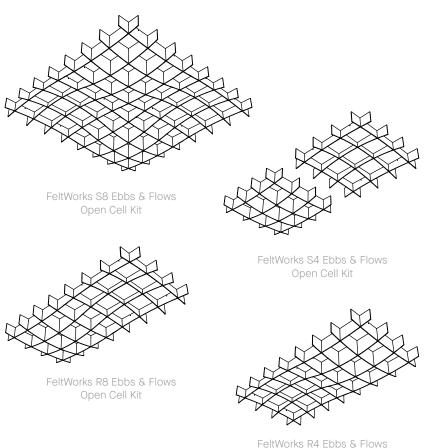
FeltWorks® Open Cell Ebbs & Flows panels in Smoke and Tangerine



Drama with Dimension

FeltWorks® Open Cell kits are available in 3 designs: Ebbs & Flows, Peaks & Valleys, and Rectangular panels (6" or 12" depths).

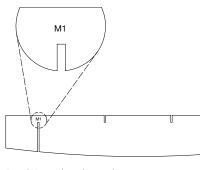
Multiple kits layout sizes are available for each design: $96" \times 96"$, $48" \times 96"$, $96" \times 48"$, and $48" \times 48"$. The kits can be installed as individual square or rectangular clouds or interlinked to create a wall-to-wall installation.



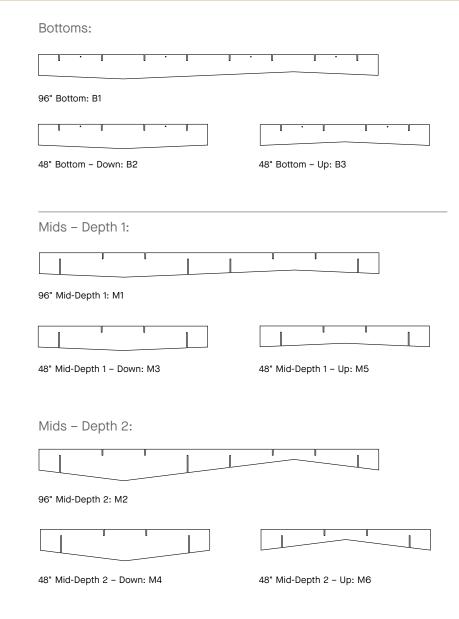
Panel Identification Numbers

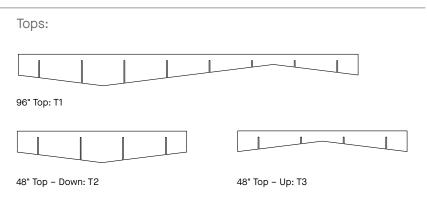
FeltWorks® Open Cell kits are made up of 3 different types of panels: Bottoms, Mids, and Tops. The difference between these panels is the direction their slots go in and the order they get installed – Bottoms get installed first, then the Mids, and lastly the Tops.

Each panel will have a 2-digit ID number which includes a letter (B, M, or T) to designate between panel type, along with a number printed in line with the furthest most left factory-cut slot of the panel. Use this numbering system in conjunction with your layout plan to determine the correct orientation of panels in your overall design.



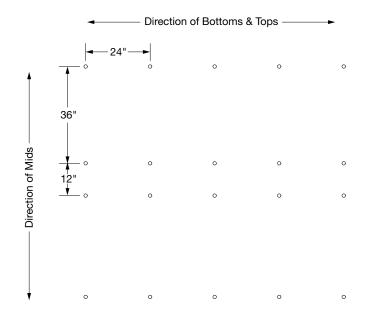
Panel ID numbers located on the left-most slot



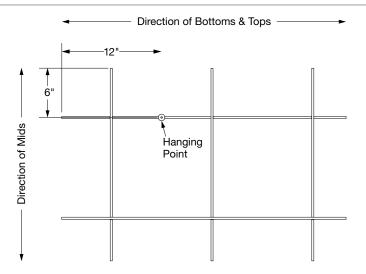


Hanging Points

Hanging points will always be 24" O.C. in the direction of the Bottom & Top panels. They will be a pattern of 36" and 12" in the other direction – parallel to the Mids.

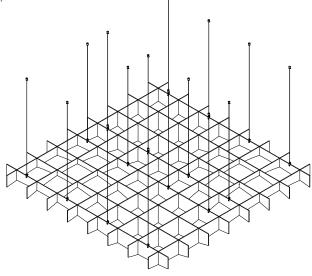


Make sure the hanging point starts 12" or more from the wall in the direction of the Bottoms and Tops and 6" or more away from the wall in the direction of the Mids. Open Cell panels, once installed, will hang past those hanging points.



