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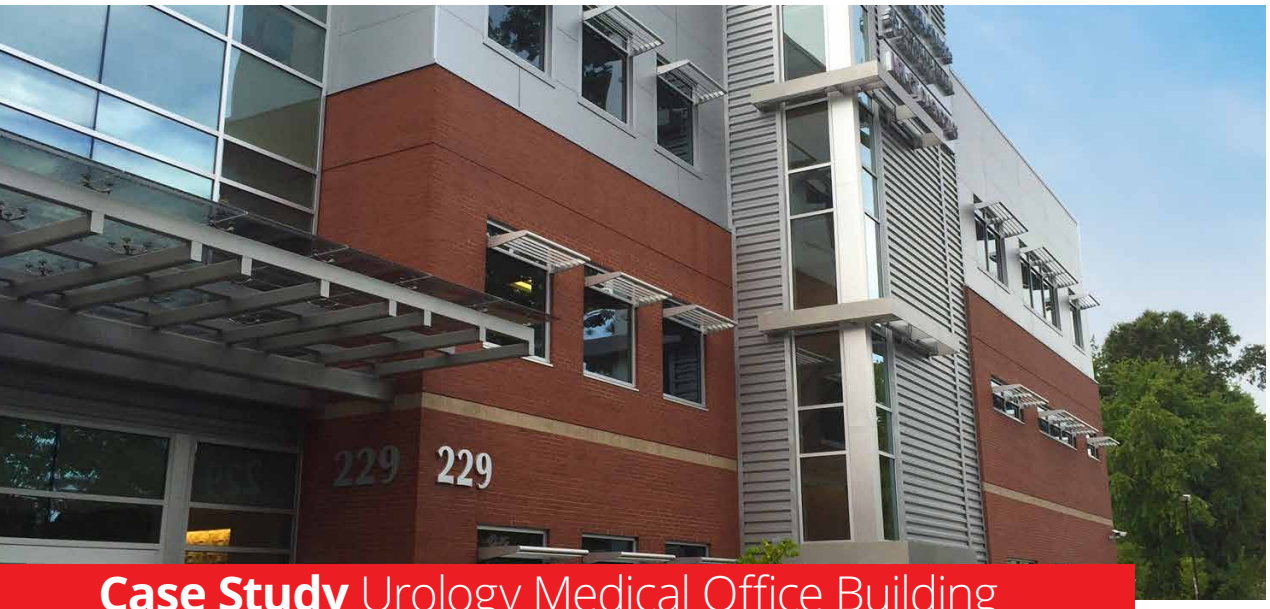

Case Study Urology Medical Office Building

PROJECT SPECS

MBCI Products: 7.2 Insul-Rib™, CF Architectural Horizontal

Location: Virginia Beach, VA

Color: Signature® 300 Silver Metallic

Coverage: 12,500 Sq. Ft.

Architect: PF&A Design

General Contractor: W.M. Jordan Company

WHY MBCI?

MBCI provides customers quality metal products, superior service and competitive pricing. From a single manufacturing facility in 1976 to now the largest metal roof and wall panels' supplier in the nation, MBCI has grown tremendously with its customers' needs in mind. MBCI manufactures more than 90 different metal panel profiles, as well as performs meticulous testing and offers complete engineering and design capabilities, allowing MBCI to be capable and committed to supporting both the design and contractor communities from project conception through project completion.

Equipped with the latest tools and technology available, Urology of Virginia has a long history of diagnosing and treating all urological conditions with the highest quality of care. Over the years, this commitment has resulted in a larger number of patients, requiring the facility to expand their Virginia Beach campus to service the vastly growing community. The expansion includes a three-story medical office building that features an imaging center with an MRI and CT scanner on the first floor, an ambulatory surgery center on the second floor and space for a cancer clinic with twelve exam rooms on the third floor. The new facility is expected to create several jobs within the community, including 32 physicians and more than 200 other staff members who can work together to provide patients the most effective treatments and therapies.

PROBLEM

When developing the design for the new building, the architect, PF&A Design, was challenged to create a high-tech aesthetic concept as opposed to continuing to use a brick façade like the one featured on the existing structure. This was achieved by the selection of metal as the primary exterior building material as it provides a more modern, sleek appearance.

Another challenge the architects faced was maximizing the land available to accommodate the addition of the new facility. To ensure no space was wasted, the new extension is only approximately 2 inches from the existing building, which resulted in challenges when aiming to maximize the footprint of the extension. This required PF&A to work closely with the jurisdiction's authority (AHJ) to ensure all codes and regulations were satisfied and no construction delays occurred. As safety was of great importance, the architect decided to utilize insulated metal panels as they more effectively help slow the spread of flame and smoke as compared to non-insulated metal panels.

SOLUTION

Insulated metal panels offer many advantages over traditional building envelope materials—an advantage capitalized on by this project's architects. MBCI's insulated metal panels provide the highest standard of quality and energy efficiency for the new structure, including elevated performance, sustainability features and LEED benefits.

PF&A Design selected MBCI's deeply corrugated 7.2 Insul-Rib™ Insulated Metal Panels as well as the smooth CF Architectural Horizontal insulated metal panels in 22-gauge Signature® 300 Silver Metallic for the newly-constructed 44,000 square foot medical office building. The combination of the corrugated panels in the main entrance and stairwells and the smooth panels for the third floor was key in adding visual interest and breaking up the mass of the three-story building to achieve the desired appearance.

The 7.2 Insul-Rib™ insulated panel combines a 7.2 rib panel design with a premier polyurethane foam core that delivers superior insulation while the CF Architectural Horizontal feature stucco-embossed interiors and exteriors. The supremely flexible CF Architectural Horizontal insulated metal panels were also positioned with patterning aligned with the windows featured on the two floors below to provide enhanced symmetry and cohesion. The flat appearance of this panel provided flexibility that enables the corners to continuously wrap around the building. Without the versatility of this panel, an alternate, less functional and aesthetically pleasing design would have needed to be implemented.