



Experience, Above All™

SoundScapes® Blades

Linear Acoustical Panels
Design Guide


Armstrong®
World Industries

Ultimate

Design Flexibility

SoundScapes® Blades provide acoustics excellence and unlimited design possibilities through a variety of shapes, depths, colors, wood looks, and installation options.

SoundScapes Blades panels offer many benefits:

-  Available in 15 Nature-Inspired colors and 4 Wood Looks
- Three installation options for maximum design flexibility:
 - Attach to standard 15/16" suspension system
 - Suspend individually using a hanging kit
 - Direct-attach to both ceilings and walls using Axiom® wall molding
- Hundreds of design combinations
- Sound absorption up to 2.05 NRC dependent on blade depth and spacing
- Color-coordinated Prelude® suspension systems available

SoundScapes Blades in 16" depth in White, Stone, and Black; Tachi Palace Casino Resort Lemoore, CA
Cunnigham Group



Mix & Match



GOOD FOOD
with
GOOD FRIENDS



ood
ats



GOOD FOOD
with
GOOD FRIENDS



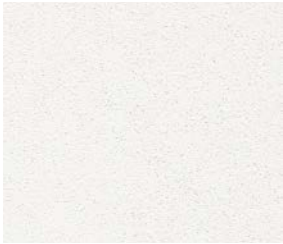
FULL
MENU



TACHI PALACE CASINO RESORT
MARKET

PORK CHOP HILL

new COLORS
Painted



White (DWH)



Black (DBL)



Riverstone (DRV)



Stone (DSE)



Light Grey (DLG)



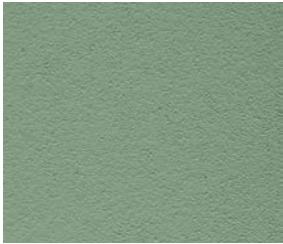
Oat (DOT)



Sandstone (DSS)



Boxwood (DBW)



Fern (DFN)



Ivy (DIV)



Ocean (DOC)



Twilight (DTT)



Rainstorm (DRS)

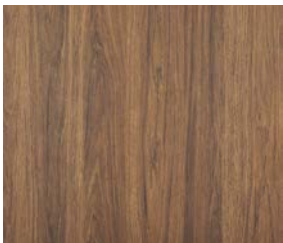


Mist (DMT)



Topaz (DTZ)

new FINISHES
Standard Wood-look Visuals



Brown Sugar Walnut (WBS)



Toffee Chestnut (WTC)



Vanilla Ash (WVA)



Honey Oak (WHO)

Shade may vary from actual product.
For premium and custom capabilities, contact ASQuote@armstrongceilings.com



SoundScapes Blades in 16" depth in Fern, Sandstone, and Light Grey



SoundScapes Blades Rectangular Vertical Panels: Wind Energy Transmission of Texas, Austin, TX; S. Tipton StudioA



It's All About The Lines

Straight or wavy, intersecting or parallel, monochromatic or multi-colored – the design options with SoundScapes® Blades panels are vast. Find a sampling of our favorite designs in perspective and plan-view drawings on the next few pages.

With three versatile ways to install on ceilings, plus a wall mount, you have even more options! CAD/Revit® files are available on the web and TechLine.

1 Attach to standard suspension system



2 Individual suspension using hanging kit



3 Direct-attach method using Axiom® wall molding



Ceiling



Wall

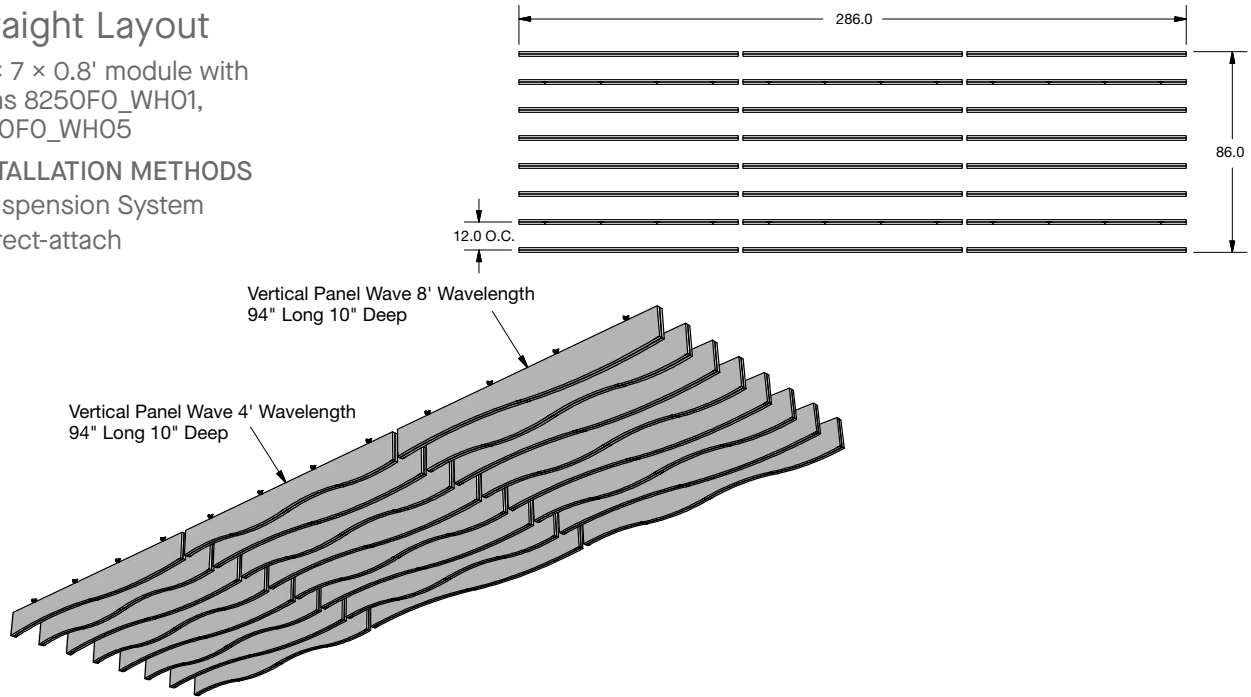
SoundScapes® Blades Linear Acoustical Panels

