![ANDALUSIA logo]

ANDALUSIA

Design & Specification Guide

Perforate™ Wall & Ceiling System

ANDALUSIA DESIGN

Andalusia Design is a manufacturer of specialty ceiling, wall and space divider solutions. We combine the power of parametric design with best-in-class digital fabrication capabilities to deliver high-design architectural systems with unparalleled speed and efficiency. We have a large showroom and vertically-integrated manufacturing facility in Austin, TX, USA.

PERFORATE

Andalusia Design's Perforate system is a parametrically-designed, highly-configurable solution for your feature wall and ceiling system designs.

Driven by Andalusia's parametric design engine and in-house digital fabrication, Perforate is ideal for brand-forward, high-traffic areas across a variety of commercial and hospitality applications.

CONFIGURATIONS

Andalusia's parametric design software allows you to modify your surface designs in real-time.

Key parameters to think about during the design phase:

- Surface Design: Choose from a variety of Styles or create your own custom version

- Mounting Method: Wall, ceiling or wall-to-ceiling

- Material Type: Aluminum, steel of varying thicknesses

- Material Finish: Powder-coat, raw aluminum

- Pricing: A variety of perforation options allow you to balance pricing and aesthetic

FLOW

MONET

TRIANGLES

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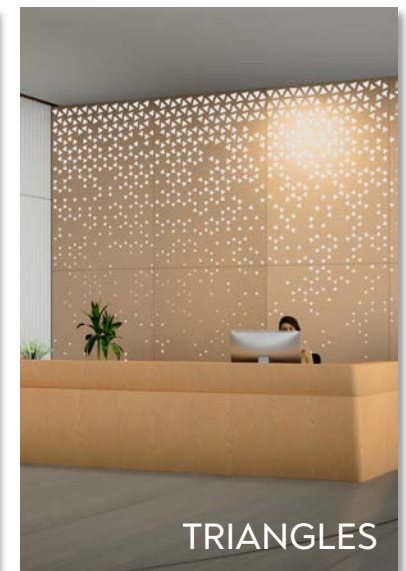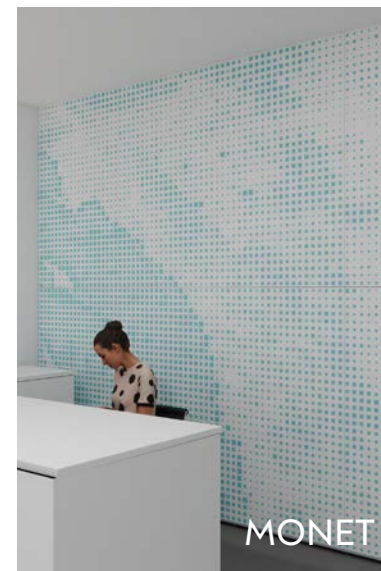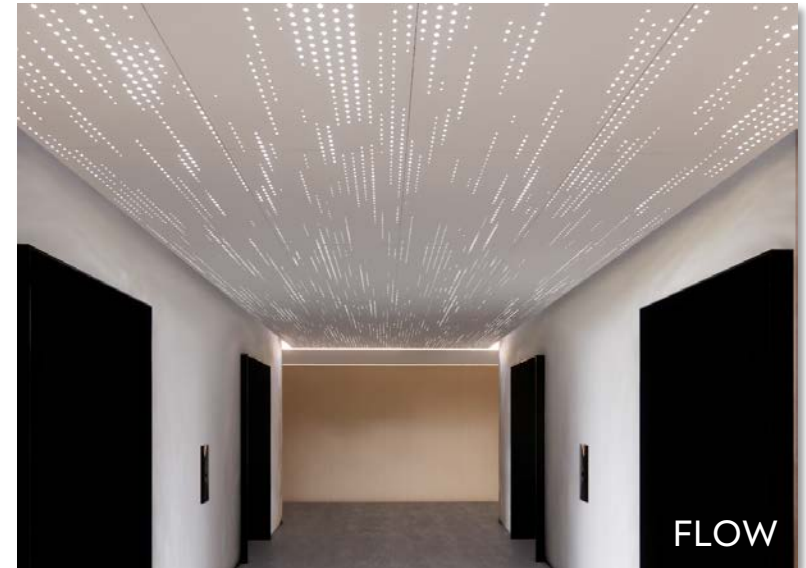
PERFORATE SYSTEM FEATURES

