

ARMSTRONG GREAT HALL AT ASU



THE PROJECT

Renlita, successfully engineered and installed the S-3000 Foldaway door at the W. P. Carey Foundation Armstrong Great Hall on the Arizona State University Downtown Phoenix campus. This monumental installation transforms the auditorium-style room into a versatile space, seamlessly connecting it to the adjacent plaza.

The W. P. Carey Foundation Armstrong Great Hall at ASU Downtown Phoenix campus required a transformative solution to enhance its versatility. The hall serves as a multifunctional space, hosting graduations, lectures, assemblies, and various events. The challenge was to seamlessly connect the auditorium-style room to the adjacent plaza for special occasions. Renlita's expertise was sought to design and install a monumental dual-panel vertical lift door – the S-3000 Foldaway.



OUR SOLUTION

Renlita's team meticulously engineered a custom-designed S-3000 Foldaway vertical lift bifold door tailored specifically for ASU. The true bifold door boasts several key features to meet the unique requirements of the project. Covered panel trusses were incorporated for a sleek and clean aesthetic, providing an unobstructed and impressive view when the door is in use. The heavy-duty inertia safety brakes, screw-captive glass retainers, and custom low-e glass were integrated to ensure safety, durability, and optimal energy efficiency. One of the standout features of the S-3000 Foldaway is its retainer captive weather seals, effectively maintaining a controlled indoor environment by keeping cool air inside. The nested truss design and counterweight balance were engineered to maximize the opening space, minimizing the footprint of the door when fully opened. This design choice sets the S-3000 Foldaway apart from industrial hydraulic bifold doors, hangar doors, cable doors, or strap doors, providing ASU with an unparalleled combination of functionality and aesthetic appeal.

The installation of Renlita's S-3000 Foldaway bifold door has transformed the ASU Great Hall into a truly awe-inspiring space. The door's impressive engineering and customization have allowed the hall to seamlessly connect with the plaza, creating an expansive venue for special events. The ASU Great Hall now lives up to its name, offering a versatile and visually striking environment for a wide range of activities.



BENEFITS

1. Space Efficiency

The S-3000 Foldaway door's counterweight balance and nested truss design allow the massive door to open fully without compromising space efficiency. This feature is especially crucial in maintaining the functionality of the hall during events while providing an unobstructed view when the door is open.

2. Customized Design

Renlita's collaboration with ASU resulted in a custom-designed door that seamlessly integrates into the architecture of the Great Hall. The covered panel trusses and other design elements enhance the appearance of the door, making it look clean and impressive. This, in turn, improves the overall look of the space.

3. Energy Efficiency and Sun Protection

The inclusion of custom low-e glass and retainer captive weather seals ensures that the ASU Great Hall remains energy-efficient. The door effectively keeps the Arizona sun at bay, contributing to a comfortable environment within the hall.

AT A GLANCE

CHALLENGES

- Optimizing Space
- Functionality

BENEFITS

- Space Efficiency
- Customized Design
- Energy Efficiency and Sun Protection

