

# SoftGrid® DECA

## CEILING BAFFLES

LAST UPDATED  
INQUIRIES

12—2022  
INFO @ NOWN.COM

**NOWN**  
A R K T U R A

**SIMPLY  
ELEVATED**



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**KEY FEATURES**



**INSPIRATION**



**OVERVIEW**



**ACOUSTIC PERFORMANCE**

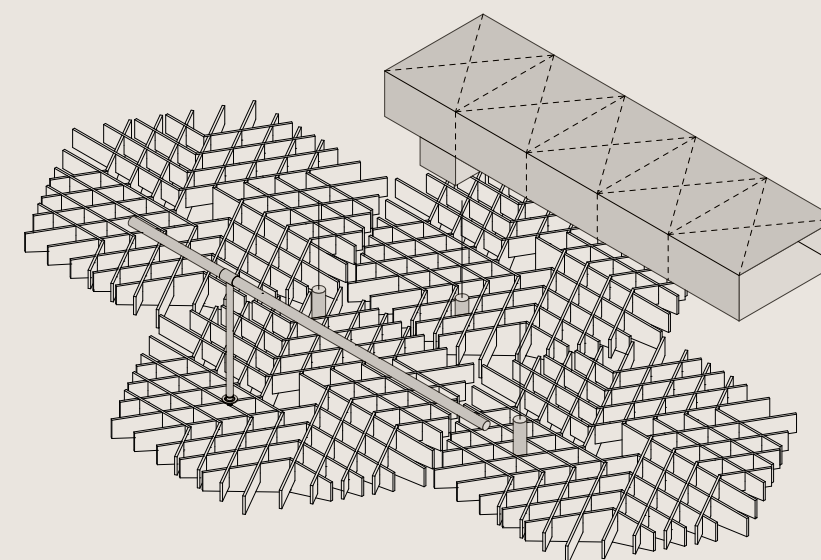


**PRODUCT LINE**

Deca's acoustic ceiling modules bring faceted, dimensional geometry to your design with its inverted hexagonal shapes.

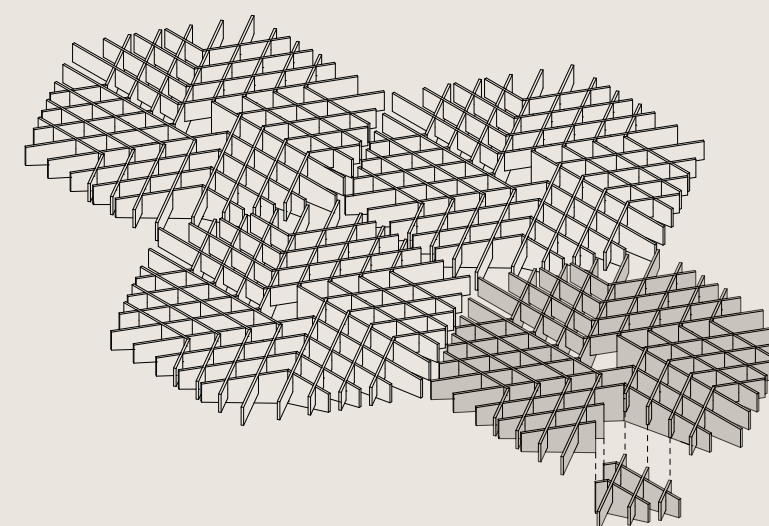
These modules can be combined with other designs for a complex pattern that fills a ceiling or be used individually for a more simple design.

Either way, with their Soft Sound® material, Deca will provide you with the acoustic support you need.



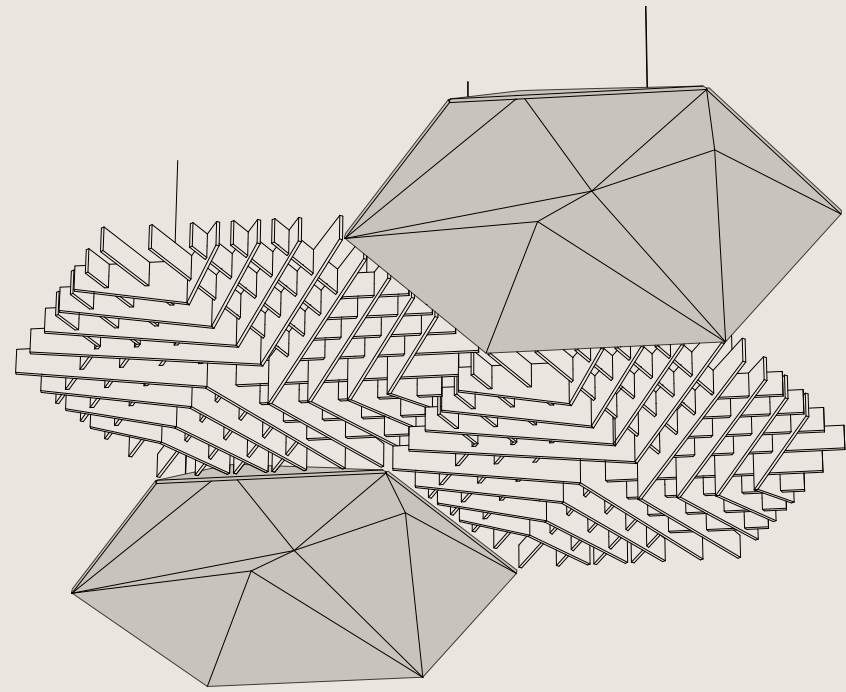
SoftGrid®'s open grid design makes integrating systems above or below the modules simple and feasible. Easily removable fins and open structure makes accessing lights, HVAC, rigging points, plumbing, AV equipment, and life safety systems easy for your maintenance team.

01) Open Plan Accessibility

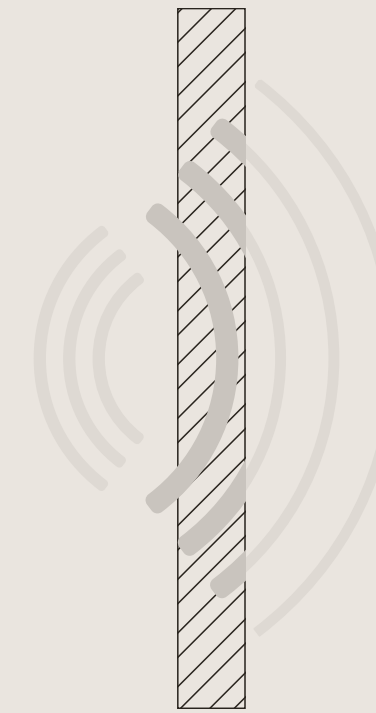


SoftGrid® modules can be trimmed down to a minimum of four fin intersections. By rearranging our adjustable hangers; we make it easy for you to specify standard modules that can be easily field-modified around anticipated or unforeseen site conditions during install.

02) Field Modifiable



SoftGrid®'s hexagonal modules - Deca, Orbit, and Flux - are compatible with SoundStar®. Create dynamic and transformative design variation in any space.

