# Vapor® Cora

## Ceiling & Wall **Panels**

ARKTURA

*Fueling Possibilities*®

# Our Key Features

Don't settle for standard. Cora aluminum torsion spring panels reimagine a timeless pattern. By adding scattered solid forms to the diamond grid, you get a modern take on a classic look that is sure to turn heads. However, if your design still needs more energy, try adding our optional integrated lighting or our Soft Sound® backers for extra acoustic comfort.

## 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.
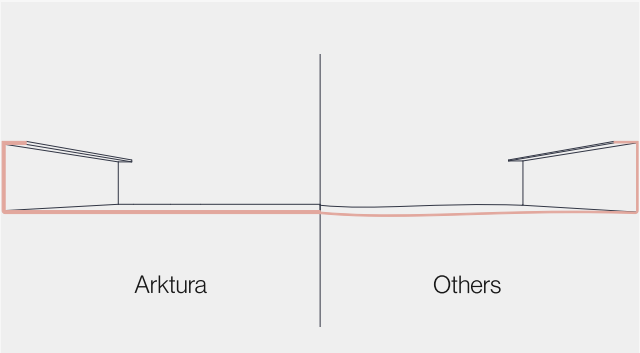
## Superior Flatness & Strength

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.

Arktura          Others
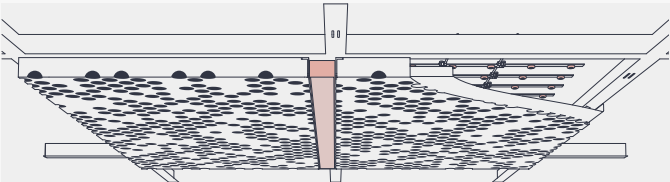
## Integrated Lighting Options

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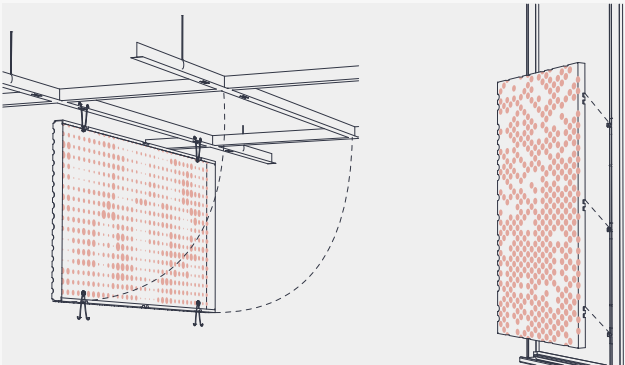
## Easy Installation & Access

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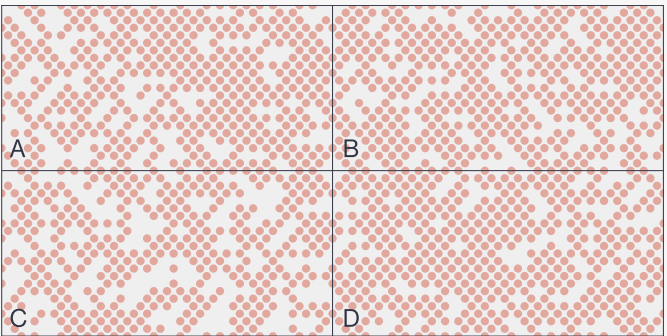
## Preconfigured Solutions

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.
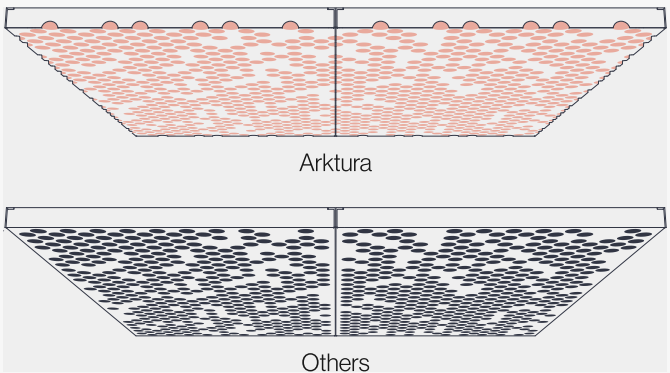
## Continuous Pattern Aesthetic

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

Arktura

Others

# Inspiration



**Illuminate your Space with Arktura Backlighting**



**Add Geometric Pattern to Facades**



**Create Dynamic Wall to Ceiling Transitions**

# Overview

## 1 Understanding the System

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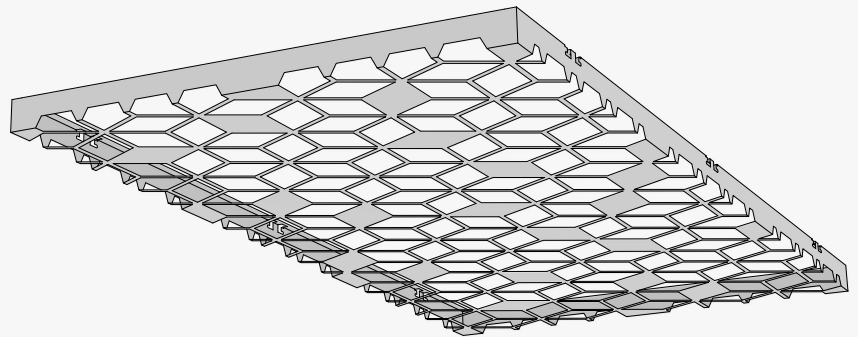
Vapor® is a modular accessible aluminum panel system designed to work with torsion grid. Customization is available.



### Seamlessly Join Walls & Ceilings

Vapor® easily transitions from one plane to another and around corners.
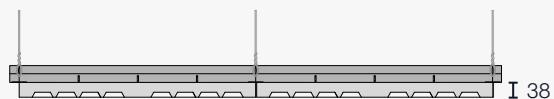
# 1  Understanding the System

## Understanding the Panel

The pattern surface is created by seamlessly tiling across your space.
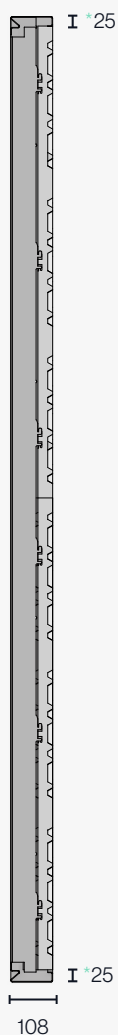
Panel A: 66% Open

