ANDALUSIA

Design & Specification Guide

Contour Slats™ Ceiling, Wall and Space Divider 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.

CONTOUR SLATS™

Andalusia Design's Contour Slat system is a parametrically-designed, highly-configurable solution for your wood ceiling, feature wall and space divider needs.

Driven by Andalusia's parametric design engine and in-house digital fabrication, Contour Slats 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: Ceiling mount, wall mount or space divider

- Material Type: Plywood, MDF

- Material Finish: Raw, stained, painted, premium paint

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

FREE-STANDING DIVIDER

WAVE WALL

FACET WALL

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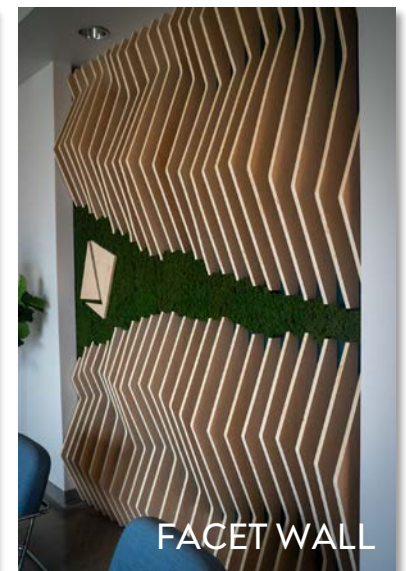
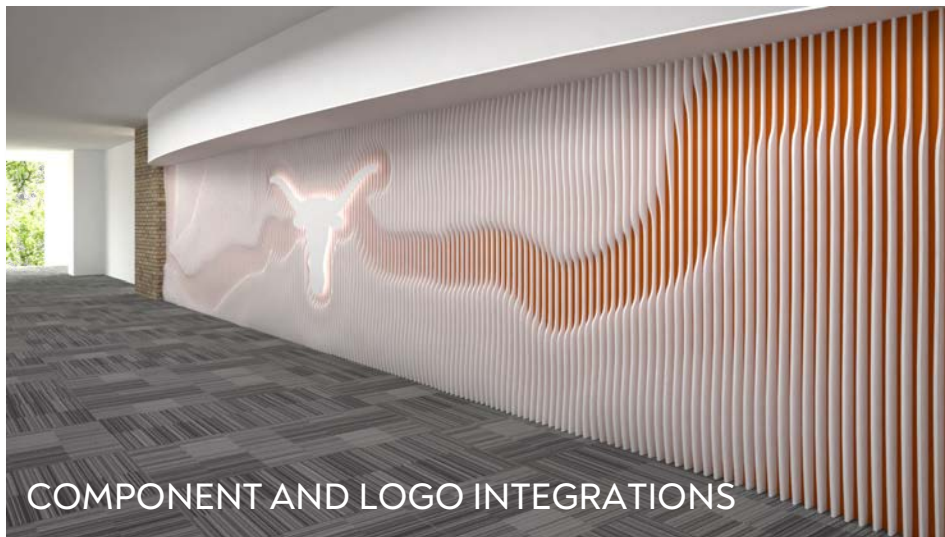# CONTOUR SLAT SYSTEM FEATURES

SURFACE OPTIONS

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

APPLICATION VARIETY

Contour Slats are available as wall mount, wall-to-ceiling and space dividers, both free-standing and anchored

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 parametrically keyed back panel, numbered slats and hidden joiner hardware

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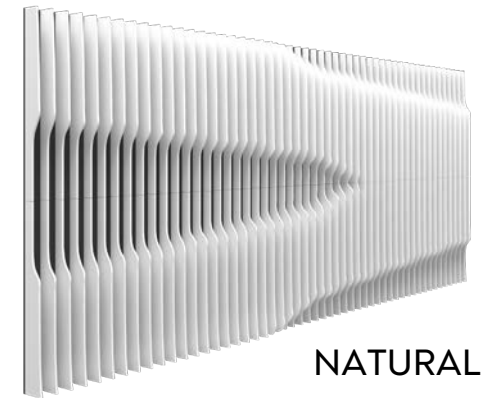
DESIGN STEP 1: CHOOSE YOUR SURFACE

