PERFORATE™
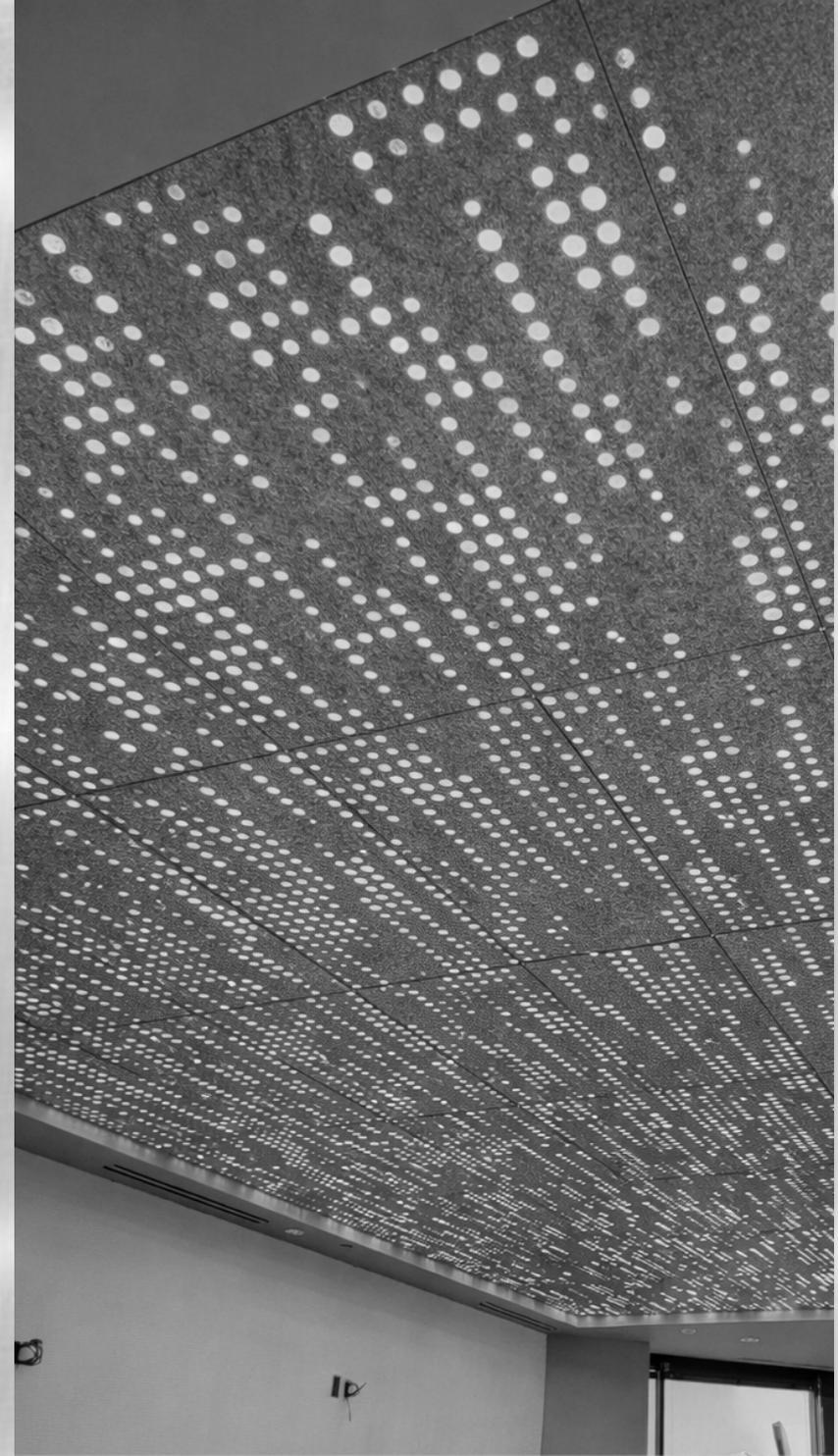
Acoustic Integration & Performance

