



A R K T U R A

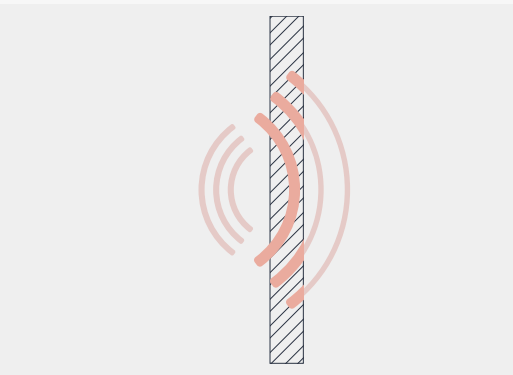
Vapor[®] Frequency



Ceiling & Wall **Panels**

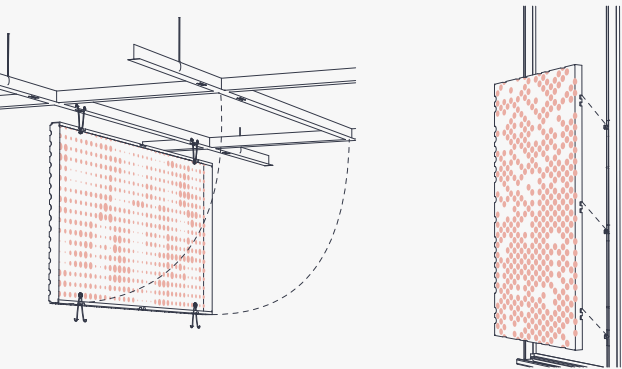
Our Key Features

Vapor® Frequency powder-coated aluminum torsion spring panels bring the digital world into reality. With a design that starts off intense and fades away, you can create a path for people to follow, while reducing the sound of their steps thanks to our Soft Sound® backer. Or add our integrated lighting backer to take the digital feel to another level.



Reduce Noise & Enhance Acoustics

Vapor®'s optional Soft Sound® backer material reduces the impact of noise from everyday annoyances like ringing, typing, and chatter resulting in a more pleasant and productive environment. The Soft Sound® backer works in concert with the design to help reduce and control reverberations leaving a lasting impression at scales ranging from assembly halls to conference rooms.



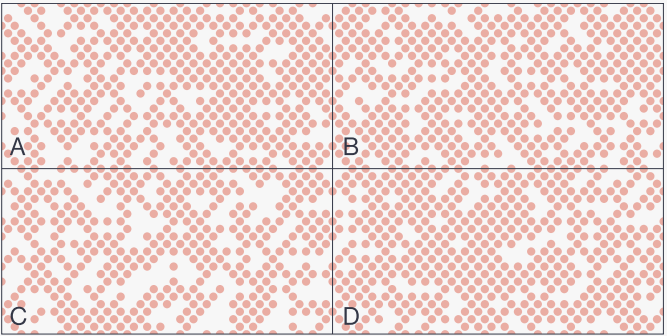
Easy Installation & Access

Vapor® panels offer easy install, using quick torsion spring attachment across standard ceiling grid systems or simple wall attachment using our Vertika® channel system.



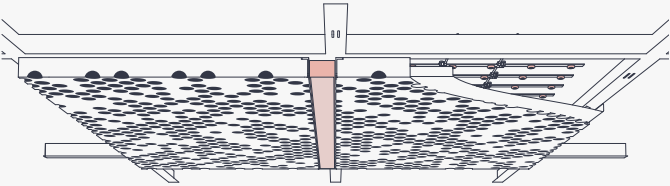
Superior Flatness & Strength

Vapor® panels are manufactured from aluminum that is on average 50% thicker than the competition, which in combination with our precision processes result in unrivaled flatness.



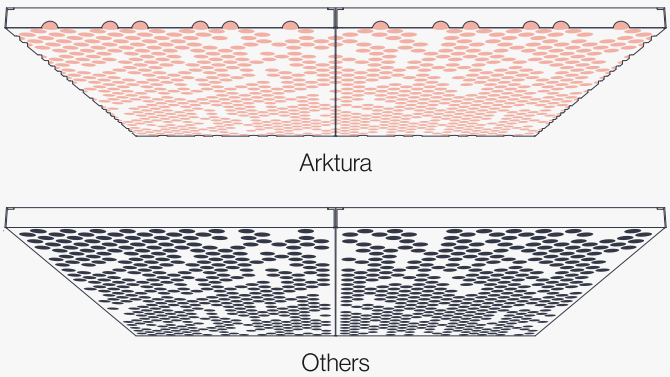
Preconfigured Solutions

Vapor® panels are scalable, seamlessly tileable preconfigured solutions designed with a dynamic array of criteria and effects in mind. Choose from our growing library of patterns to uniquely impact your project.



Integrated Lighting Options

Arktura's Vapor® line makes it easy to seamlessly add illumination and lighting effects to your projects, through available integrated InLine and Backlighting options.



Continuous Pattern Aesthetic

Achieve uninterrupted patterning across your space. Vapor® patterns have perforations that wrap around the edges of each panel, concealing where patterns start and end.

Inspiration



Standard Panels for Custom Ideas



Illuminate your Space with Arktura InLine Lighting



Create a Relaxing Environment

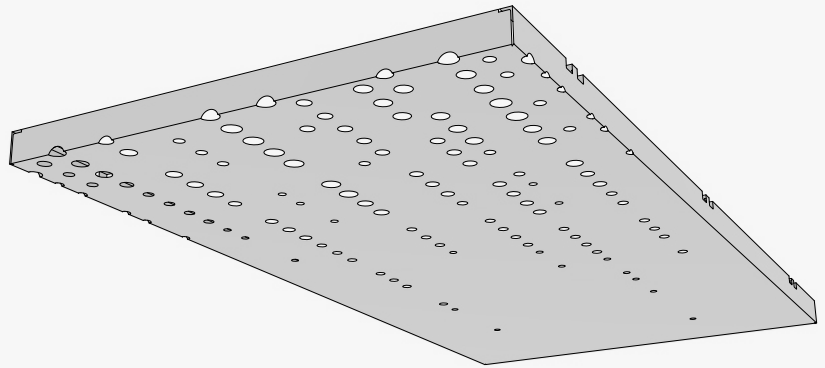
Overview

- 1 Understanding the System
- 2 Optional Accessories
- 3 Available Finishes
- 4 Product Specifications

1 Understanding the System

Standard Panel

Vapor® is a modular accessible aluminum panel system designed to work with torsion grid. Customization is available.



Seamlessly Join Walls & Ceilings

Vapor® easily transitions from one plane to another and around corners.



1 Understanding the System

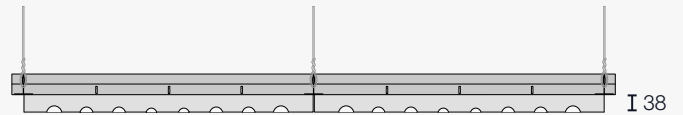
Understanding the Panel

The pattern surface is created using 4 unique tiles in a specific arrangement that minimizes visual repetition across your space. Vapor® Frequency is also compatible with Vapor® Trail, expanding your design options.