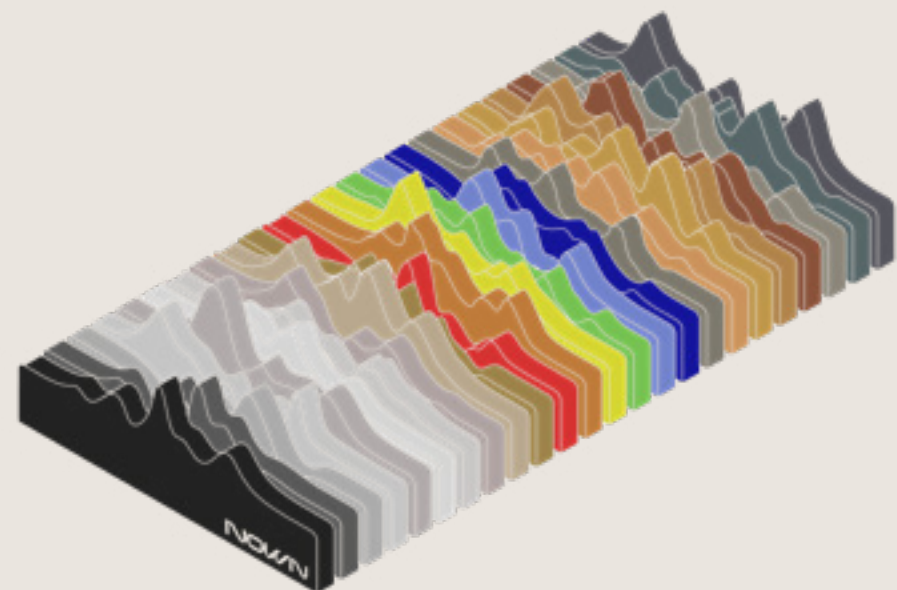


SoftGrid®'s Soft Sound® material reduces the impact of noise from everyday annoyances like ringing, typing, and chatter resulting in a more pleasant and productive environment. SoftGrid®'s material works in concert with the design to help reduce and control reverberations leaving a lasting impression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

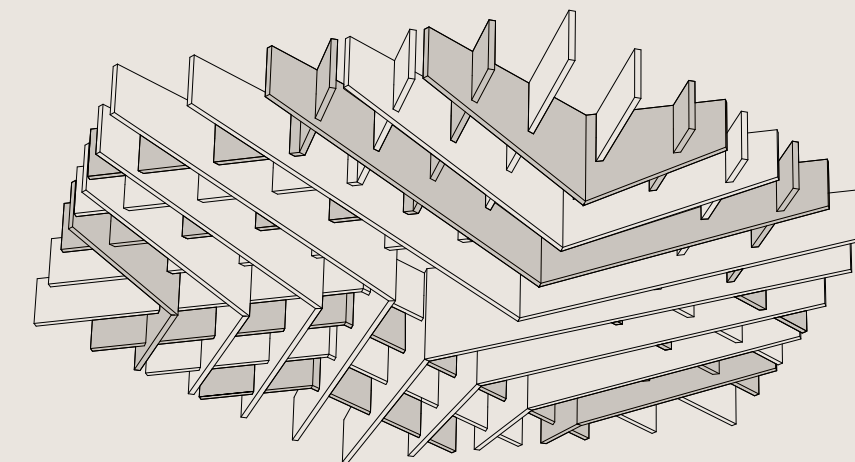
**03) Compatible with SoundStar®**

**04) Reduce Noise & Enhance Acoustics**

4



Choose from a large library of Soft Sound® colors and wood textures. Mix and match colors to accent fins and complement the color scheme of your space.



Add new dimensions of style, mix colors and textures in a expanding range of dynamic combinations to fully achieve your design intent. Perfect for incorporating branding or a dynamic two-tone impression.