ANDALUSIA

Andalusia's Perforate platform integrates acoustic materials directly behind or on the face of perforated metal panels, combining sound absorption, visual depth, and color within a single coordinated system.
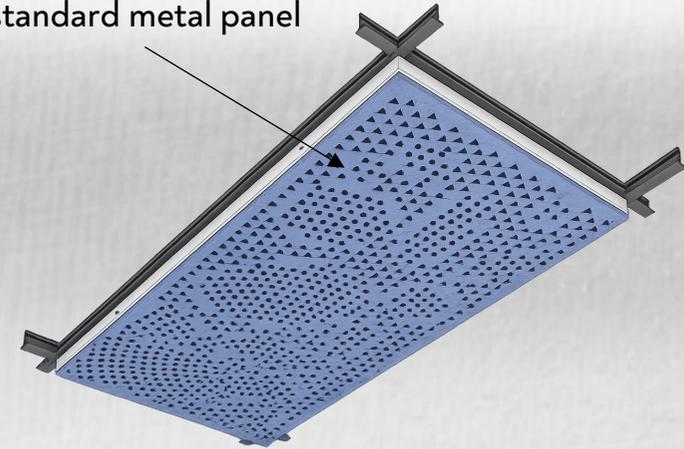
Option A — Acoustic Insert

- PET felt or alternative acoustic infill installed behind the perf metal face

- Maintains metal-forward aesthetic

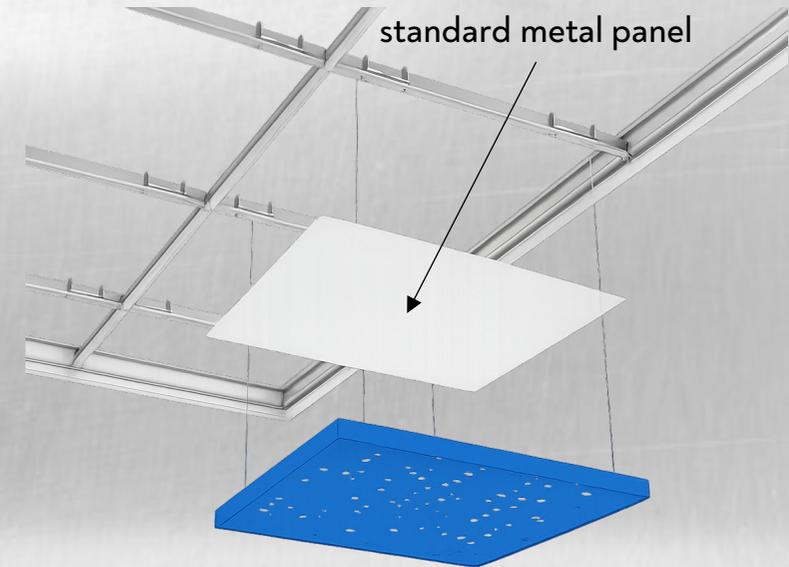- Absorption is dependent on openness area of the perf panel

