Design & Specification Guide

Etch™ Wall 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.
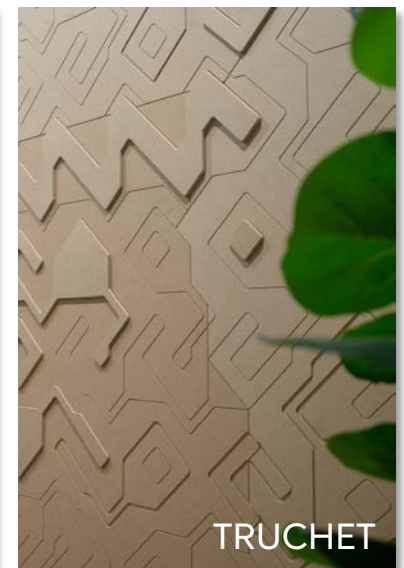
ETCH™

Andalusia Design's Etch is a highly-configurable wood wall system that gives designers the freedom to create seamless, visually-interesting patterns for their clients' spaces.

Driven by Andalusia's parametric design engine and in-house digital fabrication, Etch is ideal for brand-forward, high-traffic areas for 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 mount or ceiling mount

- Material Type: MDF (primary), plywood, multiple materials for integration

- Material Finish: Stain, paint, premium paint

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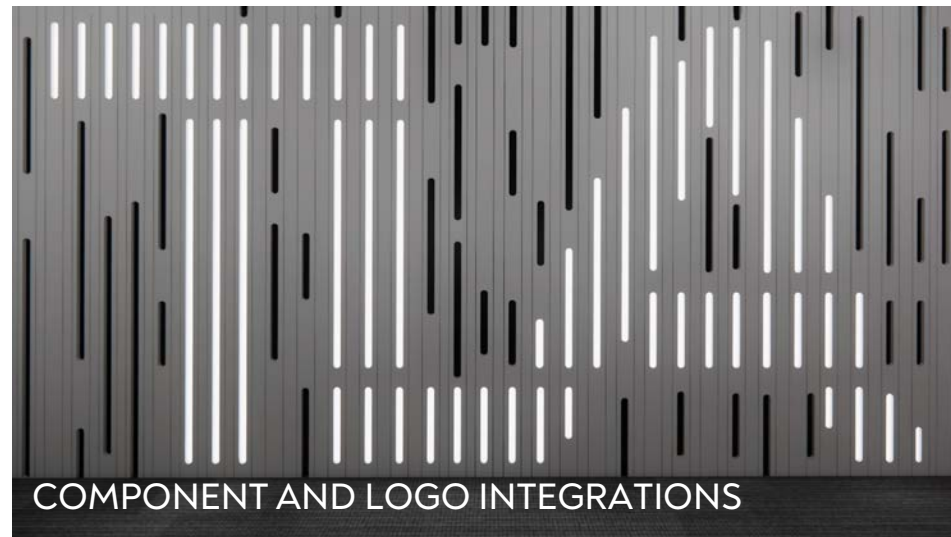

PENROSE

PINWHEEL

TRUCHET

SURFACE OPTIONS

Customize your slat solution for both aesthetic and price with a variety of standard and custom surface options

MATERIAL MIXING

Using a base of wood, you can insert tiles of different materials for color and function, including composites