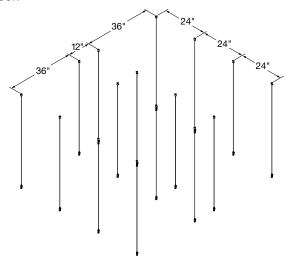
Cloud Installation

Open Cell installations are made of three different types of panels: Bottoms, Mids, and Tops. The difference between these panels is the directions their slots go in and the order in which they get installed.



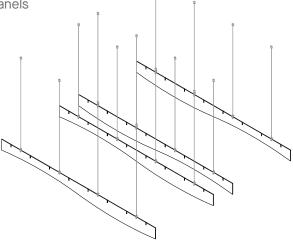
FOUR KEY STEPS TO INSTALL OPEN CELL KITS:

STEP 1: Attach Hanging Kits to Deck

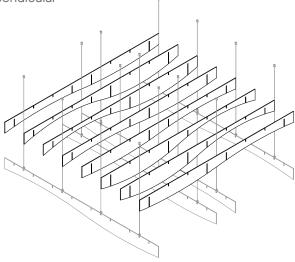


Cloud Installation

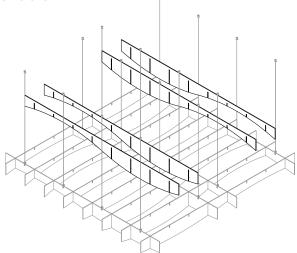
STEP 2: Attach Bottom Panels to Hanging Kits



STEP 3: Insert Mids Perpendicular to Bottom Panels

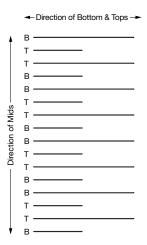


STEP 4: Insert Top Panels Parallel to Bottoms

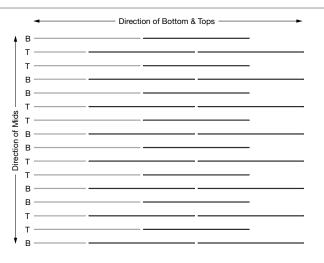


Wall-to-Wall Installation

Start at one end of the installation area and alternate between 8' and 4' panels every other row. The pattern of panels in this direction is Bottom, Top, Top, Bottom.



Next, fill in the rest of the field with 8' panels, still following the pattern of Bottom, Top, Top, Bottom.

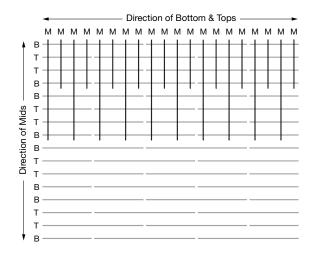


Fill in 4' panels at the other end of the installation. Still keep in mind the pattern of Bottom, Top, Top, Bottom.

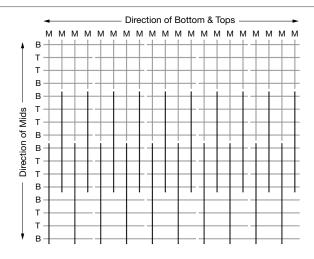
		■ Direction of Bottom & Tops					
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Wall-to-Wall Installation

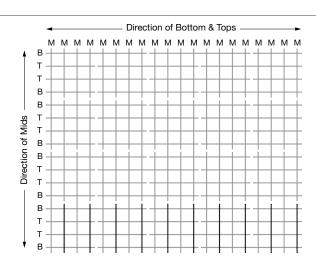
Next, start at the top of the installation and lay out the Mids perpendicular to the Tops and Bottoms alternating 8' and 4' panels every other row. It should be only Mids in this direction.



Fill in the rest of the field with 8' Mids.

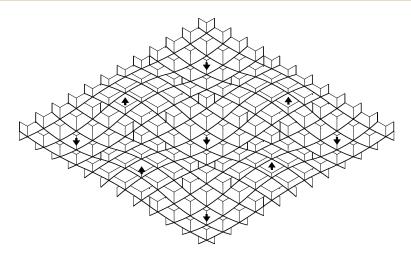


Lastly, place 4' Mid panels to fill in the end of your installation.



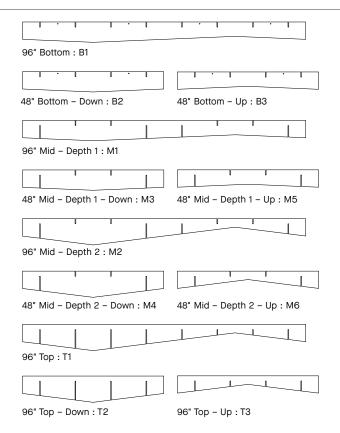
Panel Orientation

In both Peaks & Valleys and Ebbs & Flows installations, it's important to keep the correct depth panels in line with one another so the pattern design looks correct. For example B1, B2, and B3 panels will always be installed in the same row as one another. They will never be in the same row as a different type of panel. Similarly M1, M3, and M5 panels will always be in the same row; M2, M4, and M6 panels will always be in the same row; and T1, T2, and T3 panels will be in the same row.