Option B – Acoustic Face

- Designer PET felt applied to the face of the perforated panel

- Felt is perforated to match the metal pattern

- Maximizes acoustic performance and softens visual language
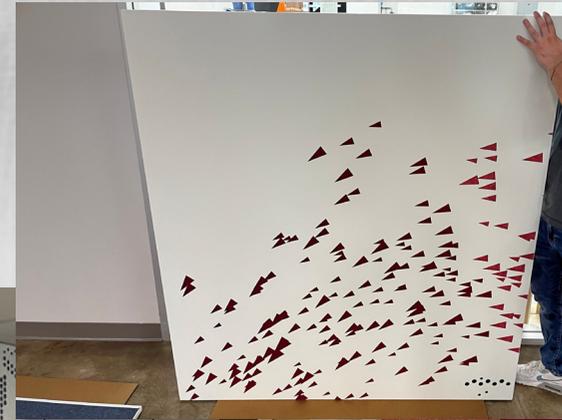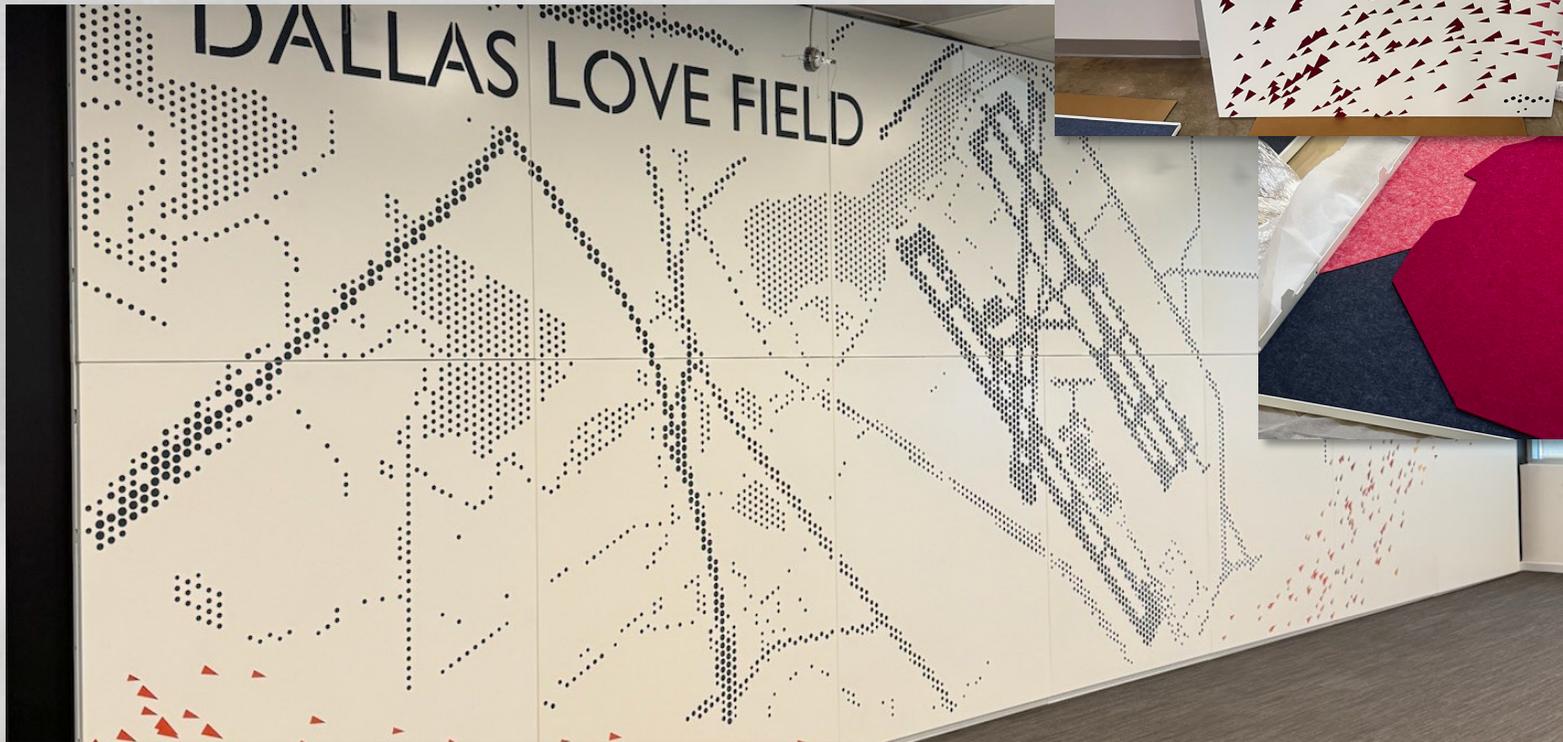
PET Felt Face on standard metal panel

PET or acoustic infill within standard metal panel

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For acoustic backed applications, the material can be custom designed and cut for increased visual interest