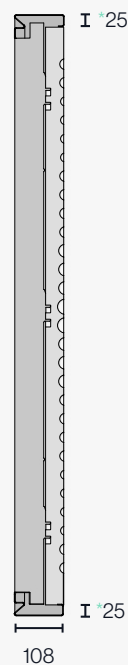
Panel A: 3% Open
 Panel B: 4% Open
 Panel C: 17% Open
 Panel D: 18% Open

* Vertika® Trim

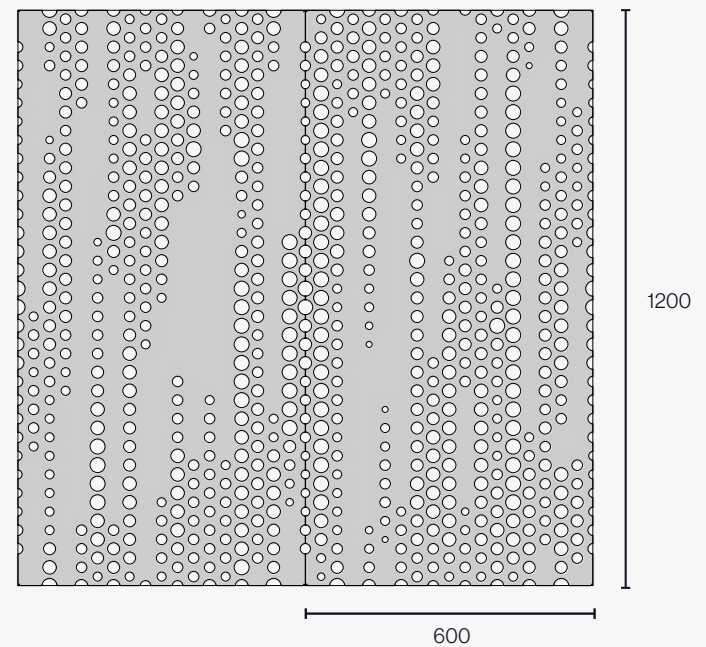
Ceiling Section



Wall Section



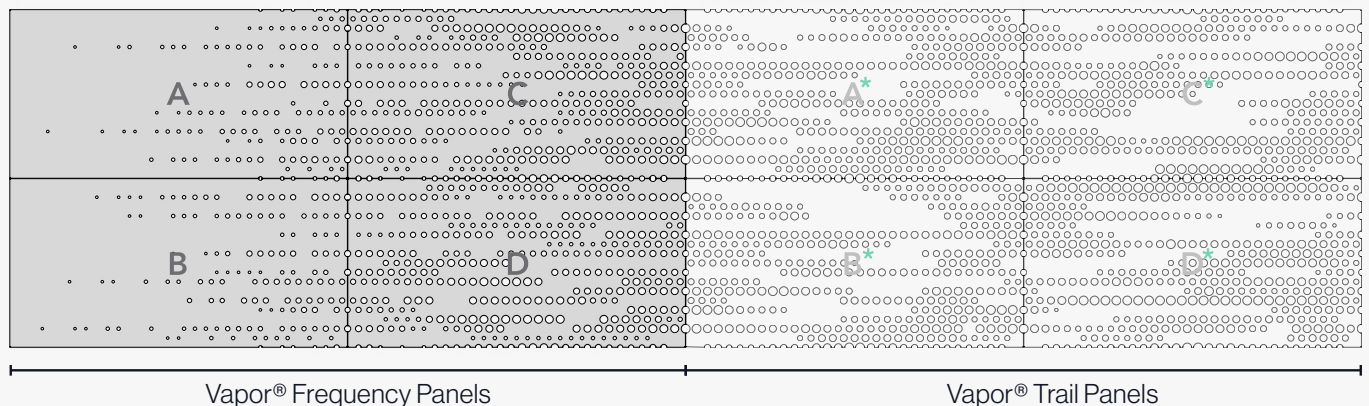
Panel Configuration, Wall or Ceiling



⚠ All dimensions nominal.

ℹ All dimensions are in mm unless otherwise specified.

Panel Configuration, Wall or Ceiling




1

Understanding the System

Accessory Options - Ceiling

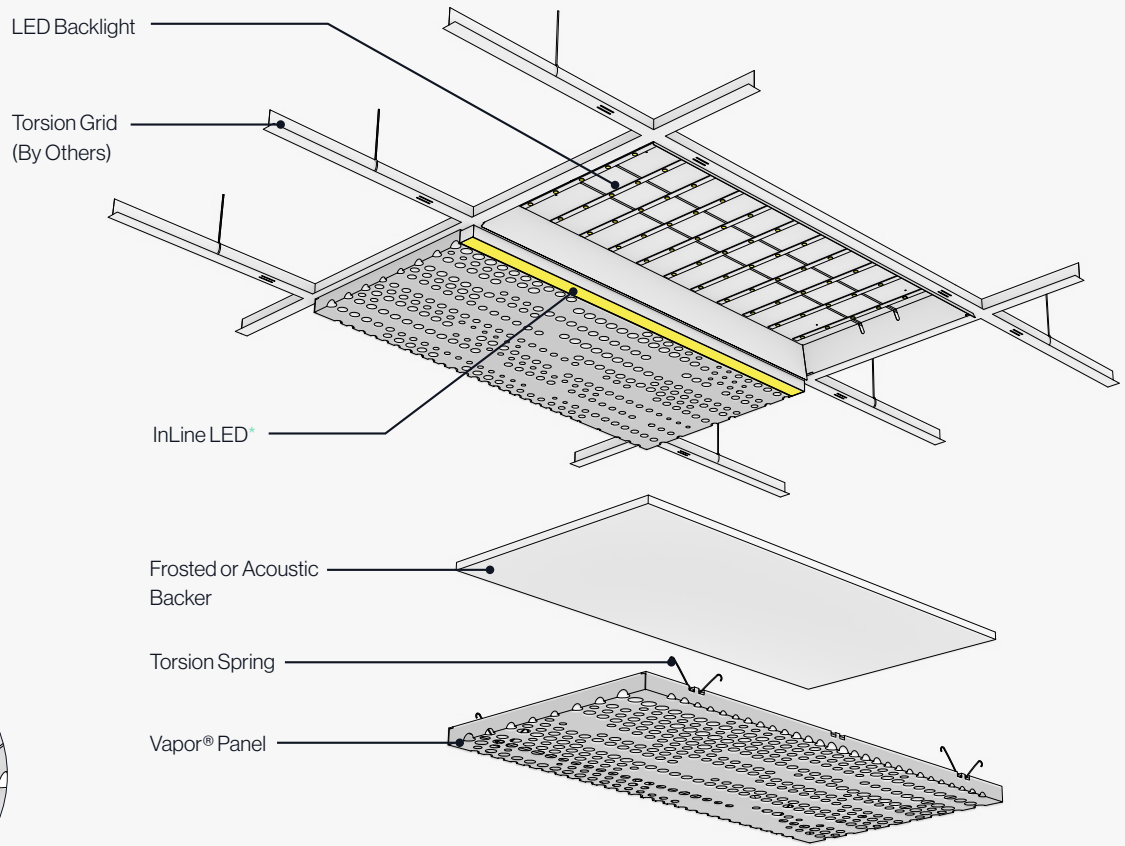
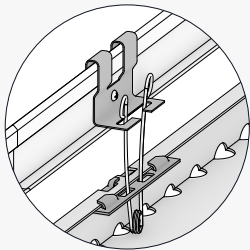
- Frosted light diffusing backer
- 12mm acoustic backer
- Backlight
- InLine downlight

 Check out our Configuration examples on PAGE 10.

