

PARASOLEIL CASE STUDY

G Deck Parking Garage: Orlando Health

ORLANDO, FLORIDA



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.

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From the Client

SPECIFIER

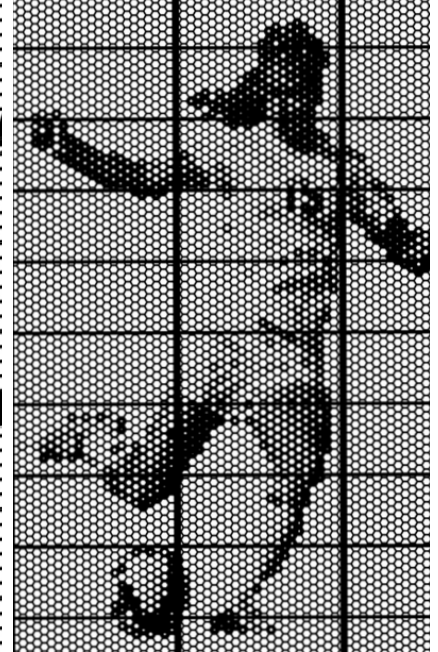
Finrock, Orlando, FL

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.



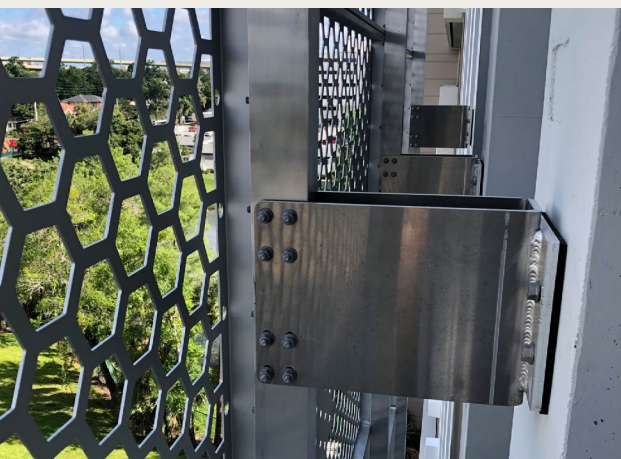
Solid body MESH approach



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 Finrock 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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