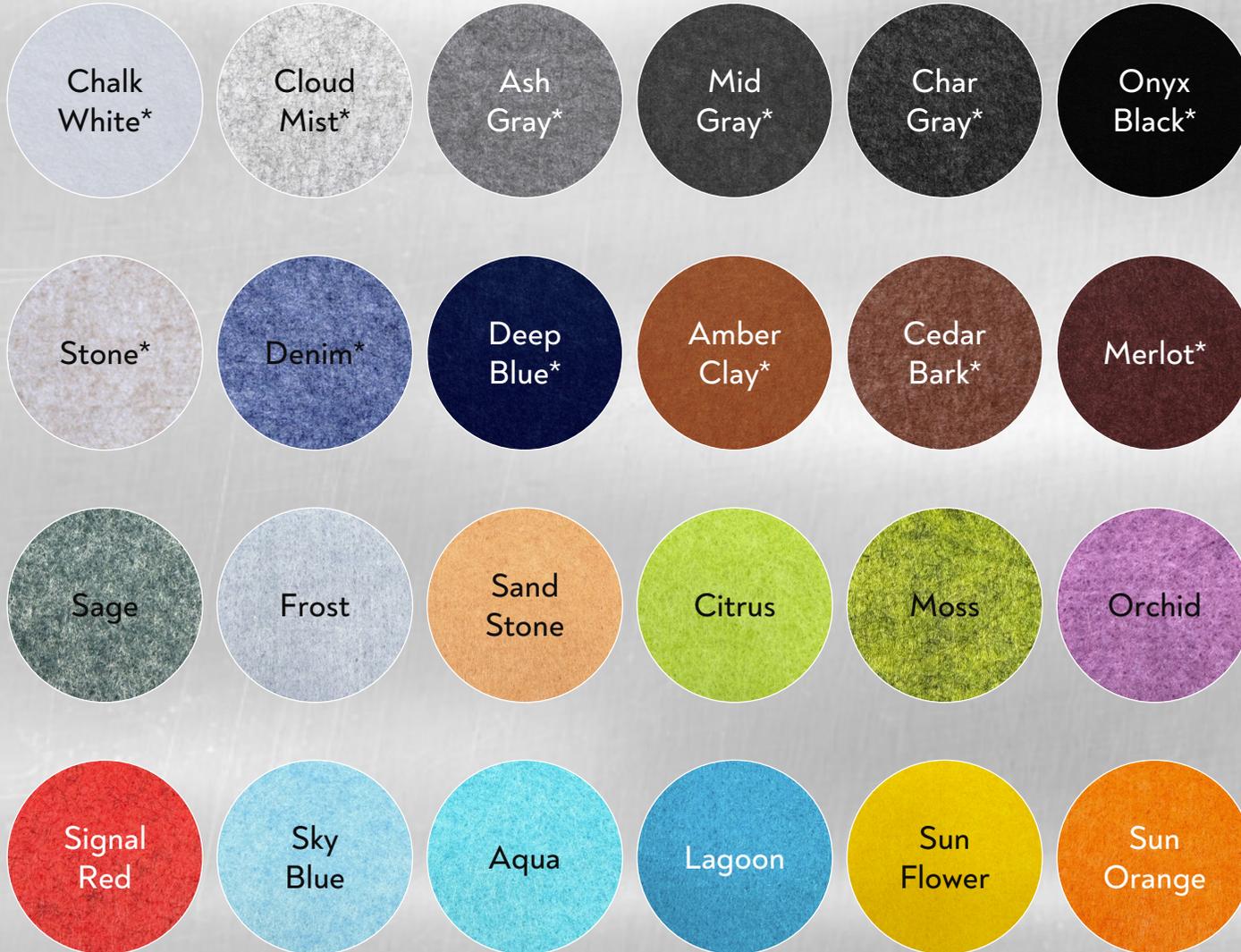ANDALUSIA

Acoustic Materials

Primary Material – PET Acoustic Felt

- 9mm PET felt (up to 60% recycled)

- Durable, non-fibrous, and cleanable

- Available as insert or face material

- Compatible with complex perforation patterns and parametric designs

Secondary Materials (for felt-backed applications only)

- Rigid or semi-rigid acoustic infill installed behind the perforated metal panel

- Fiberglass or mineral fiber acoustic board

- Provides effective sound absorption without premium finishes

- Material selection coordinated based on acoustic targets, fire-rating requirements, and project constraints

Standard PET Felt Colors

Chalk White*	Cloud Mist*	Ash Gray*	Mid Gray*	Char Gray*	Onyx Black*
Stone*	Denim*	Deep Blue*	Amber Clay*	Cedar Bark*	Merlot*
Sage	Frost	Sand Stone	Citrus	Moss	Orchid
Signal Red	Sky Blue	Aqua	Lagoon	Sun Flower	Sun Orange

Material: PET fiber acoustic felt

Recycled Content: Typically produced using recycled PET plastics (up to 60%)