* A Specific InLine light panel is used to accommodate the width of the fixture within the 600mm width.

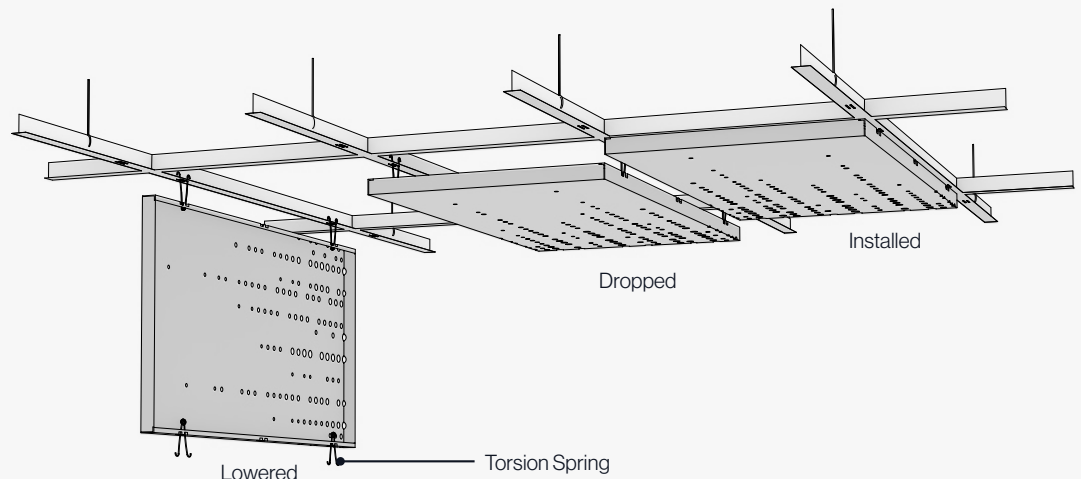
Torsion Spring Adapter Clip

Interested in using standard t-grid? Use our optional Torsion Spring Adapter Clip.



Attachment System - Ceiling


Torsion Spring clips allow for rapid install and easy access for maintenance above the grid post install.



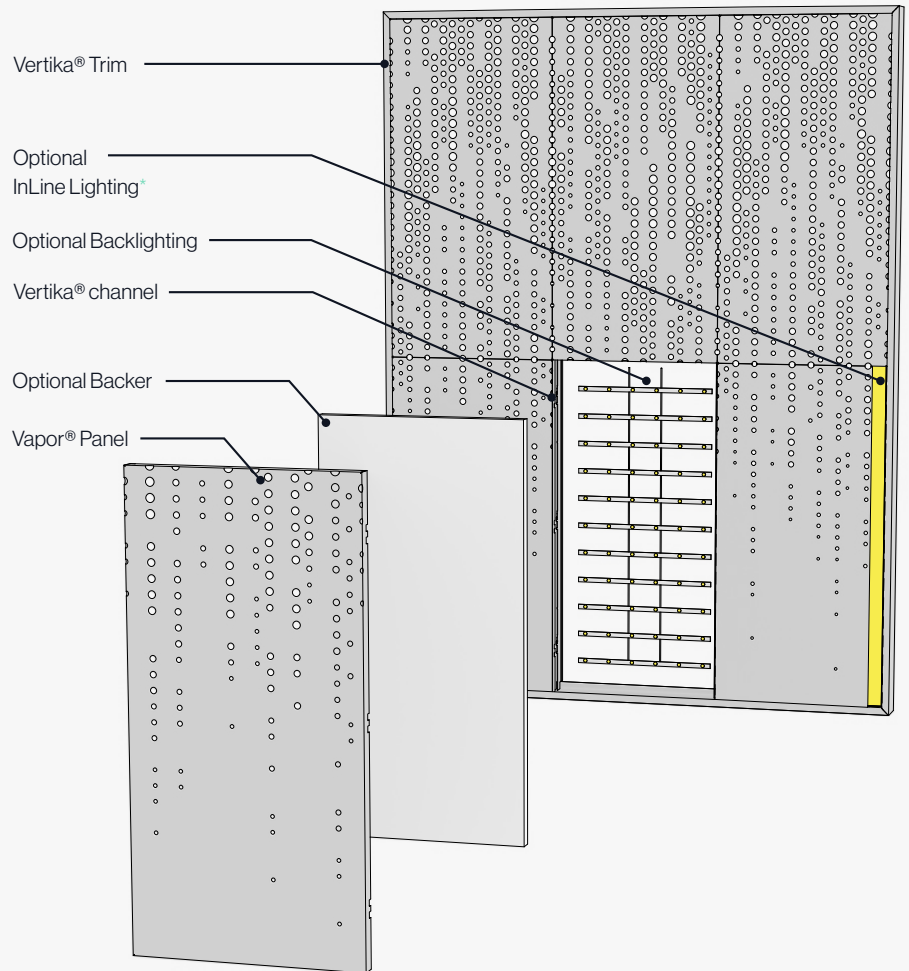
1 Understanding the System

Accessory Options - Wall

- Frosted light diffusing backer
- 12mm acoustic backer
- Backlight
- InLine light

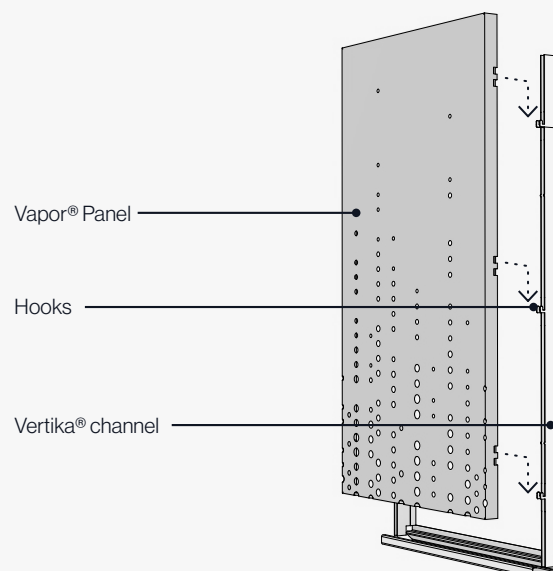
 Check out our Configuration examples on PAGE 10.

* A Specific InLine light panel is used to accommodate the width of the fixture within the 600mm width.



Attachment System - Wall

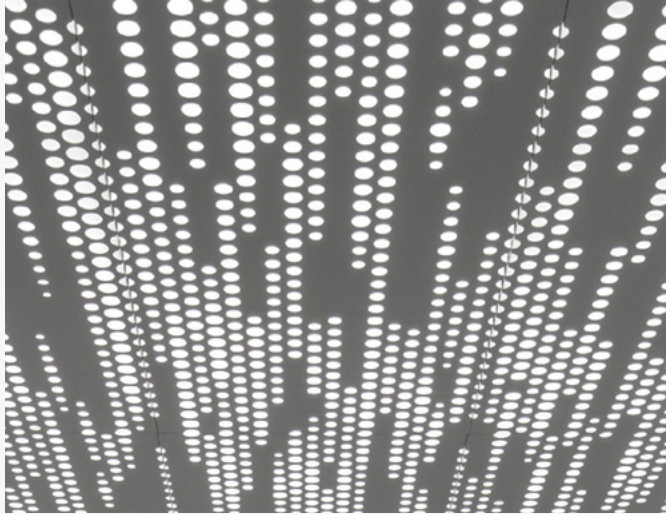
Panels are easily installed or removed by sliding onto or lifting off from the system's Vertika® channel hooks.