**05) Expansive Soft Sound® Library**

**06) Duo Capability**



Stagger Modules for a 3-Dimensional Effect

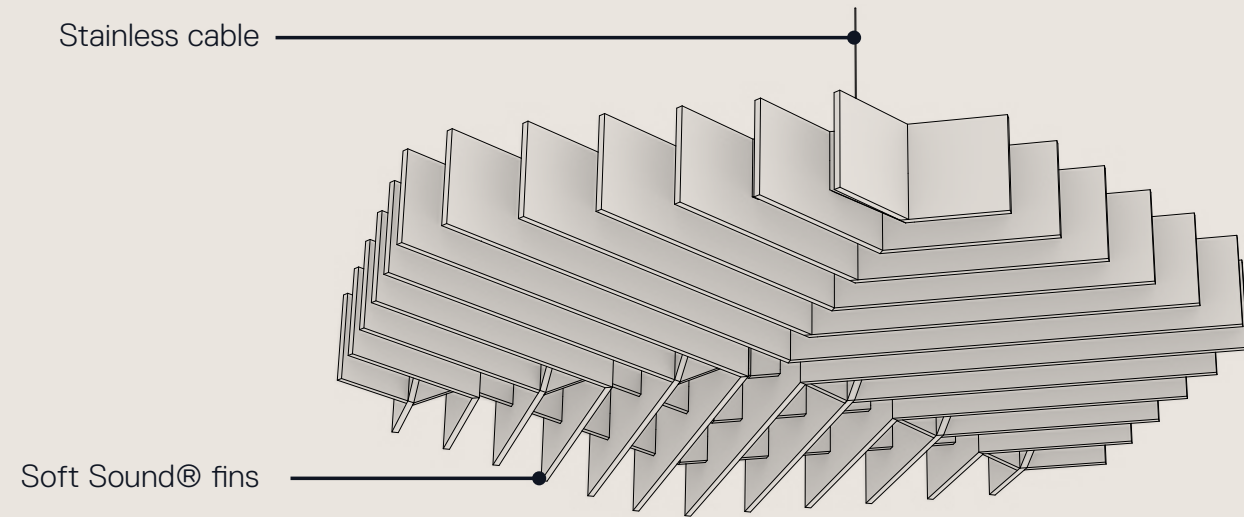


Create Unique Configurations

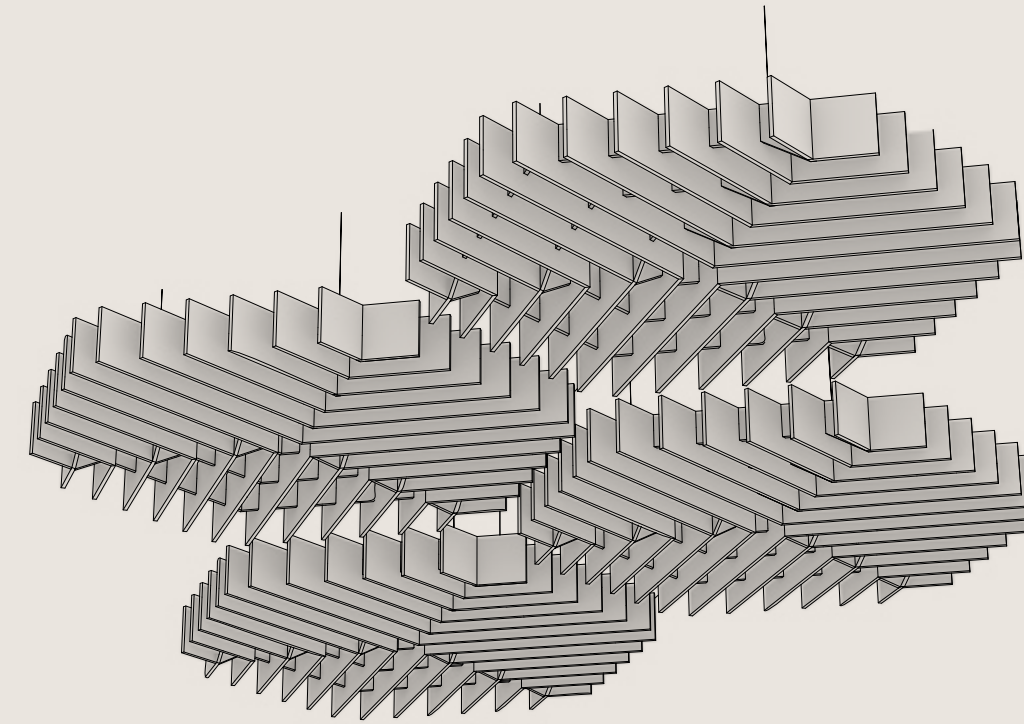


Create a Branded Experience

(A) Understanding the System (B) Available Finishes (C) Product Specifications



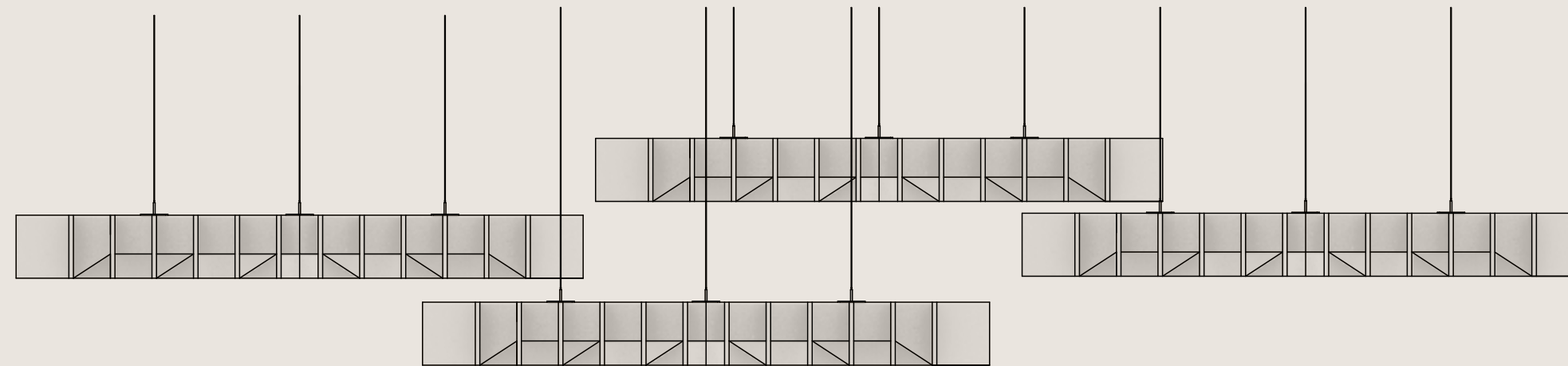
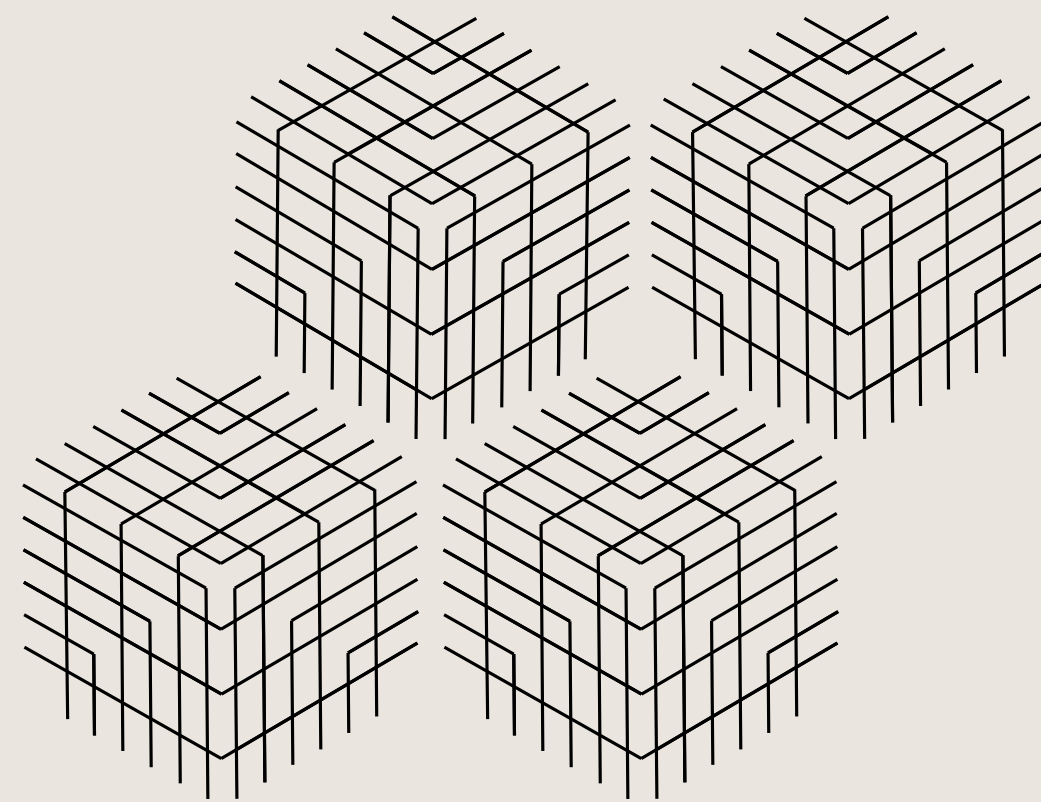
Modules are made from Arktura's lightweight & durable Soft Sound® acoustical material with stainless steel brackets.



Modules can be tiled in multiple directions in plan utilizing their hexagonal geometry. Modules may all be stepped in section or placed in a continuous plane.

