



## INDOOR ARENA & SPECIALTY SYSTEMS

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## **INTRODUCTION**

Welcome to the Canadian Arena Products Ltd. Indoor Arena & Specialty Systems Manual. This manual is designed to make your task much easier when selecting the system and various products you need to build or renovate your indoor hockey rink.

By providing you with a structured package of basic information, you and your group will be able to determine your needs for the end user groups well before the project costing stage.

Our company is committed to the highest quality of standards, and we have aligned ourselves with some of the very best suppliers of products and services in the industry. We believe in exceeding your expectations in every respect, and will “go the extra mile” to bring your project to completion on-time and under budget.

If there are any questions you would like us to answer please contact our team toll free across North America at 1-888-200-2644. Alternatively, you may contact us through our website at [www.canadianarenaproducts.com](http://www.canadianarenaproducts.com) or by e-mail at [caps@canadianarenaproducts.com](mailto:caps@canadianarenaproducts.com).

## **INDOOR HOCKEY SYSTEMS**

CAP Series 3 – The standard by which all other rink board systems are measured. The best all-round value rink package on the market.

CAP Series 4 – An aluminum derivative of the series 3. Built to be lighter weight but still handle all the punishment players can dish out.

CAP Series 5 – The Cadillac of dasher board systems. Either steel or aluminum but with a seamless glass system for the best sightlines for players and spectators.

## **GLAZING OPTIONS**

One of the harder decisions to make when planning your rink is deciding on what type of glazing material to use. The two most commonly used glazing types are plexi-glass and tempered glass.

Plexi-glass has its own characteristics. Most notably is its low cost and light weight. It can also be cut on-site to virtually any shape using common power tools. Disadvantages of plexi-glass is that it becomes easily scratched and becomes scoured and cloudy in a short period of time.

Tempered glass main notable characteristics are its dense weight and cost. It cannot be cut once it is tempered. Safe work procedures for installation must be paid attention to. Great advantages is that its great resistance to scratching and scouring.

Glazing height standards for height of glazing in an arena is generally 6' (72") on the sides and 8' (96") on the ends and radii. Lower glazing is common in most arenas across Canada as long as the height is supplemented by standard arena netting.

Whatever product you decide to use, CAP can supply you with a complete package including posts, gasket, and glazing installed on your new system or refurbished system.

## GLAZING SUPPORT SYSTEMS

CAP's aluminum supports are manufactured from 6063 alloy, and then heat treated and hard anodized to help keep them from corroding in high humidity environment of arenas. Critical design elements include radiused corners, integrated locknut channels and cast in gasket grooves.

Four components make up the CAP aluminum glazing system. The main 'H' or "hollow post," with clamp bar, the 'C' or "90 degree" corner post, and the 'F' or "end" posts used to retain the glass. The clamp bar is retained by a unique captive nut in the centre of the 'H' post. The simplicity and quickness of this system is unsurpassed by any other.



Power Lifter for Glass Installation



Clare Drake Arena (Edmonton, AB)

## GETTING STARTED

The first step in planning for your new or rink rebuild is to decide its primary purpose. Hockey might be obvious, particularly if the community has its own Junior team or semi-pro team.

The facility might be hosting a variety of events from concerts, to rodeos, trade shows, lacrosse, or other activities. With these activities demountable/removable sections might be required, or even access gates at certain locations.

Once these items are addressed we can help design your rink. The basic parameters established what you need in your system. This system requirement checklist will help us assess a value to your rink:

Overall Length_____	Overall Width_____
Corner Radius_____	Board Height_____
Kick Strip Color_____	Sill Color_____
Glazing Type: Plexi-glass/Tempered Glass_____	
Glazing Height: Ends_____	Sides:_____
Player Box: Depth_____	Width_____
Penalty Box: Depth_____	Width_____
Timekeeper Box: Depth_____	Width_____
Gates: _____ Straight Man Gates @ _____ Width	
Gates: _____ Radius Man Gates @ _____ Width	
Gates: _____ Straight Machine Gates @ _____ Width	
Gates: _____ Radius Machine Gates @ _____ Width	

Nominally a standard NHL rink is set at 200' long x 85' wide with a 28' radius. A standard Olympic rink is set at 200' long x 100' wide with a 28' radius.

## SPECTATOR NETTING

Safety netting had become an integral part in hockey arenas today. It has a variety of applications. It is used to protect the spectators, players, equipment, and the building itself. By installing safety netting municipalities have noticed a significant reduction in maintenance costs on their building and equipment and additionally protecting the users of their facility.

Safety netting for hockey arenas has two-common styles. Most popular is the monofilament netting that is a clear-white color and is fire rated. The other is a nylon netting composed of No.18 Dupont thread. This netting is more user friendly with maintenance staff and the media likes this better for non-reflective glares for their photography or video cameras.

The netting can also be a permanent fixture or it can be as complicated as a multi-use facility and it needs to be retractable. There are a few ways to achieve the needs of the facility.



Okotoks Centennial Arena (Okotoks, Alberta)

## ALUMINUM LIFT GATE

Our aluminum lift gate is a great alternative to the original double-leaf swing tractor gates.

These gates are a great addition to a arena that is restricted on gate swing clearance. They come in manual or electronic operation. The gate is a state of the art design with better safety features than your average vertical garage door.

This gate features all aluminum vertical track and gate construction [not steel] with safety cut-outs, nylon needle bearing wheel assemblies [not v groove wheels] and two only, one piece counter balance tubes with four safety cables for lifting and counterbalancing.



Back Assembly



Front Assembly