2

Optional Accessories

Lighting

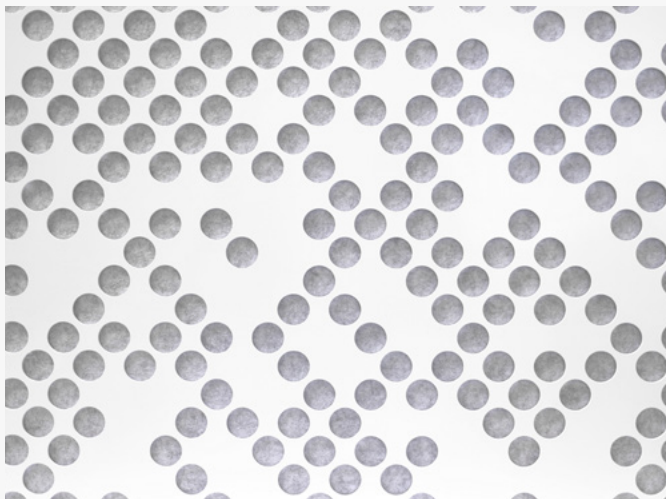
**Backlighting**

Arkтура Backlighting allows you to fully illuminate your ceiling and wall panel installs, creating beautiful evenly lit surfaces. These fixtures are available in high and low output versions, both dimmable. See Backlighting specs details on PAGE 14.

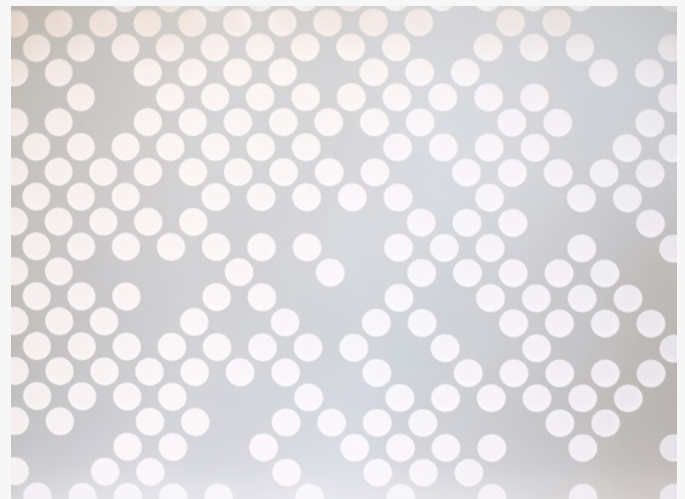
**InLine Lighting**

Our InLine Light sits flush with the face of the panels while conveniently attaching to the bottom of the grid. Fixtures: 1200 and 2400 lengths. A special side-light Vapor® panel allows the light to straddle its 1200mm edge while staying within a 600mm overall width. See Inline Lighting specs details on PAGE 15.

Backers

**Acoustic Backer**

We offer various options of Soft Sound® panel inserts to achieve a variety of NRC ratings. Please refer to our True NRC® table of ratings.

**Translucent Backer**

Our proprietary light diffusing backers can be used to create a functional or decorative lighting effect in any space.

 Illustrative diagrams. Patterns may not match the product.

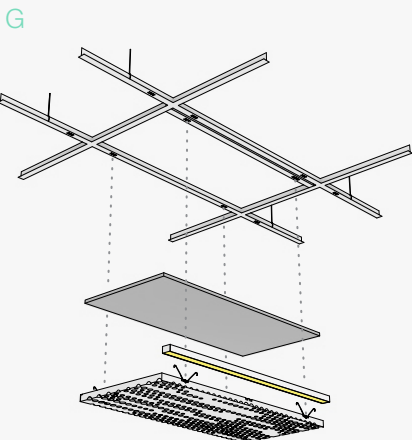
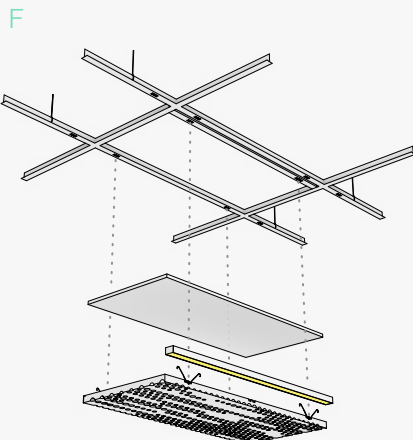
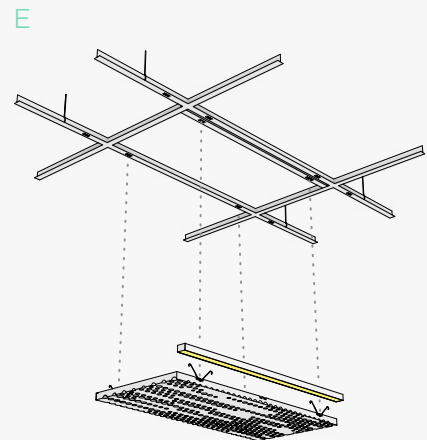
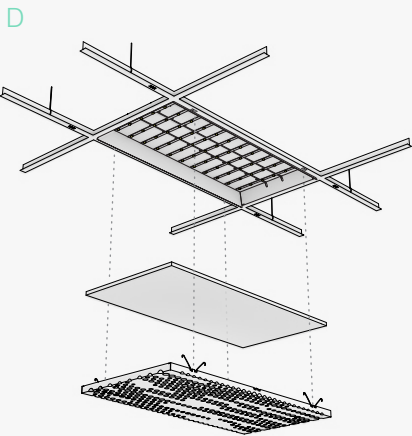
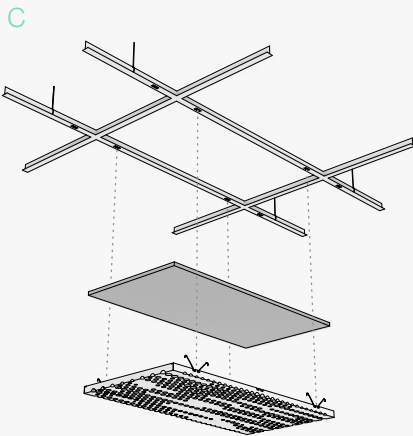
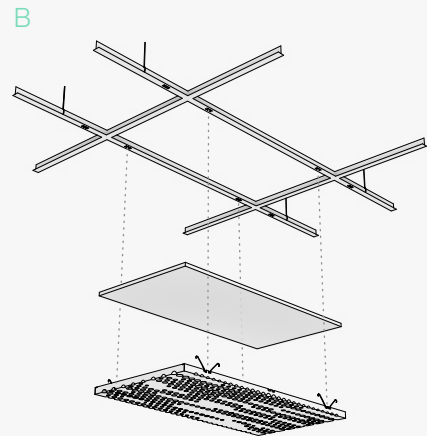
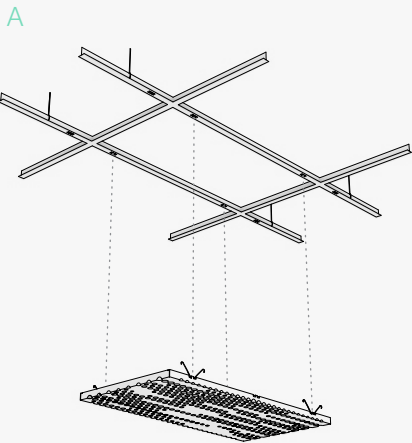
2 Optional Accessories

Possible Configurations

Refer to the chart and corresponding diagrams below for available configuration options.