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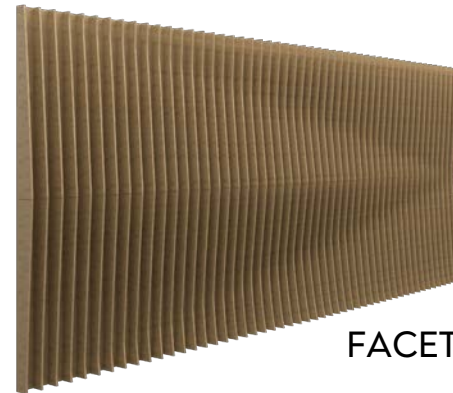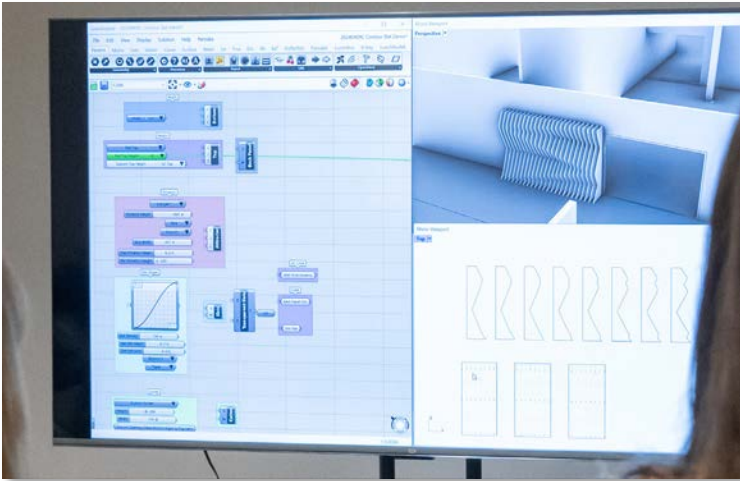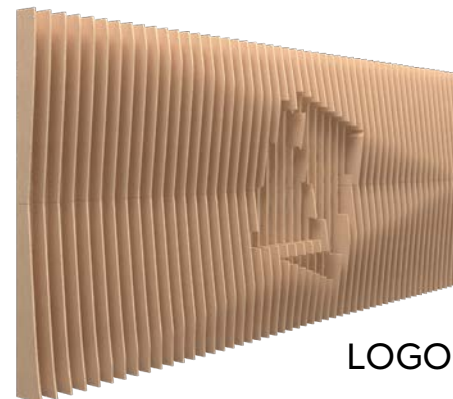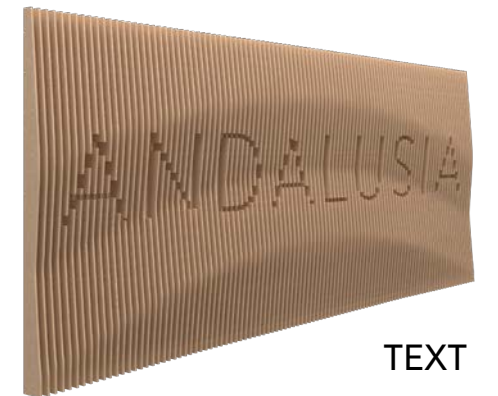
Our design software allows you to create a surface of your choice, while ensuring whatever we design can be manufactured by Andalusia's digital fabrication machinery.

Standard 'Styles' include Facet, Wave, Natural, Logo and Text (right).

All Styles, including standard Styles, can be customized and optimized to achieve the ideal surface design.

FACET

NATURAL

WAVE

TEXT

LOGO

DESIGN STEP 2: MODIFY CONTOUR SLAT VARIABLES

One you have a sense of the surface design you're looking for and the size of the Contour Slat system, you can change variables to optimize your aesthetic, including location of the surface design, slat spacing, slat depth and overall shape.

