



**BOEN**  
SPORT

*-part of the game*

BOEN SPORT FLOORING







**CERTIFICATE OF APPROVAL**

Valid until: December 31, 2014  
Issued to:  
**BOEN AS**

FIBA Equipment & Venue Centre Partner since: 2009  
FIBA Equipment & Venue Centre Associate from 2003 to 2008

FIBA (Fédération Internationale de Basketball) hereby declares, by means of this certificate, that the basketball equipment, indicated below, fulfills the standards specified in the latest edition of the Equipment & Venue Approval Programme and is therefore qualified as an

**OFFICIAL TECHNICAL PARTNER**

**Product Category: WOODEN FLOORING**

**Name of Product/Model:** Fixed Systems: Actiflex Stadium; Arenaflex Stadium; Arenaflex Olympia; Boflex Stadium; Doubleflex Stadium; Doubleflex Olympia; Singleflex Stadium; Elastflex Stadium; Elastflex Olympia; Singleflex Olympia.

**Competition Level: 1, 2 and 3**

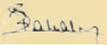
Level 1: Main Official International Competitions of FIBA: Olympic Tournaments, World Olympic Qualifying Tournaments for Men & Women, FIBA World Cup (WC) for Men, FIBA WC for Women, FIBA U-19 WC for Men/for Women, FIBA U-17 WC for Men/for Women, All Zone Championships, including all Qualifying Games and Tournaments for these Championships.

Level 2: Medium Level of Competitions: All other FIBA Official Competitions as Official Cups and Tournaments of FIBA and High Level Competitions of the National Federations.

Level 3: Other Competitions: All other Competitions not included in the above.

**Contract No: P32-2011**

The Manufacturer is authorized to use the FIBA Equipment & Venue logo in its true colours on the above products models in accordance with the artwork provided. Note: FIBA levels of competition describe the levels of competitions for which the product (s) may be used; there is no link with the quality of the product (s).



**Patrick Baumann**  
Secretary General

**January 2013**  
Date



- Boflex
- Actiflex
- Arenaflex
- Elastflex
- Singleflex
- Squash
- Accessories

All our wood floors are approved by FIBA.

# BOEN SPORT HAVE WHAT YOU NEED

## SPORT SOLUTIONS FOR ALL TYPES OF SPORTS

Natural development through games and sport gives a deep feeling of accomplishment. No matter what age or level of fitness – physical activity adds value to life.

Sports venues are found in differing sizes and standards, with a wide variety of equipment and facilities. There is one thing they have in common: They all have a floor!

