

# Temcor Completes Construction of Ellipsoid-Shaped Dome Frame

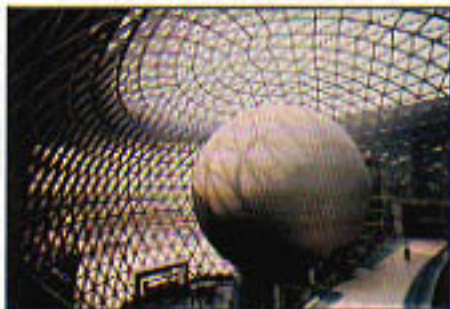
The erection of an ellipsoid-shaped Temcor Aluminum Dome frame at Shanghai ScienceLand was recently completed. The \$200 million science and technology museum is scheduled to open in October 2001.

The 67m-long x 50m-wide x 41m-high ellipsoidal frame, covered with glass panels, houses the museum's orientation lobby. "The design of the dome, combined with the inherent strength of the aluminum frame allows for a large clear-span," said Bob Dagenais, marketing manager of architectural products for Temcor. "Our dome encloses the 75,000 sq. ft. (7,000 sq. m.) lobby without intruding supports."

Unlike most larger Temcor Aluminum Domes which consist of hundreds of equally sized panels, gussets and struts, the ScienceLand dome called for more than 1,200 groups of different sized struts, and over 1,000 different sizes of glass

panels. "Through engineering, we were able to simplify the design so that only 422 strut groups were required," said Thomas Mixer, director of production engineering for Temcor. "That drastic reduction in the number of groups saved valuable manufacturing time without affecting the integrity of the dome."

The frame was manufactured at Temcor's Southern California facility and shipped ready-to-assemble.



The museum complex was designed by the architectural firm of RTKL, Los Angeles, CA.