DEFINE WORKING AREA

Whether working in Revit, AutoCAD, Rhino, Sketchup or another modeling software, we can create curves on a 2D plane or in a 3D space for where the Contour Slats will be placed, then port that information into Andalusia's Rhino / Grasshopper 3D parametric platform. These curves will be used as the reference locations for the Contour Slat array.
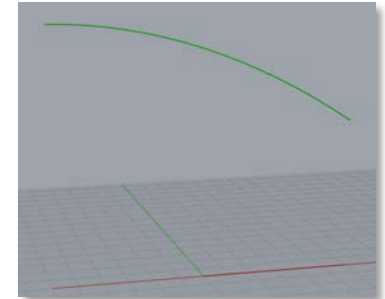
Curve data pulled from
CAD and input into Rhino

CREATE SURFACE

We will work with you to apply different surface options to determine the most interesting and relevant aesthetic.
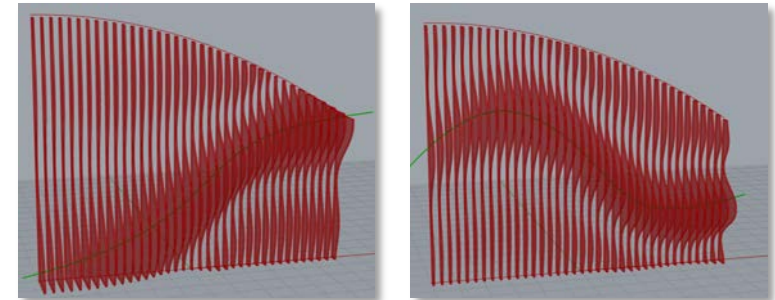
Wave wall with attractor curve driving the wave location
and reference curves driving the top and side dimensions

OPTIMIZE VARIABLES

Once you have the ideal surface design, now we can play with slat spacing and slat depth (how far the slats protrude out of the surface), to optimize for aesthetic and budget.
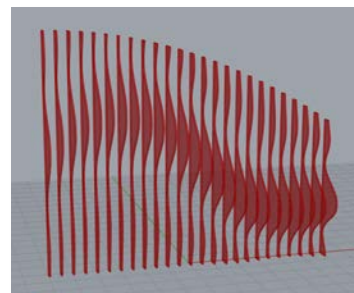
Slats spaced 6" o/c
2"-12" depth from wall
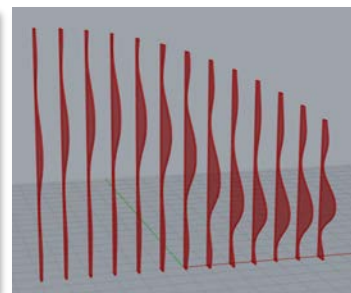
Slats spaced 12" o/c
2"-12" depth from wall

Slats spaced 4" o/c
2"-12" depth from wall

Slats spaced 4" o/c
2"-6" depth from wall

DESIGN STEP 3: RESPONSIVE DESIGN

A key benefit of the Contour Slat parametric design software tool is the ability to write rules around how your design accommodates and responds to elements, including lighting, HVAC and other components, all in real-time without the traditionally long, drawn-out design change process.

DEFINE AREAS OF INTEGRATION

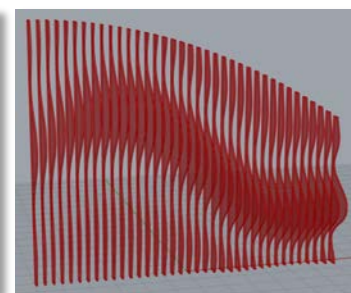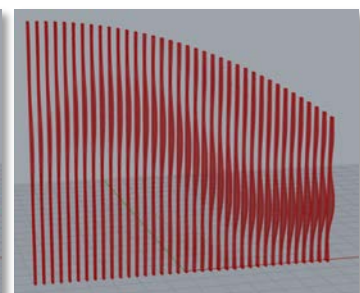Areas of integration can be added by our team manually in Rhino by drawing the impacted area(s), or automatically added to Rhino by pulling component information from an existing CAD or Revit model.