*  Vertika® Trim

**Ceiling Section**

38

**Panel Configuration, Wall or Ceiling**

**Wall Section**

*25

*25

108

1200

600
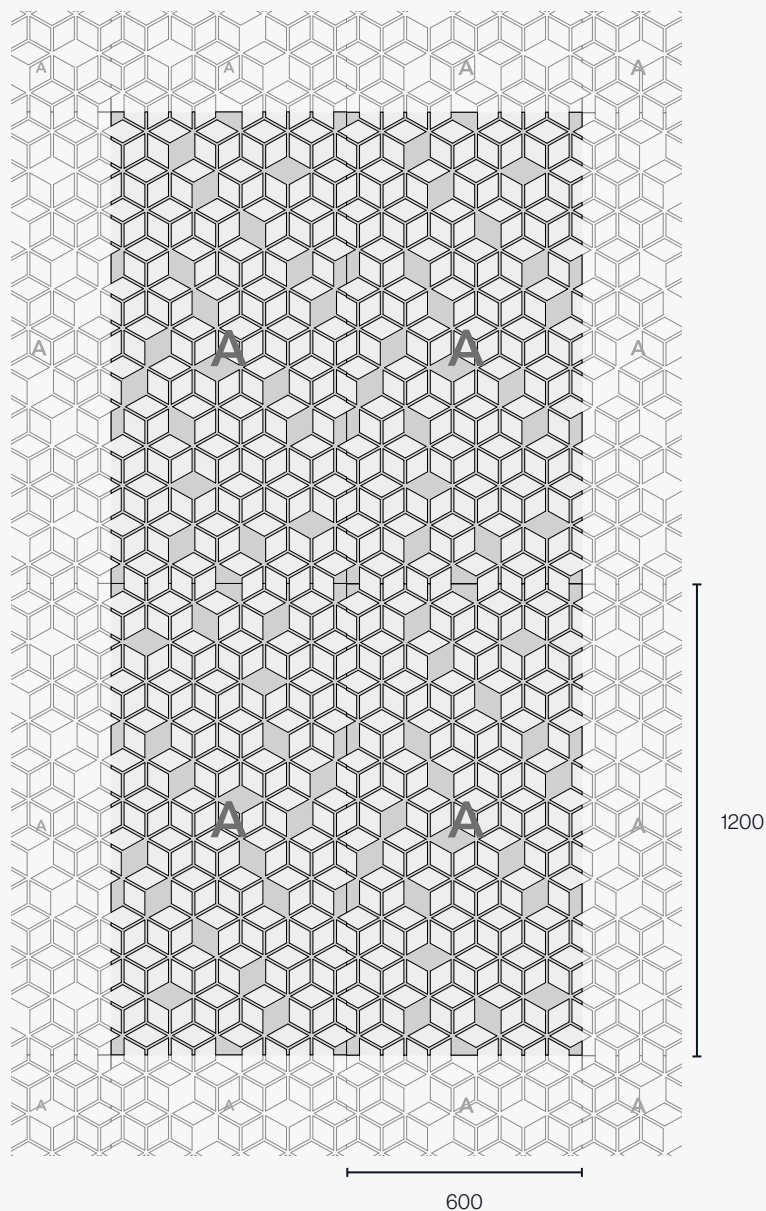
ⓘ All dimensions are in mm unless otherwise specified.

⚠ All dimensions nominal.

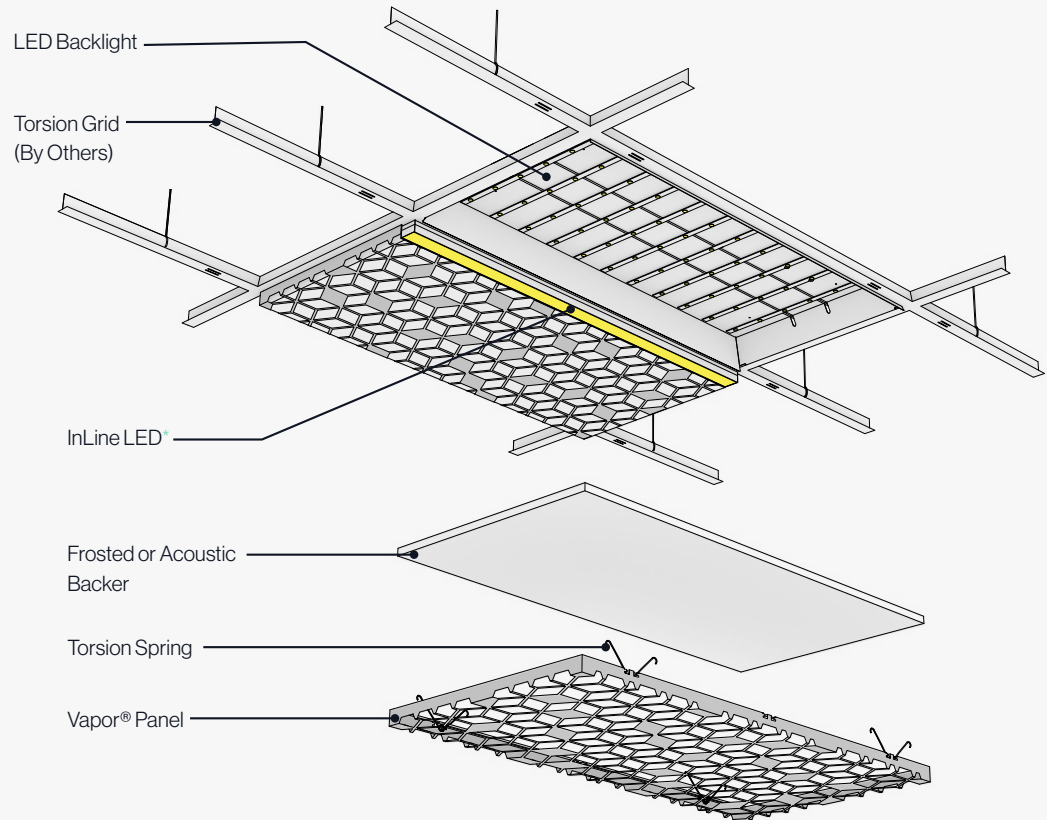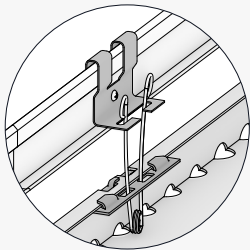# 1  Understanding the System

## Accessory Options - Ceiling

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

(i) Check out our Configuration examples on PAGE 10.

