

FABRIC ARCHITECTURE

DESIGN FOR STRUCTURE AND SHADE

IFAI PUBLICATION



2016 Resource Guide

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10

PROJECT STUDIES

FUNCTIONAL TENSIONED SHADE SCULPTURE

Early 2006 voters in the U.S. Southwest voting up the next whatever engineering stage seemed appropriate. Established in 1972, Fullerton, Calif., is one of those aggressive hyper-growth, and like many American towns that produce the automobile, the transformation of its landscape by the mid-century interstate freeway system left its mark on the town too.

Fullerton, tucked into a far southeast corner of Orange, used to be the very people got in and out of Orange from Los Angeles via Van Buren Street. For decades, Van Buren was Fullerton's main through street, made into a four-lane highway in the 1960s to handle the steadily growing traffic. Before Interstate 5 was built about a mile north. After the Interstate, the diminished traffic flow opened an opportunity that has led to a four-year city redevelopment project, the Downtown Fullerton Redevelopment corridor, that has transformed the street into a mile-long pedestrian-friendly destination recently nicknamed the "Paseo de la Luz" (path of light).

Urban renewal efforts include aggressive architectural improvements to the city's streetscape, sidewalks, landscaping, water features, lighting and gathering spaces. At the heart of the project, midway between 95th and 97th avenues, is an open green space and gathering area where a dramatic water feature and shade element are incorporated into the program.

Designed by International Systems Structures (ISS), Scottsdale, Ariz., this tensioned shade structure of gently arching beams spanning over the water feature, creates a focal point and memorable landmark for the community. A complex assembly of compound arching beams and intersecting tensioned fabric panels work together in a dynamically lyrical composition. Eight rectangular columns, equally spaced around in a circle that surrounds the water pool, are casted on slightly-pivoting Ø6000 steel arches and top like spires. Eight double-arching beams in pairs of two, each spanning more than 70 feet, create in the same effort to create a square void just above the pool. Tensioned fit between each pair of a shape somewhat like a M four triangular fabric panels on the center point beam.



of steel was modeled to develop their specific shapes," says Josh Schwartz, owner of ISS. "Due to the size of some of these best steel beams, we had to have them rolled out of state and shipped in. The result is a structure that helps to define Fullerton, but creates a modern and beautiful destination.

The structure faced several complex opening where they attach to the bottom point of a flying mast that projects upward to create a high point enclosed with a fabric cone. This center cone rises to a height of 28 feet and with the dramatic LED lighting system on the structure makes it a beacon for the community gathering place.



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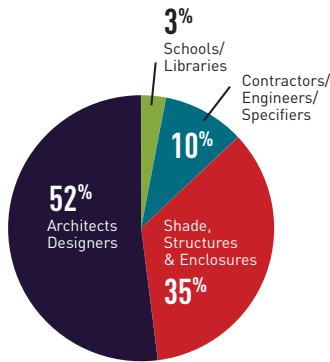
Fabric Architecture

RESOURCE GUIDE

featuring Shade and Weather Protection

The *Fabric Architecture* Resource Guide is the complete resource for architects who build with fabric, featuring information on fabrics, products and supplies as well as case studies of fabric structure projects. While continuing to serve its current architectural market, *Fabric Architecture* will broaden its reach with an expanded focus on shade and weather protection applications from a variety of industries.

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