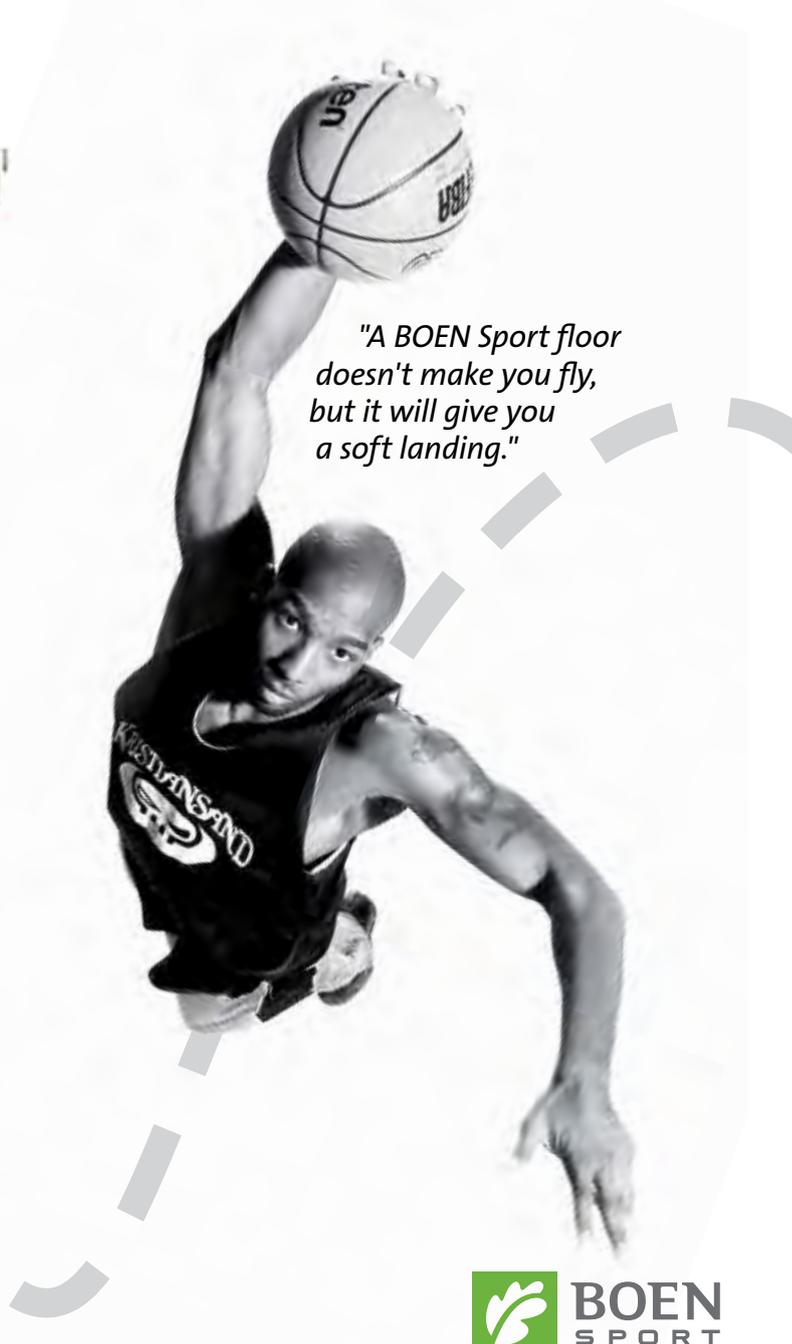


The raw materials processed at BOEN come from sustainable forests. Above that, the BOEN factories have implemented a chain of custody system in accordance with the FSC™ standards. The Forest Stewardship Council™ is a well known forest certification scheme. BOEN FSC license numbers are: BOEN Norway FSC™ C051117, BOEN Germany FSC™ C101713, BOEN Lithuania FSC™ C021510, BOEN UK FSC™ C047288, BOEN US FSC™ C095158. FSC – The mark of responsible forestry, [www.fsc.org](http://www.fsc.org). The majority of BOEN Sport floors can be delivered with FSC Mix certified.

The German Blue Angel label has been awarded to BOEN confirming that our manufacturing methods produce minimal amounts of waste gas and consequently contribute to a good interior climate.

The floor is the most important part of any sports facility – every activity is linked to the floor. This is why the choice of the floor is so important.

The question is whether there is a sports floor that suits all the various activities? BOEN Sport offers many different solutions for area-elastic sports floors. Some are perfect for aerobic and volleyball, others for basketball, handball, squash or tennis. Additional activities that may need to be considered include e.g. exhibitions, concerts and dancing. Our Boflex construction welcomes them all.



*"A BOEN Sport floor  
doesn't make you fly,  
but it will give you  
a soft landing."*



PERFORMANCE ACCORDING TO EN14904		SHOCK ABSORPTION <sup>1)</sup>		DEFORMATION <sup>2)</sup>		FRICTION <sup>3)</sup>	BALL BOUNCE <sup>4)</sup>	ROLLING LOAD <sup>5)</sup>
		Type 3: ≥ 40% ≤ 55%	Type 4: ≥ 55 % ≤ 75 %	Type 3: ≥ 1.8mm ≤ 3.5mm	Type 4: ≥ 2.3mm ≤ 5.0mm			
<i>Boflex</i>	STADIUM		<b>59%</b>		<b>2.5mm</b>	<b>86</b>	<b>96%</b>	<b>OK</b>
	CHAMPION		<b>58%</b>		<b>2.6mm</b>	<b>-</b>	<b>93%</b>	<b>OK</b>
<i>Actiflex</i>	STADIUM		<b>61%</b>		<b>3.8mm</b>	<b>86</b>	<b>95%</b>	<b>OK</b>
<i>Elastiflex</i>	STADIUM		<b>61%</b>		<b>3.5mm</b>	<b>86</b>	<b>96%</b>	<b>OK</b>
	OLYMPIA		<b>59%</b>		<b>3.3mm</b>	<b>86</b>	<b>95%</b>	<b>OK</b>
	CHAMPION		<b>57%</b>		<b>3.3mm</b>	<b>-</b>	<b>96%</b>	<b>OK</b>
<i>Singleflex</i>	STADIUM		<b>58%</b>		<b>3.0mm</b>	<b>86</b>	<b>97%</b>	<b>OK</b>
	OLYMPIA		<b>59%</b>	<b>1.9mm</b>		<b>86</b>	<b>97%</b>	<b>OK</b>
	ATHLETIC**		<b>62%</b>		<b>3.1mm</b>	<b>-</b>	<b>97%</b>	<b>OK</b>
<i>Arenaflex Elevation</i>	STADIUM		<b>64%</b>		<b>2.9mm</b>	<b>86</b>	<b>96%</b>	<b>OK</b>
	OLYMPIA		<b>65%</b>		<b>2.6mm</b>	<b>86</b>	<b>93%</b>	<b>OK</b>

- 1) The ability of the sports floor to absorb pressure. EN 14904 divides into two groups of area-elastic floors.
- 2) A given test-load is dropped from a given height. The vertical deformation shall not exceed 3,5 mm for Type 3 floors and 5 mm for Type 4 area-elastic sports floors.
- 3) Adapted friction shall provide the athlete from uncontrolled sliding. This requirement is a compromise adjusted to several sports. Low friction co-efficiency = slippery floor.
- 4) Ball bounce indicates how high a basketball rebounds on an area-elastic floor when dropped from a given height (concrete=100%).
- 5) Resistance to rolling loads (e.g. heavy transporters, portable goals, mobile grandstands, etc.) shall be minimum 1500 N.

\*\*Tested according to DIN18032-2.

## ENDURANCE

Willingness, patience and enthusiasm to train, are all important qualities for those who wish to succeed in the field of sport. BOEN Sport offers floors that give a solid basis for reaching the top. Similarly to the mental and physical strength of the athletes, the floor also has to be strong and durable. A BOEN Sport floor will convince you, even after prolonged hard wear.