	No Backer	Translucent Backer	Soft Sound® Backer
No light	A	B	C
Backlight		D	
InLine	E	F	G

Looking to combine backlight with acoustic performance in the same panel?
Check out our VaporSoft® line.



Illustrative diagrams. Patterns may not match the product.

3 Available Finishes

Aluminum Panel

Powder Coat
Standard Finish



T-Grid White*
(Matte)



Arktura White
(Matte)



Brilliant White
(Gloss)



Silver Metallic
(Semi Gloss)

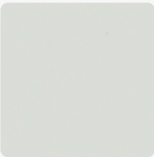


Jet Black
(Matte)

Powder Coat
Premium Finish



Aviator Gray
(Gloss)



Aviator Gray
(Matte)



Steel Gray



Shadow



Midnight



Coffee



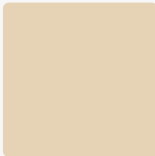
Raw Umber



Caramel



Sandstone



Oat



Sunflower



Torch



Spirit Red
(Matte)



Azure



Blue Steel



Forest Green

Powder Coat
Premium Metallic Finish



Chilled Champagne
(Semi Gloss)



Burnished Bronze
(Semi Gloss)

Custom Powder Colors

We offer premium non-stock RAL and custom color match options as well. Contact your sales rep for more information.



Non-stock
RAL



Non-stock
Metallic

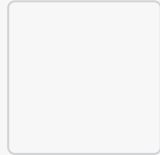
* This color was designed to pair with Armstrong color "WH" grid and trim.

③ Available Finishes

Optional Translucent Backer

Polycarbonate

Available in interior and UV stable exterior options.



Frosted

Optional Soft Sound® Backer

Soft Sound®

Color Group A

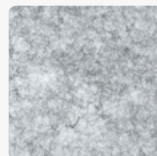
Standard



White



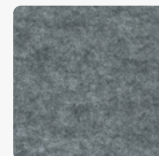
Snow



Marble



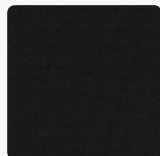
Heather Gray



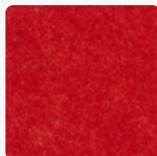
Graphite



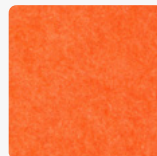
Carbon



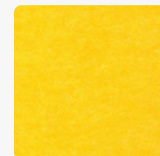
Onyx



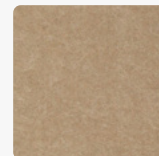
Apple



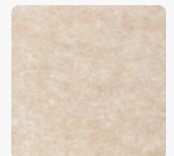
Tangerine



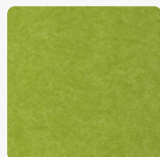
Lemon



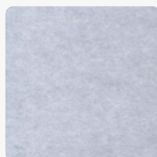
Taupe



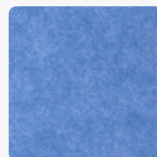
Sand



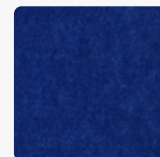
Kiwi



Whisper




Sky Blue



Denim

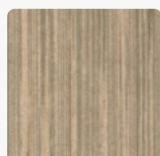
Soft Sound® Wood Texture Premium

 As with natural wood, variation in color and grain is expected and grain will not align across panels.

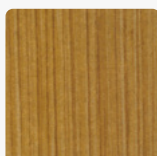
Core



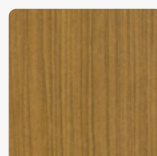
Face



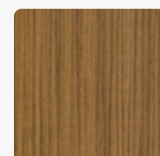
Gray Ash



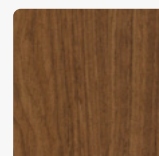
White Oak



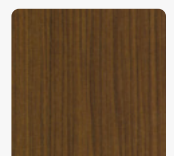
Golden Oak



Oak



American Walnut

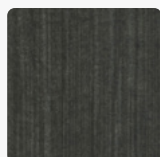


Charred Oak

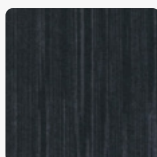
Core




Face



Charred Ash



Ebony

 Due to the nature of non-woven materials, light may pass through Soft Sound® in any thickness or color. A translucent appearance is most apparent in lighter colors and thin material when a light source is present behind the material. Arkтура makes no claims or warranties about the material performing as opaque in any circumstance. To verify a products performance for light transmittance, a mockup of the specific intended use is recommended.

4

Product Specifications & Certifications

System Specs

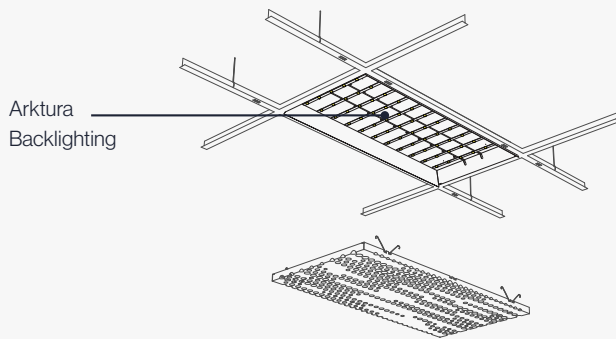
Panel Size (WxHxD)	600 X 1200 X 38
Material	Aluminum
Openness in Plan	17%
Fire Rating	ASTM E84 - Class A 13501-1 B-s1, d0
Acoustics (with optional Soft Sound® backer)	True NRC® 0.40: Ceiling ; E-300 Method True NRC® 0.50: Wall ; F-70 Method
Ceiling Attachment	Torsion Grid (By Others)
Wall Attachment	Vertika® Wall (Refer to Vertika® Brochure)
Accessibility	Torsion Spring Hinge
Trimmability	Yes, per installation manual
Optional Accessories	Acoustic Backer, Translucent Backer, Backlight, InLine Light, Torsion Spring Adapter Clip

Lighting Specs

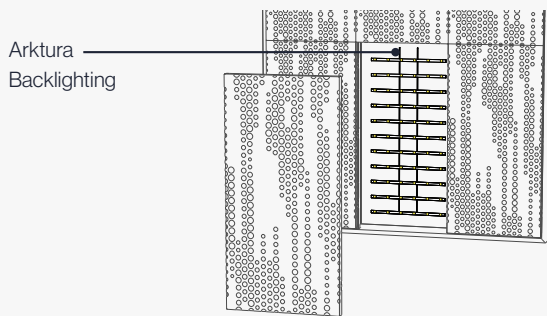
Arktura Backlighting

Available in dimmable low and high output variations, gives you the power to illuminate spaces and create dynamic visual effects.

