PARASOLEIL CASE STUDY

G Deck Parking Garage: Orlando Health

ORLANDO, FLORIDA

Completed May 2023

PRODUCT DETAILS

APPLICATION
Ventilated parking garage cladding

SYSTEM
ParaClad 100

MATERIAL
Panel: 5000 series aluminum
Structure: 6000 series aluminum

PATTERN
Custom: Hive MESH with branded artwork

FINISH
Clear Anodized

PROJECT DETAILS

SITUATION
The highly visible west elevation on this parking garage needed a cost effective, decorative screening system on this existing structure. The design goal was to accommodate project engineering requirements as well as aesthetic large-scale imagery requirements while the full build out was in process.

SOLUTION
The project consists of three separate ParaClad 100 floor to floor cladding panel arrays totaling approximately 1,500 sf distributed across the west façade of the existing parking garage. The aluminum substructure system included customized brackets, .125” thick anodized formed aluminum cladding panels with double returns on all sides to conceal the fasteners, and a custom perforated decorative pattern based on imagery provided by the owner for branding purposes.

Parasoleil

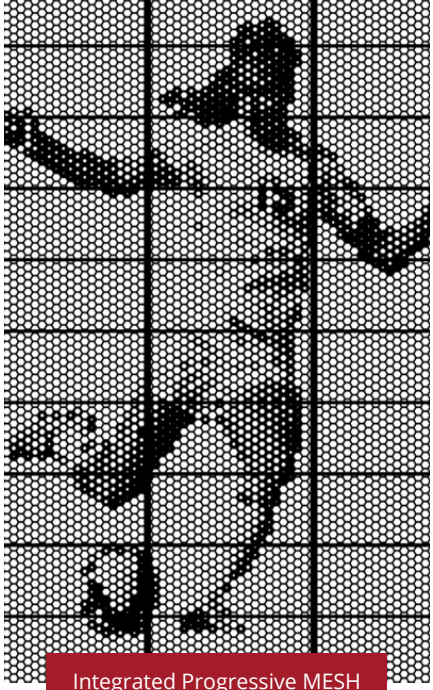
From the Client

SPECIFIER
Finfrock, Orlando, FL

Parasoleil presented the ParaClad 100 floor to floor cladding system that was specifically designed for this application. The Parasoleil engineering team utilized their proprietary MESH pattern approach to meet the design goals for a significant brand opportunity to meet the specifications for the project.

The installation team benefitted from the fact that the ParaClad system installs like a kit and requires no cutting, drilling, or finishing in the field. Each component was labeled according to installation diagrams provided by Parasoleil installation support team to help streamline the installation process. The complete installation was completed by a two-person crew in approximately 10 days, saving time and money.

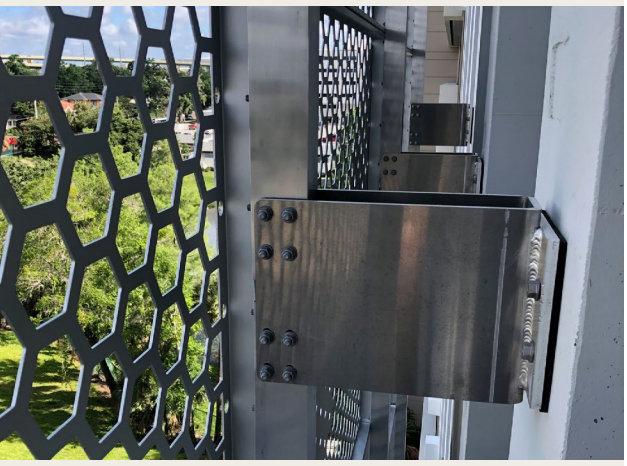
Solid body MESH approach



Integrated Progressive MESH

ENGINEERING CHALLENGES

The system brackets were modified to increase the offset distance between the wall surface and the panels to allow for the system to be installed around the existing protruding concrete corbels. Also, Parasoleil's engineering team was able to coordinate the Paraclad bolt plate locations to the structure around the existing precast steel locations which were provided by Finfrock to avoid installation issues in advance. In addition, sophisticated Finite Element Analysis (FEA) modeling was used to confirm that the structural performance of the custom laser cut patterned panels could accommodate the project wind loading.



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parasoleil.com
303.589.4524
hello@parasoleil.com