Straight Layout

24 × 7 × 0.8' module with
items 8250FO_WH01,
8250FO_WH05

INSTALLATION METHODS

- Suspension System
- Direct-attach

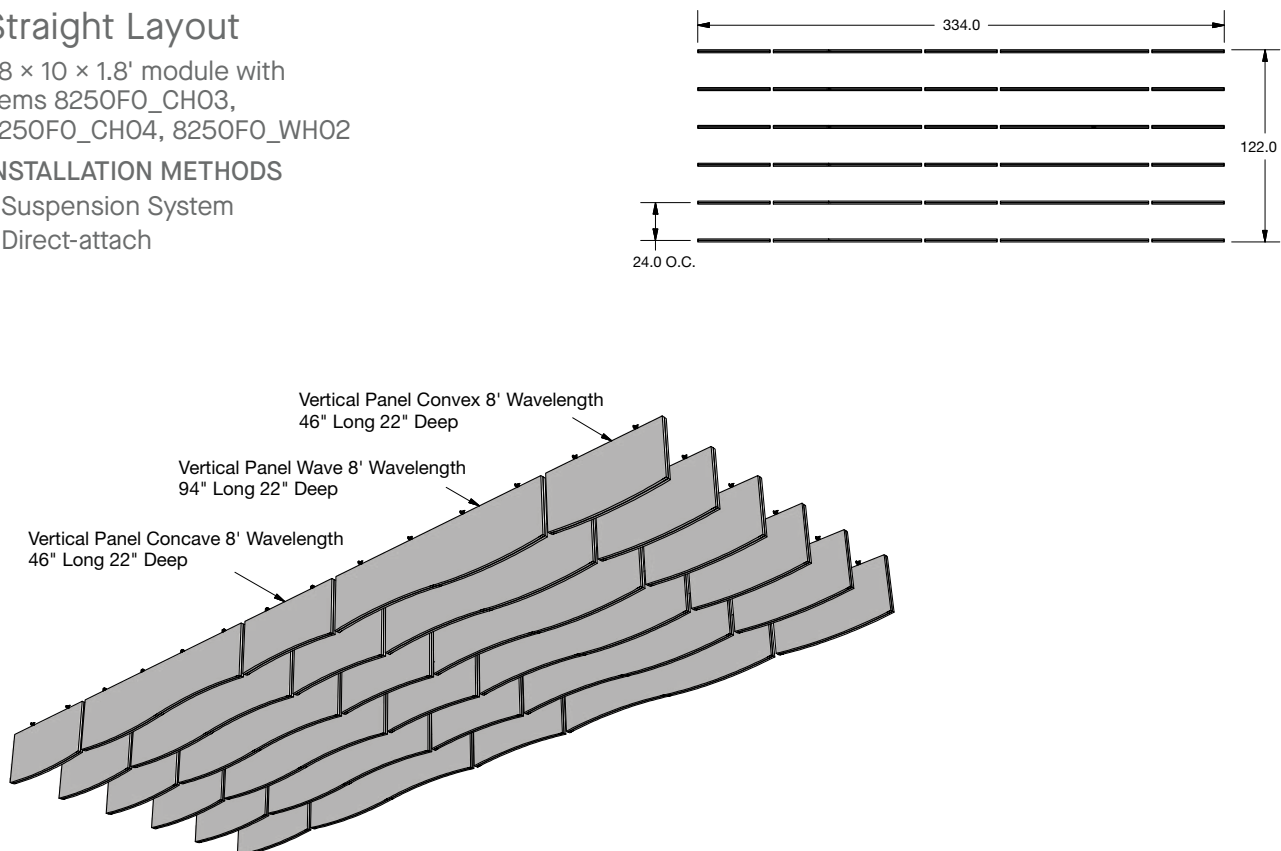


Straight Layout

28 × 10 × 1.8' module with
items 8250FO_CH03,
8250FO_CH04, 8250FO_WH02

INSTALLATION METHODS

- Suspension System
- Direct-attach



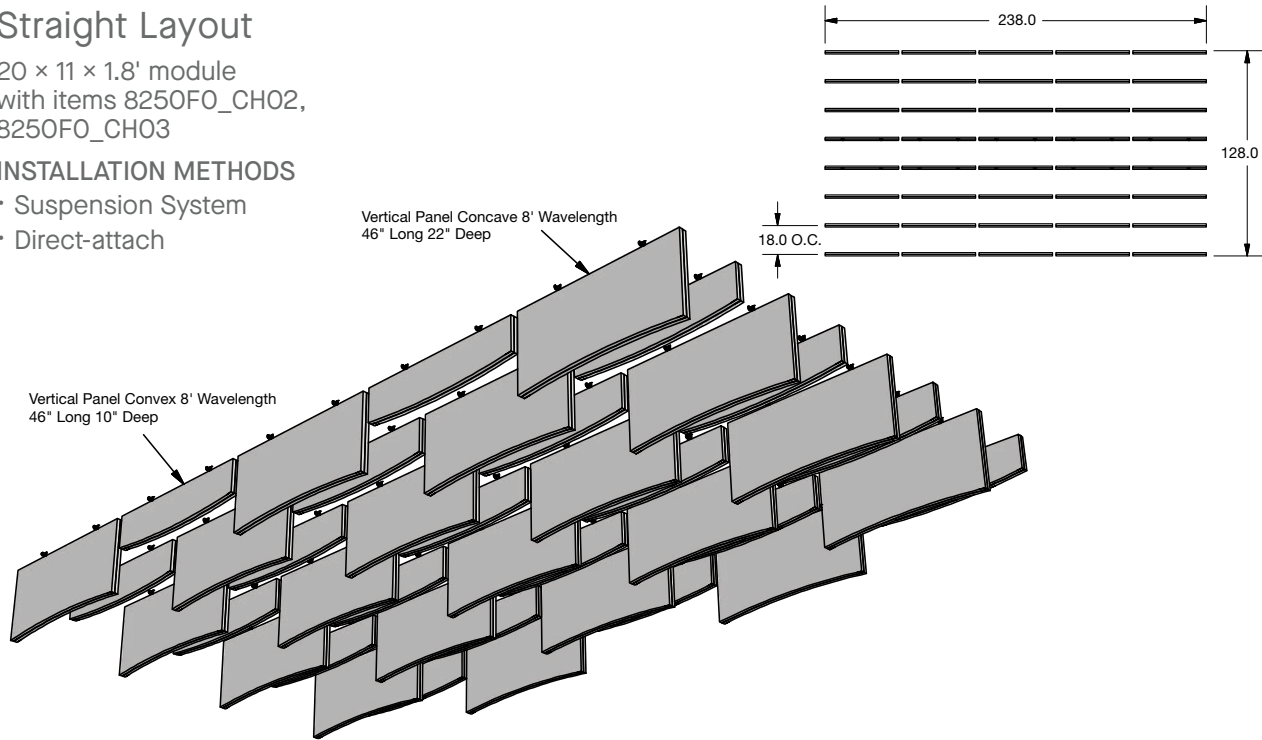
SoundScapes® Blades Linear Acoustical Panels