Ceiling

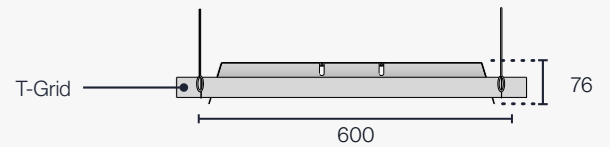


Vertika® Wall

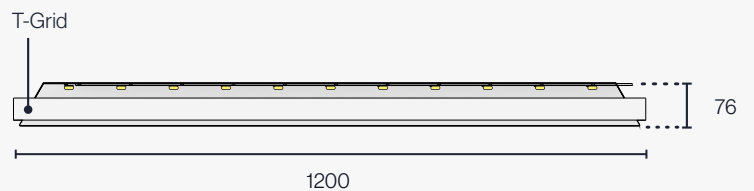


Sections

Front view



Side view

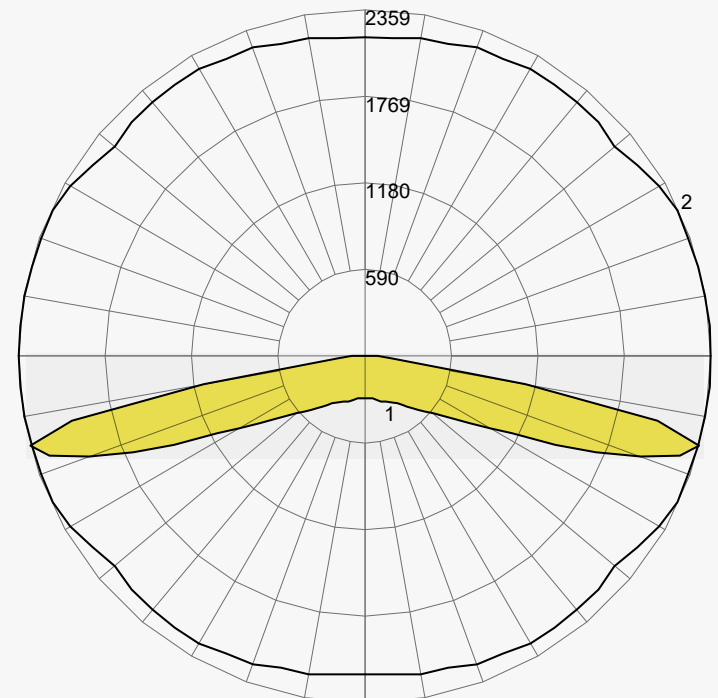


Photometric

Located At Horizontal Angle = 0, Vertical Angle = 0

#1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

#2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



Specs

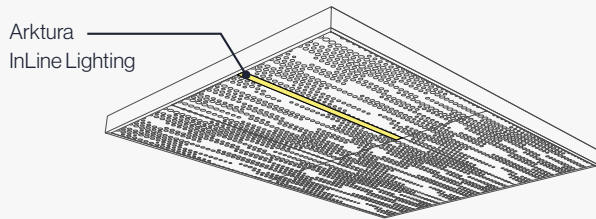
Product Features	Arktura Backlighting Eco	Arktura Backlighting
Total Lumens	2250 Lm/2x4 Panel	4050Lm/2x4 Panel
Delivered Lumens	2250 Lm/2x4 Panel	4050Lm/2x4 Panel
Power Consumption	25 Watts 2x4 Panel	45 Watts 2x4 Panel
CRI	80+	
Color Temperatures	3000k, 3500k, 4000k (Other temperatures on request)	
Size (LxWxD)	600 X 1200 X 76	
UL Rating	Listed	
Voltage	24 Volts	
Dimming Options	MLV, 1-10V, 0-10V	
Plenum Rated Wire	Standard	

Lighting Specs

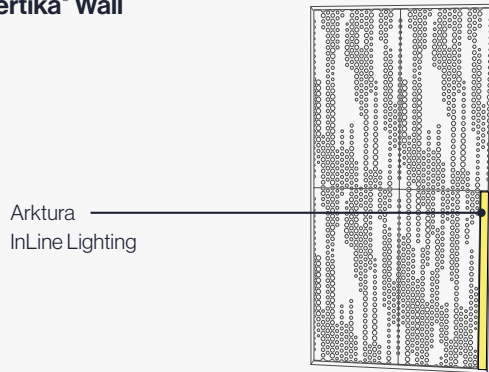
Arktura InLine Lighting

Makes it easy to seamlessly integrate linear lighting into the design of your paneling.

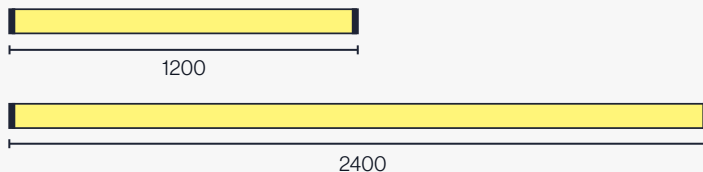
Ceiling



Vertika® Wall



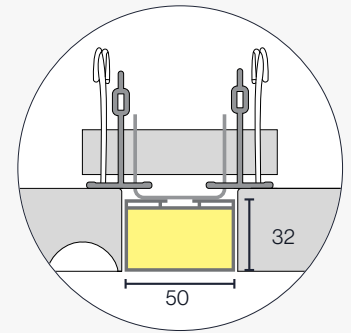
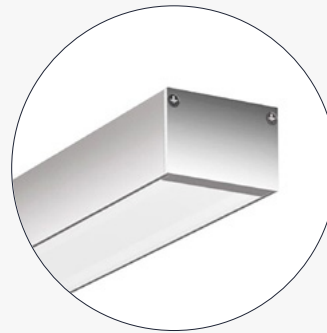
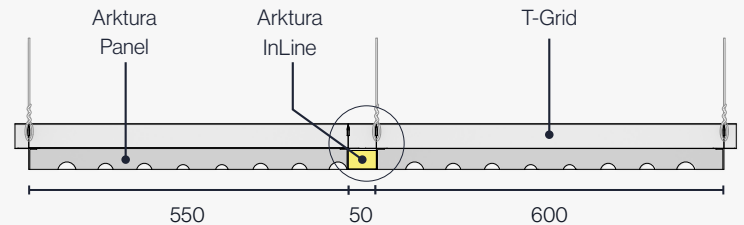
Side - Length Options



Specs

Product Features	Arktura InLine Eco	Arktura InLine
Total Lumens	640 Lm/Ft	1280 Lm/Ft
Delivered Lumens	480 Lm/Ft	960 Lm/Ft
Power Consumption	6W/Ft	12W/Ft
CRI	95+	
Color Temperatures	3000k, 3500k, 4000k (Other temperatures on request)	
Size (LxWxD)	600 X 50 X 32 X 2438 X 50 X 32	
UL Rating	Recognized	
Voltage	24 Volts	
Dimming Options	MLV, 1-10V, 0-10V	
Plenum Rated Wire	Standard	