SURFACE OPTIONS

Customize your perforated pattern for both aesthetic and price with a variety of standard and custom surface styles

BACKLIGHTING OPTIONS

Backlighting options are vary based on lighting requirements, installation requirements, aesthetic and price

MATERIAL BACKING

Add diffuse acrylic or film for backlighting, or backing material for color and/or acoustic performance

EASE OF INSTALLATION

Simple, clean and intuitive construction with standard torsion springs, grid clips and numbered panels

DESIGN STEP 1: DESIGN YOUR SURFACE

Andalusia's parametric design software gives you the freedom to create a Perforate surface design that is unique to your client's space. Using our proprietary Rhino / Grasshopper parametric code, we define the structural and manufacturing constraints of the system, while leaving the creative design process in your hands!
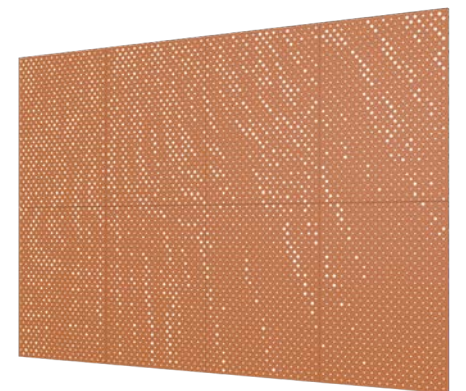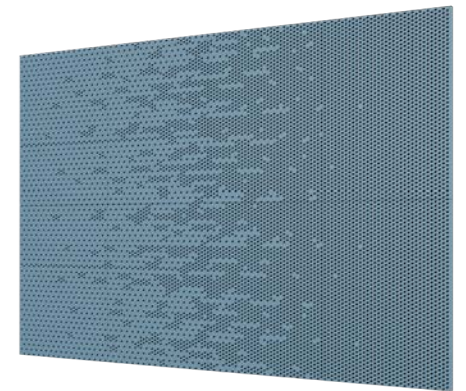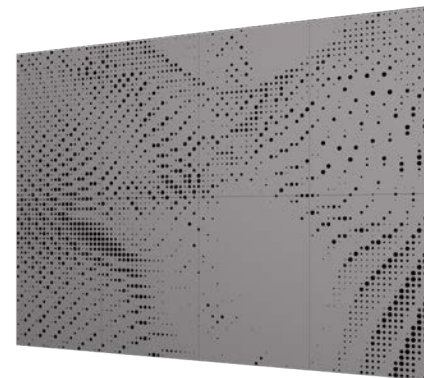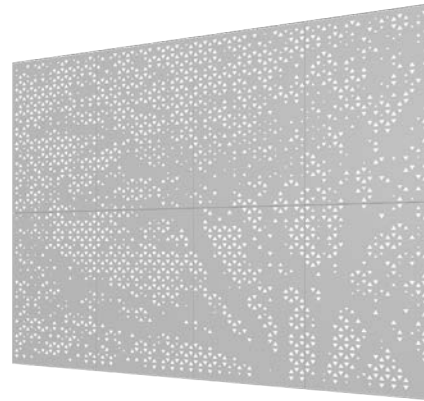
OPTIONS

Option A. CONTACT US. If you already have a design modeled or just a napkin sketch concept or idea, contact Andalusia and we will work to turn your vision into a reality.

Option B. PICK A STYLE. Standard 'Styles' include Street Grid, Organic, Flow, Portrait, Responsive Triangles and Field Waves. Each Style has its own individual Spec Guides where you can find more information and inspiration.