DETERMINE HOW TO INTEGRATE

Andalusia's parametric code allows for flexible cut-out options.

- Partial Depth Cuts: We can define the depth that the slats need to be cut away in order to accommodate elements. This is useful when integrating shelving, furniture, or elements that do not need to be mounted direct to the structural wall.

- Through Cuts: We can also perform full cut outs, like the example in Figure B. These cuts are useful for doors, windows, structural columns or anything that needs to be mounted directly to the structural wall.

RESPONDING TO INTEGRATED ELEMENTS

Using our software, we can write rules around how the slat array responds to integrated elements. Figure A shows how a Wave design responds to a tv in a similar manner to how water flows around stones in a pond.

ELEMENT INTEGRATION

Figure A. Contour Slat Wave wall that doesn't just accommodate a television and shelving, but purposely designs around them
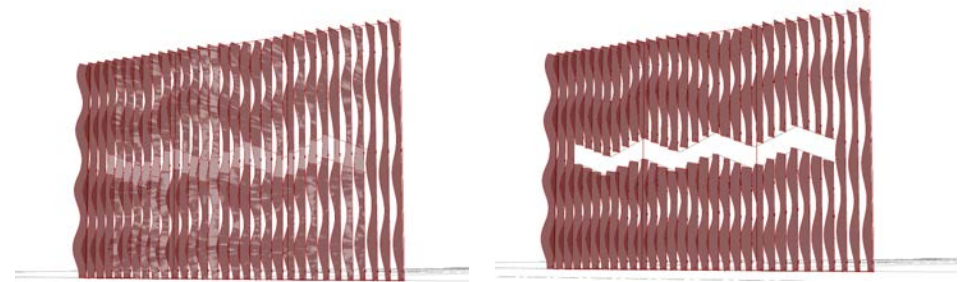

Figure B. Example of creating curves in CAD to generate cut-out areas within a slat array.

DESIGN STEP 4: 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
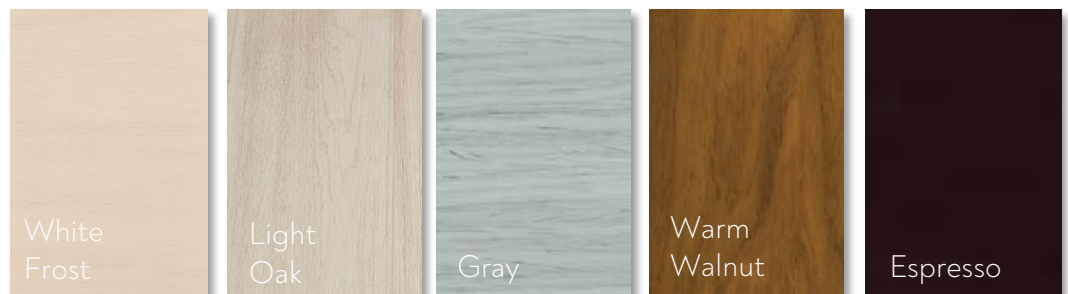
CONSTRUCTION AND INSTALLATION – WALLS

The Contour Slat wall system offers an intuitive and simple approach to installation and can be installed by nearly any trade.