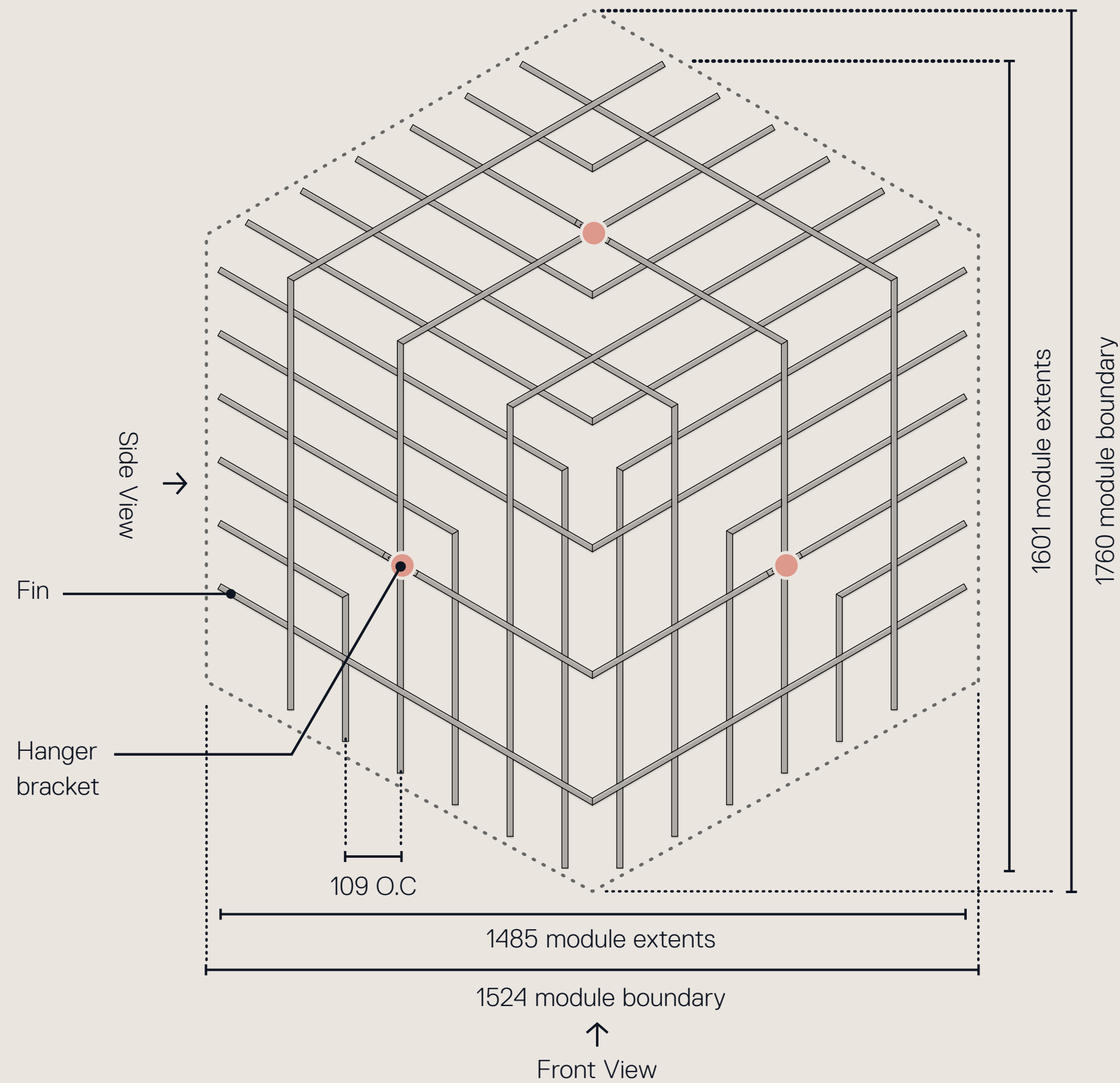
01) Standard Module

02) Designing with Modules

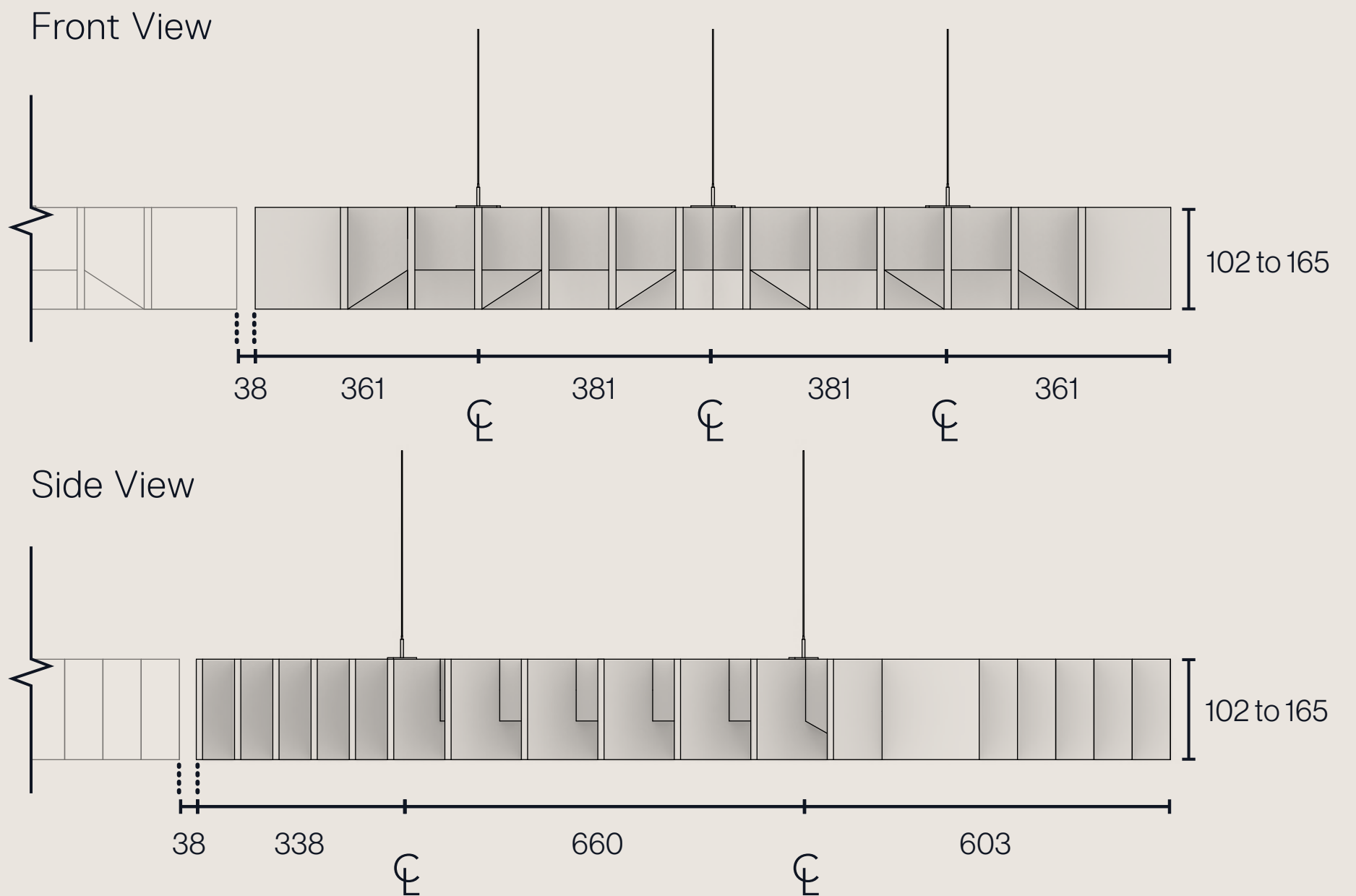


(i) An install template is sold as a guide to the drop points for each module.