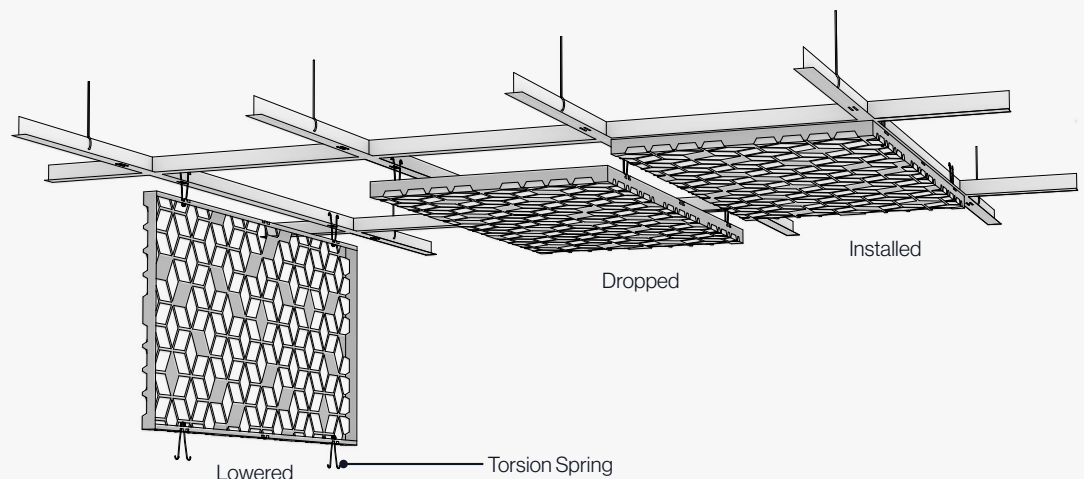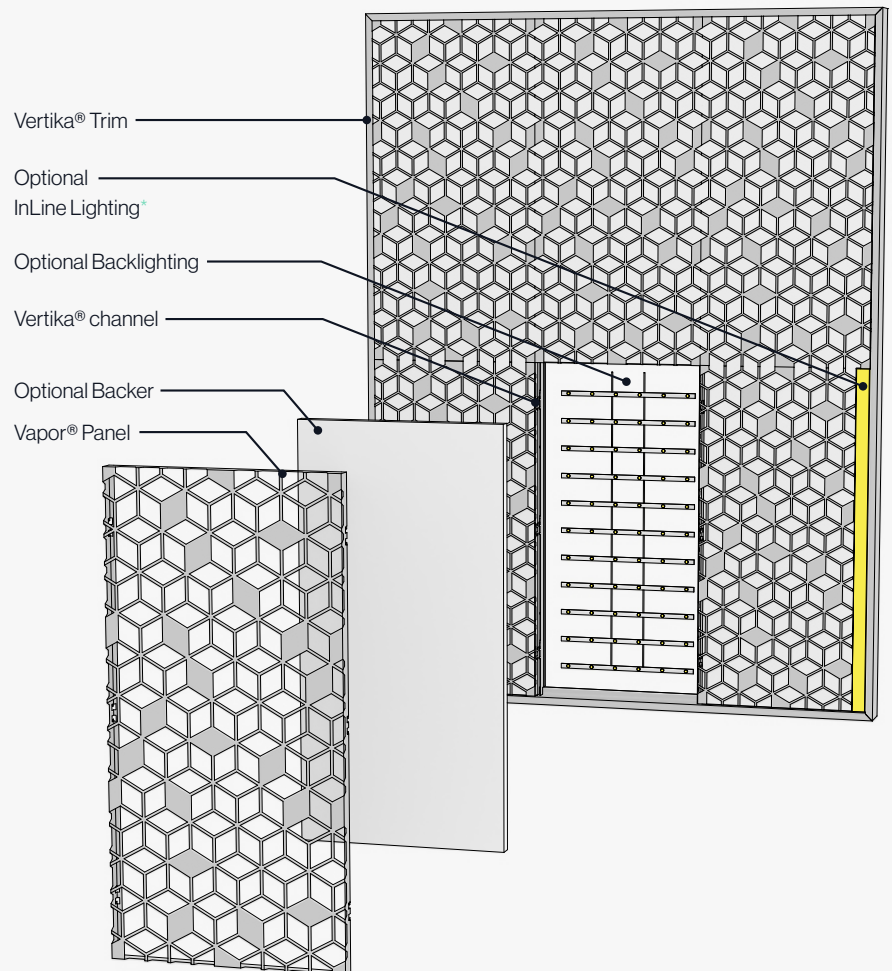\* A Specific Inline light panel is used to accomodate the width of the fixture within the 600mm width.

### Torsion Spring Adapter Clip

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

LED Backlight

Torsion Grid (By Others)

InLine LED\*

Frosted or Acoustic Backer

Torsion Spring

Vapor® Panel

## Attachment System - Ceiling

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

Installed

Dropped

Lowered

Torsion Spring

# 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 accomodate the width of the fixture within the 600mm width.

Vertika® Trim

Optional
InLine Lighting*

Optional Backlighting

Vertika® channel

Optional Backer

Vapor® Panel

## Attachment System - Wall

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

Vapor® Panel

Hooks

Vertika® channel
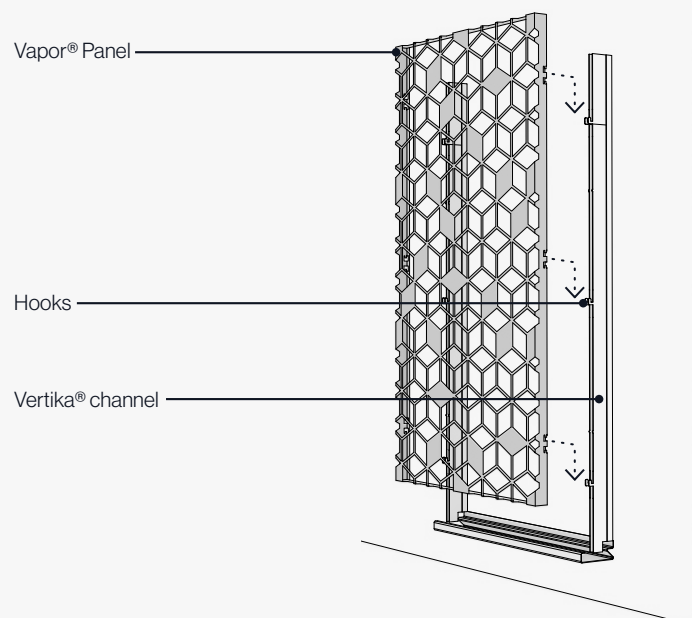
## 2 Optional Accessories