COMPONENT AND LOGO INTEGRATIONS

Easy-to-integrate client branding, experiential graphics and components, like HVAC, lighting, outlets and more
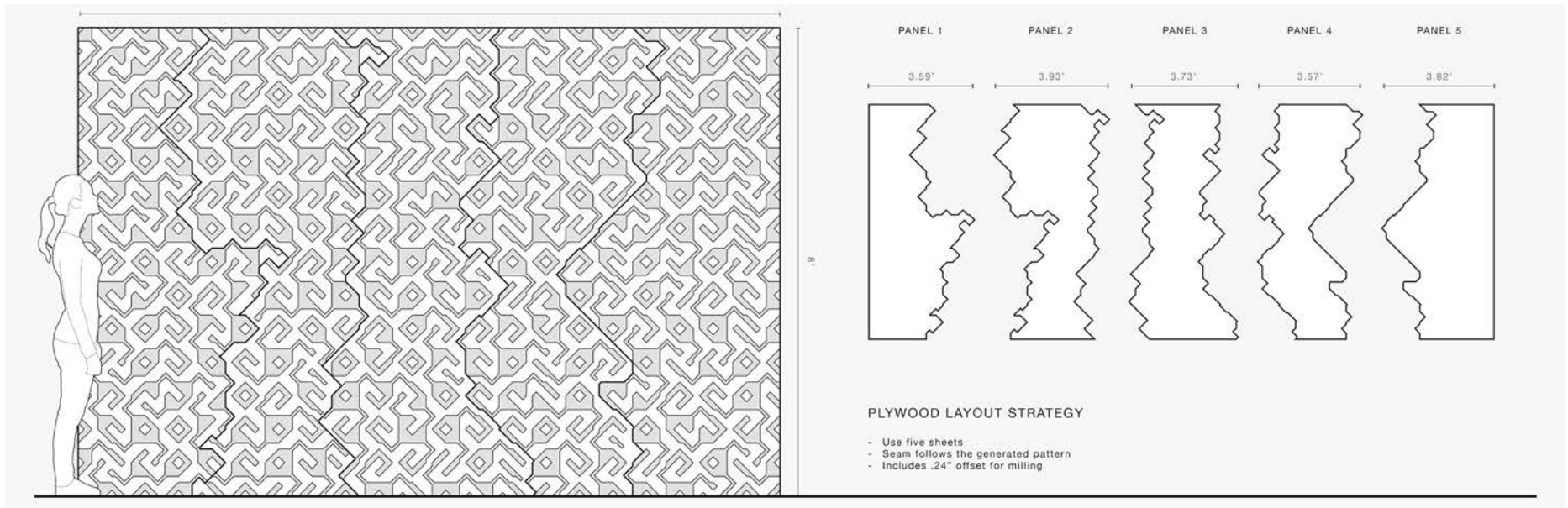
CONSTRUCTION AND INSTALLATION

Simple, clean and intuitive construction with a parametrically driven back panel, keyed Etch panels and hidden joining

ETCH – TAKING WALL TILING TO THE NEXT LEVEL

Using the novel combination of parametric design and advanced digital fabrication techniques, Andalusia takes wall tiling to the next level!
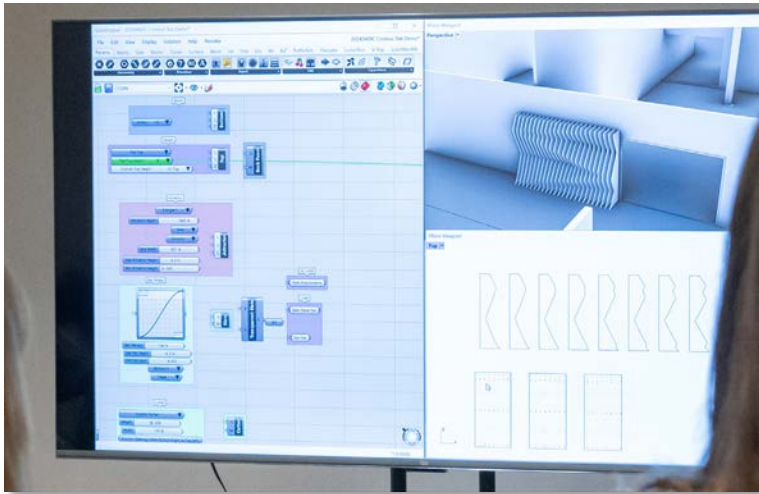
SEAMLESS WALL DESIGN

Intelligent patterning and panelization helps create a smooth, uninterrupted visual flow across the entire wall. The completed system is shipped in custom pieces to the job site. The result is a seamless, visually-cohesive design that is easier for a contractor to install.

PANEL 1 PANEL 2 PANEL 3 PANEL 4 PANEL 5

3.59' 3.93' 3.73' 3.57' 3.82'

PLYWOOD LAYOUT STRATEGY

- Use five sheets
- Seam follows the generated pattern
- Includes .24" offset for milling

After the wall design is created, the Etch system intelligently panelizes to ensure a seamless design and easy installation.
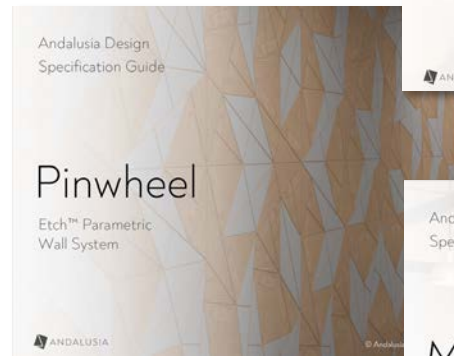
DESIGN STEP 1: CHOOSE YOUR SURFACE

Andalusia's parametric design software gives you the freedom to create an Etch 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!