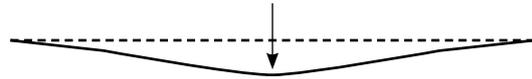
BOEN Sport has specialized in area elastic sport floors because they are suitable for all kinds of indoor sports and multipurpose usage. Our target is to develop solutions that lead to the best performance in a variety of sports.

The **European Standard EN14904** specifies the requirements for surfaces of sports floors for multisports use. All BOEN sports floors meet the demands of the five test elements within EN14904.

### SPORTS FLOOR CATEGORIES

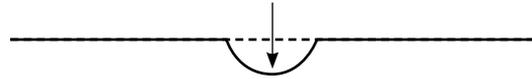
#### AREA ELASTIC SPORTS FLOOR

Flexible floor with a wide area of deformation.



#### POINT ELASTIC SPORTS FLOOR

Flexible, soft floor where the deformation in the surface is very much connected to the area size of the load.



#### COMBI ELASTIC SPORTS FLOOR

These are area elastic floors with a point elastic surface. The deformation area is wide in the part of the load distribution layer. On the surface the deformation is very much connected to the area of the load.

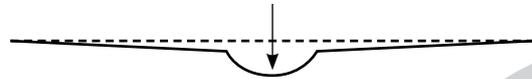


Photo: Bona

*Best solutions for best performance - no matter what age or level of sports.*

*“A good sporting performance is even better with good support”*

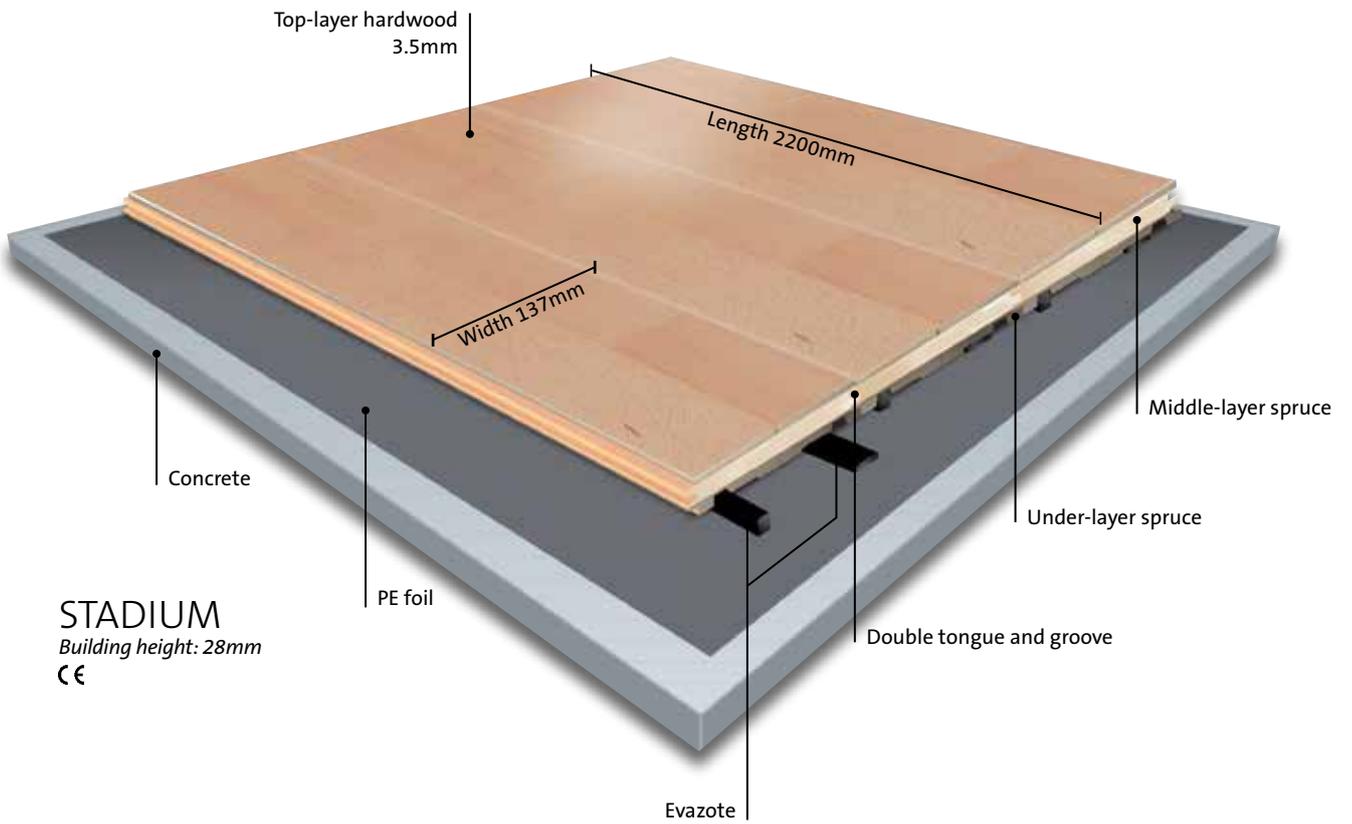
*Dietmar Mögenburg, Sports club AGGUA (Germany)*

