



ADVANCED SPORTING TECHNOLOGY

ICE HOCKEY • INLINE • LEISURE

BOARDS XPERTS



www.ast.at

ProSport	Dynamic
ProSport	Customized
ProSport	Inline
ProFun	white / clear
ProFun	Alpine / flexible



ADVANCED SPORTING TECHNOLOGY





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ADVANCED SPORTING TECHNOLOGY

AST Dasher Boards ... Variety of Solutions

AST is a worldwide operating group of companies with several subsidiaries and associated companies and a success story of more than 30 years in professional and leisure sports. The core ideology of these companies focuses primarily on the quality and continuous development of their businesses and their products. Knowing the market's demands and requirements is the basic prerequisite for sustained success in this niche market - but fulfilling them day after day with great perseverance and passion is the real credo to which AST is committed with its range of products and services to its customers.

REQUIREMENTS

The range of the ice sports disciplines and the resulting specific requirements to be fulfilled by suppliers are meanwhile very diverse and ultimately also the reason why the AST product and service spectrum is based on variety, rule conformity and quality.



Regardless of whether it is an impact-absorbing ice hockey board, an inline hockey board or a mobile ice field border of a temporary mobile ice rink, we are your competent and reliable partner from the very first consultation through to acceptance after installation. In addition, your boards can be supplied as purchase or rental. Each individual step of design, production and installation is clearly defined and is subject to the ISO 9001 quality standard. To merge these very different requirements and needs with technical sophistication and attractive conditions in a high-end product - this is exactly where we see our mission ... for your satisfaction.



AST ProSport Dynamic - Füssen, DE



AST ProSport Customized - Barcelona, ESP



AST ProFun Alpine - Lenzerheide, CH

METHOD

Every single AST dasher board project follows a certain procedure, which in most cases begins with an analysis or a personal consultation directly at the project location. Parallel to the preparation of a tailor-made budget calculation, you can of course also visit reference installations where you can get information directly with our existing customers on site. With this approach we lay the foundation for a trusting and lasting cooperation.

RISK MINIMIZATION

As a customer of AST, you will quickly realize how important it is to be able to rely on many years of know-how and solution competence. This, in turn, gives you the necessary degree of safety to make the right decision. Through ongoing information exchange with the IIHF and the regional ice sport federations, we understand and know their requirements. Not least for this reason, AST has been a reliable outfitter in the World Cups and at World Championships for decades.

MOUNTING POSSIBILITIES

The quality of an ice hockey board is not only defined by the materials used, their quality classes and finishing processes, but also by the different installation options. As a result, AST ice hockey boards are individually adapted to the local conditions.



Anchor in concrete



Concrete edge beams



Ice dam



Base plates for freezing

CRASH TEST DUMMY PROCEDURE

In 2017, the SIHF (Swiss Ice Hockey Federation) commissioned the bfu (Beratungsstelle für Unfallverhütung) with the study „impact-absorbing board systems in ice hockey“. In this project, various studied indicators clearly state that dasher boards of this type can reduce the risk of injury by around 30%.



In this experimental dummy and pendulum test, the biomechanical load was tested. Thus scientifically founded facts regarding energy absorption, stiffness, effective mass and the movement behaviour of the new ice hockey boards after a simulated impact of an ice hockey player were created.

The AST ProSport Dynamic scored top marks in this representative comparison of well-known ice hockey board manufacturers and offers the highest level of safety compared to its competitors.





ADVANCED SPORTING TECHNOLOGY

AST ProSport **Dynamic**

The **NEW** shock-absorbing IIHF Ice Hockey Boards

PRODUCT PORTRAIT

The newly designed dasher board system, the **AST ProSport Dynamic**, naturally meets the international requirements - specified in the IIHF Rule Book 2018-2022. The more demanding safety requirements such as those of the DEL, SIHF, EBEL, SHL, FIHA, KHL and many more were also taken into account in the design.

No less important in their origin and construction is our goal, which is to actively participate in reducing the existing risk of injury in professional sports.

Thanks to the different mounting variants, the AST ProSport Dynamic is also suitable for use as a high-end rental board at major events, the so-called stadium events (e.g. Winter classics).