Andalusia Design
Specification Guide

Triangles

Perforate™ Parametric
Wall and Ceiling System

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Triangles Spec Guide

DESIGN STEP 1: DESIGN YOUR SURFACE

Check out the details of Andalusia's standard Styles using our Style Spec Guides. These guides will walk you through the design process of how each Style can be brought to life! These can be found on our website: andalusia.design/resources
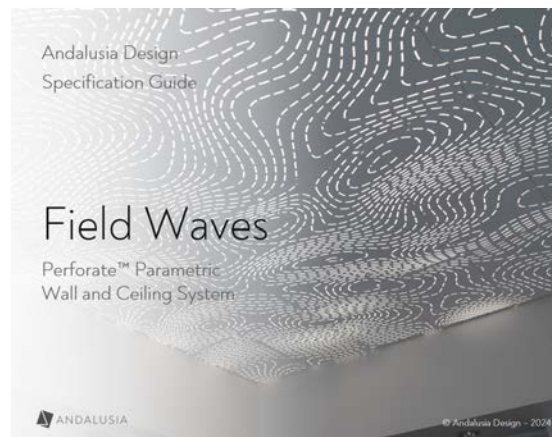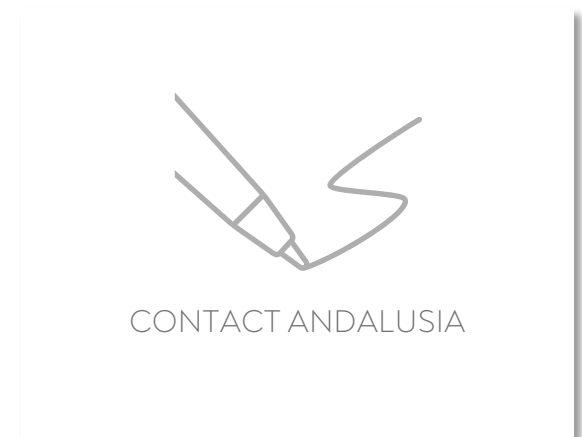

Triangles
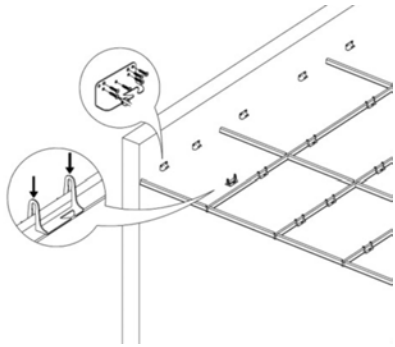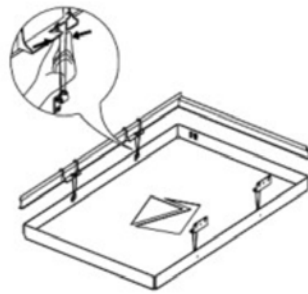

Street Grid

Monet

Flow

Field Waves

Your Own Design

Perforate can be used for wall, ceiling and wall-to-ceiling applications. Wall and ceiling materials and installation differ slightly, but both work with standard installation components and are easy to install.

Andalusia saddle clips are added to standard ceiling grid

Torsion spring mechanism locks ceiling panels in place

Standard 2'x4' aluminum ceiling tiles

Panels are cut to size to meet wall-to-wall requirements
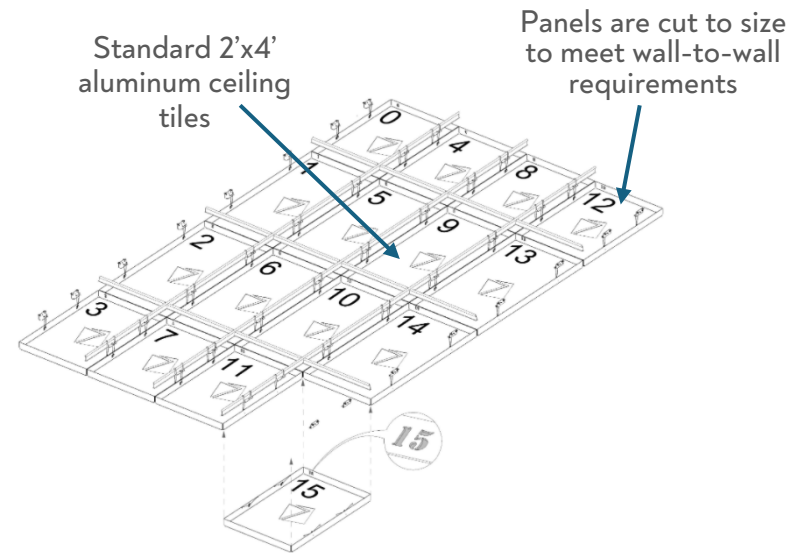
Wall-mounted system uses simple Drop and Lock mechanism

All tiles are numbered with the associated final schematic to ensure ease-of-installation

DESIGN STEP 3: DETERMINE YOUR ARRAY SIZE

Determine the dimensions of your wall and/or ceiling plane. Andalusia will typically work with standard 2'x4' grid tile sizes for ceilings and 4'x4' tiles for walls, but can accommodate different sizes, including near edge conditions.