BACK PANEL

Most wall slat systems come with a back panel that matches the wood slat material, either MDF or plywood

Back panels are shipped finished with all slat joiner hardware embedded, including biscuit joiners and dowels

[**NOTE**] Back panels need to be leveled and anchored to the structural wall and installed by the onsite contractor

Back panels are identified with unique numbers that correlate with numbers on the final detailed schematic

WOOD SLATS

The wall slats engage the slotted and keyed back panel for a clean aesthetic, structural stability and ease of installation

Wall slats arrive to the jobsite individually numbered with keyed dowel locations that correspond to the back panel locations

Slats engage to the back panel purely by force - no additional joining hardware is required (a rubber mallet may be needed to help drive the slat into the back panel)

The resulting array should be a tight fit – ensure that the slats are fully engaged with little / no rotational slop

Wall slat system with plywood back panel – no visible hardware

All slats are individually numbered

Auto-generated keyed back panel for ease of installation

Hidden joiner hardware

CONSTRUCTION AND INSTALLATION – DIVIDERS

The Contour Slat divider system offers an intuitive and simple approach to installation and can be installed by nearly any trade, including furniture installers. The system comes in free-standing and floor-to-ceiling anchored options.

CONSTRUCTION

Free-standing slat divider systems are constructed with MDF and come with vertical panels and horizontal shelving for function, aesthetic and structural integrity

Free-standing systems require a wide base to ensure structural stability

Anchored systems require floor and ceiling anchors that need to be installed by the onsite contractor

All elements of the delivered divider systems, including hardware, finished MDF components and installation instructions, are provided by Andalusia

Horizontal Shelf

Vertical Panel

Invisible joiner hardware to connect components

Wide base for structural stability (for free standing systems)

Vertical panels to prevent racking / provide visual privacy

Horizontal elements for structural stability and shelving

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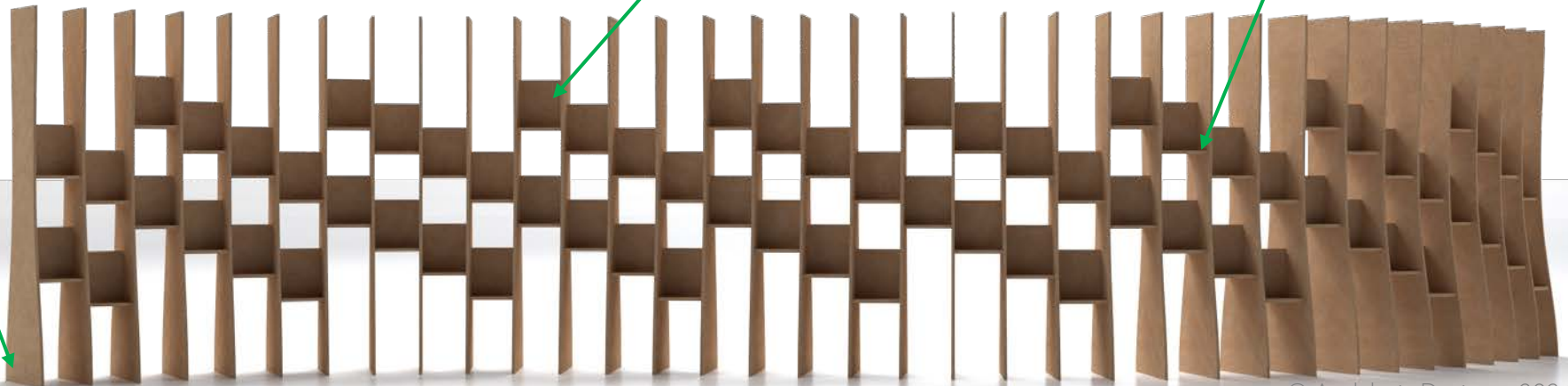
SERVICES AND DOCUMENTATION

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 Contour Slat 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
- [ ] Free-standing divider

SURFACE DESIGN

- [ ] Wave
- [ ] Facet
- [ ] Natural
- [ ] Notes
  _____

GRAPHICS

- [ ] Text
- [ ] Logo
- [ ] Image / Topographical
- [ ] Custom
  _____

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
  _____

SLAT MATERIAL

- [ ] Plywood
- [ ] MDF

INTEGRATIONS

- [ ] Electrical (control, lighting, outlets)
- [ ] HVAC
- [ ] 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