AREA-ELASTIC SPORTS FLOOR

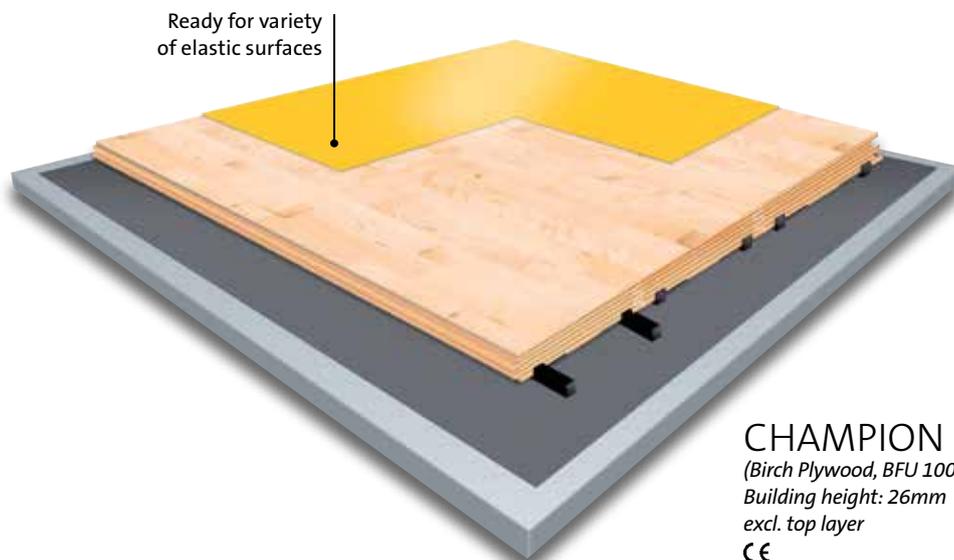


USAGE

Sports and multipurpose centres  
Suitable for installation over underfloor heating systems



**STADIUM**  
Building height: 28mm  
CE



**CHAMPION**  
(Birch Plywood, BFU 100)  
Building height: 26mm  
excl. top layer  
CE

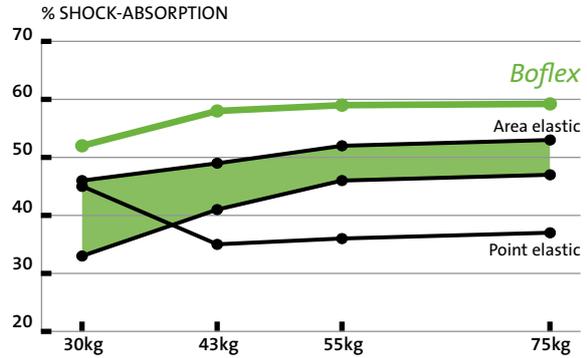
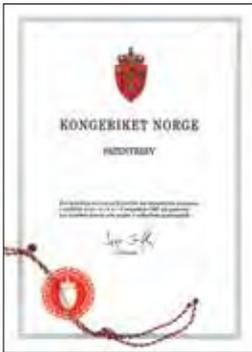
# THE ULTIMATE SPORTS FLOOR

## OUR BESTSELLER

An area-elastic floor for sports and multipurpose usage. Boflex Stadium is our most popular hardwood floor. Why? Because of its comfort, flexibility and performance! Boflex Champion is a sub-construction in plywood where a variety of synthetic surfaces can be laid on the surface, such as PVC, Linoleum, Polyurethane and others.

Boflex Sport Flooring is tested by SINTEF (formerly The Norwegian Building Research Institute) and is patented in several countries. The tests show that Boflex surpasses all its rivals when it

comes to shock-absorption. The built-in shock-absorption is equally suitable for children's games and activities as it is for tackling the weight of heavy grandstands.



The majority of experts state that indoor sports flooring properties should be tested for shock-absorption using a person weighing approximately 75kg. While in the process of developing the Boflex Sports Floor, it was always our top priority that Boflex should work well for all user groups, including children.

PERFORMANCE ACCORDING TO EN14904	SHOCK ABSORPTION	DEFORMATION	FRICTION	BALL BOUNCE	ROLLING LOAD MIN. 1500X
<b>Boflex</b>					
STADIUM	Type 4: <b>59%</b>	Type 4: <b>2.5mm</b>	<b>86</b>	<b>96%</b>	<b>OK</b>
CHAMPION	Type 4: <b>58%</b>	Type 4: <b>2.6mm</b>	-	<b>93%</b>	<b>OK</b>
SQUASH	Type 4: <b>59%</b>	Type 4: <b>2.5mm</b>	<b>0.59**</b>	<b>96%</b>	<b>OK</b>

\*\* Tested according to DIN18032-2.