### Lighting
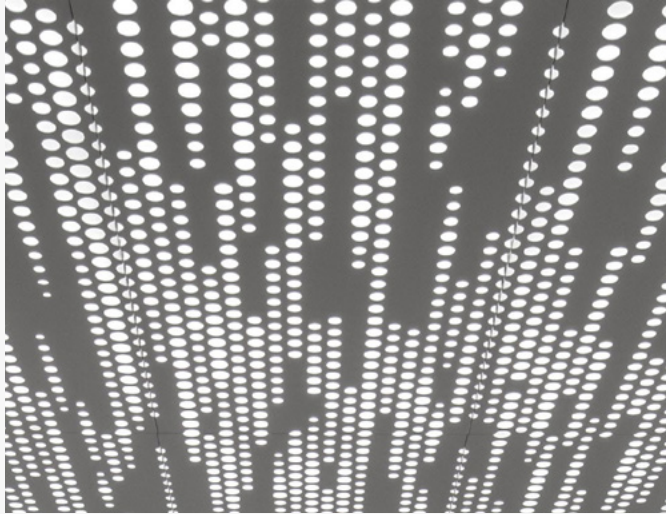




**Backlighting**

Arktura 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
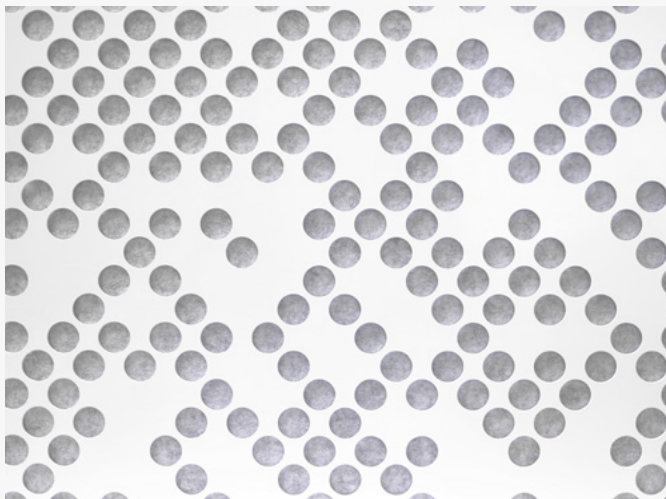




**Acoustic Backer**

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.
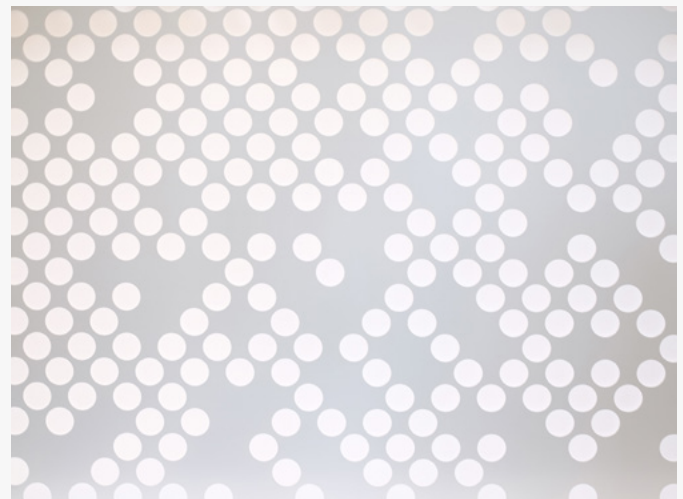
**Translucent Backer**

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

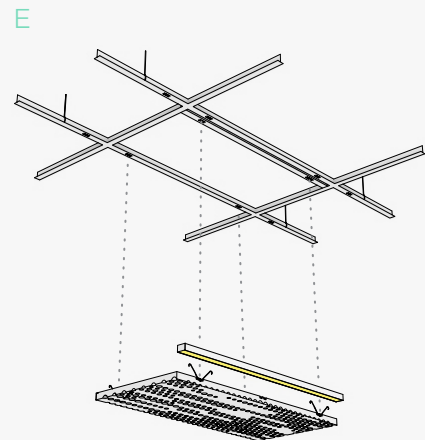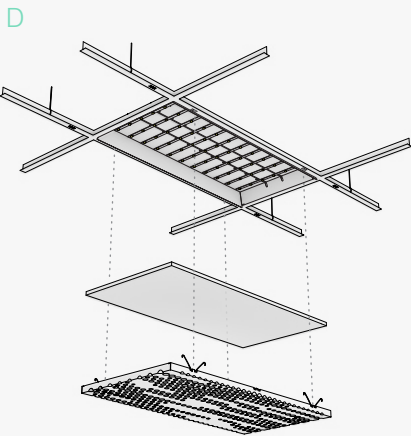ⓘ Illustrative diagrams. Patterns may not match the product.
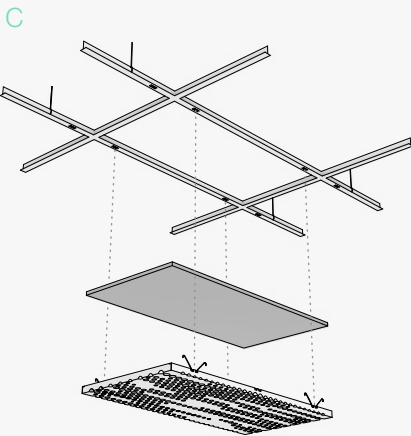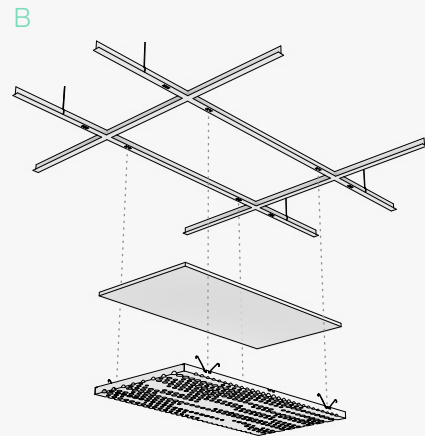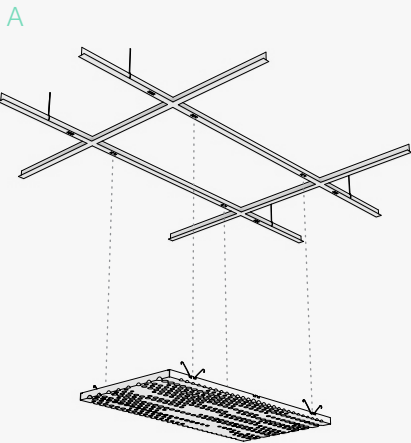
## ② Optional Accessories

### 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.

A



B



C



D



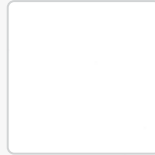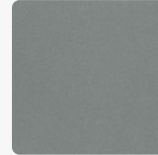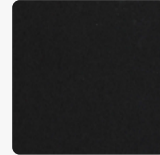E



F



G
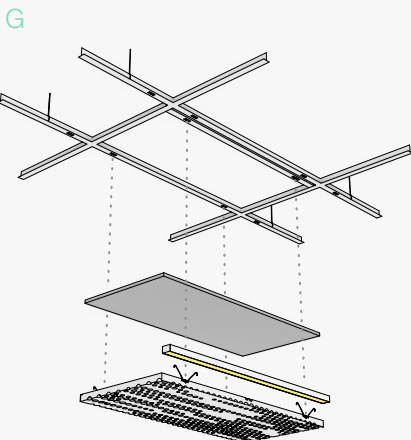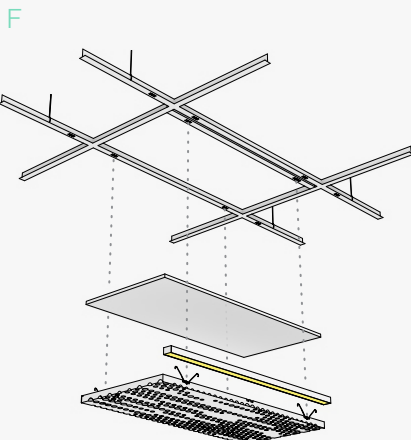


ⓘ Illustrative diagrams. Patterns may not match the product.