With this solution, we combine compliance with regulations, TOP quality and safety for the players on the ice ... also for temporary/mobile use in multifunctional halls.



Eisstadion Bundesleistungszentrum Füssen
(equipped as sledge hockey version)

SPECIAL FEATURES

- best ranking in the Swiss bfu board test 2017/18
- robust 3-fold adjustable door and gate hinges
- freely selectable radii (7.0 to 8.5m)
- Plug-in system for transparent and/or aluminium posts
- less tilting of the 2.4m high glazing vs. H-profiles
- Protective glass quick-change system
- Protective glass type selection (material & thickness)
- Variable mounting options (shown on page 5)
- also available as sledge hockey version with transparent cladding
- upon request incl. attractive LED lighting

BUILT-IN MATERIALS

- hot-dip galvanised steel profile
- stainless steel rivets & screws for cladding and top sill
- UV-resistant HDPE cladding ice side
- HDPE kick strip (for PC advertising protection)
- HDPE kick strip (without PC advertising protection)
- Transparent advertising protection cladding
- white PE cladding (audience side)

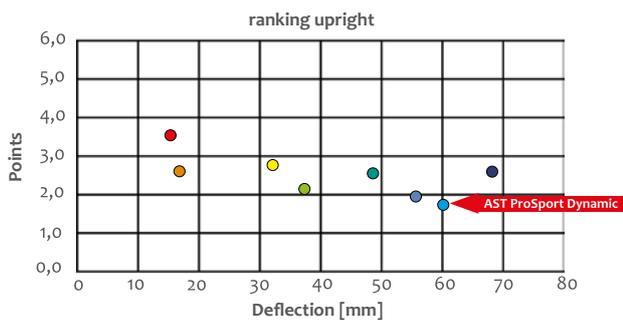
Spectator protection glazing

- Acrylic in accordance with the standards
- Polycarbonate in accordance with the standards

TECHNICAL CHARACTERISTICS

biomechan. Load AST ProSport: **1,8 Points ***
 Deflection Board (at height 1m): **61,1 mm**
 Dummy weight: 78 kg
 Impact velocity: 4,76 m/s

*) the lower the score, the better



final ranking DUMMY CRASH TEST





ADVANCED SPORTING TECHNOLOGY

AST ProSport Customized

The uncompromising CLUBSPORT dasher board

PRODUCT PORTRAIT

For all those Ice Hockey clubs and ice rink operators who have focused their attention exclusively on quality, individuality and equipment flexibility, the **AST ProSport Customized** is sure to find the optimal dasher board system.

Especially for renovation projects where other radii may have to be taken into account or heated jury boxes are required ... for all these and/or comparable individual cases, we provide you with our solution-oriented consulting, planning, construction and assembly expertise

that guarantee the success of your project right from the start.

The AST ProSport Customized is suitable for indoor and outdoor ice rinks due to its flexibility concept. The various mounting possibilities - whether mobile or permanent ice rink installation - offer you sufficient freedom and room for manoeuvre for scenarios that are perhaps still minor at the present time.



Erdgas Schwaben Arena Kaufbeuren

SPECIAL FEATURES

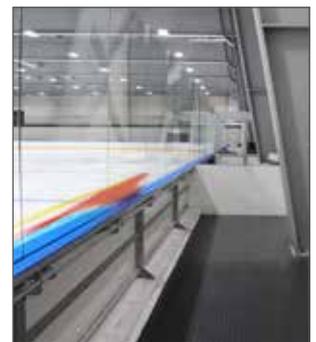
- robust 3-fold adjustable door and gate hinges
- various radii selectable (6.0 - 7.0 to 8,5m)
- less restrictions of view due to postless protective glazing mounted into glass slot
- Protective glass type selection (material & thickness)
- Variable mounting options (ice dam, anchors, concrete edge beams, base plates for freezing)
- also available as sledge hockey version with transparent cladding
- upon request incl. attractive LED lighting in the board elements

BUILT-IN MATERIALS

- hot-dip galvanised steel profile
- Stainless steel rivets & screws for cladding and top sill
- UV-resistant HDPE cladding ice side
- HDPE kick strip (for PC advertising protection)
- Transparent advertising protection cladding
- optional white UV-resistant PE cladding (spectator side)

