



## PARASOLEIL PROCESS GUIDE

# Custom Design

## How to Engage Parasoleil for a Custom Panel Application

### STEP 1: CONCEPT REVIEW

During the design phase of your project, start the conversation with the Parasoleil ALFA (Art Lab for Architecture) team to discuss your project from the following perspectives:

- Design Intent
- Manufacturing Feasibility
- Engineering Requirements
- Pattern Development
- Fastening Methods
- Budget Requirements
- Schedule Limitations
- Installation Strategy

### STEP 2: CONCEPT DEVELOPMENT

Parasoleil will provide the guidance and expertise to help you dial in your custom design as far as you need to take it for this phase of the project. This guidance includes:

- Preliminary engineering review to verify basic structural requirements
- Pattern review and sign-off for future development by customer
- Preliminary design concept drawing development to include in construction documents
- Tailored specification designed for VE defense

### STEP 3: BUDGETING PHASE

Parasoleil will provide a complete budget pricing review based on your specific project needs. This is a critical step to help ensure contractors have a heads up for this specialty product.

### STEP 4: BIDDING PHASE

Parasoleil will reach out to all bidders with formal quotes to provide complete and consistent information to everyone. This critical step ensures there are no uninformed bidders who could potentially “misrepresent” the cost of the system and find themselves in a difficult situation when they finally are required to reconcile these costs when it is time to order the system.

### QUESTIONS?

*Contact Parasoleil for complete specifications, installation requirements, and warranty coverage.*

# Parasoleil

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# Custom Design Process Guide *(continued)*

All product customizations add cost and lead time to a project. During the first step of the custom design process, it is critical to evaluate if your project can accommodate the increased cost and lead time for the desired custom features.

## Customization Categories

### Pattern

The most common customizations include the following:

- Evaluating a customer provided custom pattern for manufacturability
- Developing a custom pattern from scratch for your project
- Taking a brand/logo/art piece and overlaying on one of our MESH patterns
- Altering one of our standard patterns for unique croppings, varying opening percentage, etc.

### Finish

Panels, hardware, and structure are all available in custom powdercoat finishes. Parasoleil will provide detailed guidance in what to look for when specifying a custom finish for any element on the project.

### Hardware

For non-standard fastening applications, Parasoleil can explore custom fastening solutions for your project. Examples of custom brackets include:

- Connections to round posts
- End conditions with no posts on a screen or railing system
- High wind loads requiring heavy-duty brackets
- Concealed fastening

### Substructure

Outside of Parasoleil's standard offerings, we can design custom structures, or when outside our wheelhouse, partner with capable vendors in our network, to help you get exactly what you need. Through the concept review phase, Parasoleil will to guide you toward the best steps forward based on our experience and the project's needs and requirements. Examples include:

- Cantilevered overhead structures
- Non-regular shapes (ovals, circles, polygons)
- Radiused screen structures

### Engineering

Many projects will require site specific engineering calculations, most common for exterior building cladding projects and other panel applications that are attached to a building. Parasoleil can provide a wide array of engineering needs, including PE stamped calculations, and engineering analysis submittals to confirm compliance with meeting local code requirements such as DSA, Miami-Dade, and others.

### Custom Panel Forming and Welding

Panel bends, panel rolls, panel brakes, embedded PEM studs, weldments—these types of customizations are available yet have some critical limitations to them such as:

- Minimum radius of a bend or break
- Required panel thickness and dimensions
- Pre-finished processes and finishing options after customizations

Parasoleil will always ensure feasibility before moving forward.