# 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
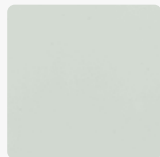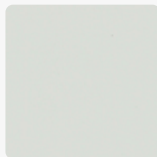
| | | | | | |
|---|---|---|---|---|---|
| Aviator Gray (Gloss) | Aviator Gray (Matte) | Steel Gray | Shadow | Midnight | Coffee |
| Raw Umber | Caramel | Sandstone | Oat | Sunflower | Torch |
| Spirit Red (Matte) | Azure | Blue Steel | Forest Green | | |
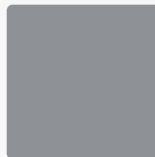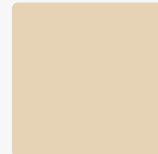
### Powder Coat
Premium Metallic
Finish
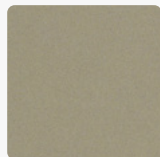
| | |
|---|---|
| Chilled Champagne (Semi Gloss) | Burnished Bronze (Semi Gloss) |
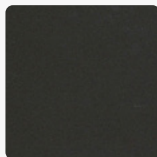
### Custom Powder Colors
We offer premium non-stock RAL and custom color match options as well. Contact your sales rep for more information.
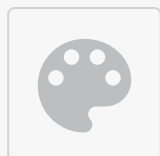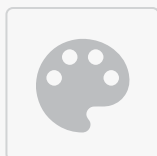
| | |
|---|---|
| Non-stock RAL | Non-stock Metallic |

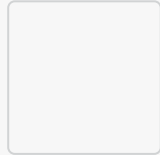* This color was designed to pair with Armstrong color "WH" grid and trim.

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
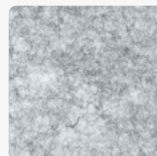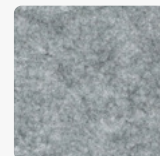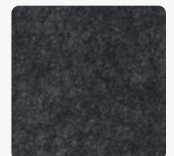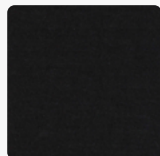
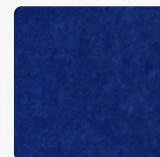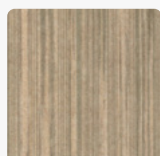| White | Snow | Marble | Heather Gray | Graphite | Carbon |
| Onyx | Apple | Tangerine | Lemon | Taupe | Sand |
| Kiwi | Whisper | Sky Blue | Denim | | |
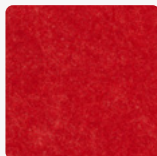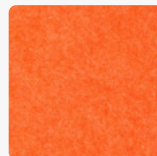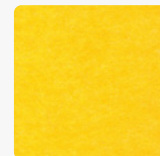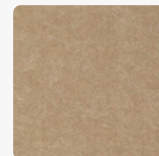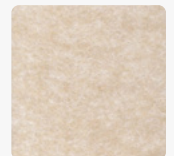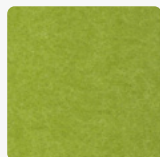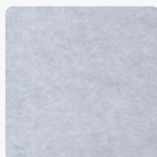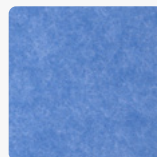
**Soft Sound®
Wood Texture**
Premium

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

Core
Face
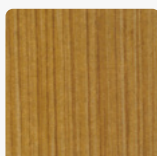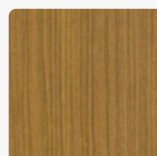
| Gray Ash | White Oak | Golden Oak | Oak | American Walnut | Charred Oak |
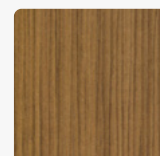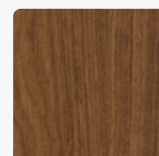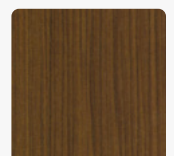
Core
Face
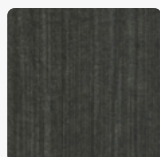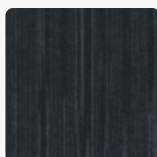
| Charred Ash | Ebony |

⚠ 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. Arktura 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 | 68% |
| Fire Rating | ASTM E84 - Class A \| 13501-1 B-s1, d0 |
| Acoustics<br>(with optional Soft Sound® backer) | True NRC® 0.90: Ceiling ; E-300 Method<br>True NRC® 0.75: 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.
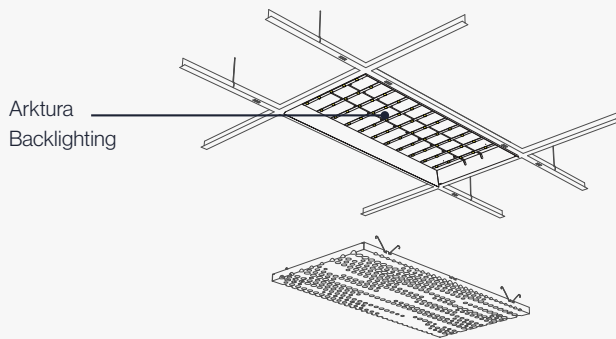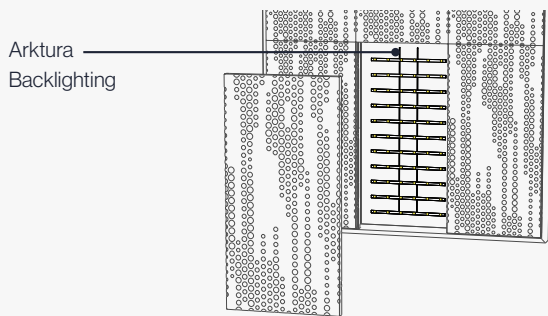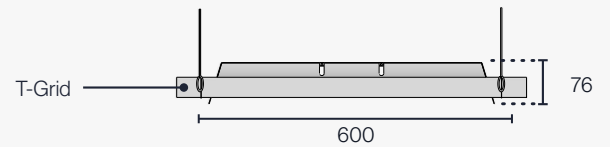
### Ceiling