Straight Layout

20 × 11 × 1.8' module
with items 8250FO_CH02,
8250FO_CH03

INSTALLATION METHODS

- Suspension System
- Direct-attach

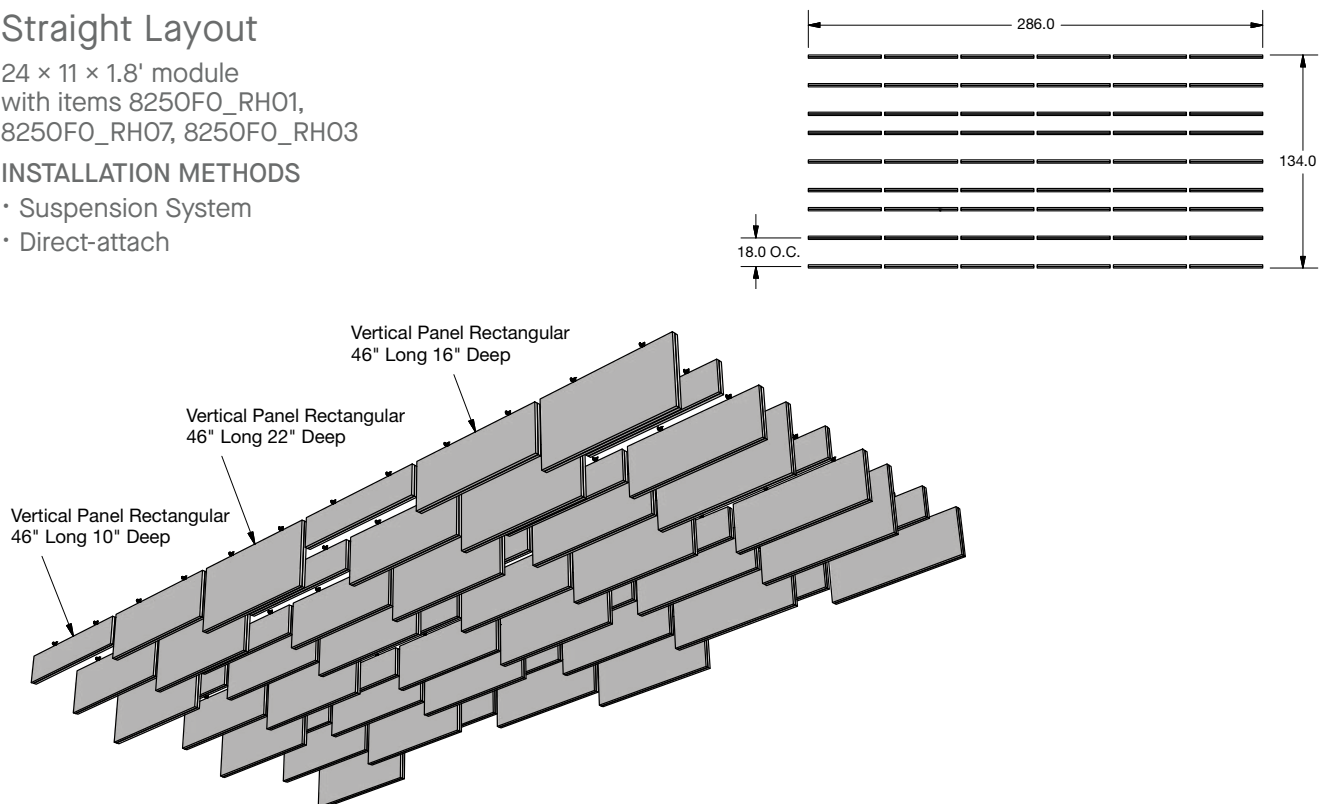


Straight Layout

24 × 11 × 1.8' module
with items 8250FO_RH01,
8250FO_RH07, 8250FO_RH03

INSTALLATION METHODS

- Suspension System
- Direct-attach



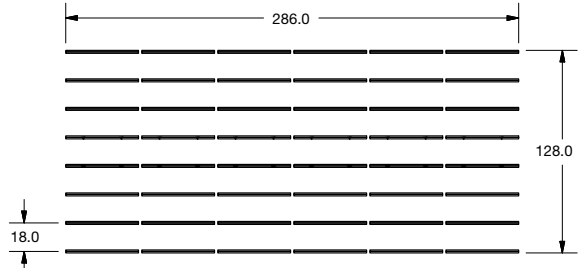
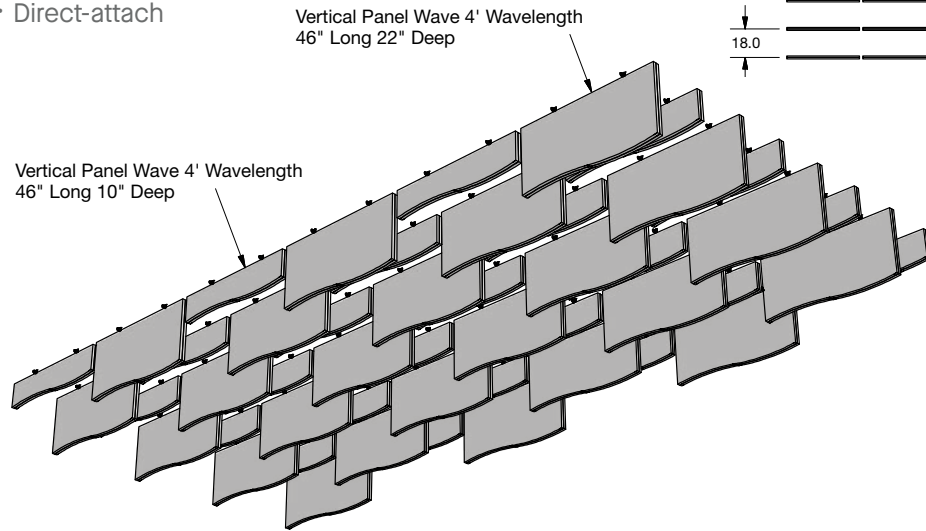
SoundScapes® Blades Linear Acoustical Panels

Straight Layout

24 × 11 × 1.8' module with
items 8250FO_WH03, 8250FO_WH04

INSTALLATION METHODS

- Suspension System
- Direct-attach

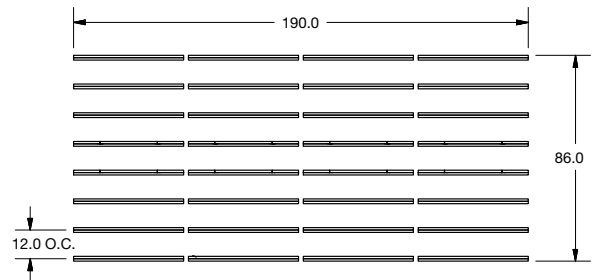
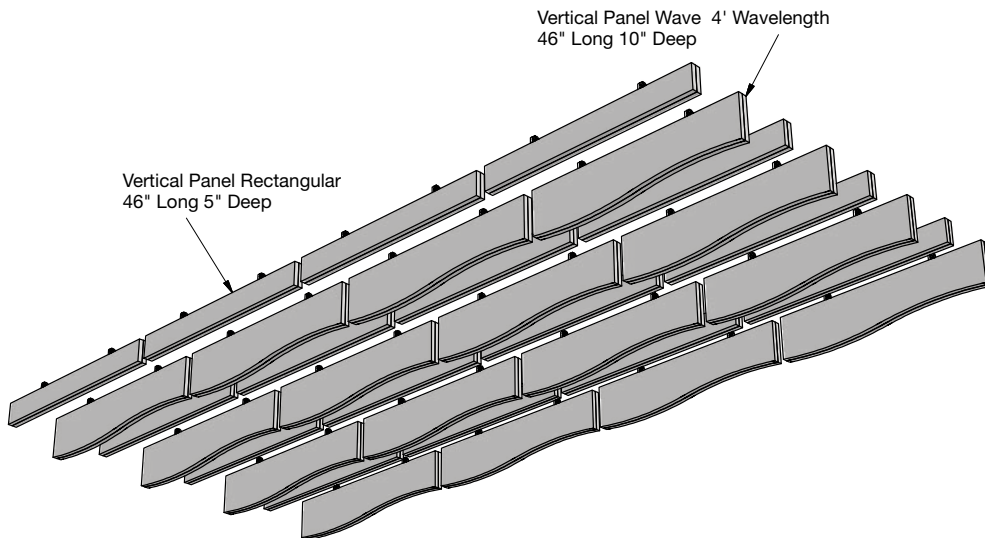


Straight Layout

16 × 7 × 0.8' module with
items 8250FO_RH05,
8250FO_WH03

INSTALLATION METHODS

- Suspension System
- Direct-attach



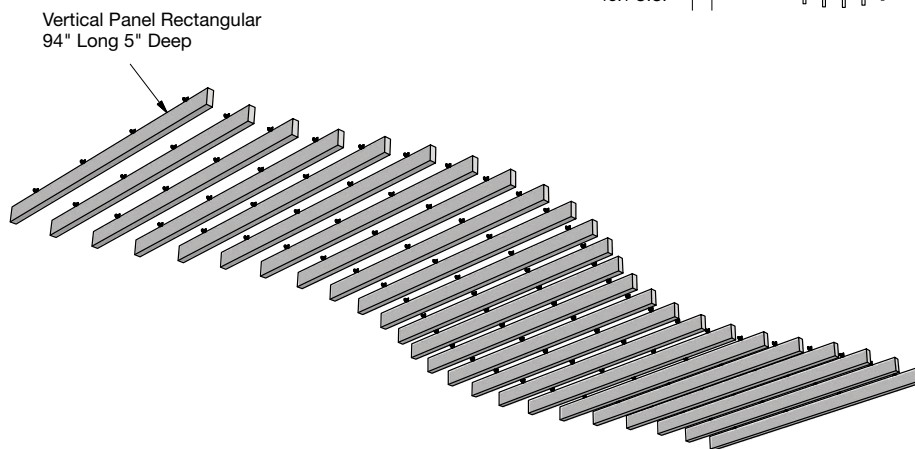
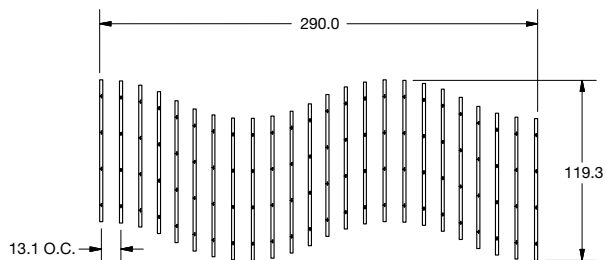
SoundScapes® Blades Linear Acoustical Panels