(A) Understanding the System (B) Available Finishes (C) Product Specifications

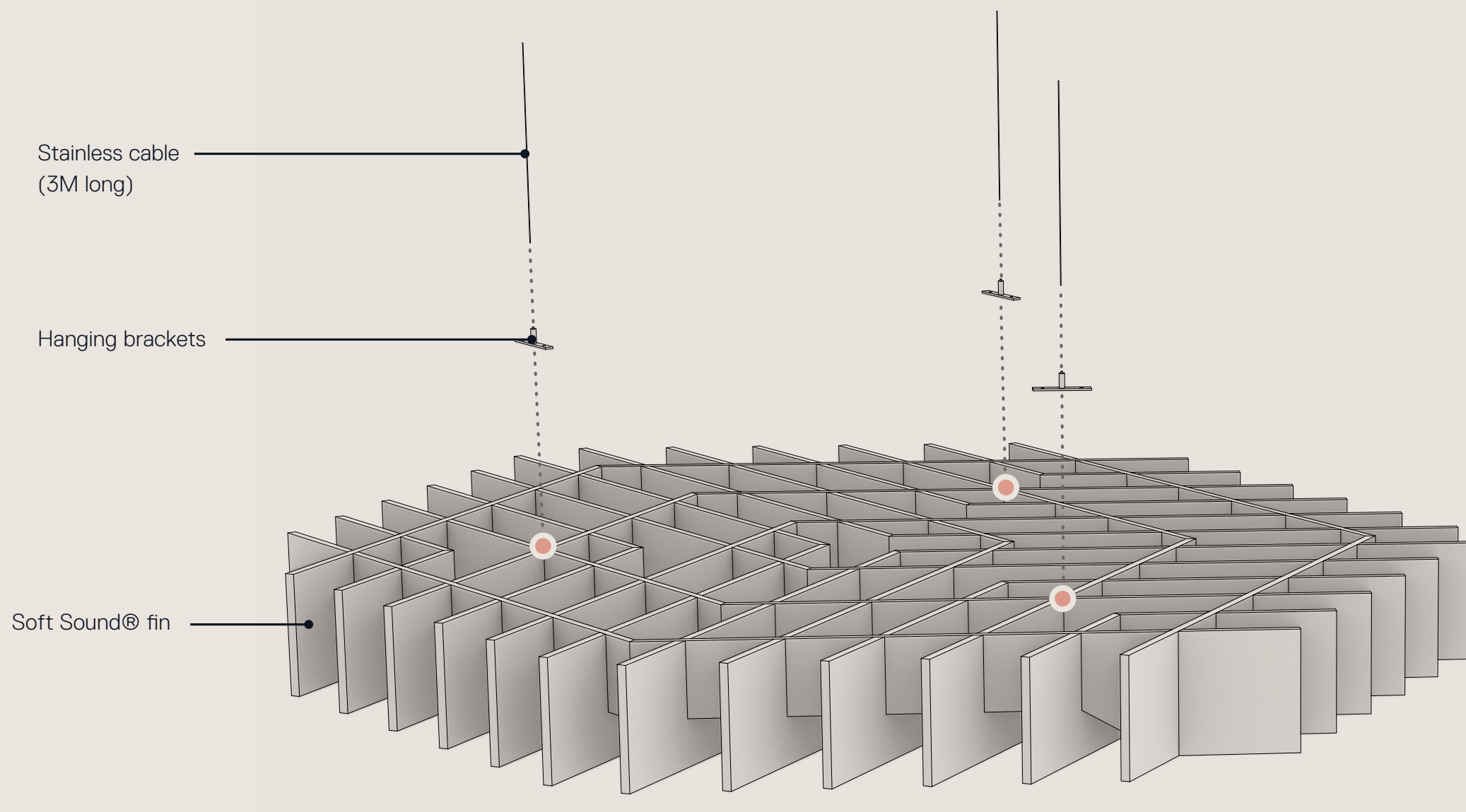


**PLAN**  
87% open in plan.

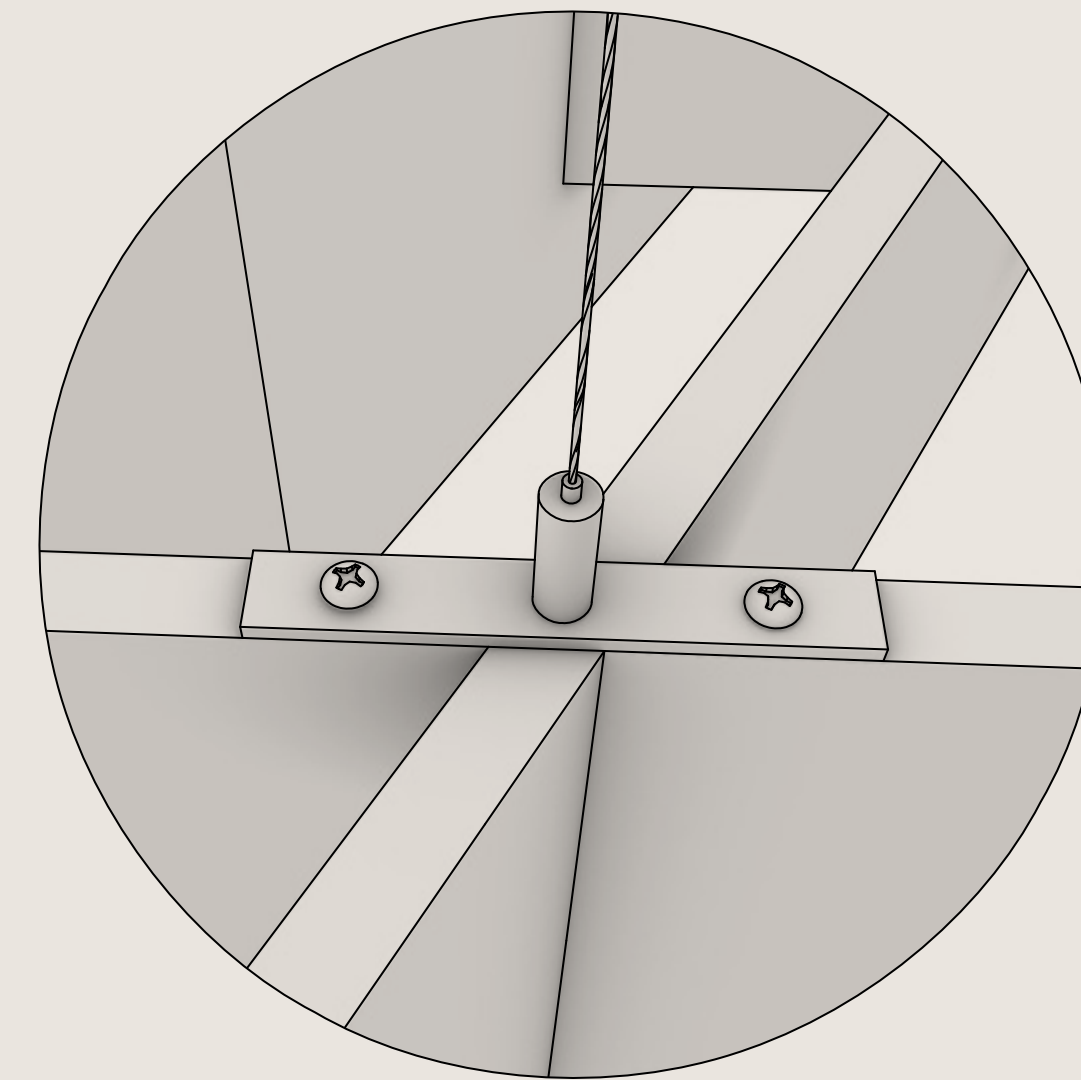


**ELEVATIONS**  
Fin depth varies from 102mm to 165mm deep.

(A) Understanding the System (B) Available Finishes (C) Product Specifications

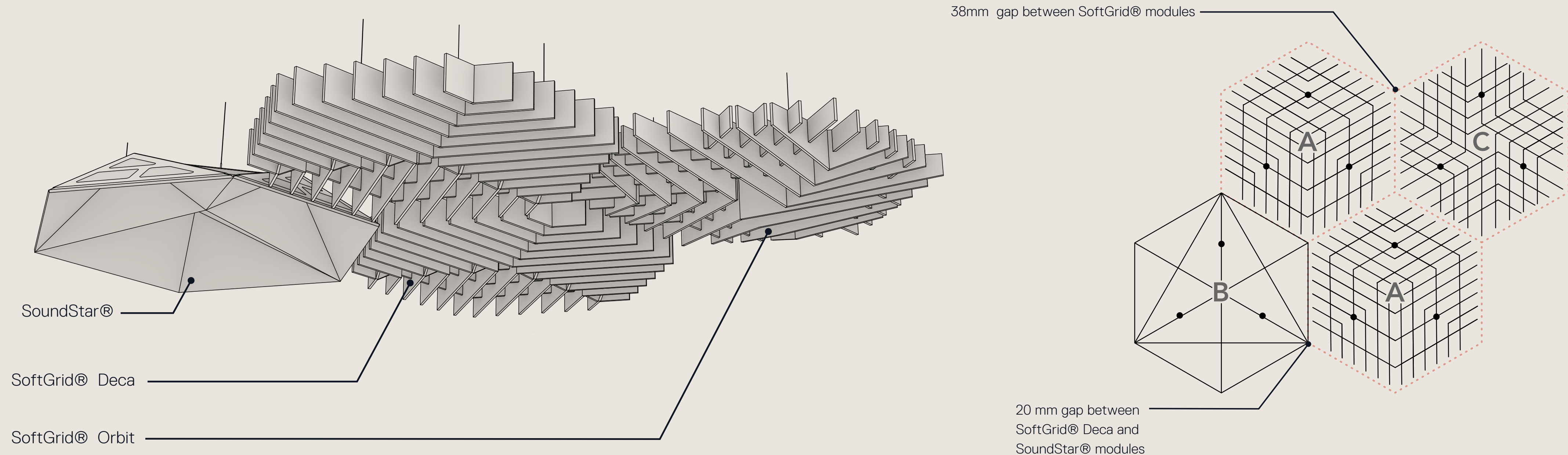


To minimize the visual impact of our hanging system, we provide 1.5 mm stainless cables and a micro quick-release wire clamp with hanging brackets at 3 locations.