Arktura Backlighting

### Vertika® Wall



Arktura Backlighting

### Sections

Front view
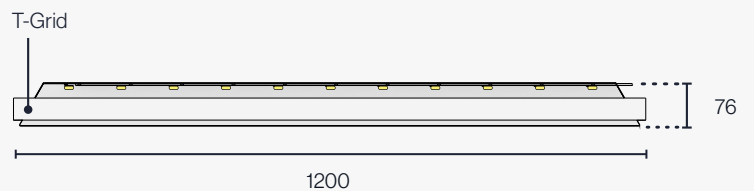


T-Grid

600

76

Side view



T-Grid

1200

76

### 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.)
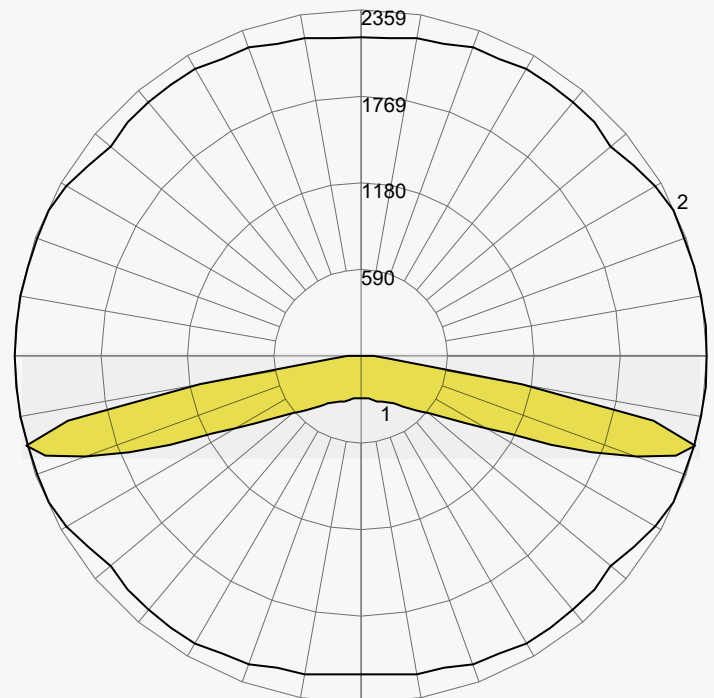


### Specs

| 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

Arktura
InLine Lighting

### Vertika® Wall
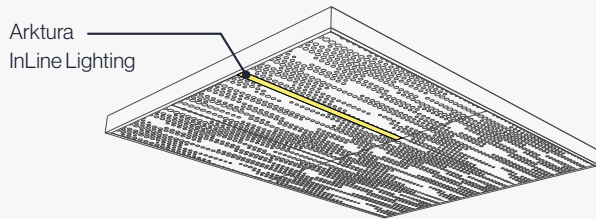
Arktura
InLine Lighting
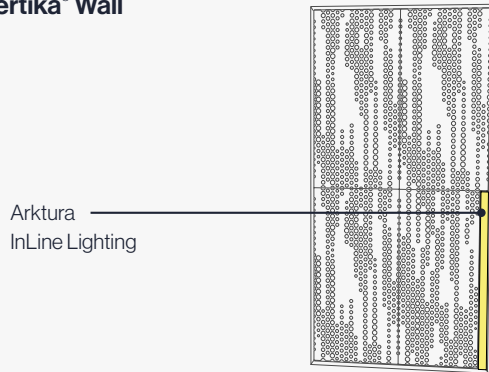
### Side - Length Options

1200

2400
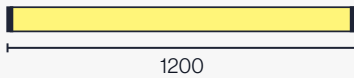
### Specs

| 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
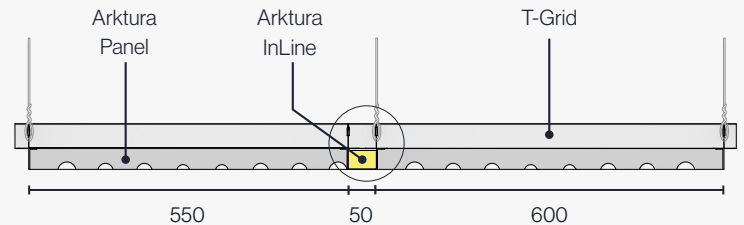
Arktura
Panel

Arktura
InLine

T-Grid

550   50   600

32

50

### Photometric

Located At Horizontal Angle = 0, Vertical Angle = 0
**#1** - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
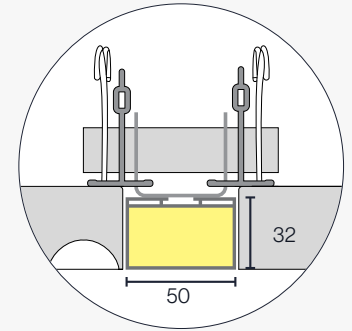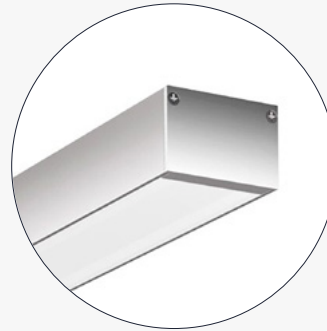**#2** - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

