



# STAGE COVER READY TO ROCK IN TIME FOR SPRING CONCERT SERIES

<b>TITLE</b>	Columbus Commons Bicentennial Pavilion
<b>DESCRIPTION</b>	Stage covering for concerts
<b>LOCATION</b>	Columbus, Ohio, USA
<b>COMPLETED IN</b>	2012
<b>FABRIC AREA</b>	8,000ft <sup>2</sup>
<b>FABRIC TYPE</b>	PTFE – Sheerfill II
<b>ARCHITECT/CLIENT</b>	FTL Studio & Moody Nolan Architects / City of Columbus

## COLUMBUS COMMONS BICENTENNIAL PAVILION COLUMBUS, OHIO USA

### The challenge – complex design, short timeframe, difficult site, tight access

Located on the site of an abandoned and demolished shopping mall, the Columbus Commons Bicentennial Pavilion project presented Structurflex with multiple challenges.

First challenge was a tight delivery schedule that counted down to a spring concert series. Once funding was in place, the project had to progress from contract bidding to completion in just six months. This was a big task, considering the amount of site preparation, foundation work and sub-trade activity required.

The next challenge was detailing and fabrication of three complex tri-chord compound curved trusses, which would be point-supported by slender masts. Third challenge was the site's unusual location, atop a large underground parking garage. Shoring was required in four levels of the garage to prevent structural damage and cracking, and some work could only be conducted during scheduled closings of the garage. The final challenge was limited access – a crane could only be staged from one side.

### The solution – a finely-tuned installation plan that left nothing to chance

Structurflex was contracted to develop fabrication drawings for the steel, membrane and cables, manufacture required components, and then implement the highly time-sensitive installation plan.

We followed the fully-engineered design that was developed by FTL Studio, however we conducted our own detailed 3D modelling to properly establish correct geometries of all elements, particularly the polycarbonate skylight that was a key design feature of the stage cover. Coordinating the interface details for steel, membrane and polycarbonate was critical.

Our highly-coordinated installation plan was implemented without any major issues and the venue's owner, architect and contractors have all praised our contribution to the new venue's success. The spring concert series was a huge hit with the public and the Columbus Commons Bicentennial Pavilion has a full programme for the months ahead.

IAA AWARD OF EXCELLENCE FOR TENSILE  
STRUCTURES BETWEEN 600-2300SQM - 2012.