Horizontal Wave Layout

24 × 10 × 0.8' module
with item 8250FO_RH06

INSTALLATION METHODS

- Hanging Kit
- Direct-attach

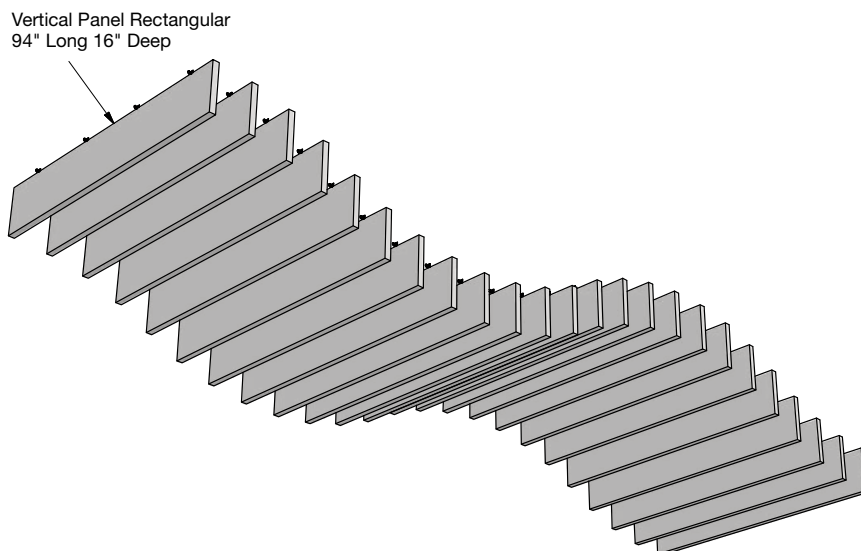
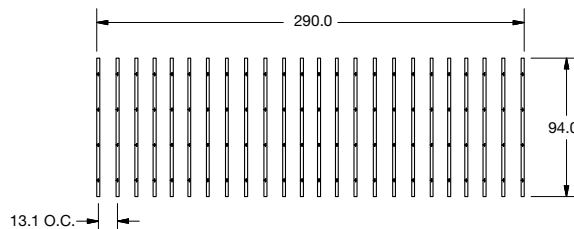


Vertical Wave Layout

24 × 8 × 5.3' module
with item 8250FO_RH08

INSTALLATION METHODS

- Hanging Kit



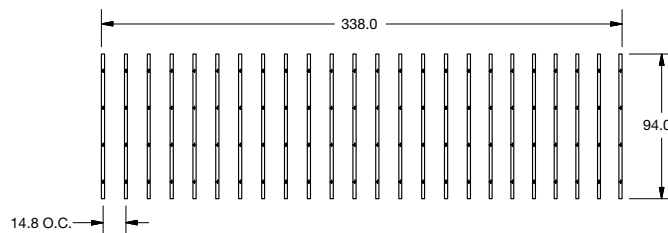
SoundScapes® Blades Linear Acoustical Panels

Valley Layout

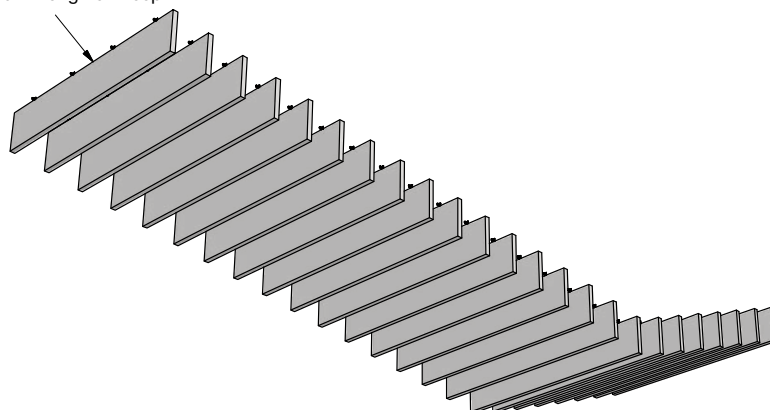
28 × 8 × 4.7' module
with item 8250FO_RH08

MODULE

- Hanging Kit



Vertical Panel Rectangular
94" Long 16" Deep

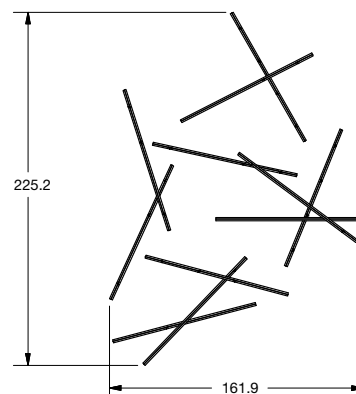


Chandelier Layout

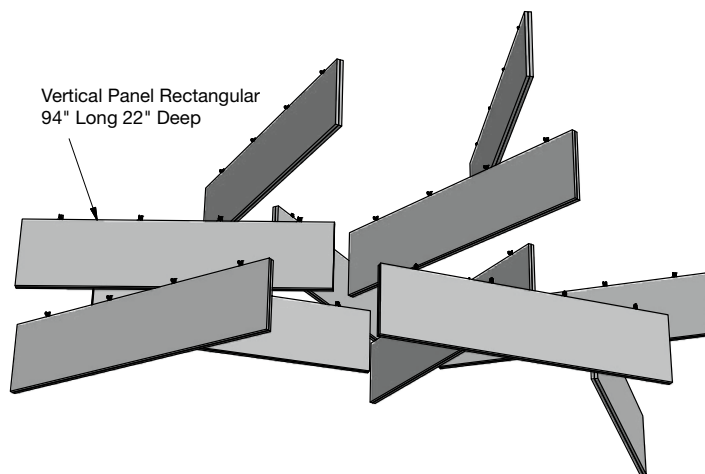
19 × 14 × 7.8' module
with item 8250FO_RH04