644

483

322

161

2

1

# Acoustic Performance

## Vapor® Cora with 12mm Soft Sound® backer.
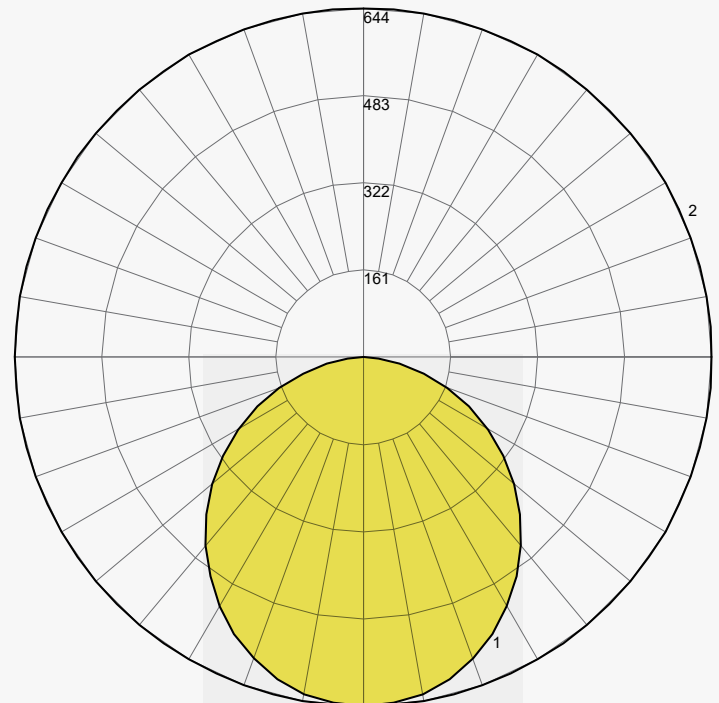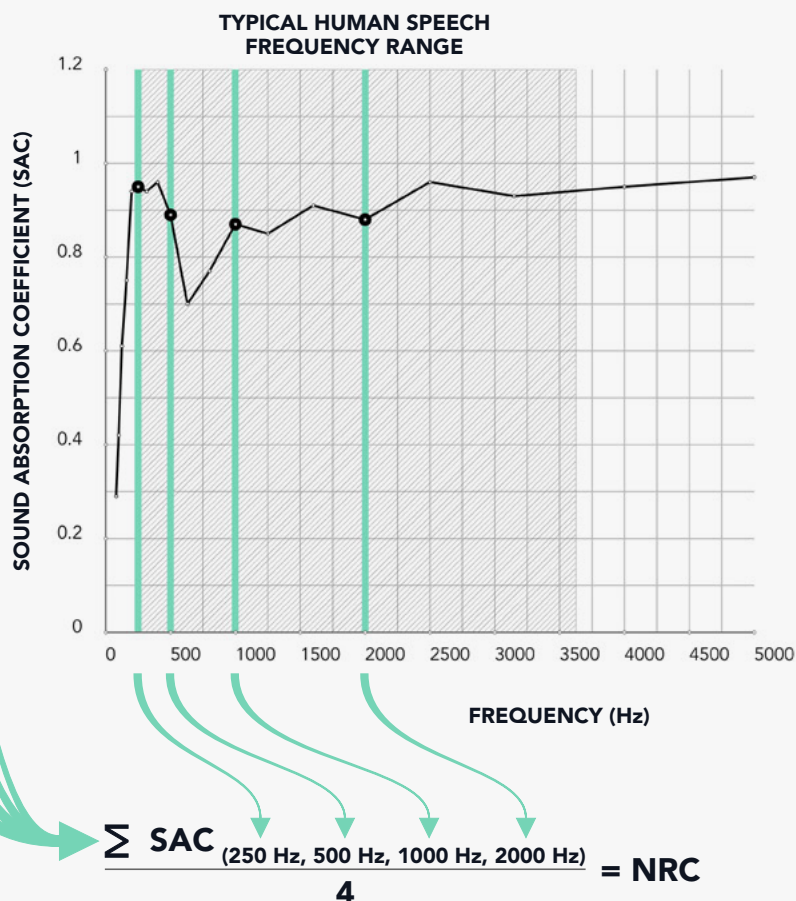
**TRUE NRC®** is Arktura's commitment to providing accurate and appropiate acoustic data for our products. It represents testing based on realistic conditions for the use of our products.

| FREQUENCY (Hz) | SOUND ABSORPTION COEFFICIENT (SAC) |
|---|---|
| 80 | 0.29 |
| 100 | 0.42 |
| 125 | 0.61 |
| 160 | 0.75 |
| 200 | 0.94 |
| 250 | 0.95 |
| 315 | 0.94 |
| 400 | 0.96 |
| 500 | 0.89 |
| 630 | 0.70 |
| 800 | 0.77 |
| 1000 | 0.87 |
| 1250 | 0.85 |
| 1600 | 0.91 |
| 2000 | 0.88 |
| 2500 | 0.96 |
| 3150 | 0.93 |
| 4000 | 0.95 |
| 5000 | 0.97 |

**TYPICAL HUMAN SPEECH FREQUENCY RANGE**



$$\frac{\sum \text{SAC}_{(250\ Hz,\ 500\ Hz,\ 1000\ Hz,\ 2000\ Hz)}}{4} = \text{NRC}$$

## Test Arrangements

Most popular application highlighted green.

**E300 Mounting Type - Ceiling - NRC: 0.90**
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: 0.75**
In this mounting type, the specimen is separated from the horizontal test surface 70mm (2.87") 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.

ⓘ 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®: 0.90 SAA: 0.89 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.
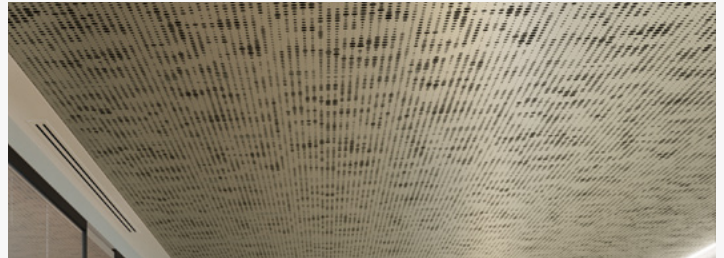
# Product Line

## 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®.
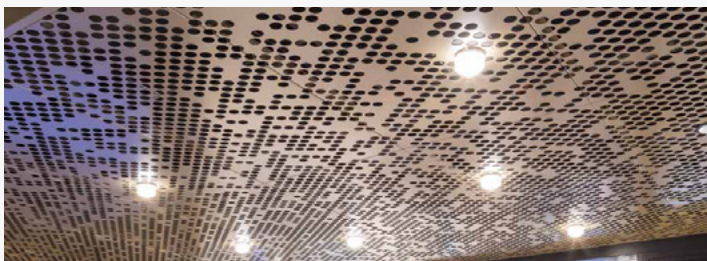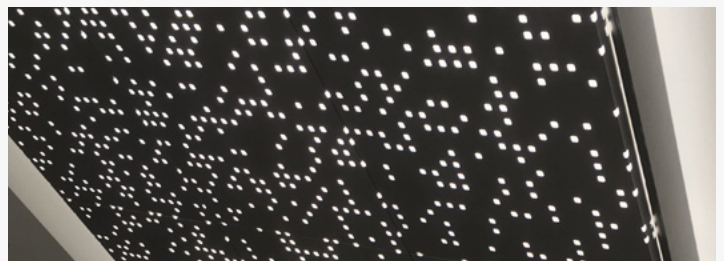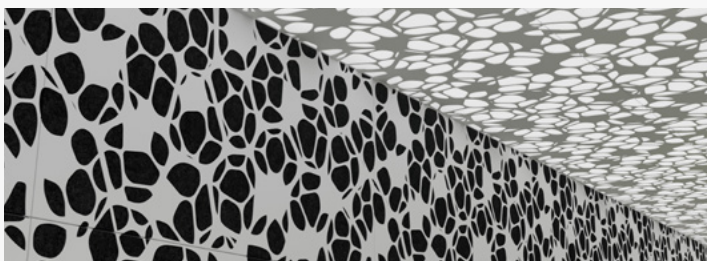