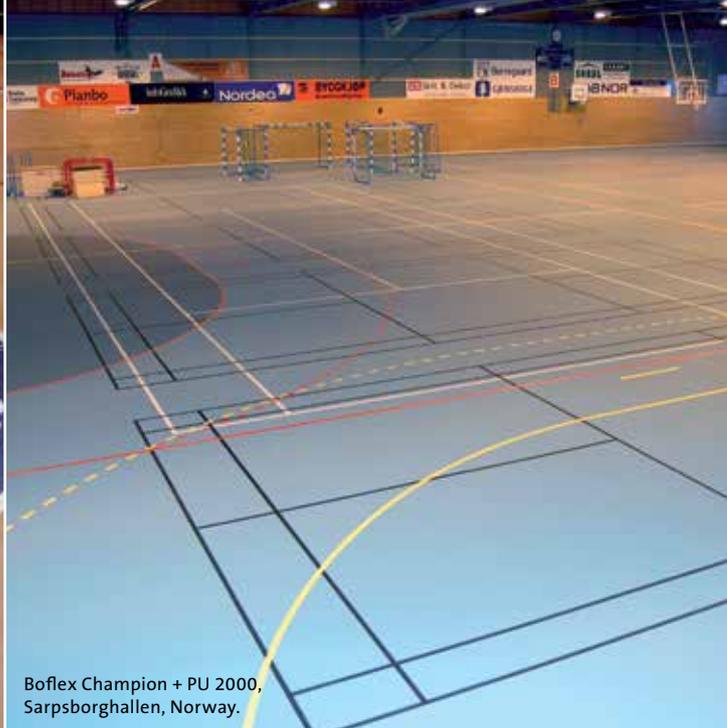


*"When it is a matter of flexibility, nothing beats Boflex"*

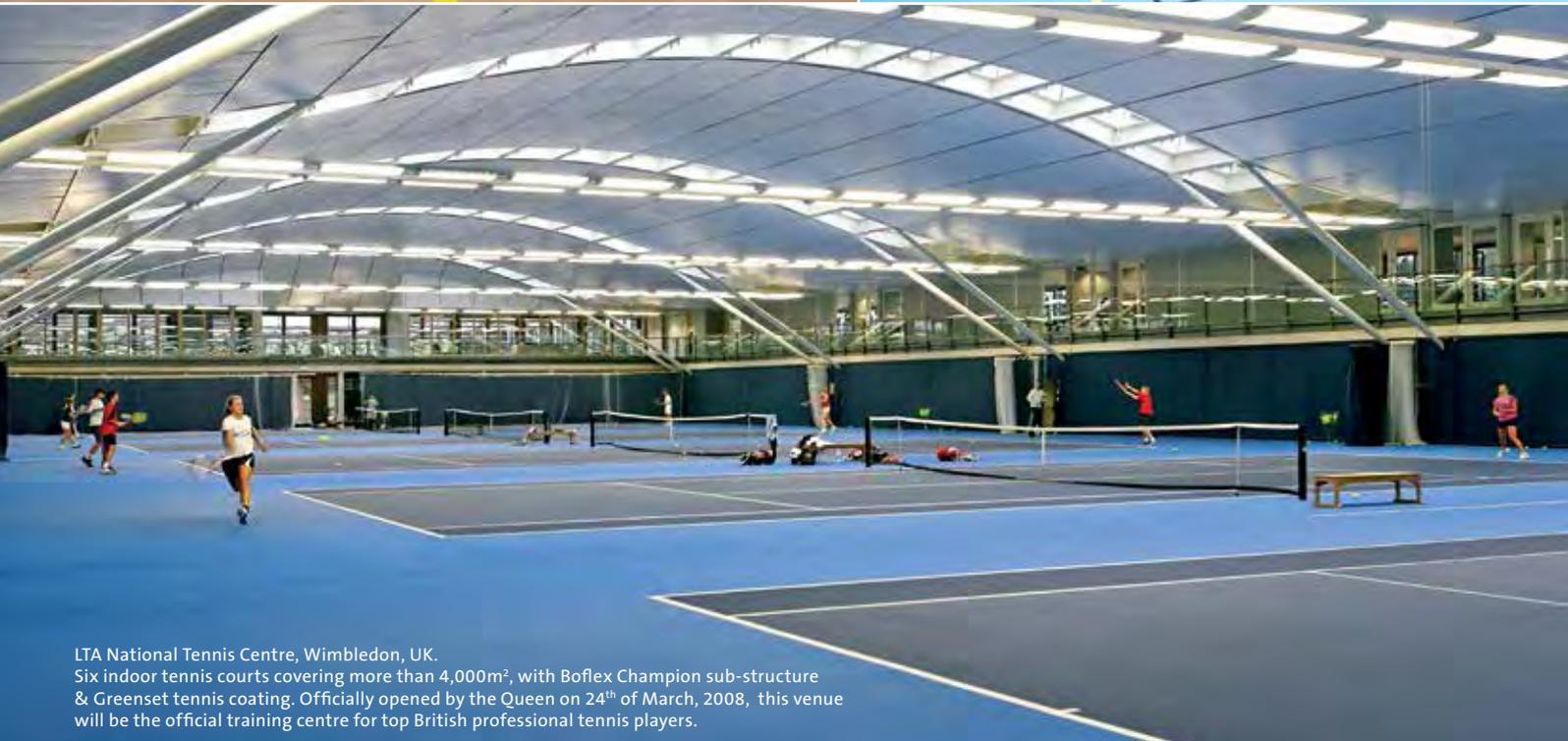
Manager Fitzbach Sport Center (Switzerland)



Boflex Champion with Taraflex Evolution, Taraflex Sport M+ top-layer. Thomas Jefferson University, Philadelphia, USA.



Boflex Champion + PU 2000, Sarpsborghallen, Norway.



LTA National Tennis Centre, Wimbledon, UK. Six indoor tennis courts covering more than 4,000m<sup>2</sup>, with Boflex Champion sub-structure & Greenset tennis coating. Officially opened by the Queen on 24<sup>th</sup> of March, 2008, this venue will be the official training centre for top British professional tennis players.



