



CASE STUDY

LEON COUNTY

Project Profile - Public Safety Complex, Tallahassee, Florida

Owner: City of Tallahassee and Leon County

Project Engineer/Designer: CRA Architects

Contractor: Ajax Building Corporation, New South Systems, Inc.

Material Supplier/Manufacturer: CSS Construction



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EXPERT SOLUTIONS FOR THE BUILDING ENVELOPE

BUILDING TRUST



Background

The Leon County Public Safety Complex is a multi-purpose facility developed in partnership between the City of Tallahassee and Leon County. The facility houses the City of Tallahassee Regional Transportation Management Center and Fire Department Administration, the Leon County Emergency Operations Center and Emergency Medical Services, the Joint Dispatch for Center City of Tallahassee and Leon County, and an Emergency Communications Center for activation during area emergencies. The building was constructed with ICF (Insulated Concrete Forms), structural steel, concrete floors on a metal deck, and a brick masonry and cast stone façade. The windows on the facility were laminated, hurricane resistant glass in aluminum frames.

The Sika Solution

In June, 2012 new construction began for 65,000 f² of built-up roof over the concrete and steel deck. The building was designed to withstand 200 mph winds and needed a roof system to match. This project was originally specified for a competing liquid-applied membrane system; however, the Sikalastic® RoofPro system provided better savings in both material and labor. Based upon Sika's Factory Mutual testing, it was confirmed that the Sikalastic® RoofPro system met this same 200 mph wind design criteria. Rain plagued the area for a great majority of the project duration. Fortunately, the Sikalastic® RoofPro membrane is rain resistant within 15 minutes of application effectively minimizing weather-related delays and helping to keep the project on track. First a Sika® Bonding Primer (SSSS) was applied then a Sikalastic® 621 TC White Base Coat. A pearl gray Sikalastic® 621 TC intermediate coat and a white Sikalastic® 621 TC top coat encased Sika® Reemat Premium fiberglass reinforcement. This system was offered with a 25 yr. NDL warranty with 130 mph wind speed rider.



Sika® Reemat - a glass fiber matt embedded into Sikalastic® roof coatings for enhanced multi-directional tensile strength. Great for complex details, joints, corners, and protrusions.

Sika® Flexitape - is a nylon mesh capable of stretching within a membrane to accommodate a high degree of thermal and structural movement.

Sikalastic® 601 BC/621 TC - is a moisture triggered, waterproofing polyurethane roof membrane system able to resist gassing and foaming and is rainproof shortly after application.

Sikalastic® 624 AR - Elastomeric, alkaline resistant, moisture-triggered, polyurethane balcony system

Sikasil® 728 RCS - is a two part, self-leveling, rapid cure, ultra low modulus silicone sealant compatible with Sika's concrete repair systems.

Sikaflex®, High Performance Sealants - are premium-grade polyurethane joint sealants that are fully compatible with Sika's concrete repair systems.