

WestWorld Equestrian Center



LOCATION

Scottsdale, AZ

SIZE

310,000 sf

ROOF SYSTEM

Nucor CFR™ Standing Seam

WALL SYSTEM

Nucor Classic Wall™, PVDF finish

The WestWorld of Scottsdale Tony Nelssen Equestrian Center is among the industry's most elite equestrian venues, drawing some of the nation's most prestigious equestrian events, trade shows, and auto shows.

Nucor Buildings Systems supplied steel for the recently completed two-phase project totaling of over 310,000 sq. ft. The 5,000 seat Tony Nelssen Equestrian Center was already one of the largest in the west and considered an important example of a venue that while multi-purpose, is specifically designed with equestrian competitors and audiences in mind. In turn, the renovation included additions that would elevate the profile of the venue and make it a viable entity for years to come.

The existing open-air Equidome was fully enclosed and conditioned, in order to ensure the space is usable during the summer months when temperatures can climb to more than 120 degrees. The structures have an R-30 roof and R-19 wall insulation and are climate controlled for year-round use. With a dual climate control/natural ventilation system, the venue can circulate 100% fresh air to maximize air quality or mixed air



depending on the type of event being held. In the winter months when the weather is mild, the renovations allow for the space to be opened up and naturally ventilated.

The North Hall was phase II of the expansion and included remodeling of the existing WestWorld facility. The expansion was comprised of a 285-foot clearspan by 416-foot long structure with a 39-foot, 6-inch eave height. More than 300,000 square feet of standing seam roof panels were used on the Equidome and North Hall area combined.

A total of six, 280-foot steel double roof trusses were used on the North Hall addition, each truss weighing approximately 190,000 pounds. Completion of the steel roof trusses made the structure one of the largest prefabricated metal buildings in the western United States, and the second largest clear span in Nucor Building Systems history at the time it was completed.

The facility was recently recognized as the recipient of two prominent awards: Arizona Commercial Real Estate Development (RED) award for economic development and the Arizona Chapter of the American Public Works Association presented the center with the Public Works Project of the Year in the \$25 to \$75 million structure category.