Our design software allows you to create a surface of your choice, while ensuring whatever we design can be manufactured by Andalusia's digital fabrication machinery.

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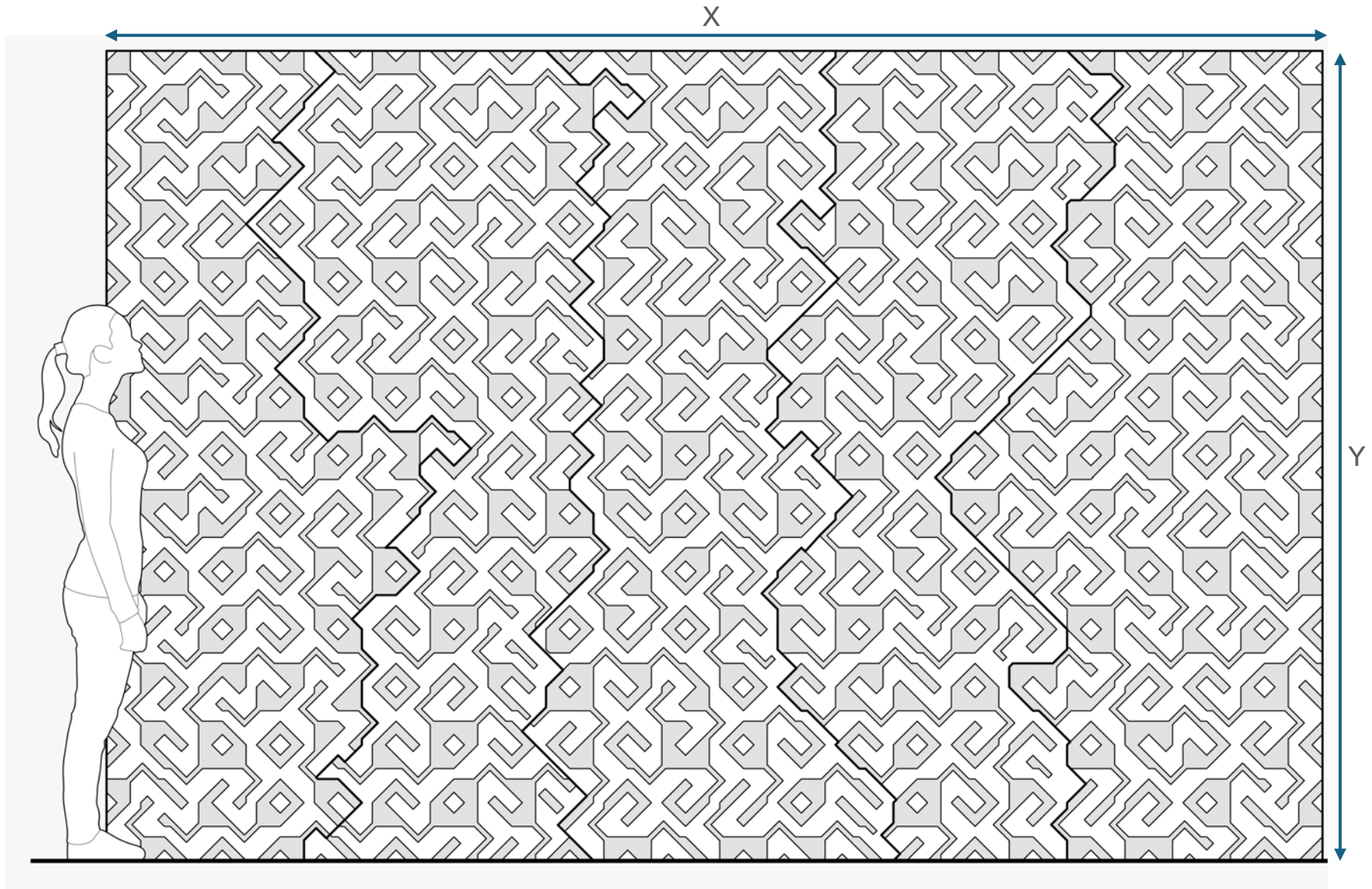
These can be found on our website: andalusia.design/resources

Andalusia Design
Specification Guide

Truchet

Etch™ Parametric
Wall System

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Andalusia Design
Specification Guide

Triangles

Etch™ Parametric
Wall System

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Pinwheel

Etch™ Parametric
Wall System

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Specification Guide

Maze

Etch™ Parametric
Wall System

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DESIGN STEP 2: DETERMINE WALL SIZE

Unlike traditional tiling systems, Andalusia's Etch platform doesn't have to limit you to your standard tile formats for overall array size. Just give us your ideal wall coordinates with your pattern and we'll make it happen for you!