Hanging Bracket Attachment

(A) Understanding the System (B) Available Finishes (C) Product Specifications



**PERSPECTIVE**  
Create drama in your design by mixing other hexagonal SoftGrid® and SoundStar® modules together.

**PLAN**  
SoftGrid® Deca (A)  
SoundStar® (B)  
SoftGrid® Orbit (C)

(A) Understanding the System (B) Available Finishes (C) Product Specifications



01) Soft Sound® Color Group A - STANDARD



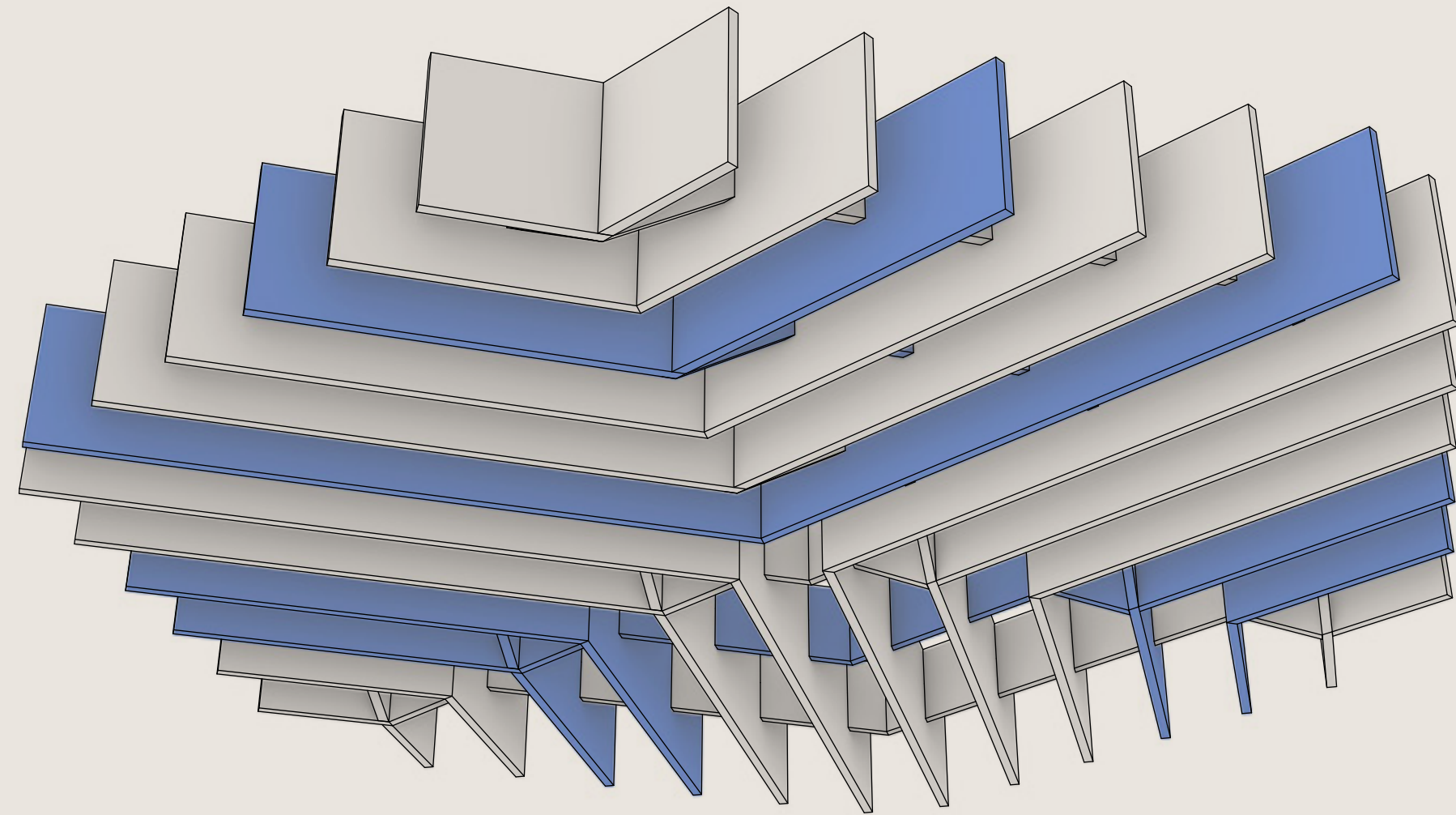
(i) Small circles indicate the core of texture.

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

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.

02) Soft Sound® Wood Texture - PREMIUM

(A) Understanding the System (B) Available Finishes (C) Product Specifications



03) Duo Tone - **OPTIONAL**

(i) Mix and match colors and elevations to add more complexity to your space.

(A) Understanding the System (B) Available Finishes (C) Product Specifications

Dimensions (WxLxD)	1760 X 1524 X (Min. 102mm Max. 165mm)
Material	12mm Soft Sound® (PET), Stainless Steel
Openness in Plan	87%
Fire Rating	ASTM E84 - Class A   13501-1 B-s1, d0
Acoustics	True NRC® 0.75 (F-100 Method)
Attachment Method	1.5mm Stainless Cable and Hardware
Accessibility	Yes, quick release cables
Trimmability	Yes, per installation manual



Certification for SoftGrid®

Living Building Challenge  
Learn more at [living-future.org](http://living-future.org)

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(A) Understanding the System (B) Available Finishes (C) Product Specifications

French Regulations	A+
Italian Regulations	✓
M1	M1
BREEAM	✓
LEED	✓
AgBB/ABG	✓

X: Not Compliant  
✓: Compliant



[PENDING]

Our low to no VOC levels comply with the above regulations and certifications.

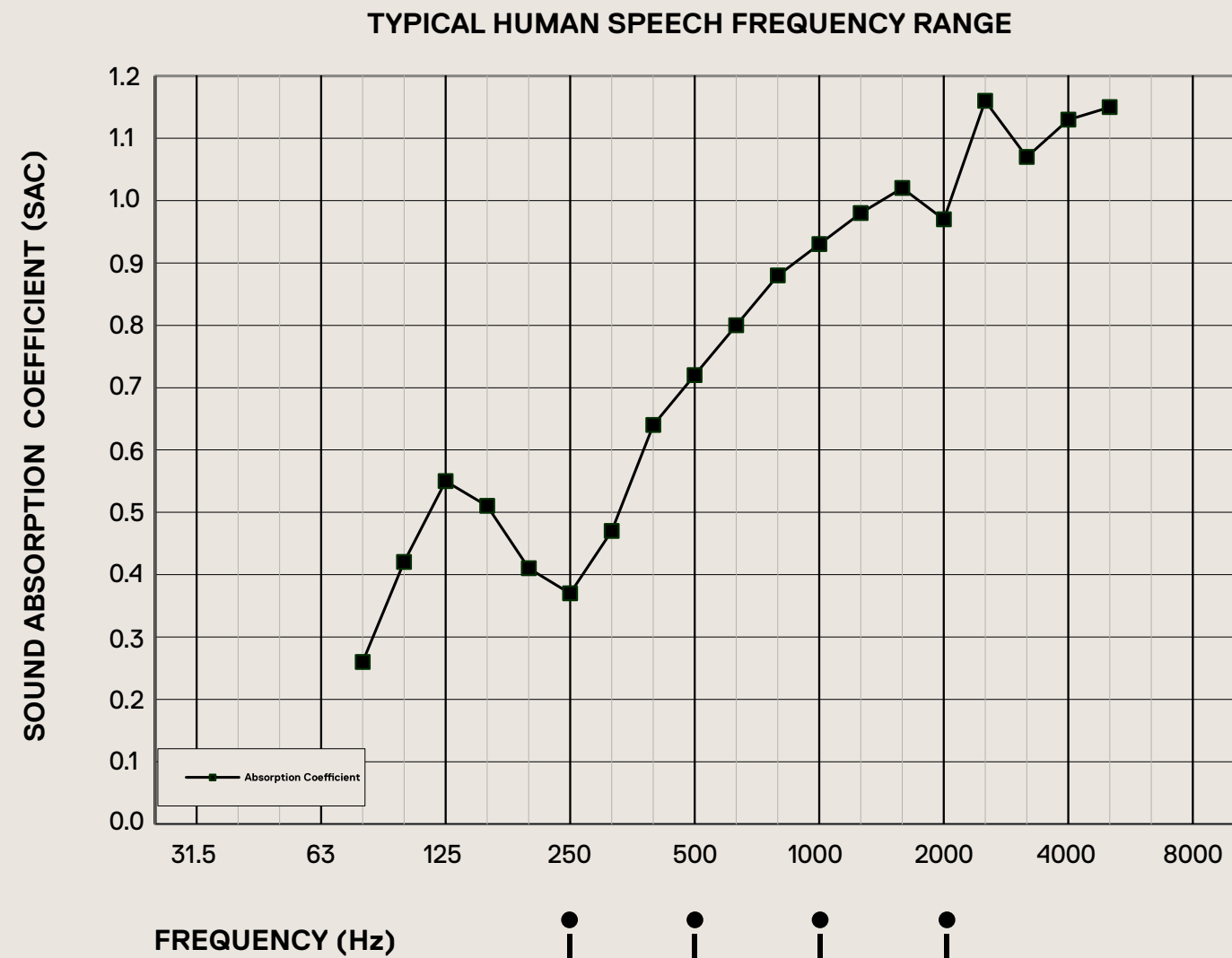
(A) Understanding the System (B) Available Finishes (C) Product Specifications