MODULE

- Hanging Kit



Vertical Panel Rectangular
94" Long 22" Deep



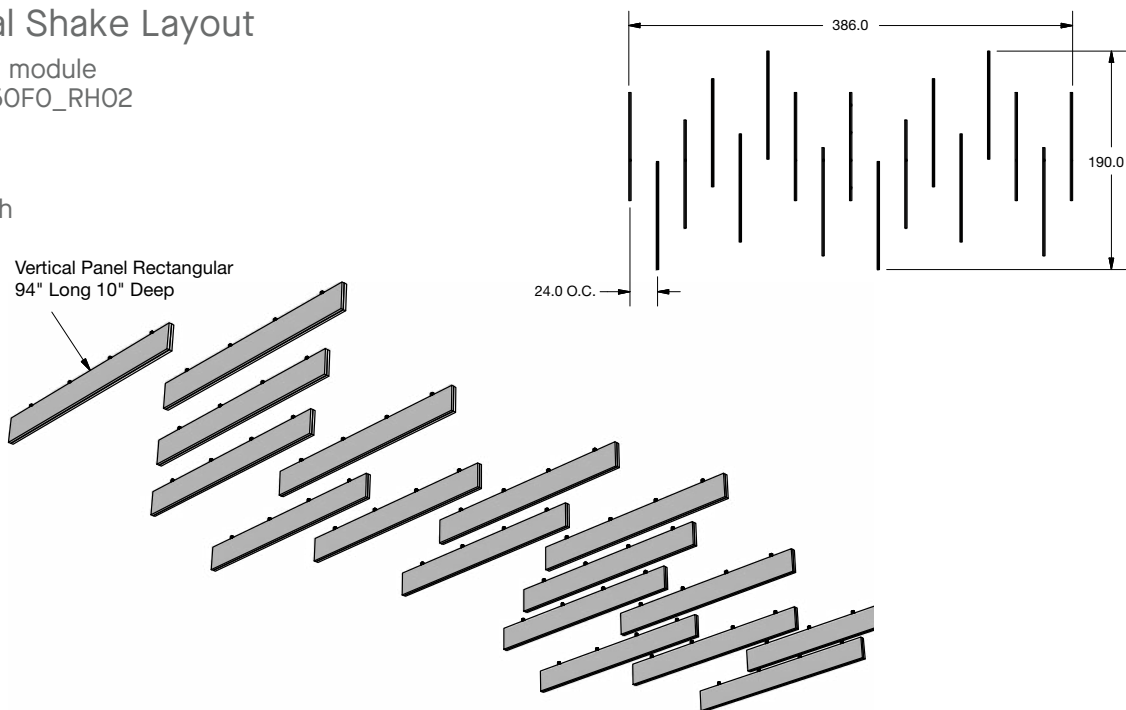
SoundScapes® Blades Linear Acoustical Panels

Horizontal Shake Layout

32 × 16 × 0.8' module
with item 8250FO_RH02

MODULE

- Hanging Kit
- Direct-attach

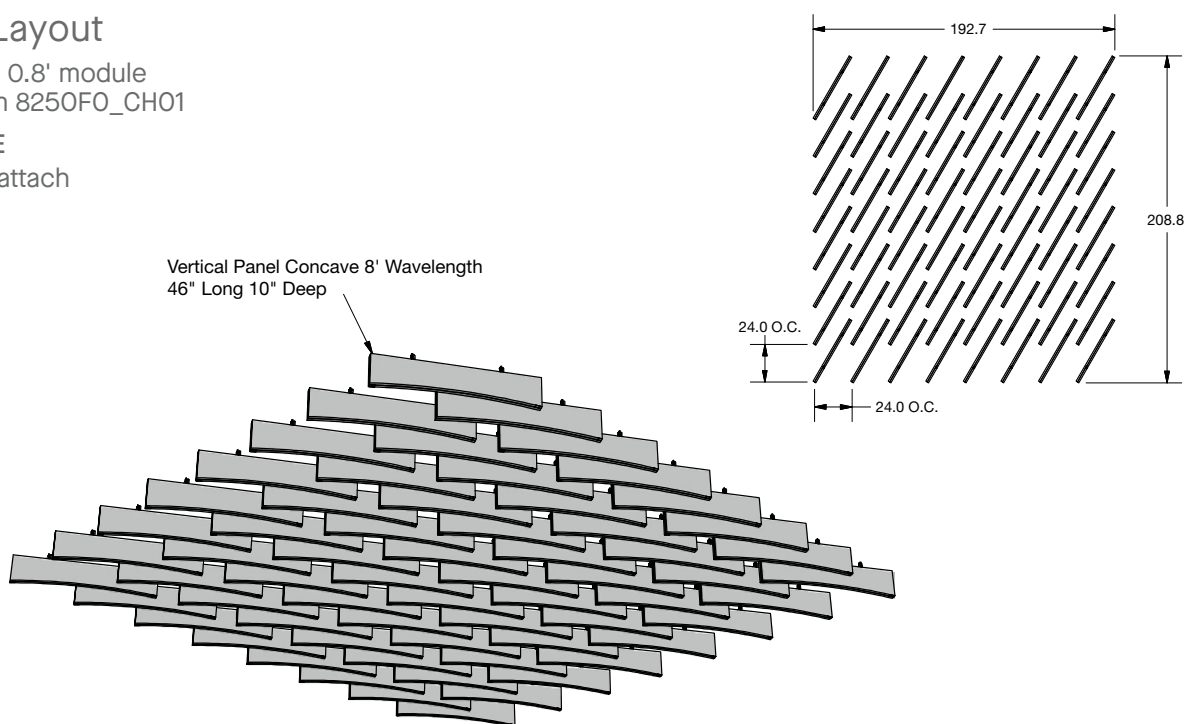


Sails Layout

16 × 17 × 0.8' module
with item 8250FO_CH01

MODULE

- Direct-attach



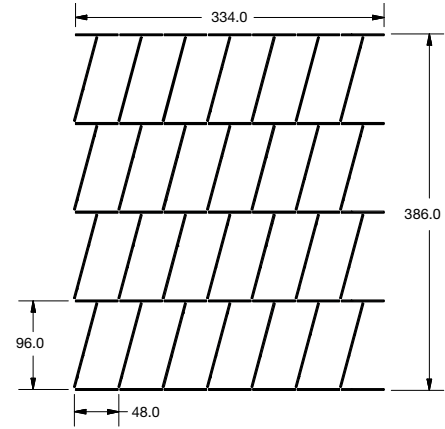
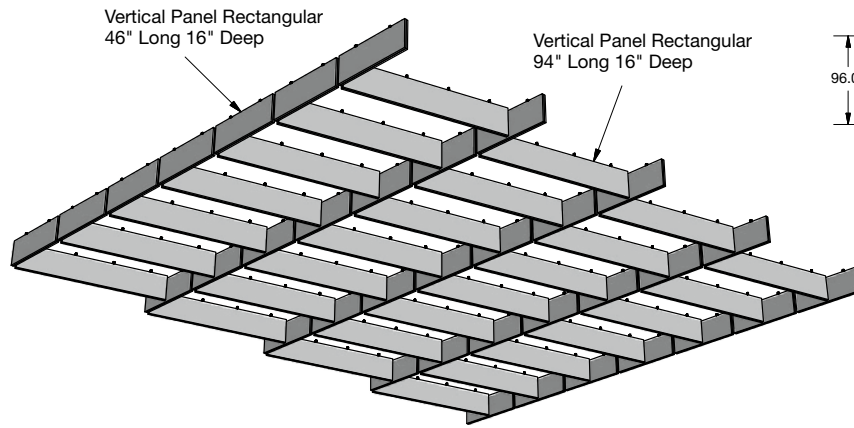
SoundScapes® Blades Linear Acoustical Panels