DESIGN STEP 3: CHOOSE MATERIALS AND FINISHES

Andalusia sources the best quality plywood and MDF needed for Etch processing, construction, price and aesthetic. All wood is sourced by local distributors and all processing, including cutting, sanding, staining, painting and finishing is done in our Austin, TX, digital fabrication facility.

MATERIAL AND FINISHES

Select a base material:

- ¾" thick plywood

- ¾" MDF

- Custom options are available

Select a color:

- 5 standard stain options for plywood

- 9 standard color options for MDF

- Custom options are available

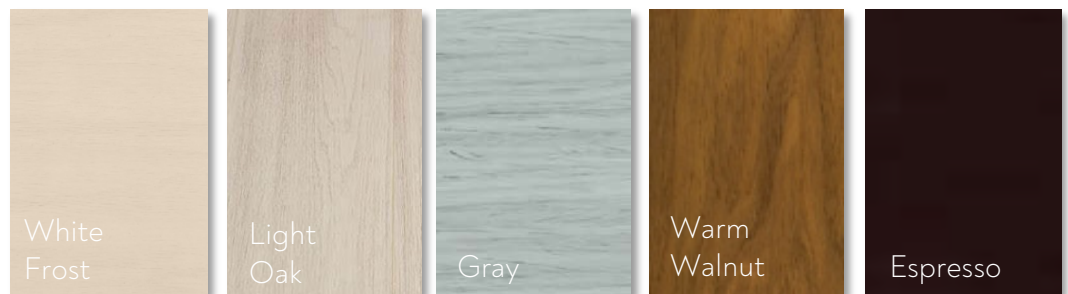Plywood and MDF are optimal materials:

- Uniform strength

- Ease of machining into complex shapes

- Consistent surface quality

- Consistent cut quality

Andalusia sources certified wood, ensuring products are from responsibly managed forests, contributing to environmental sustainability

Standard MDF Paint Colors

Pure White	Soft Beige	Slate Blue	Sage Green	Warm Taupe

Navy Blue	Slate Gray	Beechwood Brown	Matte Black

Standard Plywood Stains

White Frost	Light Oak	Gray	Warm Walnut	Espresso

CUSTOMIZATION OPPORTUNITIES

CREATE YOUR OWN DESIGN

Create an Etch for your client that is on-brand... or just have fun making your own tile! Contact Andalusia to learn more.

3D TILING

Add interesting dimension to your Etch system by replacing elements of your Etch wall with tile inserts.

ADD / MIX MATERIALS

Using MDF or plywood as the base material, you can add other materials, including different color wood, metal and/or composites based on your aesthetic and functional needs.

FILL THE WALL & INTEGRATE ELEMENTS

Instead of restricting you to a 2x2 grid, we can work with you on full wall-to-wall applications, as well as help integrate elements, such as lighting, outlets, electronics... you name it!

CONSTRUCTION AND INSTALLATION

Surface panels are intelligently cut and pieced together to achieve seamless panel-to-panel transitions

Surface panels attach directly to parametric back panel

Back panel is installed by the onsite contractor and is mounted directly to structural wall

Attachment hardware for the surface panels are provided by Andalusia

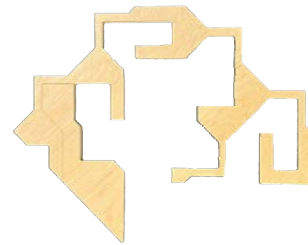For dimensional tiles, pockets are routed to ensure a tight fit with no additional hardware or adhesives

All wood components are made of MDF or plywood for ease of routing and color matching