**Each Deca Module is Made from 488 Recycled Water Bottles.**



**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	0.26
100	0.42
125	0.55
160	0.51
200	0.41
<b>250</b>	<b>0.37</b>
315	0.47
400	0.64
<b>500</b>	<b>0.72</b>
630	0.80
800	0.88
<b>1000</b>	<b>0.93</b>
1250	0.98
1600	1.02
<b>2000</b>	<b>0.97</b>
2500	1.16
3150	1.07
4000	1.13
5000	1.15



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

**F100 MOUNTING TYPE - CEILING - NRC: 0.75**

In this mounting type, the specimen is separated from the horizontal test surface 100mm (3.93”) from the back of the module with spacers. Modules were evenly distributed, fins touching, in the 8’x9’ testing space, representing a typical layout.

**A MOUNTING TYPE - WALL - NRC: 0.70**

In this mounting type, the specimen is placed directly on the horizontal test surface. Intended for carpet, wall panels, or any product that will be laid directly on the floor or attached to a wall with adhesive or mechanical fasteners. This mounting type represents the product suspended on a wall.

**F150 MOUNTING TYPE (SOFT SOUND® MATERIAL ONLY) - NRC: 0.90**

In this mounting type, the specimen is separated from 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.

**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.

<p><b>True NRC®: 0.75</b> <b>SAA: 0.78</b></p> <p>Test Results for Ceiling spelling with F100 Mounting Type</p>	<p><b>ACOUSTIC TESTING</b> <b>ASTM C423</b></p>
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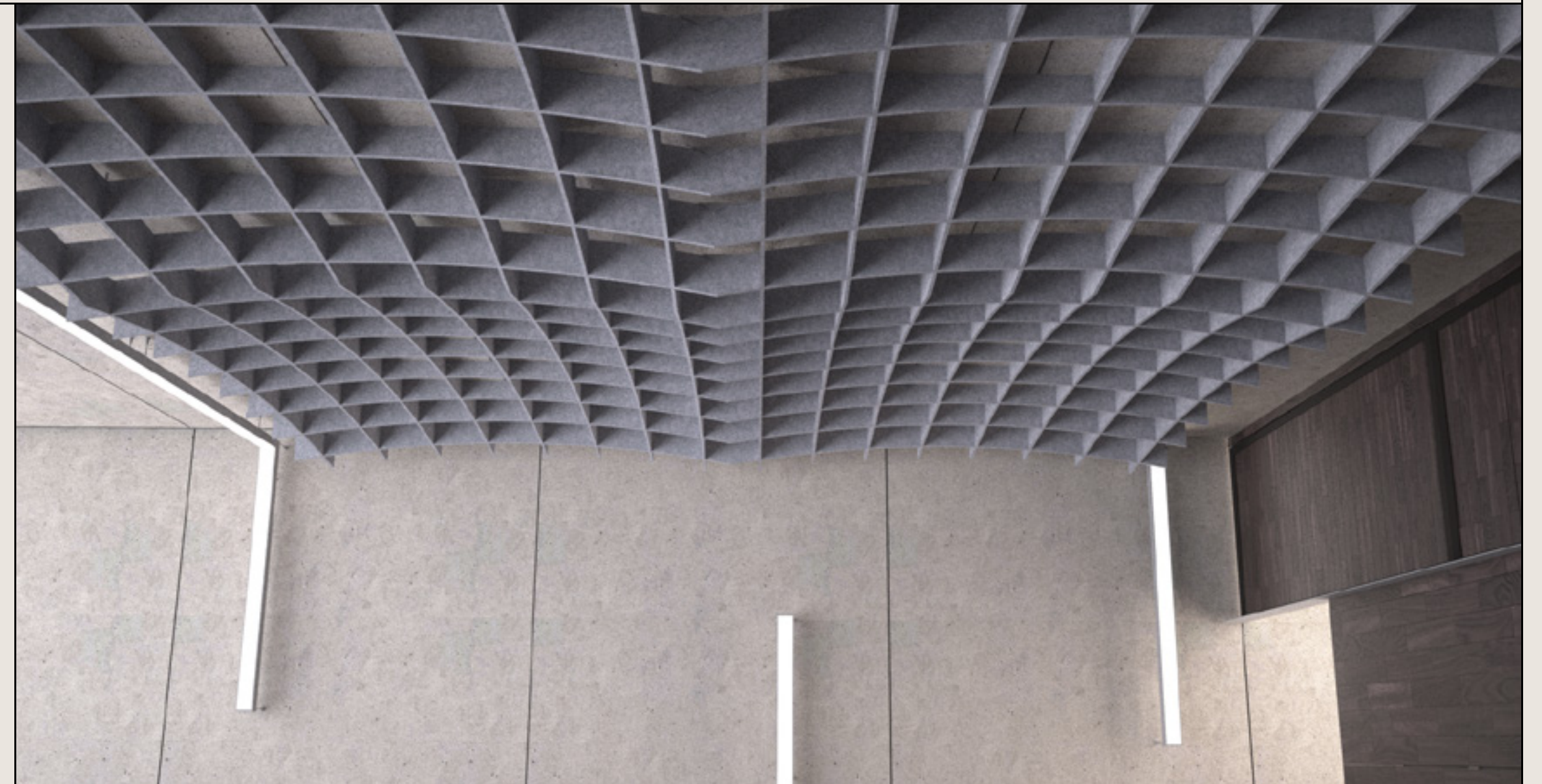
(i) Most popular application is highlighted in black.

(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.