Measure the overall dimension of your Street
Grid array – X and Y dimensions.
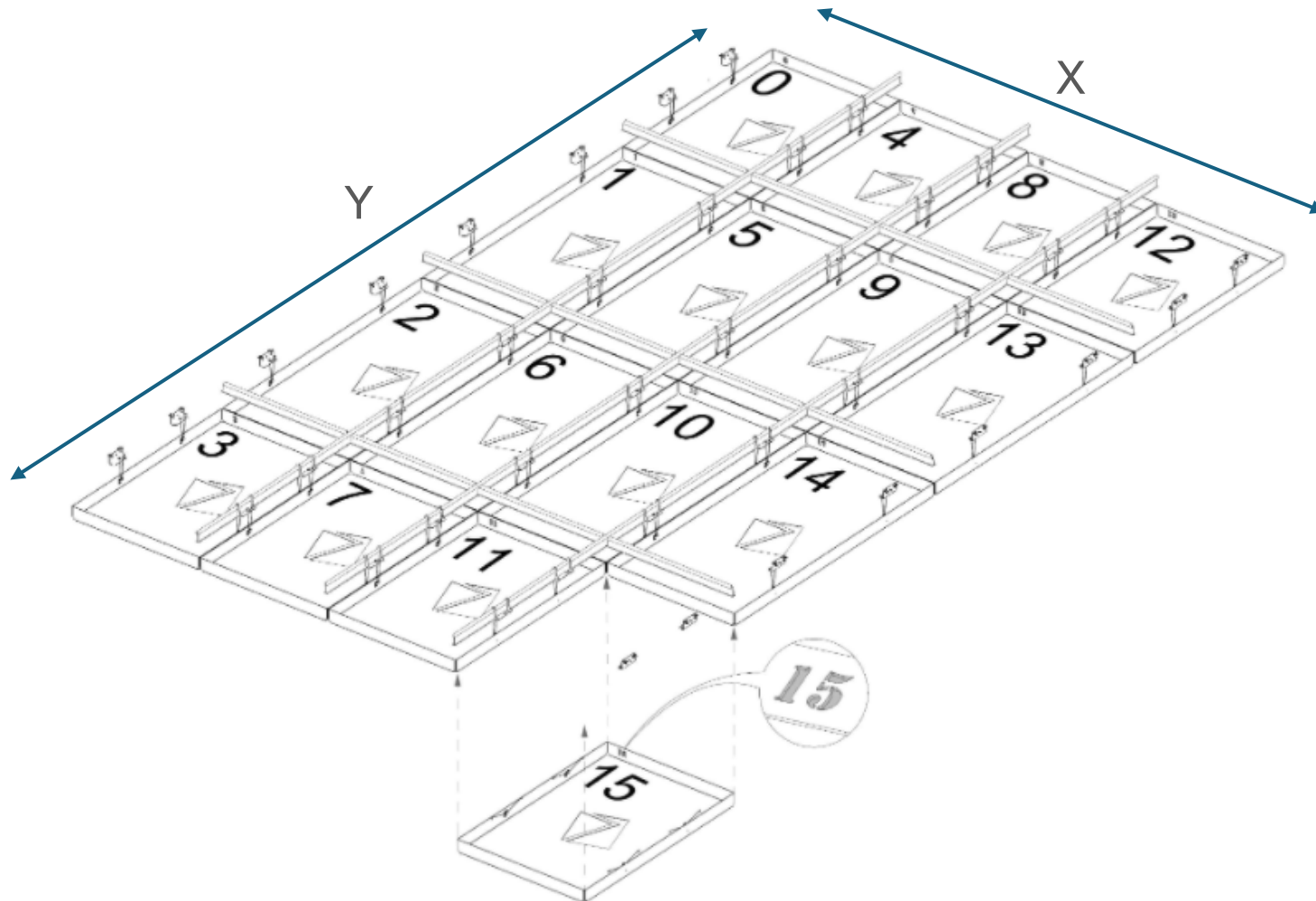
DESIGN STEP 4: SELECT YOUR COLOR / FINISH

Choose from a variety of standard color / finish options, or work with Andalusia to create something unique!

