



ICONIC ROOF FOR KANSAS CITY'S PREMIER ENTERTAINMENT DESTINATION

TITLE	KC Live! Entertainment District
DESCRIPTION	Roof canopy for entertainment centre
LOCATION	Kansas City, Missouri, USA
COMPLETED IN	2007
FABRIC AREA	30,000ft ²
FABRIC TYPE	ETFE – Single layer
ARCHITECT/CLIENT	360 Architects / Cordish Group

KC LIVE! ENTERTAINMENT DISTRICT KANSAS CITY, MISSOURI USA

The challenge – create a vast, visually-pleasing membrane roof for a limited cost

KC Live! is the Midwest's premier entertainment destination - an entire city block with two levels of world-class restaurants, taverns and night spots, including a full-concert stage where leading musicians and bands perform weekly during the summer and for special events throughout the year. KC Live! is the jewel in the crown of the Kansas City Power & Light District.

As well as the obvious challenges of building a roof over such a large area, the project needed to keep budgets strictly under control and ensure that the resulting structures were compatible with Kansas City's environmental sustainability policies.

The solution – North America's first single-layer ETFE membrane roof

As the first single-layer ETFE project ever executed in North America, this project was a major milestone for Structurflex. We designed, developed and detailed the entire system so that it could be installed with no requirement for on-site fabrication.

The primary function of the structure was to provide protection from the elements as well as low-level shading. We achieved this with an ETFE Film over a steel frame. At night a high tech LED light system plays off the silver frit that was factory-applied to the underside of the membrane. The frit also improves UV screening and reduced solar gain.

With a steel weight saving of over 35% when compared to a conventional metal roof, the cost savings were considerable. The total system costs for this single layer ETFE structure were approximately 50% compared to a glass roof. The structure also had a lighter impact on the environment. With reduced steel consumption and a recyclable material, Structurflex's solution was highly sustainable.

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