When applicable, other materials integrated into the Etch system are supplied by Andalusia, along with instructions and hardware
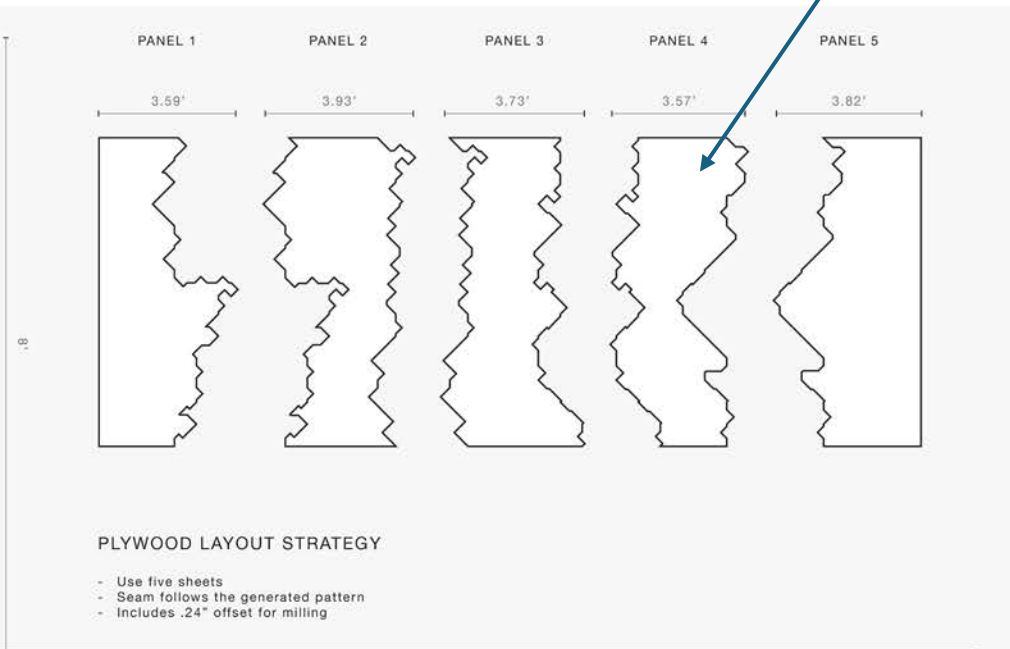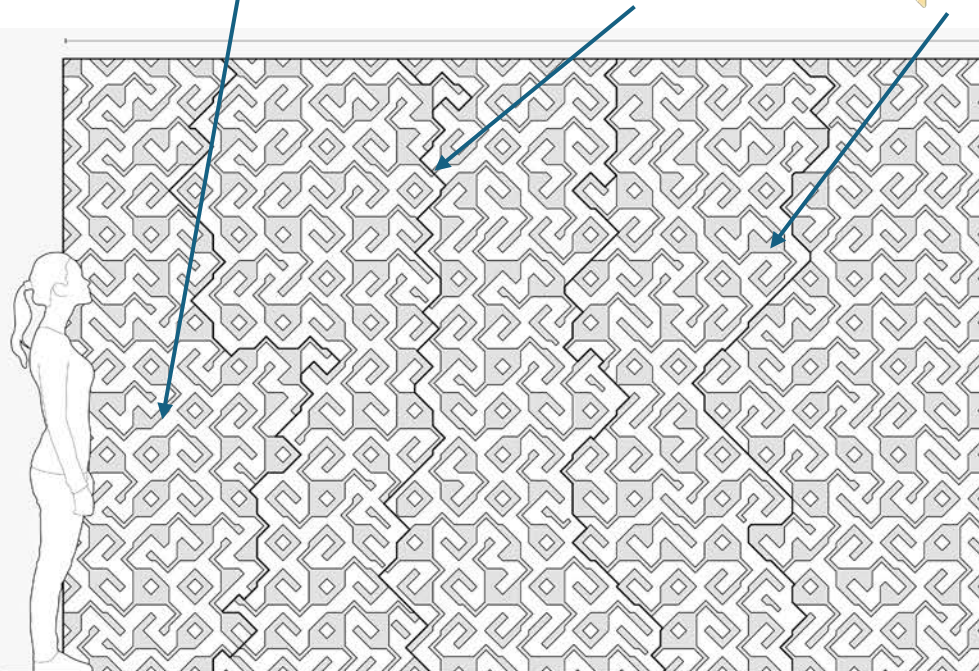
V-groove etching in MDF creates the pattern