Boflex Champion + 4 mm sportslinodur. Gigantium, Ålborg, Denmark. Largest sports centre in Europe with 6167m<sup>2</sup>.

## TIME IS MONEY

### PROGRESSIVE SHOCK ABSORPTION

The patented Boflex system has a built-in shock absorption material and the construction can withstand an almost unlimited load.

Evazote 50 (etylen-vinyl-acetat) is a cross-linked, closed cell system (layers not laid parallel). Evazote 50 is manufactured without the use of environmentally hazardous gases. Due to the special construction the material can never be compressed more than 50% which means a Boflex floor can never be overloaded.

### EASY, FAST AND SECURE INSTALLATION

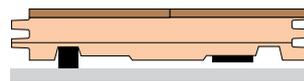
Boflex can be installed directly on top of the existing floor or sub-floor. The sub-floor must be stable, self-supporting and level. The maximum permitted deviation is 2mm per 2 metre radius. BOEN Sport has developed special installation equipment that ensures the correct application of adhesive and effective installation of the floor. Experience shows that a sports complex of approximately 1000m<sup>2</sup> can be installed in 4-5 days by 3 persons.

### RENOVATION

Due to its extremely low building height it is well suited for renovation purposes. The Boflex system works very well when installed on old sports flooring, whether it be point or surface elastic.

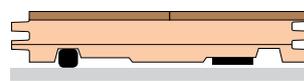
## LOADING CAPACITY

### NON-LOADED



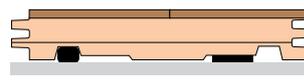
The parquet rests on each alternate Evazote strip.

### LIGHT LOAD



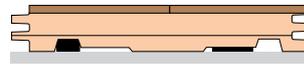
The parquet rests on each alternate Evazote strip.

### MEDIUM LOAD



Whether all or alternate Evazote strips are under restraint is dependant on the type of sport.

### HEAVY LOAD



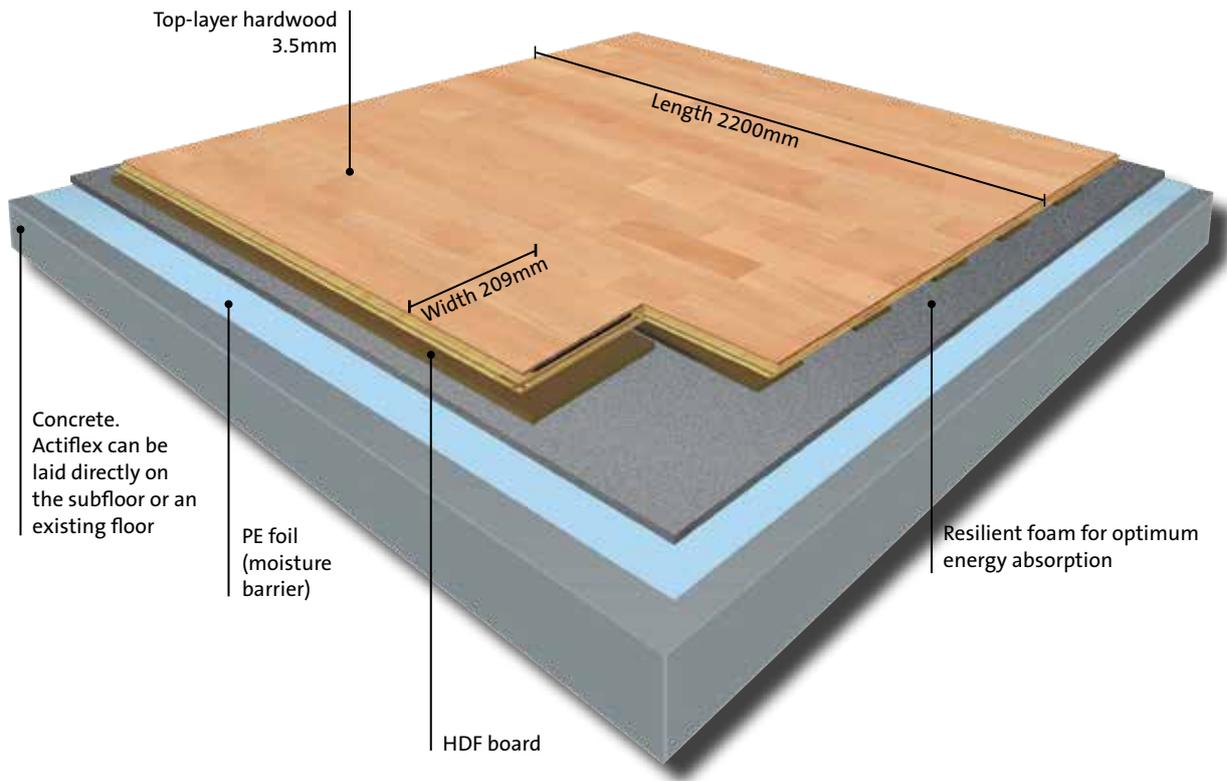
The floor can withstand several tons of pressure without any damage being done. Even heavy vehicles can drive in and out without any detriment to the floor.