Elevations

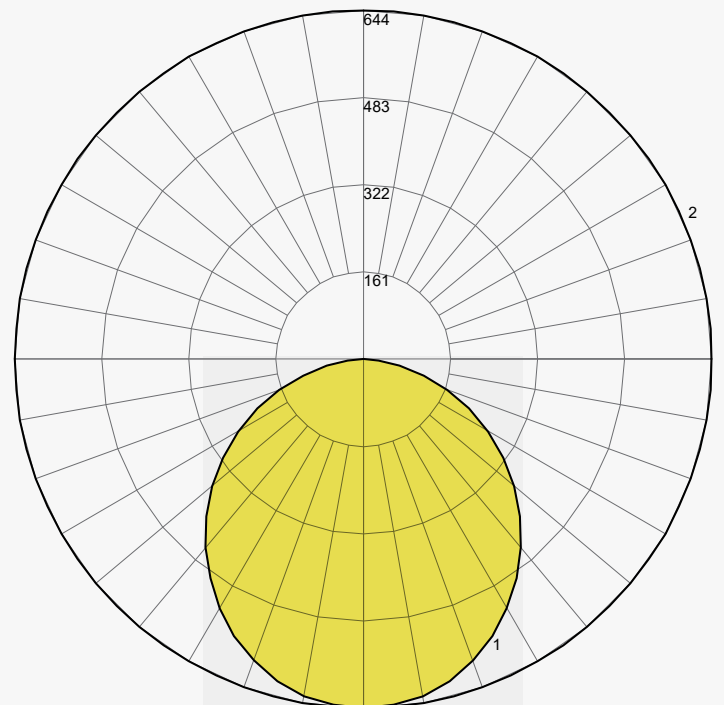


Photometric

Located At Horizontal Angle = 0, Vertical Angle = 0

#1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

#2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

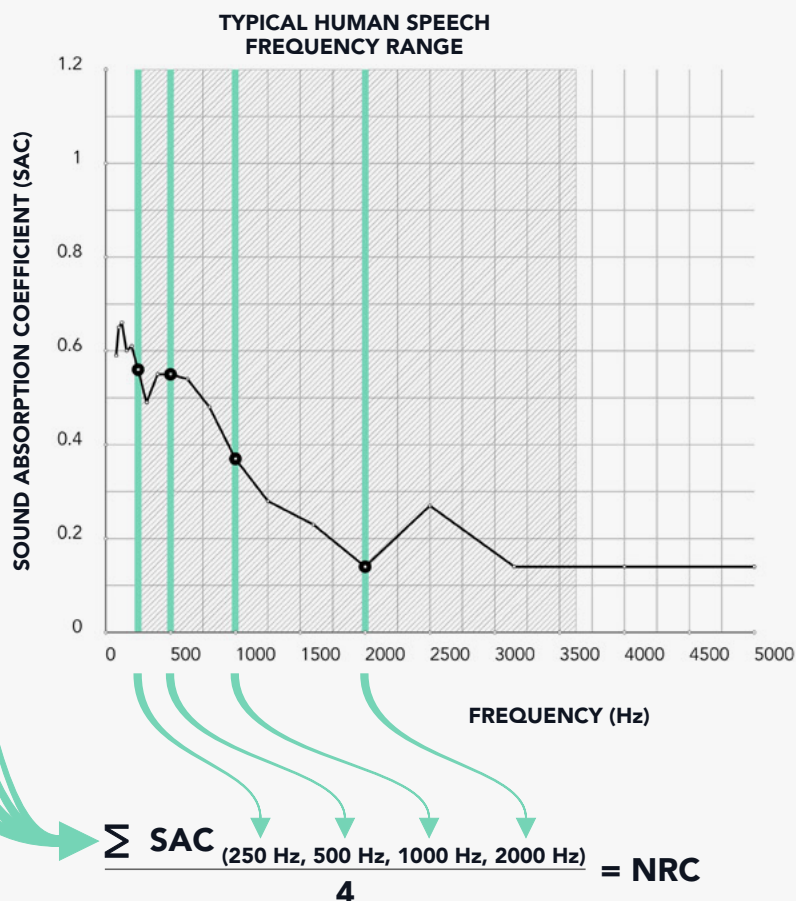


Acoustic Performance

Vapor® Frequency with 12mm Soft Sound® backer.

TRUE NRC® is Arktura's commitment to providing accurate and appropriate acoustic data for our products. It represents testing based on realistic conditions for the use of our products.

FREQUENCY (Hz)	SOUND ABSORPTION COEFFICIENT (SAC)
80	0.59
100	0.65
125	0.66
160	0.60
200	0.61
250	0.56
315	0.49
400	0.55
500	0.55
630	0.54
800	0.48
1000	0.37
1250	0.28
1600	0.23
2000	0.14
2500	0.27
3150	0.14
4000	0.14
5000	0.14



Test Arrangements

Most popular application highlighted **green**.

E300 Mounting Type - Ceiling - NRC: 0.40

In this mounting type, the specimen is an array of spaced sound absorbing panels suspended from a T-Grid system approximately 300mm (11.8") above the horizontal test surface, measured from the face of the panel. This approximates the mounting method of a typical ceiling panel installation. Panels were evenly distributed in a 2x4 arrangement 1/16" apart in all directions.

F70 Mounting Type - Wall - NRC: 0.50

In this mounting type, the specimen is separated from the horizontal test surface 70mm (2.8") from the back of the panel with spacers. This is intended to simulate normal use of the product with the Vertika® wall mount system.

F150 Mounting Type (Soft Sound® Material Only) - NRC: 0.90

In this mounting type, the specimen is separated from the horizontal test surface 150mm (5.90") from the back of the panel with spacers. This is intended to simulate the raw material using spacers or spacing clips.

i Acoustic performance can vary widely based on how a product is mounted. Learn more about acoustic performance and how NRC is calculated at True NRC®. Testing was conducted through Intertek, Lake Forest, CA per ASTM C423.

True NRC®: 0.40

SAA: 0.42

Test Results for Ceiling Install with E300 Mounting Type

ACOUSTIC
TESTING
ASTM C423

Definitions

Sound Absorption Coefficient describes the fraction of the incident sound energy that a material absorbs. Theoretically it can vary from 0 (no energy absorbed) to 1.0 (perfect absorption with all incident sound energy absorbed.)

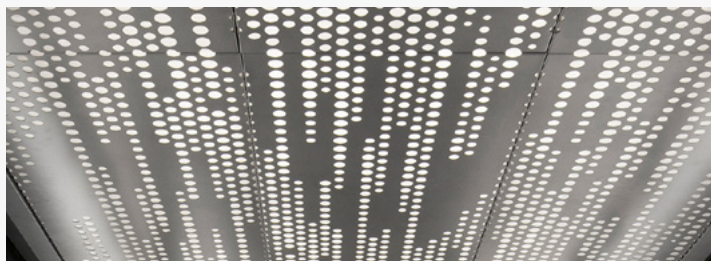
NRC (Noise Reduction Coefficient) rating is the average of the sound absorption coefficients at 250, 500, 1000 and 2000 hertz. The average is rounded to the nearest multiple of 0.05.

SAA (Sound Absorption Average) rating is the average of the sound absorption coefficients at an octave range of 12 frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.