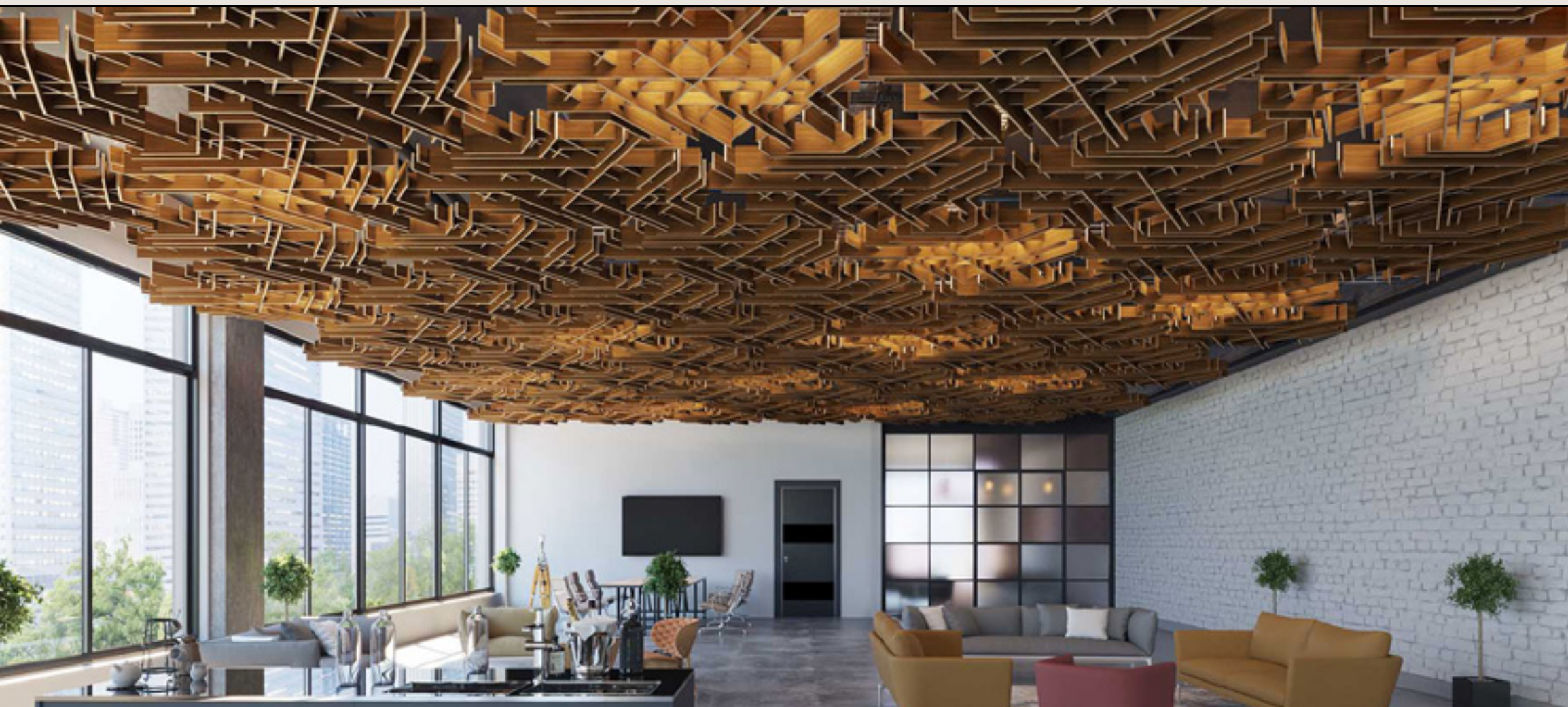
Multiple shapes, colors, sizes and flavours to shape any architectural interior.



SOFTGRID® DECA



SOFTGRID® DOME



SOFTGRID® FLUX



SOFTGRID® ORBIT

Multiple shapes, colors, sizes and flavours to shape any architectural interior.



**SOFTGRID® ROUND**



**SOFTGRID® SCALE**

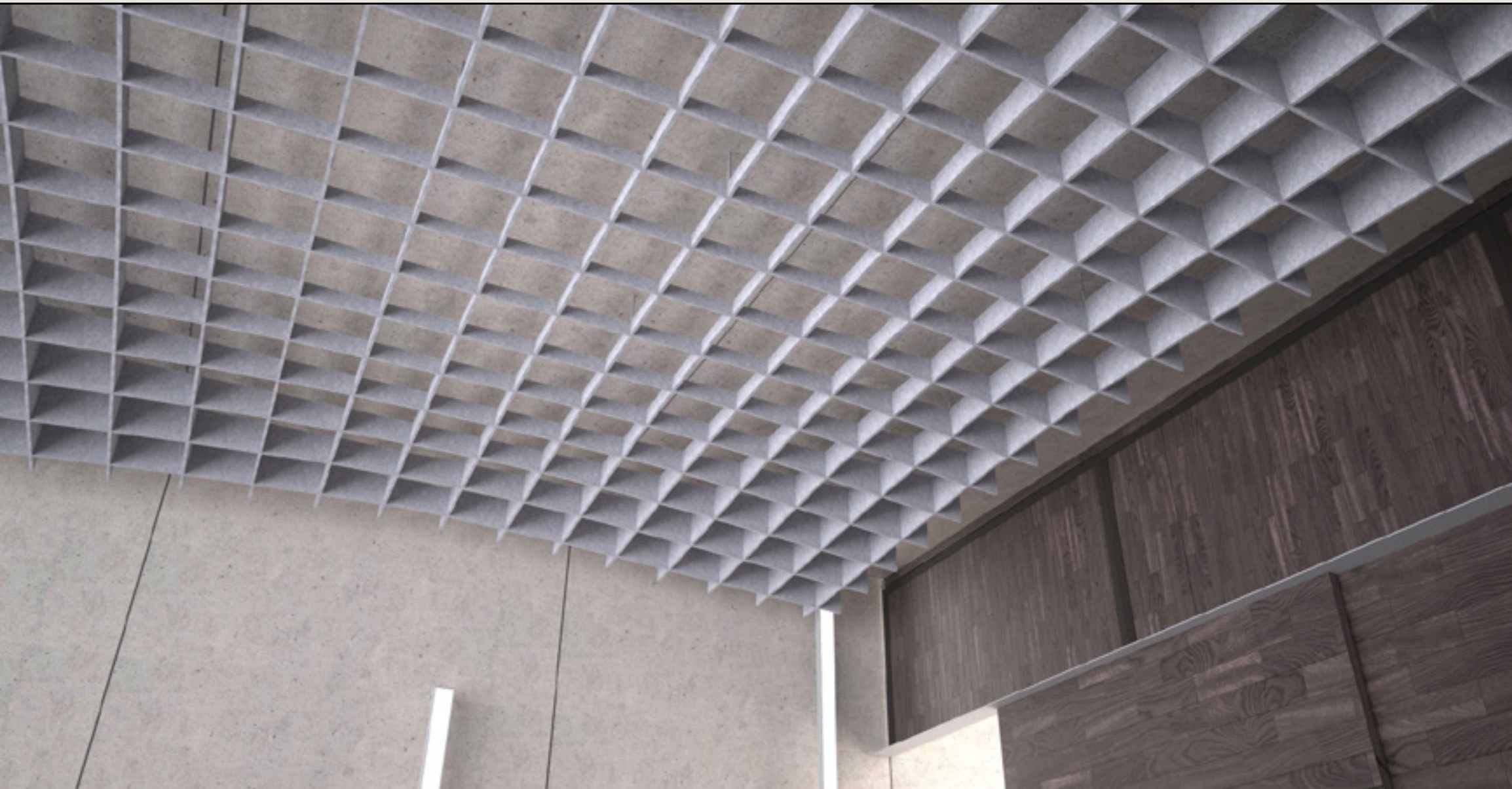


**SOFTGRID® SINE**



**SOFTGRID® SKYLINE**

Multiple shapes, colors, sizes and flavours to shape any architectural interior.



SOFTGRID® SLOPE



SOFTGRID® SQUARE



SOFTGRID® SWITCH



SOFTGRID® WAVE

**NOWN**

**ARKTURA**