Spectator protection glasses

- Acrylic 10, 12, 14, 15 mm
- tempered glass 12,15 mm
- Polycarbonate 8, 10, 12 mm





ADVANCED SPORTING TECHNOLOGY

AST ProSport Inline

Inline Hockey Board with Hybrid-Character

PRODUCT PORTRAIT

With a wealth of experience in the product segment of classic „ice hockey boards“ built up over decades, **AST ProSport Inline** provides you with a system solution adapted to your purpose and adopted into roller hockey sport.

This inline board is a very high-quality and robust design with a hot-dip galvanised steel frame, which has the clear advantage over variants in lightweight construction of remaining more dimensionally stable and thus more resilient over many years. The design of the doors and

gates is almost identical to that of ice hockey introduced before.

The AST ProSport Inline is available in heights between 100-120cm, optional advertising protection and various net types made of steel or synthetic.

Due to its construction, this board can be converted into an ice rink perimeter during the winter months and the location can thus be used as a temporary outdoor ice rink.



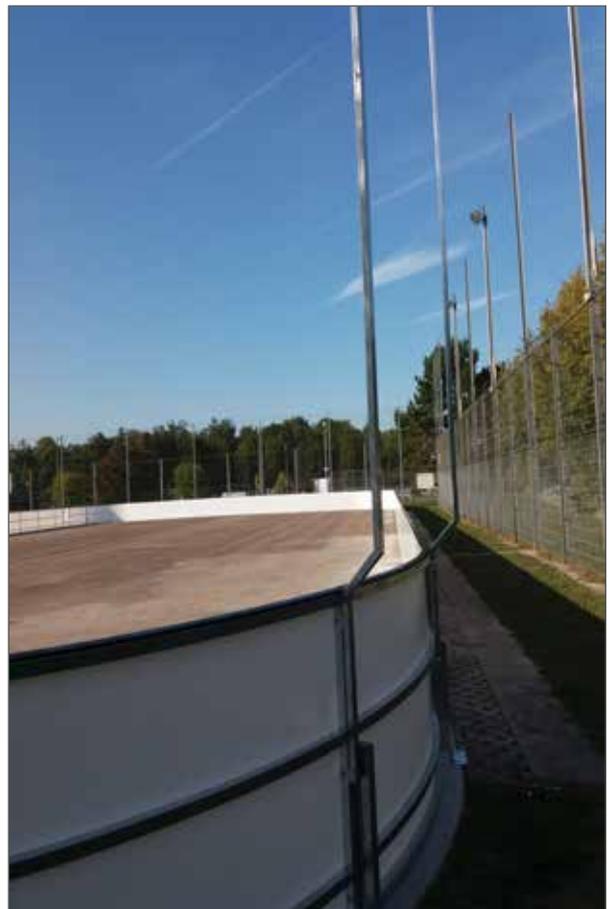
Rollhockey Club Stuttgart-Waldau

SPECIAL FEATURES

- various radii selectable (2.5m - 4.0 - 6.5m)
- Selection of mesh types (steel or plastic mesh)
- Variable fastening options (anchors, concrete edge beams, base plates for freezing)
- robust 3-fold adjustable door and gate hinges
- optionally also with transparent backside cladding obtainable
- suitable as ice rink border (multiple use) of the sports area during the winter months)
- Attractive LED lighting in the perimeter elements as optional eyecatcher

BUILT-IN MATERIALS

- hot-dip galvanised steel profile
- Stainless steel rivets & screws for cladding and top sill
- UV-resistant HDPE cladding
- white UV-resistant backside PE cladding as an option





ADVANCED SPORTING TECHNOLOGY

AST ProFun **white and clear**

White or transparent boards fitting mobile ice rinks

PRODUCT PORTRAIT

The numerous mobile ice rinks are an indispensable part of the urban and/or village landscape. During the cold season and into spring, they provide a pleasant atmosphere and great enthusiasm throughout all social classes worldwide. This is exactly why we provide you with the **AST ProFun white & clear**, a specially designed ice field border.

