



PROJECT PROFILE:
GOVERNMENT SECTOR



Analysis Helps US Embassy in China Meet International Standards

Integrity Management

Situation

Beijing lies in an extremely active seismic region. After winning the contract to build a new United States Embassy in that city, Zachry Construction Joint Venture brought in ABS Consulting to conduct non-structural seismic analysis and design for the compound.

Approach

Lateral restraint and anchorage design for non-structural elements had to take into account high levels of ground motion in the area and significant differential movement between primary structures. ABS Consulting worked closely with Zachry Construction and the embassy architecture and engineering team to create a design that satisfied building standards and safely withstood seismic forces.

Result

In addition to detailed non-structural seismic analysis, ABS Consulting provided design, drawings and construction support for the installation of seismic restraint and anchorage for the non-structural elements in all buildings throughout the compound. Non-structural elements included all mechanical, electrical, plumbing and architectural components.

Benefits

ABS Consulting performed the analysis and design of the complex so that all elements of the project would satisfy the requirements of the 2003 International Building Code and referenced standards. The work supports efforts to design the complex to withstand earthquake forces and any resulting seismic damage.