*“Boflex leads to more effective training and prevents injury”*  
Physiotherapist Ole Petter Ramfjord  
(Norway)

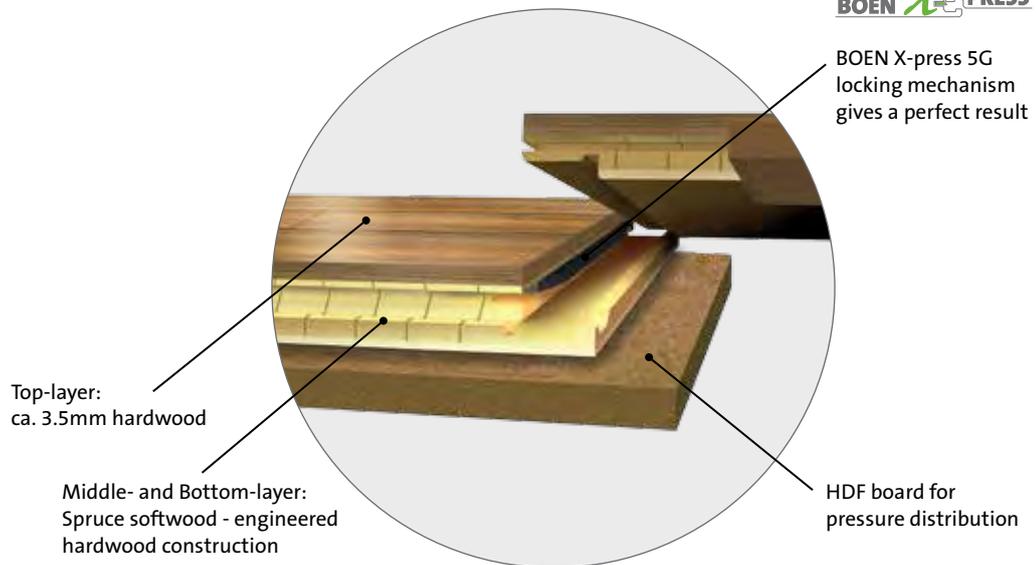
**STADIUM**  
*Building height: 29mm*  
**CE**

**AREA-ELASTIC SPORTS FLOOR**

**USAGE** | Sports Centres



**BOEN X-PRESS**





## FASTER AND EASIER

### SPORTS FLOORS FOR AN ACTIVE LIFESTYLE

Sport has something to offer everyone and gives a deep feeling of accomplishment for both beginners and advanced athletes of all ages. It doesn't matter what the activity or how fast or slow you are, the benefits of an active and healthy lifestyle are available to everyone.

#### SHOCK ABSORPTION

Actiflex is an area elastic sports floor where the boards are installed on top of a shock absorption foam. It can be installed on an even, sound and self supporting subfloor or an existing floor giving a finished floor height of 29mm. It has been tested in accordance to the demands of EN14904 and Actiflex meets the requirements of all five test elements and achieves the highest Type A4 classification.



### SECURE INSTALLATION WITH BOEN X-press

The BOEN X-press locking technology ensures a fast and secure installation due to the use of a flexible profile in the short end joint of the board. When pressing the board down into position the flexible profile locks into place in a single movement with a positive click. Suitable for projects up to 300m<sup>2</sup>.

The 5G technology used for the BOEN X-press is the most advanced type of vertical locking system on the market.

### FASTER AND EASIER

No special tools or glue are necessary when laying Actiflex. This enhances fast installation and allows for temporary and flexible use. Actiflex can easily be dismantled.