As with all of our company's available board types, we leave it up to our customers to decide whether they want to buy AST ProFun white & clear or rent it for a certain period of time.

The equipment options for this type of perimeter board are very diverse and meet all the criteria demanded by the market thanks to their high-quality construction.



Frame:	hot-dip galvanised steel construction
Height:	optionally 100 or 120cm
Cladding:	white 8mm PE plates -or transparent 8mm PC plates
Handrail:	black 8mm PE strips
Radii:	optionally 2,5 / 4,0 / 6,0m or without radius in square design
Kick strips:	optionally with or without adjustable kick strip height
Mounting:	optional freezing / cast in anchors

Advantages	- suitable for any ice rink size - high-quality execution - different heights and radii - space-saving storage - fast assembly / disassembly - Doors, gates, radii can be individually be configured and positioned - usable as advertising space - can be used in the summer as an inline hockey board
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AST ProFun **Alpine** and **Alpine flexible** Wooden barriers fitting mobile ice rinks

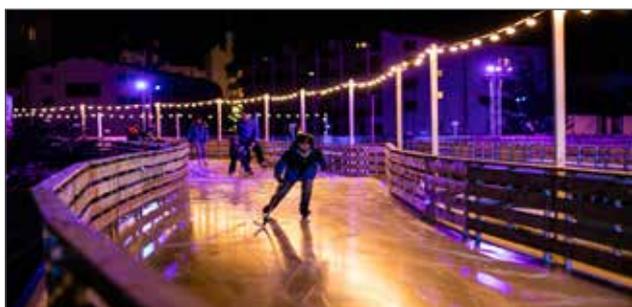
PRODUCT PORTRAIT

As a rustic alternative to the white and transparent designed ice field borders, the AST ProFun Alpine embodies a charming and above all alpine flair due to its open - as well as material accentuated construction. Due to its characteristics and appearance, it blends harmoniously into the atmosphere of a Christmas market with huts or an ice skating rink in a park.



AST ProFun Alpine is increasingly being used mainly as a board for skateways (ice paths). In a very simple way this barrier can be adapted to the any given structure.

The AST ProFun Alpine flexible impresses first and foremost with its sophisticated post system, which offers



you a multitude of additional assembly and track design options. This allows you to choose the type and colour of material (wood, plastic, etc.) with which the board will be installed. The exterior and interior design appearance is absolutely identical.

AST ProFun Alpine

Frame:	hot-dip galvanised steel construction
Height:	optionally 80, 100 or 120cm
Board elements:	0,5 / 1,0 / 2,0m
Planking:	pressure impregnated spruce 20mm
Handrail:	pressure impregnated spruce 28mm
Mounting:	Freezing

AST ProFun Alpine flexible

post:	hot-dip galvanised steel construction with rubber cover
post height:	optionally 100 or 120cm
Planking:	pressure impregnated spruce 28mm colored plastic panels etc.
Handrail:	not applicable
Mounting:	Freezing





ADVANCED SPORTING TECHNOLOGY

AST ACCESSORIES

Optional board and stadium equipment

As a full-service provider, we offer you not only the standard versions of our ice hockey, inline and leisure boards presented here, but also a very extensive range of selected additional equipment. The products and system solutions shown below are just a few of the ways

in which you can customise and configure your hockey arena exactly to your individual and very special needs and requirements.

Board Equipment

- net
- PC advertising protection
- backside cladding
- rink divider
- rubber flooring (rolls)
- rubber flooring (puzzle)
- detergents
- ISU protection system
- short track/speed skating
- special equipment for player-/penalty-/jury boxes



Infotainment

- video wall
- video cube
- goal judge lighting
- synchronized dressing room clocks



Ice Hockey

- Ice Hockey Goals
- flex pegs / steel pins
- goal transport chart
- Hockey lining
- Hockey training tools