VAPOR® TRAIL



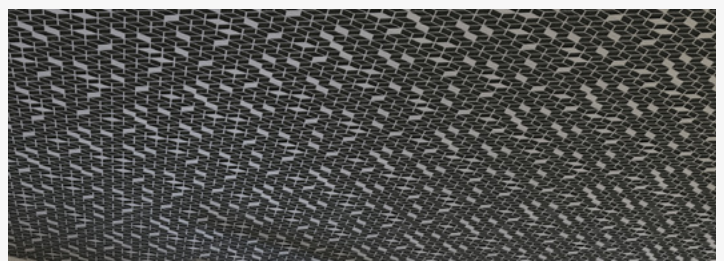VAPOR® PIXEL



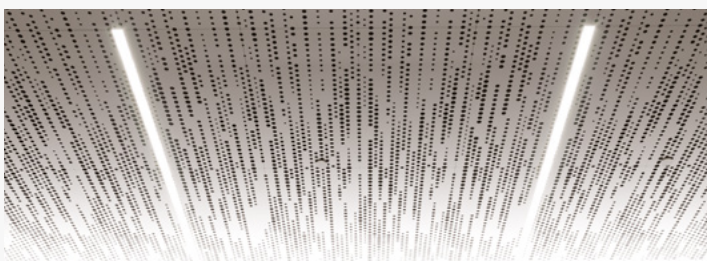VAPOR® CUMULA



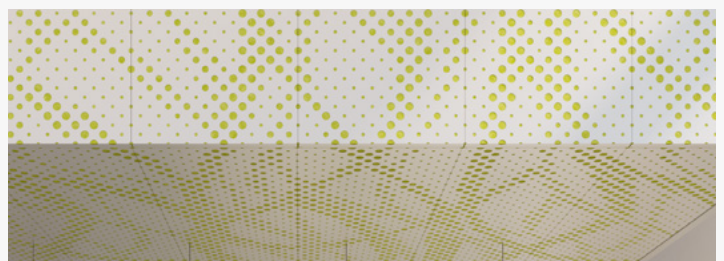VAPOR® BYTE



VAPOR® CLUSTER



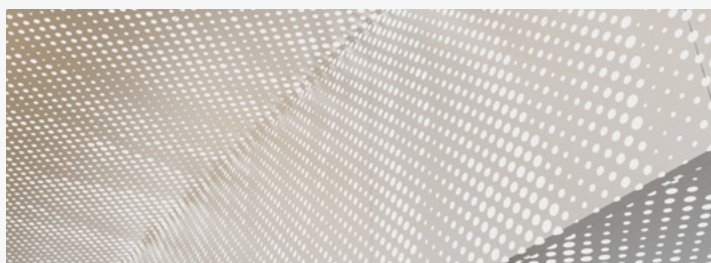VAPOR® SYNTAX



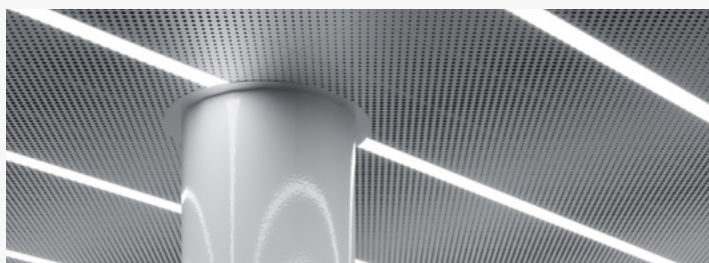VAPOR® SHIFT



VAPOR® CORA



VAPOR® FREQUENCY



VAPOR® LIANA

# Product Line

## Design Options


VAPOR® SKY
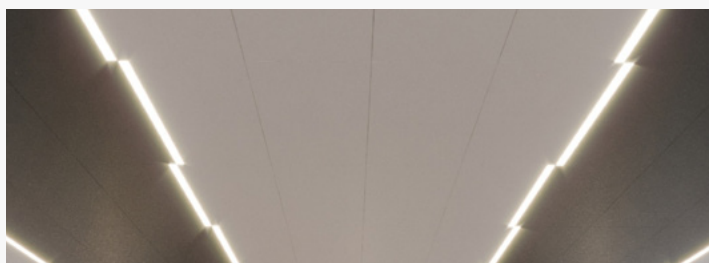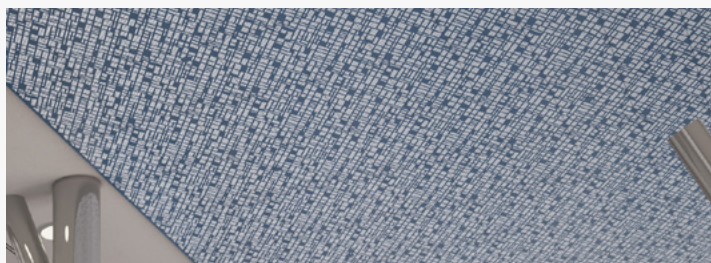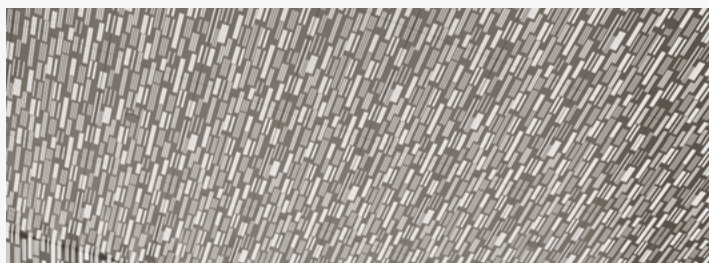

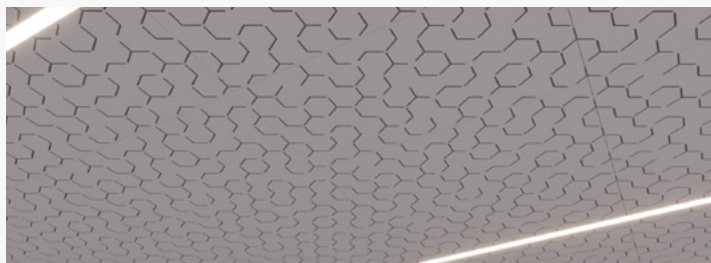VAPOR® GRADIENT


VAPOR® ELEMENT


VAPOR® BLOOM


VAPOR® BREEZE


VAPOR® SOLID


VAPOR® TRANSIT


VAPOR® VERVE


VAPOR® BOND