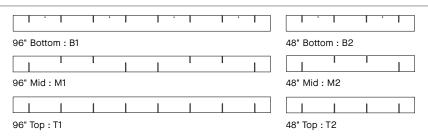


Refer to the key below – which shows the different types of panels that should go in the same row as one another.

8'	1	↓ 4'
B1	B2	ВЗ
M1	МЗ	M5
M2	M4	M6
T1	T2	Т3

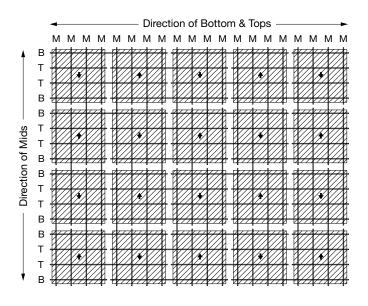


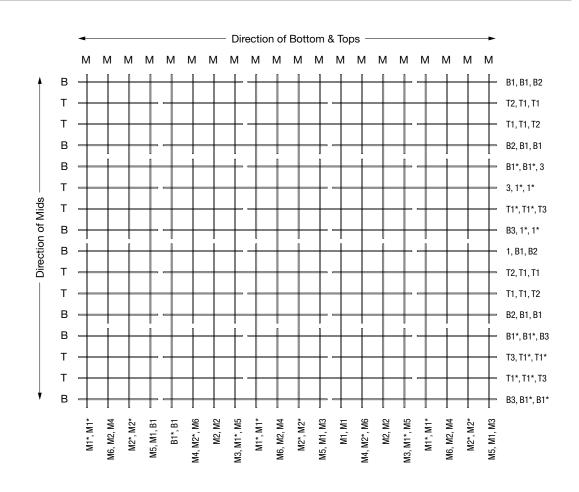
In Rectangular installations, B1 & B2 panels will always be installed in the same row, M1 & M2 panels will always be in the same row, and T1 & T2 panels will be in the same row.



Panel Orientation: Ebbs & Flows and Peaks & Valleys

With Ebbs & Flows and Peaks & Valleys kit installations, keep in mind the up and down pattern when laying out your panels. Panels with an asterisk next to them need to be flipped 180 degrees during installation to make sure the up and down part of the panel are in the correct orientation.

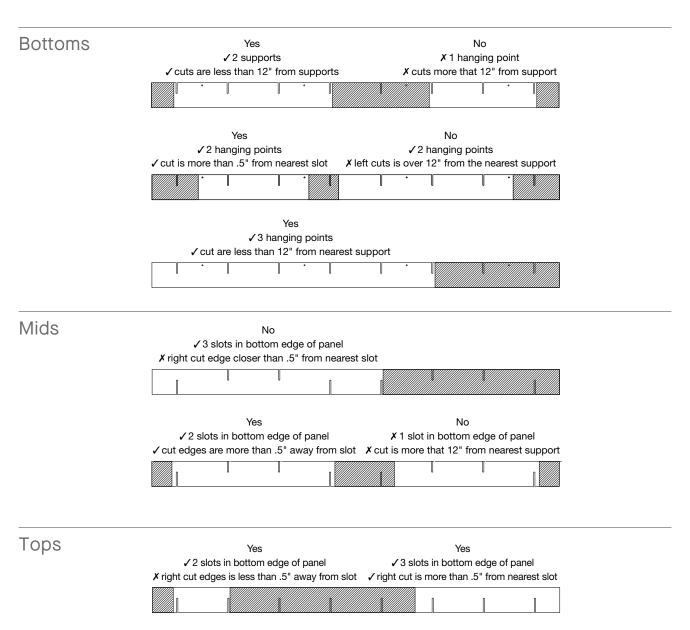




Field Cutting

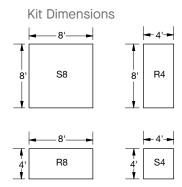
Panels have color throughout and may be field cut to install around obstructions, etc. in the plenum, however panels should not have an unsupported overhang over 12". Cuts should be no closer than 1/2" to the nearest supporting slot or hole. Panels must have at least 2 supports. Both a downward facing slot and a hole for a hanging point count as a support.





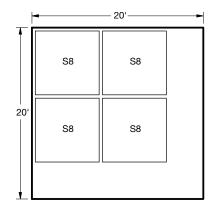
Estimating Kit Quantities

In places where half or more of the S8 kit would be cut off, replace with R4, R8, or S4 kits as shown.

