

## Assisting with Design

Salt Lake City's new MLS Soccer stadium: was designed with a complex shaped fabric roof over the spectator seating areas. This roof required detailed studies early in the design phase to ensure minimal impacts from wind and snow on the spectators and to refine the structural design.

## Services Provided

### Wind Engineering

- Preliminary structural, cladding, and snow load design reviews.
- Wind induced structural responses for roof canopies.
- Cladding wind loads for roof canopies.

### Snow Sand Rain

- Roof snow loads.
- Mitigation measures for falling ice and snow.

## Benefits

### Effects on design:

A unique fabric roof canopy with undulating top was analyzed for wind and snow loads to confirm that the proposed shape would be acceptable to sustain the challenges of the local climatic conditions. Based on RWDI findings, the structural design of the roof was advanced, which resulted in reduced material costs.

### Reducing risk:

Through an experienced-based design consultation, helped to develop innovative safety measures to carry excess snow away from pedestrian walking areas and prevent injury due to failing ice and snow.

