



Standard Guide for Skating and Ice Hockey Playing Facilities¹

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INTRODUCTION

Ice skating and ice hockey have evolved as a result of a convergence of ideas from Canada, the United States, and Europe. As a result of differing influences, there are a wide variety of skating and ice hockey-playing facilities currently in use.

Attention is called to the dimensions of the ice surface. The majority of facilities in Europe comply with those of the International Olympic Committee, 200 ft (60 m) in length and 100 ft (30 m) in width, while in North America, the majority of facilities are 200 ft (60 m) in length and 85 ft (26 m) in width, with both having as near as possible to 28 ft (8.53 m) radius corners. However, variations may exist.

In the interest of future standardization, it is recommended that ice surface dimensions of all new facilities are those found in this guide.

It is recognized that skating and ice hockey-playing facilities are also used for figure skating, speed skating, pleasure skating, and for the sports of broomball, curling, sledge hockey, and ringette. Organizers of these sports may adopt the present guide as written, or modify the guide in accordance with their special interests.

1. Scope

1.1 The intent of this guide is to provide consistent considerations for the design, construction, and retrofitting of ice skating and ice hockey playing facilities. It is intended to establish guidelines that will provide a level of functionality for recreational skating, conformity for the purpose of competition and reduce potential hazards to skaters, players, game officials, spectators, and employees.

1.2 This guide should be taken into consideration by owners/operators, architects, planners, engineers, equipment manufacturers, construction companies, construction contractors, and appropriate inspectors who may be involved in the design and construction of new ice skating/hockey playing facilities. Whenever possible, environmental sustainability and energy efficiency should be taken into consideration in the planning and design of facilities. This guide applies only to the construction and development of new ice skating/hockey playing facilities. Portions, however, may be useful for renovation projects, such as, replacing worn out dasherboards.

1.3 Every arena is unique in material, architecture, and engineering, and therefore will require technical review. This

guide is not meant to provide an architectural prototype, but is a guide to set forth measures for the development of safer ice arena venues.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in SI units are for information only.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

A53/A53M Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

A60 Specification for Chromium-Vanadium Steel Bars for Springs³

A185/A185M Specification for Steel Welded Wire Reinforcement, Plain, for Concrete (Withdrawn 2013)⁴

¹ This guide is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.66 on Sports Facilities.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Withdrawn. The last approved version of this historical standard is referenced on www.astm.org.

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