Open-Cell Parallelogram Layout

28 × 32 × 1.3' module with
items 8250FO_RH07,
8250FO_RH08

MODULE

- Direct-attach

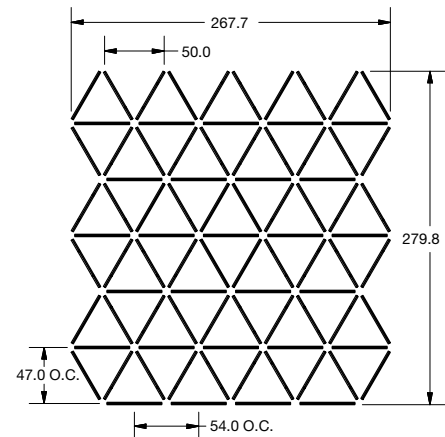
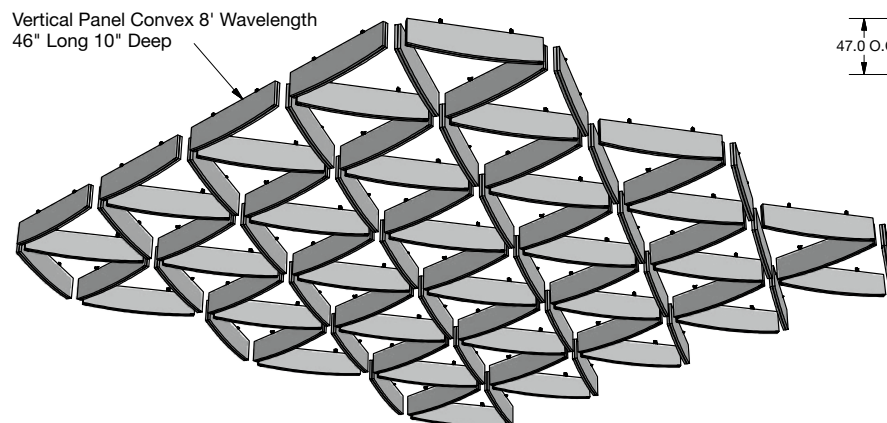


Open-Cell Convex Triangle Layout

22 × 23 × 0.8' module
with item 8250FO_CH02

MODULE

- Direct-attach



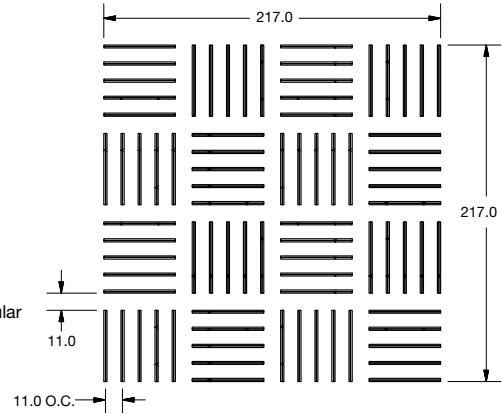
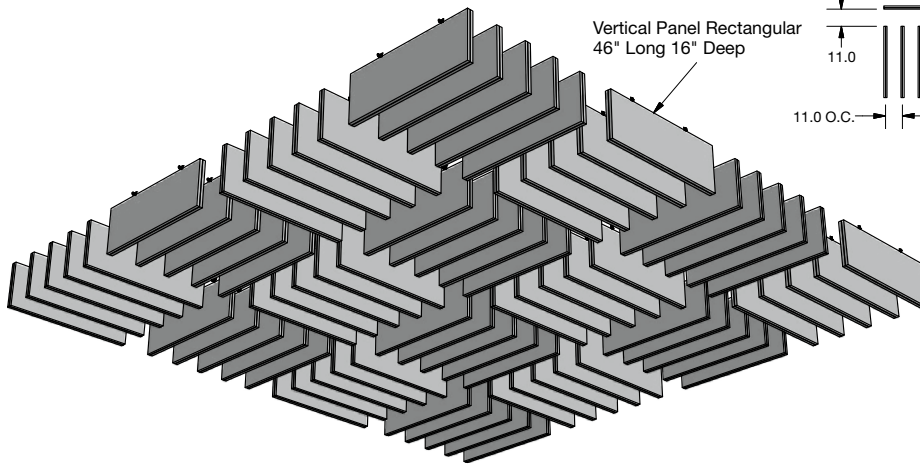
SoundScapes® Blades Linear Acoustical Panels

Checkerboard Layout

18 × 18 × 1.8' module
with item 8250FO_RH07

MODULE

- Direct-attach

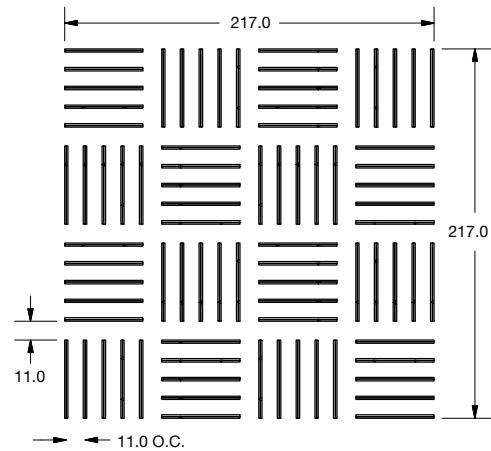
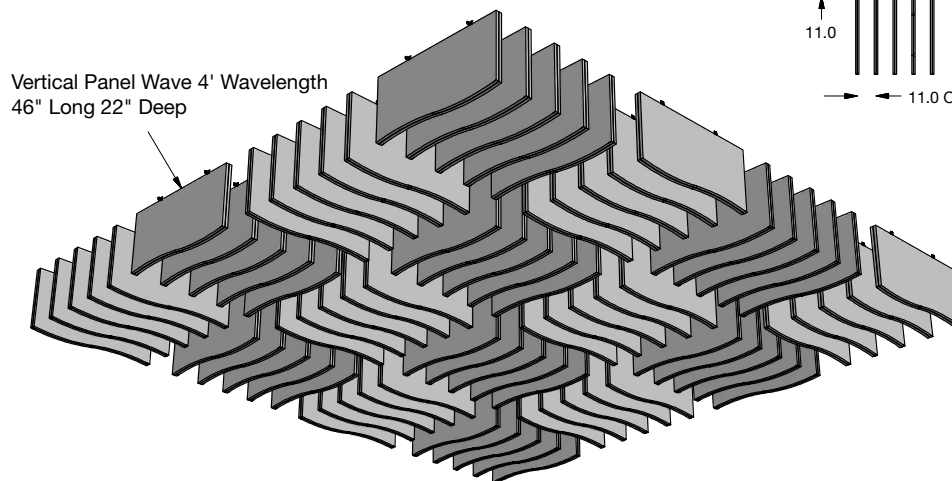


Wavelength Checkerboard Layout

18 × 18 × 1.8' module
with item 8250FO_WH04

MODULE

- Direct-attach



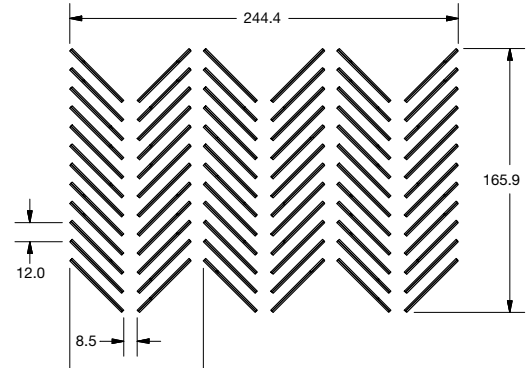
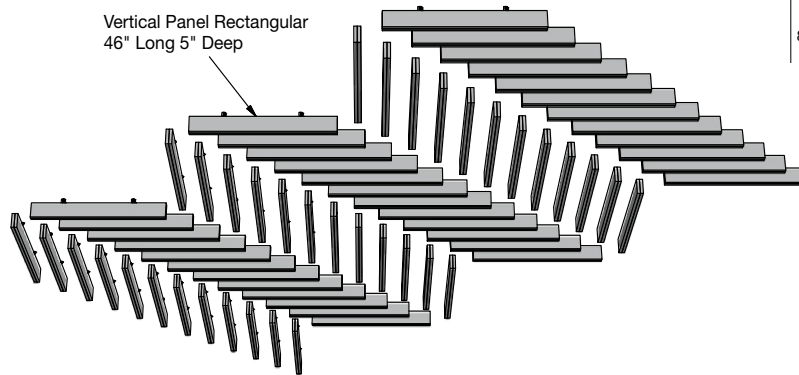
SoundScapes® Blades Linear Acoustical Panels