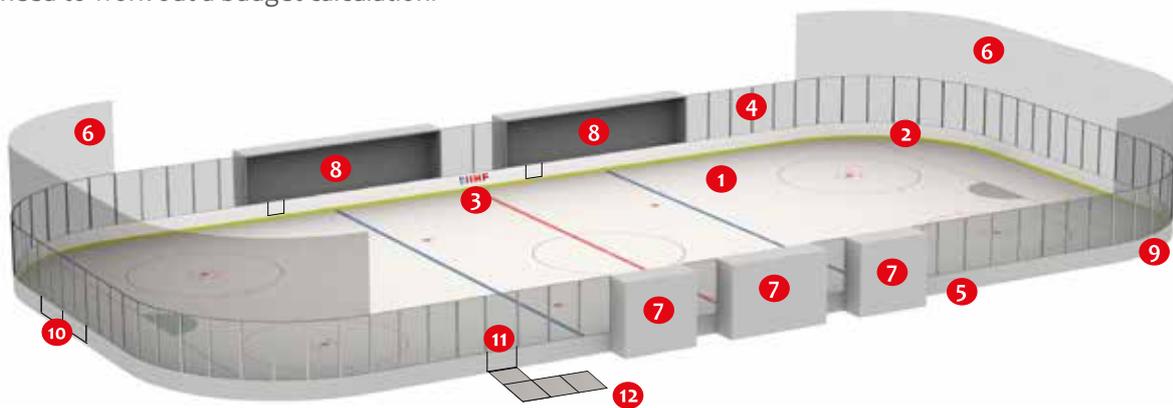
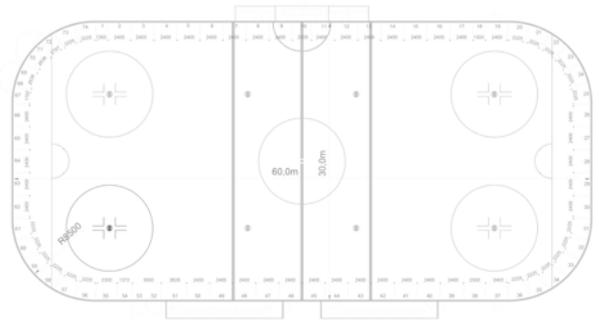


The accessories shown here can be ordered easily and conveniently from our webshop (<https://www.ast-shop.net>).

AST Dasher Boards

Configuration checklist

The following checklist can/should serve as a guideline to help you describe your dashboard project with all the details and requirements that we will subsequently need to work out a budget calculation.



AST ProSport Dynamic	<input type="checkbox"/>	project location:	_____
AST ProSport Customized	<input type="checkbox"/>	title of project:	_____
AST ProSport Inline	<input type="checkbox"/>	project manager:	_____
AST ProFun white	<input type="checkbox"/>	contact details:	_____
AST ProFun clear	<input type="checkbox"/>	realization date:	_____

1 ice rink size	<input type="checkbox"/> 30x60m	<input type="checkbox"/> w/l _____ / _____	
2 radius	<input type="checkbox"/> 8,5m	<input type="checkbox"/> r _____ m	
3 accord. IIHF	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> alternative (series/league) _____
4 spectator protection post	<input type="checkbox"/> not	<input type="checkbox"/> Acryl	<input type="checkbox"/> ESG <input type="checkbox"/> transparent
	<input type="checkbox"/> without	<input type="checkbox"/> Aluminium	<input type="checkbox"/> transparent
5 mounting	<input type="checkbox"/> Ice dam	<input type="checkbox"/> anchor	<input type="checkbox"/> concrete edge beam <input type="checkbox"/> freezing
6 net	<input type="checkbox"/> yes	<input type="checkbox"/> no	height: _____ m <input type="checkbox"/> white <input type="checkbox"/> black
7 penalty/jury boxes	<input type="checkbox"/> yes	<input type="checkbox"/> no	
8 player boxes	<input type="checkbox"/> yes	<input type="checkbox"/> no	coaches catwalk: <input type="checkbox"/> yes <input type="checkbox"/> no
			cupholder: <input type="checkbox"/> yes <input type="checkbox"/> no
9 backside cladding	<input type="checkbox"/> yes <input type="checkbox"/> no		
10 service gate	entry where? _____	(scribble into graphics above)	
11 doors	no. of doors needed: _____	pcs.	
12 rubber flooring	<input type="checkbox"/> yes <input type="checkbox"/> no	no of plates: _____ sqm	



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