



PROJECT PROFILE

HARLEY DAVIDSON



PROJECT DESCRIPTION

Scottsdale, Arizona is home to the largest Harley Davidson dealership in the country. The two-story complex has a basement that is approximately 140,000 sq.ft., a showroom for new and pre-owned motorcycles, an apparel section, a repair shop, and a tattoo parlor. The all-in-one complex needed a roofing system that was guaranteed to provide high-quality protection and last for years.

The general contractor had installed spray foam roofing systems on previous projects and knew that Harley Davidson's building needed a spray foam roofing system. The building specified an R28 insulation value, and Arizona Foam & Spray had the perfect cost-effective solution using a hybrid system of poly-iso boards and spray foam insulation.

STRUCTURE FEATURES



Spray Foam Roofing System



New Construction: Commercial Dealership



59,800 sq.ft.



QUIK-SHIELD 1000 Roof Primer, QUIK-SHIELD 125 Roof Spray Foam, and QUIK-SHIELD 1929F Acrylic Coating



Scottsdale, AZ



BUILDING OWNER

Bob Parson

INSTALLER

Arizona Foam & Spray



PRODUCT INSTALLED

AFS first installed 3.2 inch thick poly-iso boards, followed by QUIK-SHIELD 1000, a neoprene based primer. To increase R-value and create a water and air sealant, 1.5 inches of QS125 roofing spray foam was sprayed and coated with QS1929F. The coating has high solar reflectivity, and protects the foam from weathering and UV light. This system meets the requirements of a UL Class A roof.

APPLICATION CHALLENGES

The unique shape of this building was the most challenging aspect of the project. The dealership building is shaped like a "J". The metal B-deck was installed around the curve in a manner that the flutes radiate like the spokes of a wheel from the small bend of the "J". AFS had to cut the poly-iso boards to fit the curved edges of the roof as well as the solar tubes and HVAC units. Spray foam applied on top of the poly-iso boards topped with an acrylic coating creates a seamless, durable, waterproof system.

SPRAY FOAM BENEFITS

The combination of applying poly-iso boards and spray foam amounted to significant time and cost savings. In addition to the energy benefits of the poly-iso board combined with the spray foam coating, the GC saved overall 27% on the project with AFS's solution. Spray foam roofing systems have the lowest life cycle cost of any roofing system.