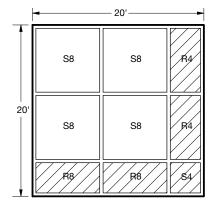


20' × 20' Room Example

STEP 1: Start by filling in the room with \$8 kits.



STEP 2: Place two R4 kits, one S4 kit, and two R8 kits along the edges to fill in the space.



Full room kit quantities: 4 S8 kits

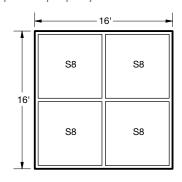
2 R4 kits

2 R8 kits

1/2 S4 kit (1 of 2 used)

16' × 16' Room Example

STEP 1: Fill in the room with S8s In this example, filling a room with just S8 kits would not be correct, since we need 4' kits to stagger panels properly.



Full room kit quantities:

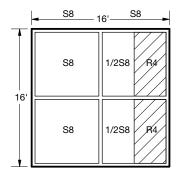
2 S8 kits

2 R4 kits

2 R8 kits

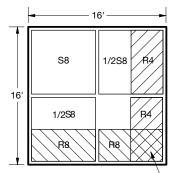
STEP 2: Place R4 kits along one edge of room.

To fix this start by replacing the S8 kits with R4 kits along one edge of the room.



STEP 3: Place R8 kits along the bottom edge of room.

Next, replace S8 kits with R8 kits along the bottom edge.



*NOTE: since the R4 & R8 overlap here, they make up for the empty space showing.

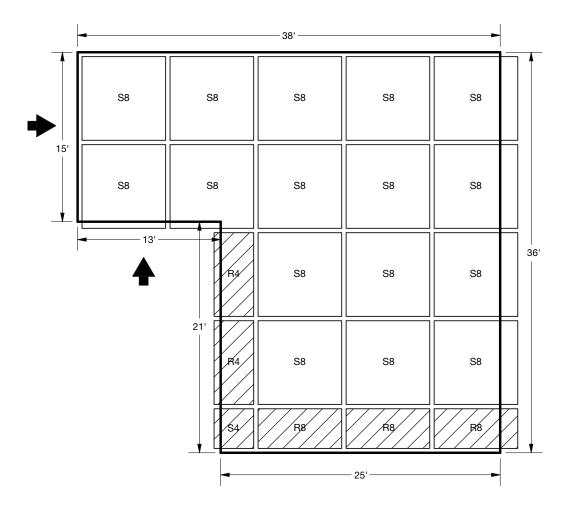
Estimating Kit Quantities

Non-Square Room Example

STEP 1: Start by filling in the room with S8 kits.

In places where half or more of the S8 kit would be cut off, replace with R4, R8, or S4 kits, as shown.

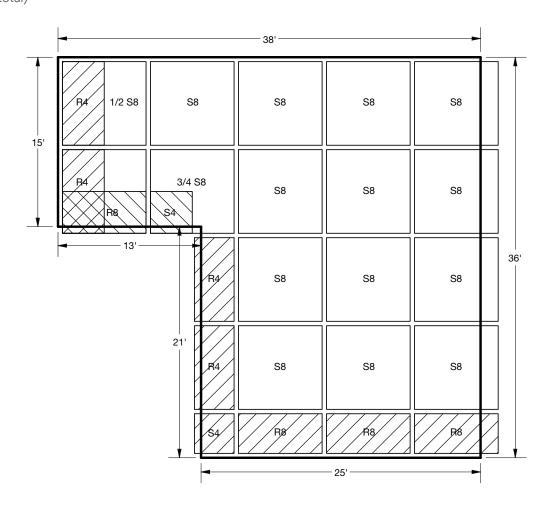
... but this isn't finished yet. We still need 4' kits added where the arrows are indicating to stagger panels properly.



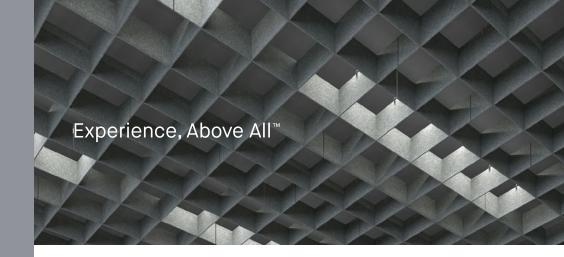
Estimating Kit Quantities

Non-Square Room Example

STEP 1: Replace S8 kits with R4s, R8s, and S4s, as shown. Full room kit quantities: 14.5 S8 kits 4 R4 kits 4 R8 kits 1 S4 kit (2 total)



TAKE THE NEXT STEP



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Cover Photo: FeltWorks® Open Cell Rectangular Panels in Smoke



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