Arrows Layout

20 × 14 × 0.4' module
with item 78250FO_RH050

MODULE

- Direct-attach

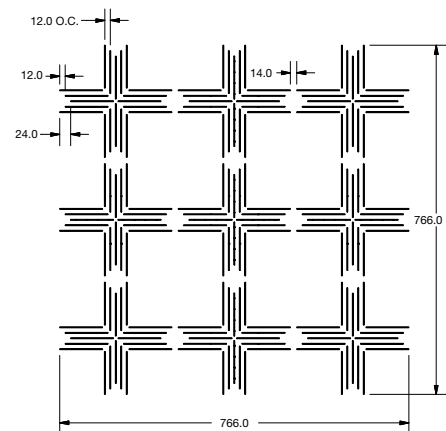
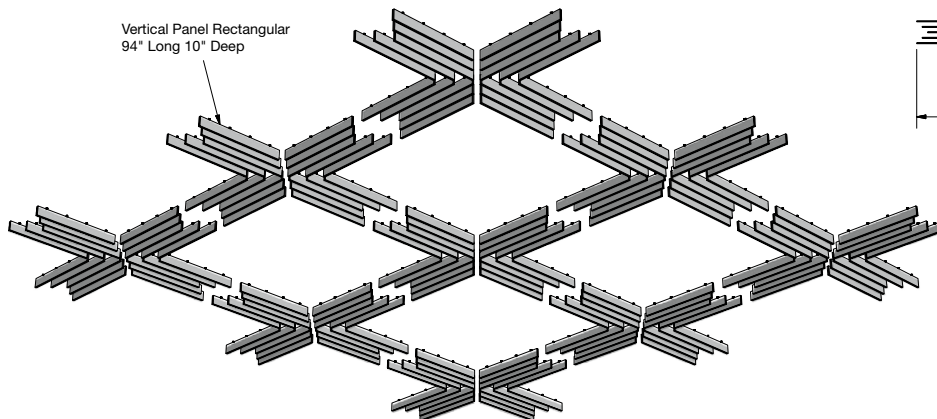


Cross Layout

64 × 64 × 0.8' module
with item 8250FO_RH02

MODULE

- Direct-attach



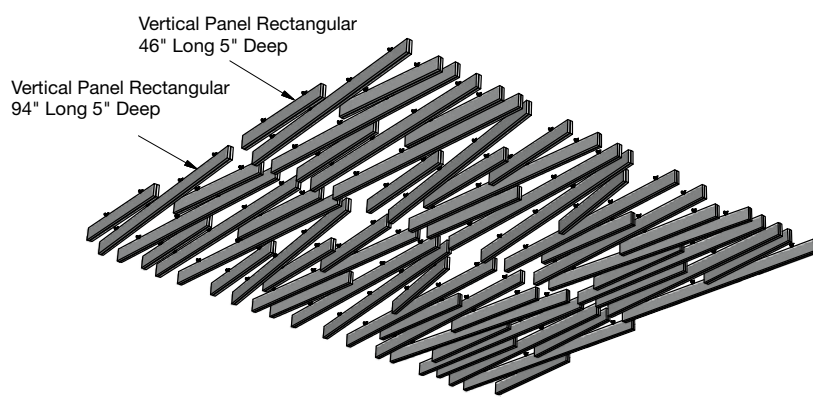
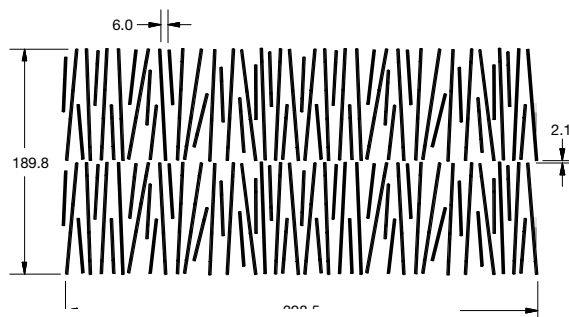
SoundScapes® Blades Linear Acoustical Panels

Divergent Layout

20 × 16 × 0.4' module with
items 8250FO_RH05,
8250FO_RH06

MODULE

- Direct-attach

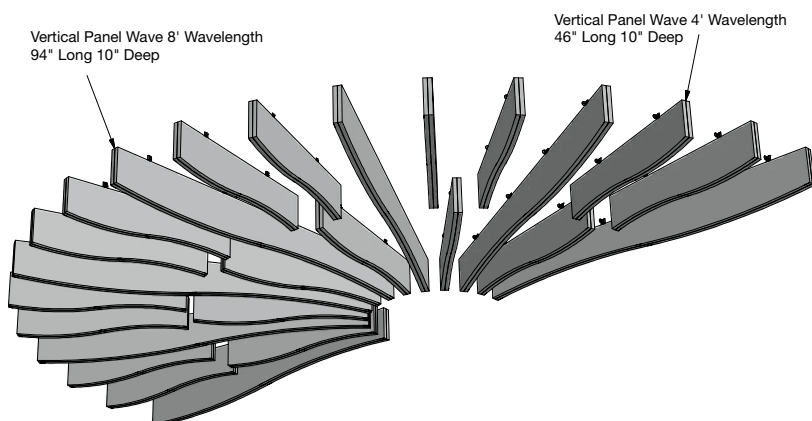
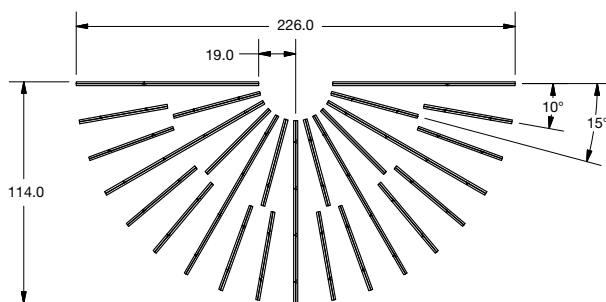


Sunburst Layout

22 × 10 × 0.8' module with
items 8250FO_WH01,
8250FO_WH03

MODULE

- Direct-attach



SoundScapes® Blades Linear Acoustical Panels

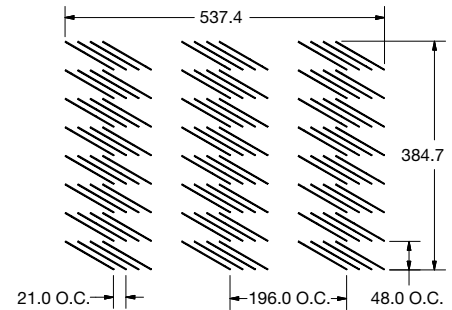
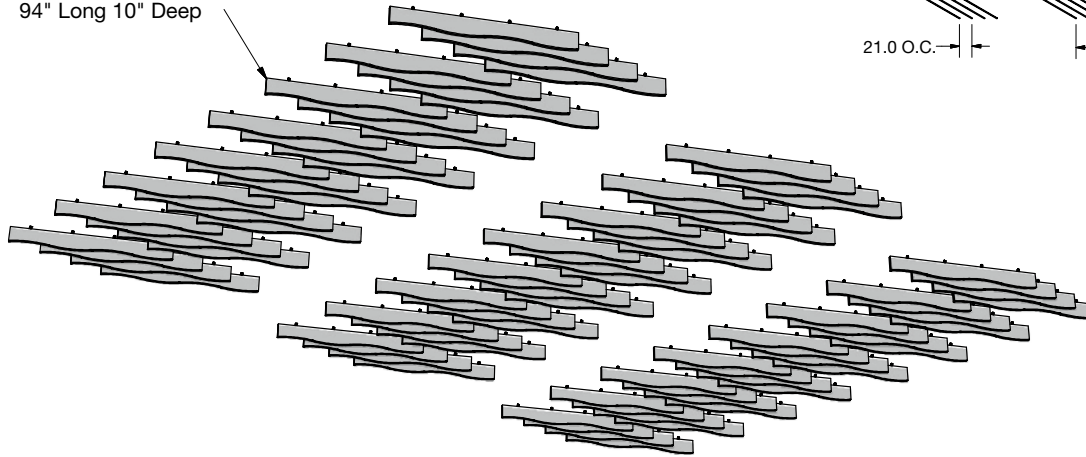
Grouped Wave Layout

