Ice Rink Planning and Design Services

Our experience helps you avoid surprises and unplanned expenses
Stantec at a glance

Stantec unites more than 15,000 employees working in over 250 locations. We collaborate across disciplines and industries to bring buildings, energy and resource, and infrastructure projects to life. Stantec is currently ranked number 22 on the *Engineering News Record*’s list of Top 500 Design Firms.

When people think of ice skating, many think of large sheets of ice in an indoor arena. Others think of windswept frozen lakes and rivers with bumpy, snow covered ice. These are the types of places where most of us learned to skate. Stantec has the expertise, enthusiasm, and insight to work with you to bring your vision of skating to reality—indoor or outdoor, for organized sports or for recreation.
Ice Qualifications

Stantec has dedicated talent in all areas of ice rink facilities— from architecture to engineering. Whether serving as a subconsultant to fill a specialized need, or leading a multi-discipline design project, we have the ability to draw from our seasoned team of experts to address your specific project goals. Our work includes the following:

- Master plans
- Feasibility studies
- Site analysis
- Facility evaluation studies
- Energy studies
- New facility design
- Renovation and repair
- Custom refrigeration and ice rink system design
- Construction administration and inspection

Since 1974, Stantec has completed over 200 ice projects in 40 states and provinces throughout North America. Our range of projects includes everything from small mountain resort rinks, to community based arenas, to large outdoor/indoor skating venues. Below is a list of project examples outlining Stantec’s range of experience:

- Ice ribbons (e.g. Canal Park, Washington DC)
- Community ice arenas (e.g. Ridgeland Common, Oak Park, IL)
- Renovations and expansions (e.g. Mennen Arena, Morristown, NJ)
- Outdoor ice rinks (e.g. Washington Harbour, Georgetown, DC)
- Resort rinks (e.g. Northstar at Tahoe, Truckee, CA)
- Bandy/speed skating competition rinks (e.g. John Rose OVAL, Roseville, MN)

Stantec has significant expertise designing new facilities and renovating existing ones, focusing on finding a feasible operationally efficient solution for the owner. Our team addresses the following engineering and operational considerations throughout the design process:

- Cost-sensitive design
- Longevity and durability
- Simple operations and ease of maintenance
- Innovative multi-use design
- Optimized sub-soil conditions
- Energy saving technology
- Sustainable refrigerants
- Waste heat reuse

Unbiased Design

Since we are design consultants, not vendors or equipment suppliers, our design focuses on a quality ice system unbiased toward any one supplier’s system. Our designs are developed to encourage competitive bidding from multiple, qualified bidders. The detailed plans and specifications produced by our team result in the following:

- Consistent response from bidders
- Minimal change orders
- Project construction that mirrors design intent

200+ ice projects in 40 states and provinces throughout North America
Stantec has the expertise, enthusiasm, and insight to bring your vision of skating to reality

Industry Leader

At Stantec, we understand the importance of staying engaged with the ice community. We are a corporate member of many key industry associations such as the National Park and Recreation Association and the American Society of Heating, Refrigerating and Air Conditioning Engineers. We frequently attend and speak at many industry events — come see us! This involvement keeps us current with issues facing facility operators and up to date on state of the art design concepts.

Innovation is at the forefront of everything we do at Stantec and the design of creative ice projects is no exception. What sets us apart?

- With looming deadlines imposed by the Montreal Protocol, Stantec can outline available refrigerant renovation and replacement options that will guide you to the most appropriate solution for your application and budget.
- Our team was the first to innovate and promote the use of fusion welded polyethylene rink floor piping systems to the US, now the industry standard.
- Stantec introduced multi-use outdoor refrigerated ice trails to the US, which is becoming a popular new venue.
- Stantec's water and ice designers work together to integrate water features and outdoor ice to provide year-around activity.

For more information and to discuss our ice rink planning and design services, contact:

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