Standard Color Palette

| Signal White | Traffic White | Pure White | Champagne |
| Quartz Gray | Anodized Silver | Black | |
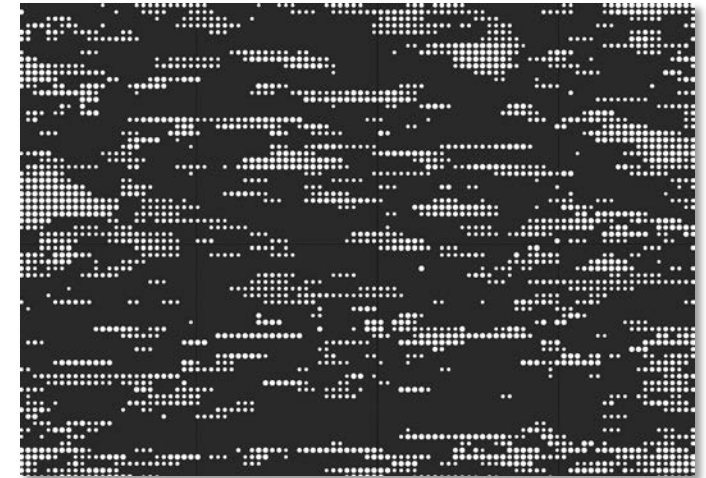
Black

Premium Color Palette

| Sea Blue | Azure Horizon | Copper Ember | Vintage |
| Scarlett Shine | Tourmaline | Ancient Ore | |

Scarlett Shine

DESIGN STEP 5a: OPTIONAL BACKLIGHTING

Perforate can be enhanced with backlighting to make the Perforate 'pop'. Backlighting the system adds additional cost and complexity – below are considerations when designing.
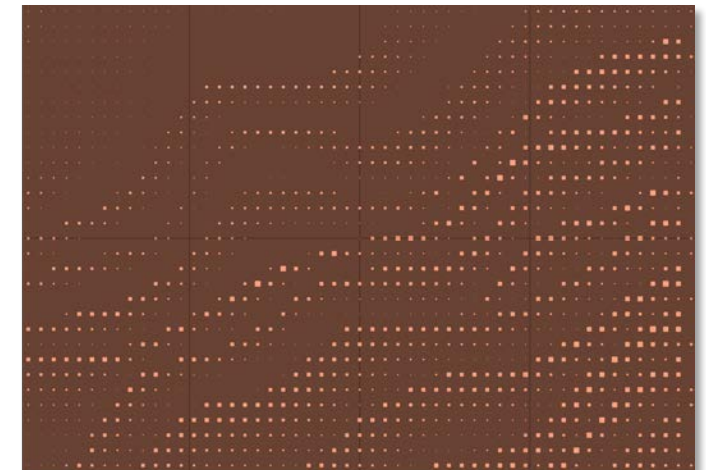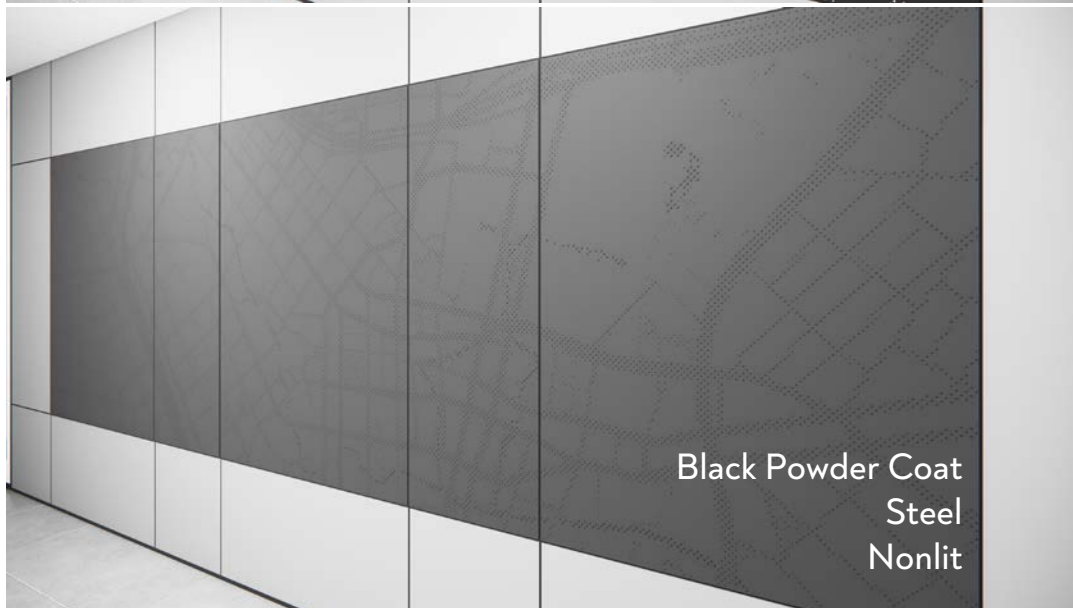