45 × 32 × 0.8' module
with item 8250FO_WH05

MODULE

- Direct-attach

Vertical Panel Wave 4' Wavelength
94" Long 10" Deep



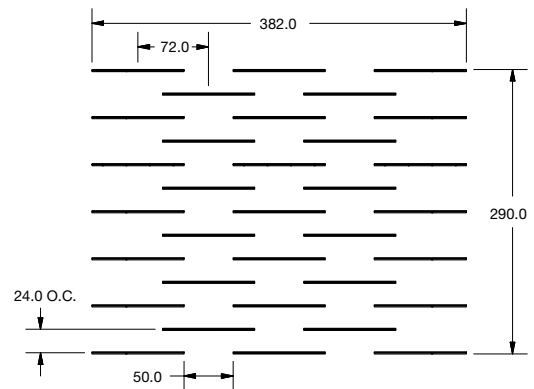
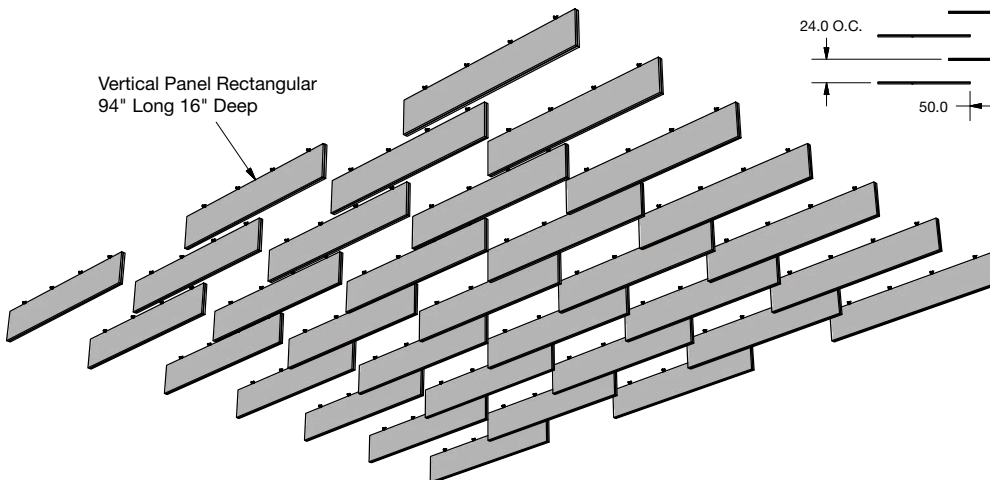
Wide-Staggered Layout

32 × 24 × 1.3' module
with item 8250FO_RH08

MODULE

- Hanging Kit
- Direct-attach

Vertical Panel Rectangular
94" Long 16" Deep



SoundScapes® Blades Linear Acoustical Panels

Noise Reduction Coefficient (NRC) – Sound Absorption

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.60 is low performance, an NRC > 0.70 is high performance.

NRC is important in any space where reverberation time and noise levels are an issue.

- Acoustical absorption is measured according to ASTM C423
- NRC is a key metric used in the Americas. Europe and other geographics use the weighted sound absorption coefficient α_w .

Reverberation Time (RT)

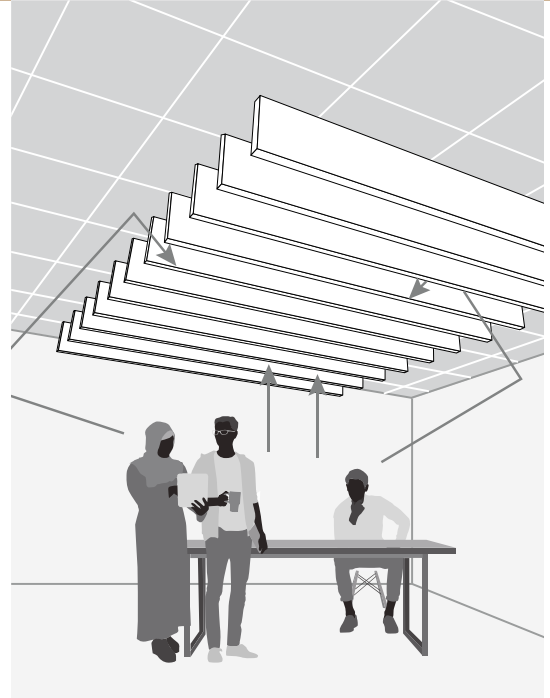
Reverberation Time (RT) is the persistence of sound in an enclosed space after the source of the sound has stopped. The level of the reverberant sound within a room is dependent on both the volume of the room and the amount of sound absorption installed within the room, such that small, hard-surfaced rooms are "louder" than large, well-treated rooms.

Rules of thumb:

Short RTs (< 1 sec) are preferred for high-quality speech intelligibility in classrooms and open plan office spaces.


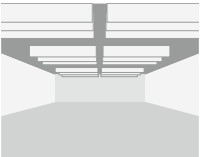


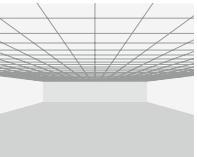
Long RTs (> 1.4 sec) are preferred for lively acoustic environments such as auditoriums and hospitality.

Acoustical solutions, like canopies, clouds, baffles, or blades vertical elements installed in a way that covers 8% to 50% of the ceiling, will provide significant reverberation time improvement since sound is absorbed from both the front and back of the panels. Blades are especially effective as the required ceiling coverage is much smaller to get the RT reduction because most of the surface area is vertical.



SoundScapes Blades panels in White provide up to 1.8 NRC depending on depth and spacing.

Comparison: Exposed Structure Options Versus Continuous Ceiling

Example:	Exposed Structure	Blades & Baffles	Direct-To-Deck	Canopies & Clouds	Continuous Ceiling	
						
1,000 SF Exposed Structure (40' x 25'), 15' to deck, drywall with 20% window coverage and commercial carpet	No Treatment (0% Coverage)	SoundScapes Blades (8% coverage)	InvisAcoustics™ (50% coverage)	SoundScapes Shapes (50% coverage)	Continuous Optima® Ceiling (100% Coverage)	
Ceiling	Exposed Structure	60 Blades, 12" O. C. (10 x 94 x 2")	62 Panels (24 x 48 x 3/4")	32 Shapes 48" x 48" Squares	Suspended 60" Below Deck	
Absorption	0	0.80 NRC	0.75 NRC	1.49 Sabins/ft ²	0.90 NRC	
Reverberation Time (RT)	2.4 sec	0.8 sec	1.1 sec	0.8 sec	0.5 sec	
		Short RTs (< 1 sec) are preferred for high-quality speech intelligibility in classrooms and open plan office spaces. Long RTs (> 1.4 sec) are preferred for lively acoustic environments such as auditoriums and hospitality.				
Reverberation Time Improvement	–	67%	54%	67%	79%	
Noise Reduction	–	-3.6 dB	-2.6 dB	-3.6 dB	-4.5 dB	

TAKE
THE NEXT
STEP

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get a design started! Not sure who
your local rep is?

Visit armstrongceilings.com/findarep

Cover Photo:
SoundScapes® Blades
Wave Panels in
Vanilla Ash (WVA)

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