Standard Thickness: 9mm

Panel Sizes: Varies depending on system integration

Acoustic Performance: Effective absorption varies when used in application

Fire Performance: *Denotes ASTM E84 Class A standard; others are not fire rated but can be Class A with minimum volumes; custom colors available
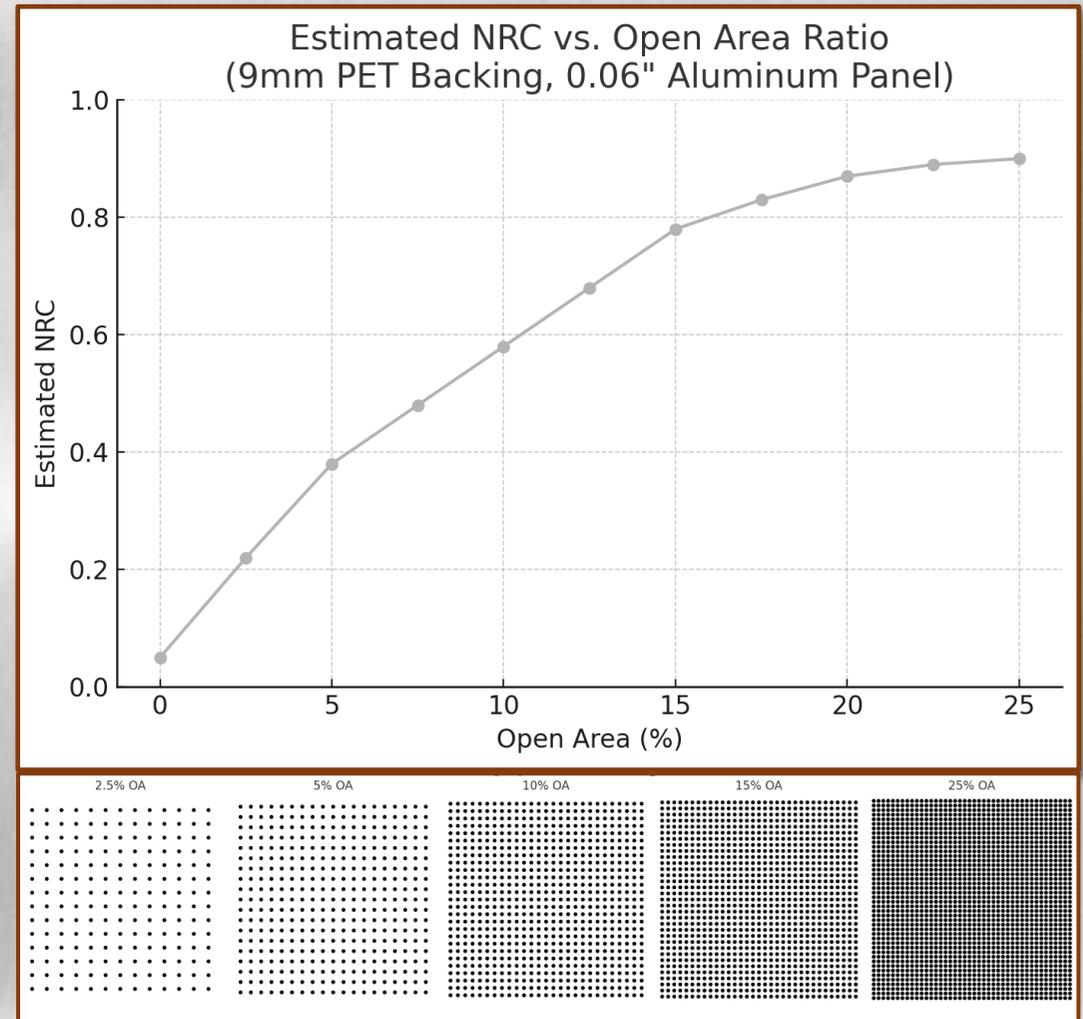
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Acoustic Performance

PET-backed perforated panels reduce noise by allowing sound waves to pass through the perforations and be absorbed by the PET felt behind.

The result is improved clarity and reduced echo in a space.

The more open the panel, the more sound it absorbs. NRC values of 0.90 or higher with proper backing and openness area.

PET-face surfaces have NRC values around 0.50

Estimated NRC vs. Open Area Ratio
(9mm PET Backing, 0.06" Aluminum Panel)

2.5% OA   5% OA   10% OA   15% OA   25% OA

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HIGH DESIGN MEETS DIGITAL FABRICATION

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