Black Powder Coat
Steel
Backlit

Black Powder Coat
Steel
Nonlit

A. Andalusia does not offer its own backlighting solution, but has recommended partners in every region

B. When specifying backlighting, Andalusia offers a standard acrylic diffuser that is custom fit into each Perforate panel

C. For most backlighting applications, a sheet LED array with 6" diode spacing is ideal. The LED array must be mounted at least 3" from the panel diffuser.

D. The more room there is behind the panels, the more opportunities there are for cost-effective lighting solutions. Contact Andalusia to learn more.

E. Andalusia can work with you to optimize hole sizes and patterns to help achieve any functional lighting requirements you may have

# DESIGN STEP 5b: OPTIONAL FELT BACKER

If the Perforate system is in a well-lit area of a space and you're looking to add a pop of color and/or functional acoustic performance, Perforate can be supplied with a standard composite backer. Contact Andalusia for more information on standard and custom options, along with functional specifications.

CUSTOMIZATION OPPORTUNITIES

ADD CUSTOM CENTER INSERT

Add a replaceable magnetic center insert that can be used to highlight a brand or location; light it independently with RGB!

MIX COLORS
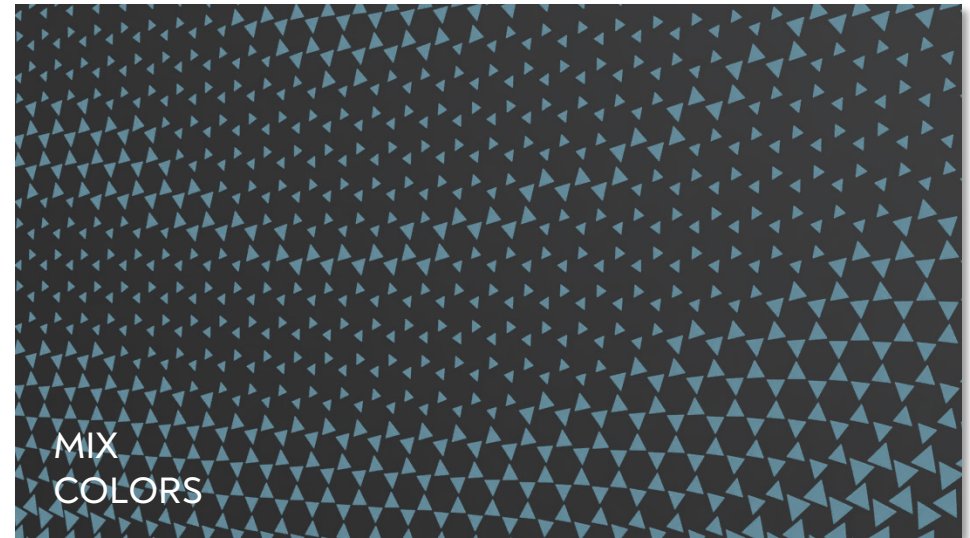
With custom backing, you can add a great pop of color to your Perforate system

