

Purdue Football Performance Complex

Designed by Ben Boeshans of Idibri
Installed by ESCO Communications



Purdue University's Football Performance Complex was created to inspire and energize players and recruits while centralizing all football program operations into a single building. The heart of the facility is a 20,900-square foot weight room designed as a flexible training space to cater to the needs of the team and its individual members. Tasked with designing a high-performance sound system for the performance complex, Idibri consultant Ben Boeshans specified Fulcrum Acoustic loudspeakers for its expansive weight room and locker rooms, as well as for meeting rooms on the facility's second and third floors.

Challenges

The weight room required a powerful wide beamwidth sound system that could integrate with the center-hung video display, and the locker room needed loudspeakers with high output, low frequency impact and solid musicality.

Solution

"Idibri used Fulcrum for the locker room at Baylor University's McLane Stadium and Purdue's facilities team wanted something similarly cool for their football performance complex," explains Boeshans. "The weight room's system consists of four, five-speaker arrays of Fulcrum FL283 subcardioid modules along with two US221 dual 21-inch subwoofers, all rigged to a 'chandelier-of-sound' with video arrays. Each FL283 module is configured for full-range passive operation at 16 ohms, allowing up to eight units to be driven from a single amp channel. Being able to power all those speakers with fewer amps was an added bonus that reduced overall system cost."

The performance complex's 11,600-square foot locker room was also outfitted with nightclub-worthy sound to help fire up the NCAA Big Ten Conference Purdue Boilermakers football team. "Eight Fulcrum Prophile S dual 8-inch coaxial speakers and six Sub118 18-inch subwoofers are installed in cavities over lockers on two opposing locker room walls," relates Boeshans. "This system was all about getting loud and Fulcrum got the job done."

Idibri was brought to the project by Populous architects who designed the cutting-edge collegiate training and recruiting facility. The Football Performance Complex sound system was installed by ESCO Communications with custom rigging supplied by Polar Focus.

Project Details

Location

West Lafayette, Indiana

Category

Sports (performance complex)

Project Type

20,900 sq. ft. weight room and 11,600 sq. ft. locker room

Fulcrum Products

Weight Room:

(20) FL283 Dual 8 inch Subcardioid Line Array Module

(2) US221 Dual 21 inch Direct-Radiating Subwoofers

Locker Room:

(8) S Dual 8 inch Coaxial Loudspeakers, 100° x 100°

(6) Sub118 18 inch Direct-Radiating Subwoofers

Supporting Products

Powersoft Amplifiers

QSC Q-SYS DSP