Individual panels are pieced together like a puzzle

Individual tile elements can be cut separately to protrude from flat surface and provide dimension
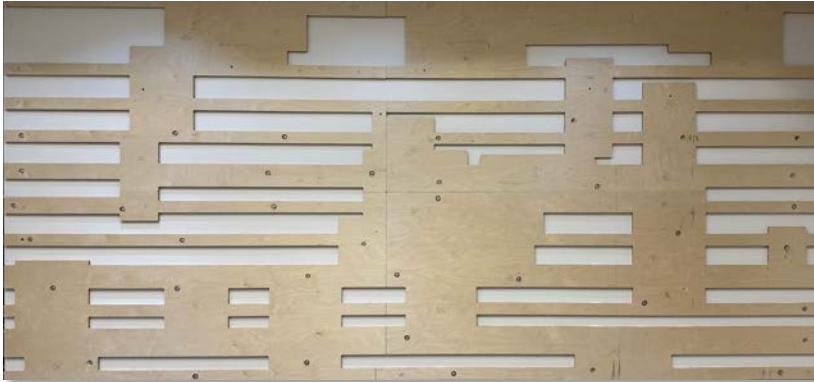
Front panels are intelligently cut

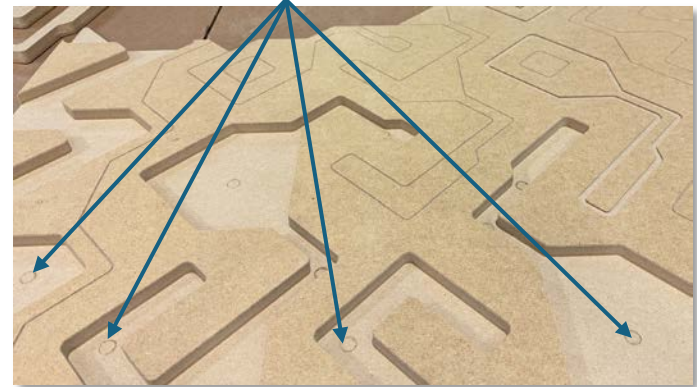| PANEL 1	PANEL 2	PANEL 3	PANEL 4	PANEL 5
3.59'	3.93'	3.73'	3.57'	3.82'

PLYWOOD LAYOUT STRATEGY

- Use five sheets
- Seam follows the generated pattern
- Includes .24" offset for milling

CONSTRUCTION AND INSTALLATION

(1) Parametric furring strips mount directly to structural wall / drywall
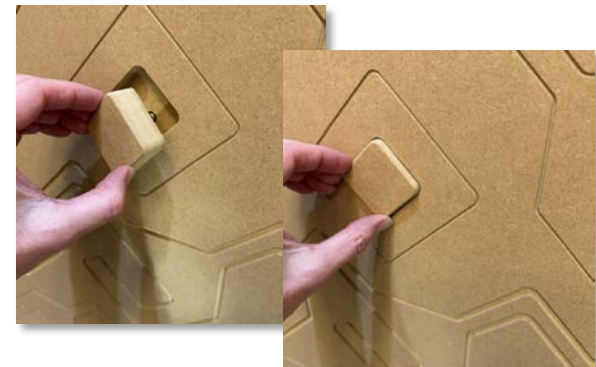

(2) Front panel strategically routed; holes located to mate with furring strip locations

(3) Front panel pieces are then attached to the back furring strip panel

(4) Tight-fit tiles are then used to complete the array and cover the hardware components

(5) Final install with protruding tiles

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 Etch 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 ETCH DESIGN CHECKLIST

Let's get started! Fill out the attached form, along with a full pattern in CAD or other medium, and we'll get to work!

STYLE TYPE

❑ Truchet

❑ Maze

❑ Pinwheel

❑ Linear

❑ Grille

❑ Street Grid

❑ Triangles

❑ Monet

❑ Mosaic

❑ Custom (describe)
_____
_____
_____
_____
_____
_____

BASE MATERIAL

❑ Plywood

❑ MDF

PATTERN

❑ Randomize

❑ Attached schematic

❑ Let Andalusia decide!

❑ Notes
_____

SIZE

❑ Square Feet (XxY)
_____
_____

STAIN COLOR (plywood)

❑ White Frost

❑ Light Oak

❑ Gray

❑ Warm Walnut

❑ Espresso

PAINT COLOR (MDF)

❑ Pure White

❑ Soft Beige

❑ Slate Blue

❑ Sage Green

❑ Warm Taupe

❑ Navy Blue

❑ Slate Gray

❑ Beechwood Brown

❑ Matte Black

❑ Other Finish
_____

CUSTOMIZATION INTEREST

❑ 3D Tiles

❑ Wall-to-wall

❑ Other materials
_____

❑ Integrated components (TV, shelving, other)
_____

OTHER QUESTIONS

Project stage _____

Approximate SF _____

Approximate budget / SF _____

Modeling software _____

Other unique variables
_____
_____
_____
___

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Need Assistance on your next Project?

Contact us at
hello@andalusia.design