INTEGRATE ELEMENTS
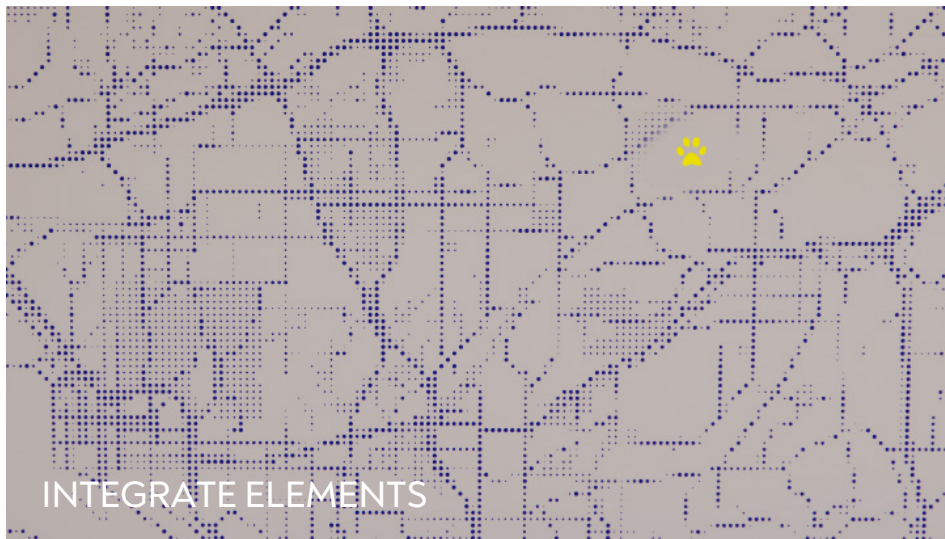
Downlights, sprinkler heads and other elements can be added without losing design intent.

FILL THE PLANE

Wall-to-wall and wall-to-ceiling applications are easy to work with. Contact us to ensure the right fit with custom panels to fill the surface!

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SERVICES AND DOCUMENTATION

Below is a list of typical design and technical services, along with the documentation you can expect to receive when designing, specifying, procuring and installing an Andalusia Perforate system.

DESIGN PHASES

Services and Outputs:

- Collaborative and iterative design development, starting as early as concept design

- 3D parametric model development; ability to collaborate in Rhino and Revit or output to any standard CAD platform

- Renderings in Enscape, VRay

- Real-time pricing information during design iterations and design-for-budget / VE support

- Thorough product design proposals

- Physical material samples and color swatches

- Custom samples to demonstrate form / function of unique designs

- Assistance with client-facing presentations, as desired

POST-DESIGN / SPEC SUPPORT

Services and Outputs (in addition to Design outputs):

- Technical drawings – elevations, sections, details

- CSI MasterSpec document

- Comprehensive dimensions, thickness, weight information

- Final digital 3D model

- Final contractor net pricing

- Performance data, including ASTM E84 fire ratings, structural data, acoustic analysis, along with necessary supporting test data

- Sustainability certifications, EPD, HPD, Declare

- Detailed step-by-step installation instructions

- Maintenance and warranty information

- Reference part numbers and details

- Andalusia contact information

ONE-PAGE DESIGN CHECKLIST

This one-page checklist will help get the design process started!

APPLICATION

- ❑ Wall mount
- ❑ Wall to ceiling
- ❑ Ceiling

SURFACE DESIGN

- ❑ Monet
- ❑ Street Grid
- ❑ Triangles
- ❑ Flow
- ❑ Field Waves
- ❑ Other / Custom

  _____

SIZE

- ❑ X Dimension

  _____

- ❑ Y Dimension

  _____

POWDER COAT FINISH

- ❑ Signal White
- ❑ Traffic White
- ❑ Pure White
- ❑ Champagne
- ❑ Quartz Gray
- ❑ Anodized Silver
- ❑ Black
- ❑ Sea Blue*
- ❑ Azure Horizon*
- ❑ Copper Ember*
- ❑ Vintage*
- ❑ Scarlett Shine*
- ❑ Tourmaline*
- ❑ Ancient Ore*
- ❑ RAL _____

* Denotes Premium Finish

INTEGRATIONS

- ❑ Electrical / Lighting
- ❑ HVAC
- ❑ Other

  _____
  _____

BACKING

- ❑ Acrylic / diffusive film
- ❑ Felt / Composite

OTHER QUESTIONS

Project stage _____

Approximate SF _____

Approximate budget / SF _____

Modeling software _____

Other unique variables

_____

ANDALUSIA

Need Assistance on your next Project?

Contact us at
hello@andalusia.design

GFFdesign