Product Line

Design Options

Vapor® offers a growing library of metal panels in preconfigured seamlessly tileable patterns that can also be mixed and matched as desired. For additional acoustic performance, take a look at our Soft Sound® faced VaporSoft®.



VAPOR® TRAIL



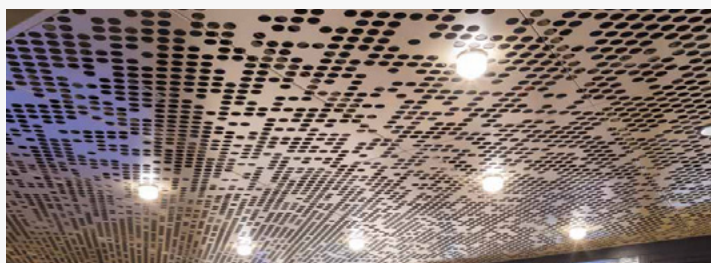
VAPOR® PIXEL



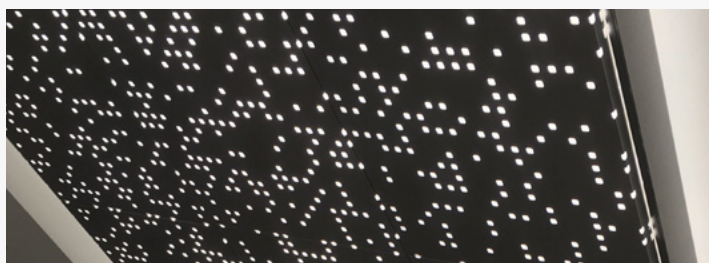
VAPOR® CUMULA



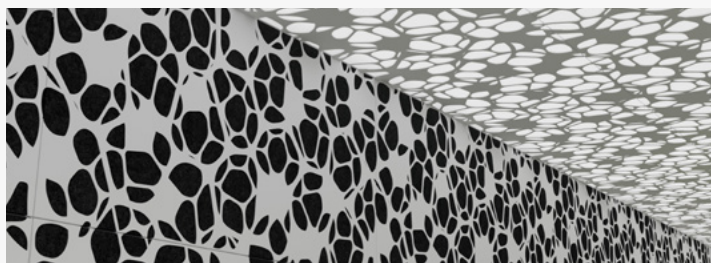
VAPOR® BYTE



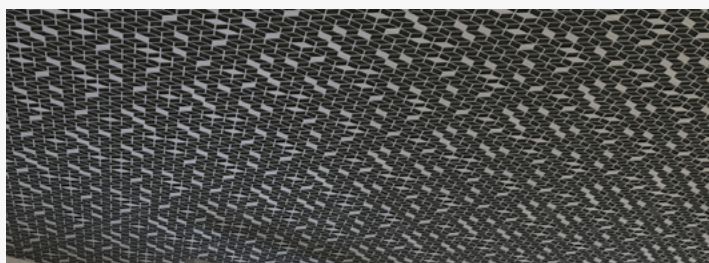
VAPOR® CLUSTER



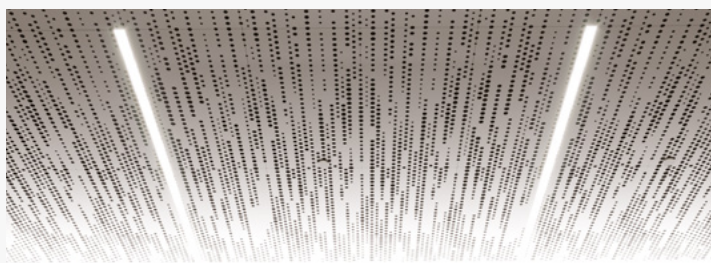
VAPOR® SYNTAX



VAPOR® SHIFT



VAPOR® CORA



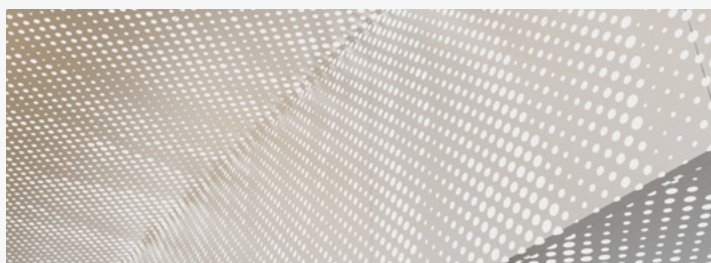
VAPOR® FREQUENCY



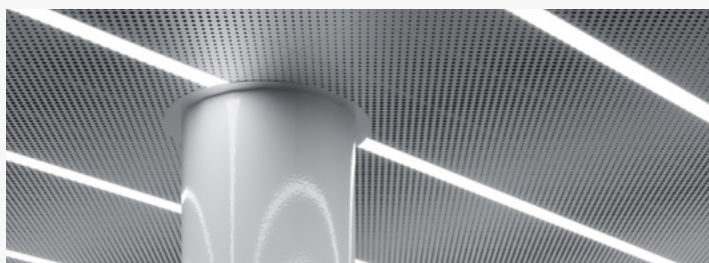
VAPOR® LIANA

Product Line

Design Options



VAPOR® SKY



VAPOR® GRADIENT



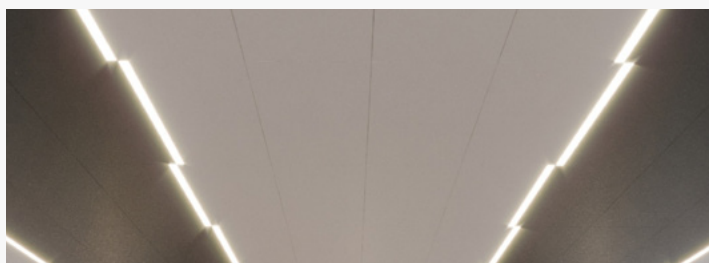
VAPOR® ELEMENT



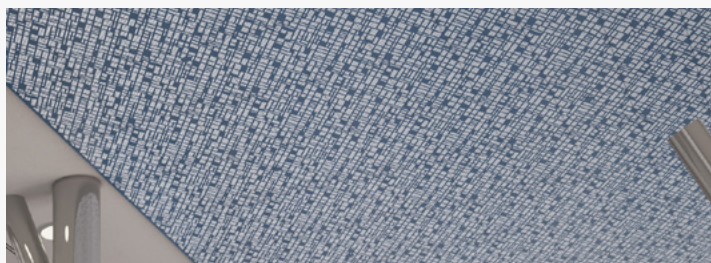
VAPOR® BLOOM



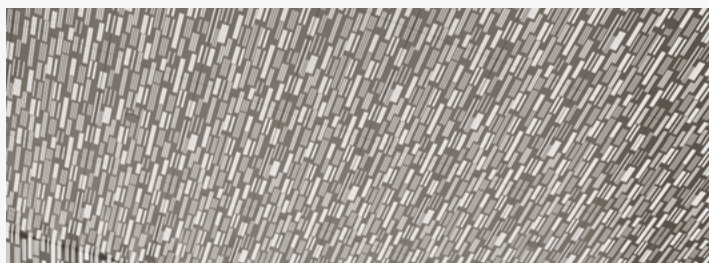
VAPOR® BREEZE



VAPOR® SOLID



VAPOR® TRANSIT



VAPOR® VERVE



VAPOR® BOND