

Case study

Salt Lake City International Airport chooses Henry® Building Envelope Systems® for next-generation facility

Durable air-barrier systems protect over half-a-million square feet of South Concourse and parking garage

The Challenge

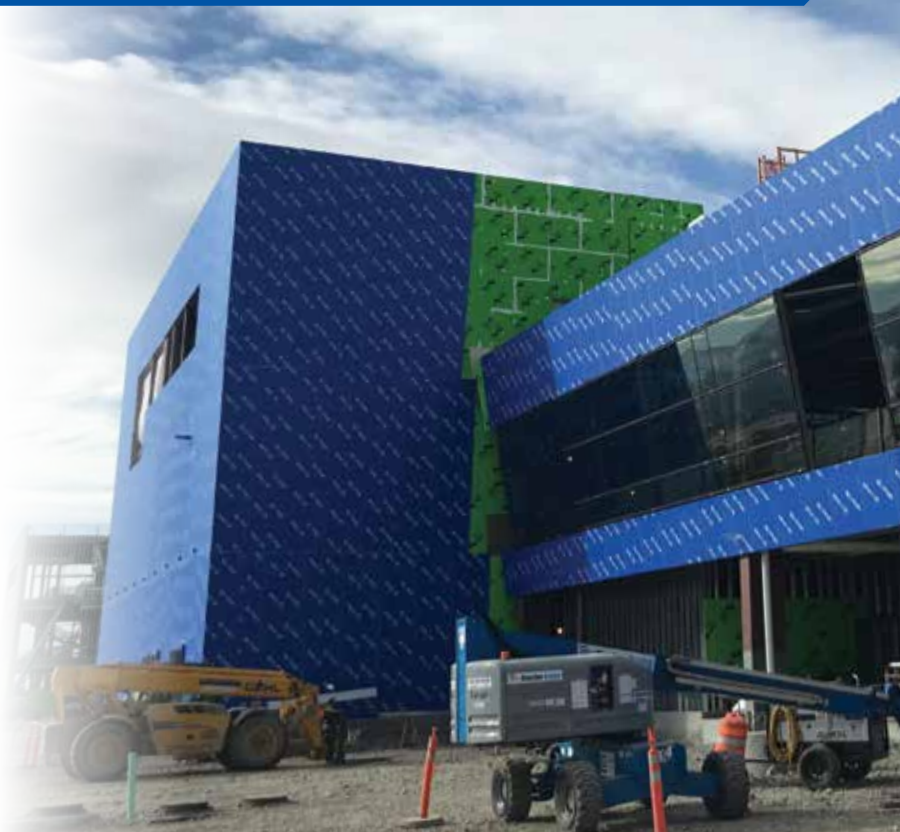
Salt Lake City International Airport (SLC), which serves more than 24 million travelers a year, is preparing for decades of growth with the construction of an entirely new airport. The \$3.6 billion multi-phased construction project is the largest in history for the state of Utah, as well as one of the nation's largest aviation projects in years. It is also the first entirely new airport built in the United States in the 21st century.

The first phase of this massive project includes the airport's parking garage and South Concourse. HOK San Francisco serves as master architect/engineer for the project while four Salt Lake City-area architectural firms – MHTN, GSBS, FFKR, and Architectural Nexus – add their expertise to the project.

SLC developers turned to Henry® Company to provide advanced air barrier systems to protect over half-a-million square feet of exterior wall surface and an adjacent parking garage during Phase 1 construction.

The sheer scope of the SLC project, in terms of square footage and breadth of products needed, called for substantial coordination between Henry, the architects, general contractor, exteriors contractor, installer and testing agency.

(continued)



Project at a glance

Location: Salt Lake City, UT

Project type: Airport concourse, parking garage

Project size: 510,000 sq. ft. of exterior wall surface in Phase 1

Master architect: HOK San Francisco

Local architects: Architectural Nexus, MHTN Architects, GSBS Architects, FFKR Architects

General contractor: Holder Construction/Big D Construction

Exteriors contractor: Steel Encounters

Installers: Engineered Wall Systems (South Concourse)
Noorda (parking garage)

Testing agency: Intertek

Henry systems featured

South Concourse: Blueskin Self-Adhered Water Resistive Air Barrier System

Air barrier membrane

- Henry Blueskin VP160

Primers

- Henry Blueskin Adhesive and Henry 573 Blueskin LVC

Flashings

- Henry Blueskin SA and Henry Metal Clad

Sealants

- Henry 925 BES Sealant and Henry 212 All Purpose Crystal Clear Sealant

Parking garage: Henry Air-Bloc Fluid-Applied Air Barrier System

Air barrier membrane

- Henry Air-Bloc 17MR

Flashing

- Henry Air-Bloc LF



Air-Bloc 17MR was chosen for its vapor-permeability and sprayability at temperatures as low as 20 °F and, most critically, for the effectiveness of the fluid applied membrane to accommodate the brick ties already in place on the parking garage. “Air-Bloc 17MR was a great choice to assure a tight seal around each tie,” said Henry Western Regional Manager Travis Sims.

The Results

Work to install the complete air barrier systems began immediately in October 2017, when the first roll of Blueskin VP160 went up on the South Concourse. The total installation covers some 510,000 square feet of exterior wall surface.

The diversity of air barrier systems offered by Henry, plus dedicated support from its local and national teams, were decided strengths for this intricate project. “For the SLC design and construction partners, having Henry as a one-stop source for both products, along with dependable on-site project support, was a big advantage,” said Henry partner Jim Sheltmire, D7 Weather Protection Systems.

“We were willing and able to put a broad team effort and superior technical assistance into the project from both the local and national teams which set Henry apart from other providers. The

Marc Ribar, Vice President, Engineered Wall Systems, installer of the air barrier systems, noted, “The range of solutions Henry offers made them the partner of choice for this project. Because Henry offers different solutions to suit a variety of wall types, we knew we could pinpoint just the right air barrier for the different substrates we were working with. And you can imagine how involved and challenging the trade coordination is for a project of this size. The SLC team needed to feel confident that the air barrier system we chose would have long-term durability and resilience.”

The Solution

Ideally suited to the task were the Blueskin® self-adhered and Air-Bloc® fluid-applied air barrier systems from Henry. Henry Blueskin VP160 Self-Adhered Water Resistive Air Barrier and compatible accessories were selected for use on the airport’s South Concourse, and Henry Air-Bloc® 17MR Fluid Applied Vapor Permeable Air Barrier and accessories were selected for use on the new parking garage.

Blueskin VP160 sheds bulk water infiltration while permitting vapor to pass through, allowing walls to drain and substrates to dry. And its continuous plane of air-tightness will help improve the Concourse structure’s thermal performance.

As flashing accessories in the Blueskin VP160 membrane system, the team installed Henry Blueskin SA as well as Henry Metal Clad® where permanent UV protection was needed.

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Marc Ribar

— Engineered Wall Systems

teams stayed very close throughout the project. Henry technical support flew in to complement the strong local team, conducting inspections and providing support throughout the schedule. Henry was clearly committed to the success of this installation.”

As work on the South Concourse wrapped up in mid-2019, Henry began Phase 2 work to apply an additional 170,000 square feet of Blueskin VP160 to the new North Concourse, scheduled for completion in mid-2020.

Thanks to the team effort and robust set of solutions from Henry, the new Salt Lake City Airport heads into the next generation with durable, trusted air barrier systems that meet the highest industry standards.

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