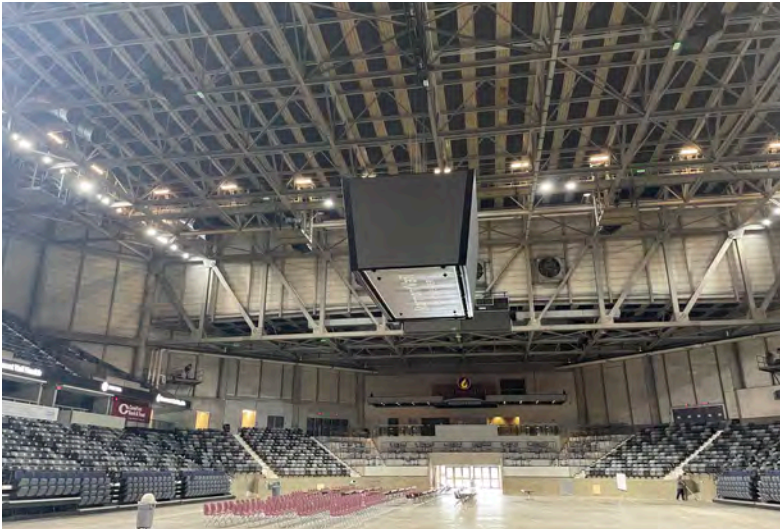


PROJECT PROFILE

Stormont Vail Events Center

Designed by Avant Acoustics
 Installed by Electronic Contracting Company



The Landon Arena at Stormont Vail Events Center has been the place to see basketball and hockey games in Topeka since it was constructed in the 1980s. The 7,000 seat multipurpose arena also hosts large events and live music concerts. Avant Acoustics chose Fulcrum Acoustic loudspeakers to upgrade the sound system during the latest renovation.

Challenges

- Reflective surfaces within the space can interfere with speech intelligibility.
- A distributed system was required due to aesthetics and weight concerns from the installation of a new video board.

Solution

A distributed system was specified to avoid interferences caused by the room reflections. "We considered a system of distributed line arrays, but that would have been cost prohibitive, as would adding acoustical treatment," says designer John Hodgson. "We knew that Fulcrum's FH series would provide the level of audio quality and clarity that was required even in the absence of additional acoustical treatment for the room. We listened to a demo of the new FH loudspeakers and knew they were the best point source option for the project."

The new video board installation prevented the loudspeakers from being placed in the center for aesthetic and weight reasons. To work around this, Avant Acoustic designed the FH15s in arrays of three around the arena to cover the stands and to fire back at the arena floor. "Often when we design point source arrays, we struggle to get them in an acoustically appropriate arrangement due to interference," says Hodgson. "There is usually interference that has to be dealt with. The FH arrays very well due to its pattern control and coaxial design. The intelligibility of the new system is great for such a reverberant space."

Hodgson chose Fulcrum's CX15 Compact Coaxial Loudspeakers for upper balcony coverage. "The broad pattern of the CX1526 was an ideal fill for the balcony spaces at the ends of the arena," says Hodgson. "They were a perfect choice since these produce the same high fidelity as the FH but don't require the long throw."

Project Details

Location

Topeka, Kansas

Product Category

Sports Stadiums and Arenas

Project Type

7,000 seat capacity arena

Fulcrum Products

(18) FH1596 Full Range Coaxial Horn 90° x 60°

(18) CX1526 15" Compact Coaxial Loudspeaker 120° x 60°

Supporting Products

QSC CXD-Q Series DSP Amplifiers

