



BUILDING MODIFICATIONS ACHIEVED THANKS TO FYFE'S TYFO SYSTEM

Location: Edwards Lifesciences, Irvine, CA

Edwards Lifesciences is the global leader in patient-focused medical innovations for structural heart disease, as well as critical care and surgical monitoring. The Edwards Lifesciences Building Community Center is at the heart of the company's headquarters campus in Irvine, CA.

Edwards Lifesciences contacted an architect to support the organization with building modifications which included changes to the structural vertical and lateral support systems. The architect worked with the owner to come up with a design that created space in a building by removing a portion of a shear wall. A structural engineer was called upon to design a strengthening method to allow for this modification without thickening walls and losing valuable space.

Retrofit of existing buildings can be a challenge when occupancy and weight limitations need to be factored into structural design. The lightweight, non-intrusive, and high-strength properties of the Tyfo FRP strengthening systems provide a valuable retrofit option for existing concrete and masonry structures.

Fyfe's trained and certified applicator installed Tyfo FRP strengthening systems provide additional in-plane shear strength to masonry and concrete walls. For this application, the Tyfo SCH Composite anchors were incorporated in the design in order to meet the structural engineer's requirements. Fyfe's anchors are code approved and listed in IAPMO ER-595. Additionally, the Tyfo FRP strengthening systems were used to provide in plane shear transfer at wall-slab connections in areas where the structural engineer's analysis deemed the joints deficient.