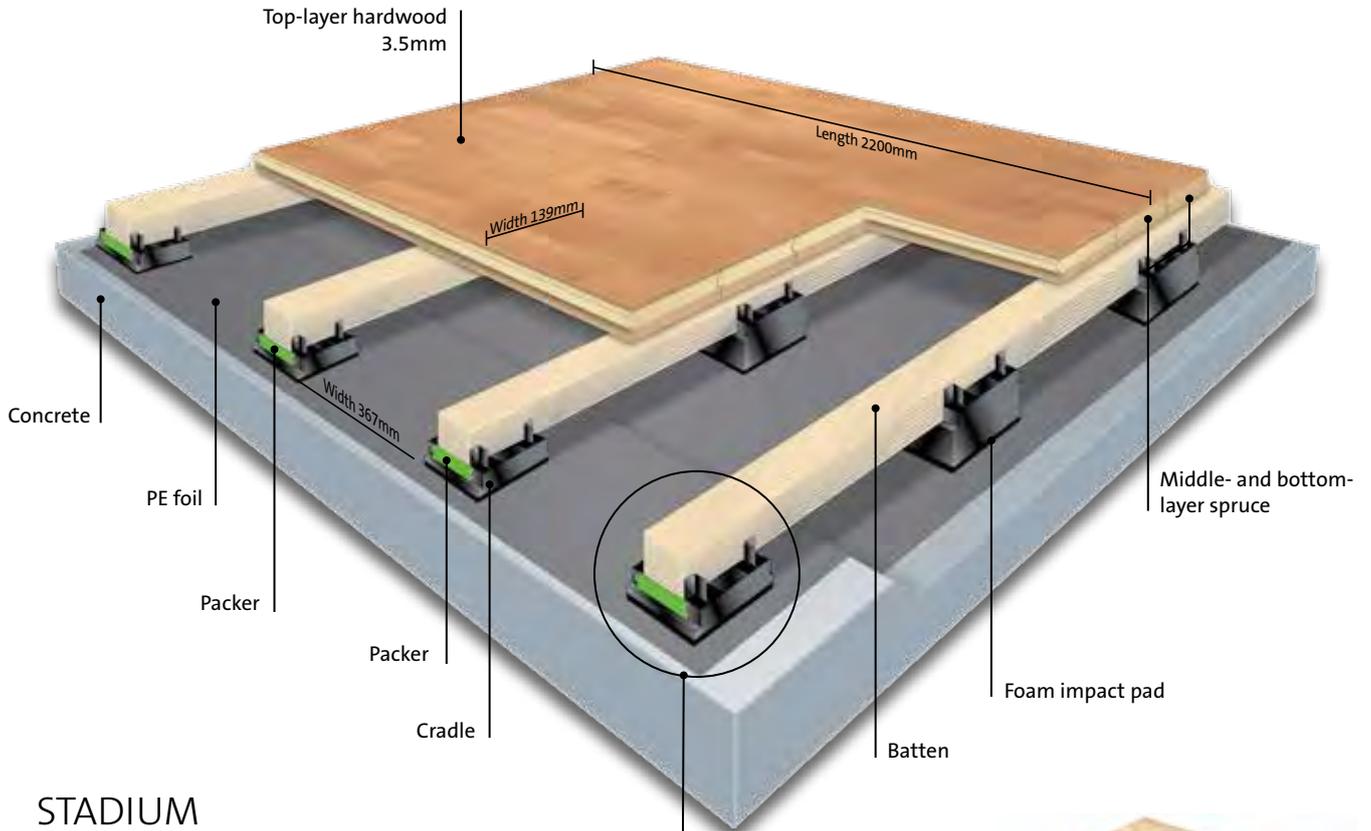
PERFORMANCE ACCORDING TO EN14904	SHOCK ABSORPTION	DEFORMATION	FRICTION	BALL BOUNCE	ROLLING LOAD MIN. 1500N
<b>Actiflex</b>					
STADIUM	Type 4: <b>61%</b>	Type 4: <b>3.8mm</b>	<b>86</b>	<b>95%</b>	<b>OK</b>

## AREA-ELASTIC SPORTS FLOOR



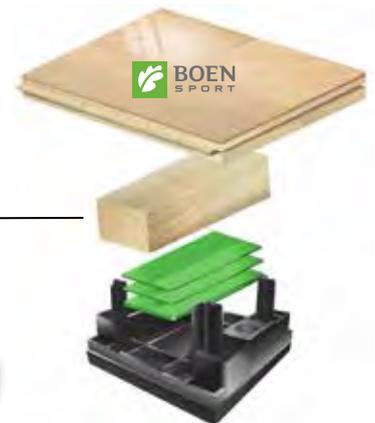
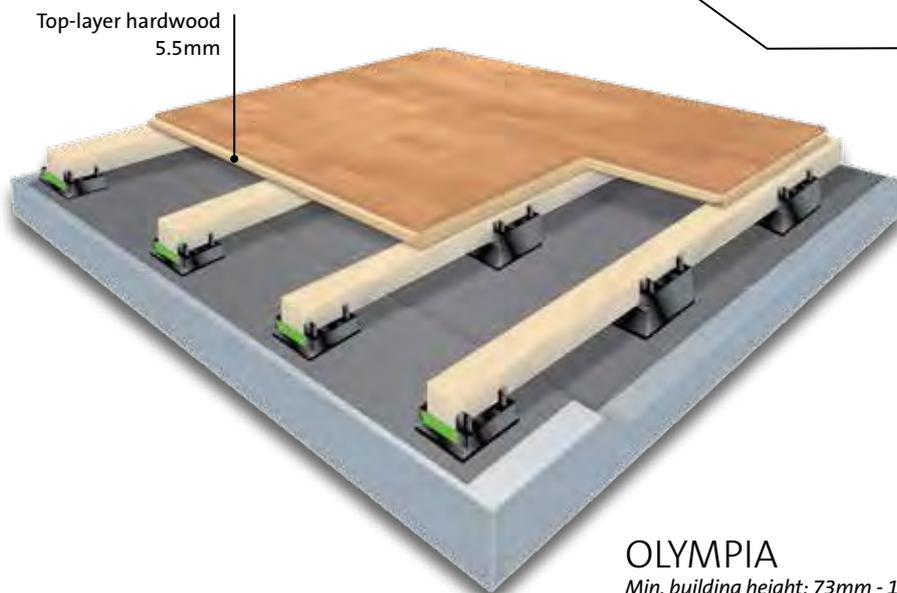
USAGE

Sports and multipurpose centres  
Suitable for installation with underfloor heating systems



## STADIUM

Min. building height: 75mm - 131mm  
€€



## OLYMPIA

Min. building height: 73mm - 129mm  
€€



# Arenaflex Elevation

## CRADLE SYSTEM

- when building height matters

An area elastic sports floor made up of impact-resistant and highly durable cradles. An integral 10 mm foam impact pad on the underside which supports softwood battens. Arenaflex covers various buildings heights from 73mm. The system has been fully tested and approved to EN14904: 2006 Type A4, on top you can choose either Arenaflex Stadium or Arenaflex Olympia.

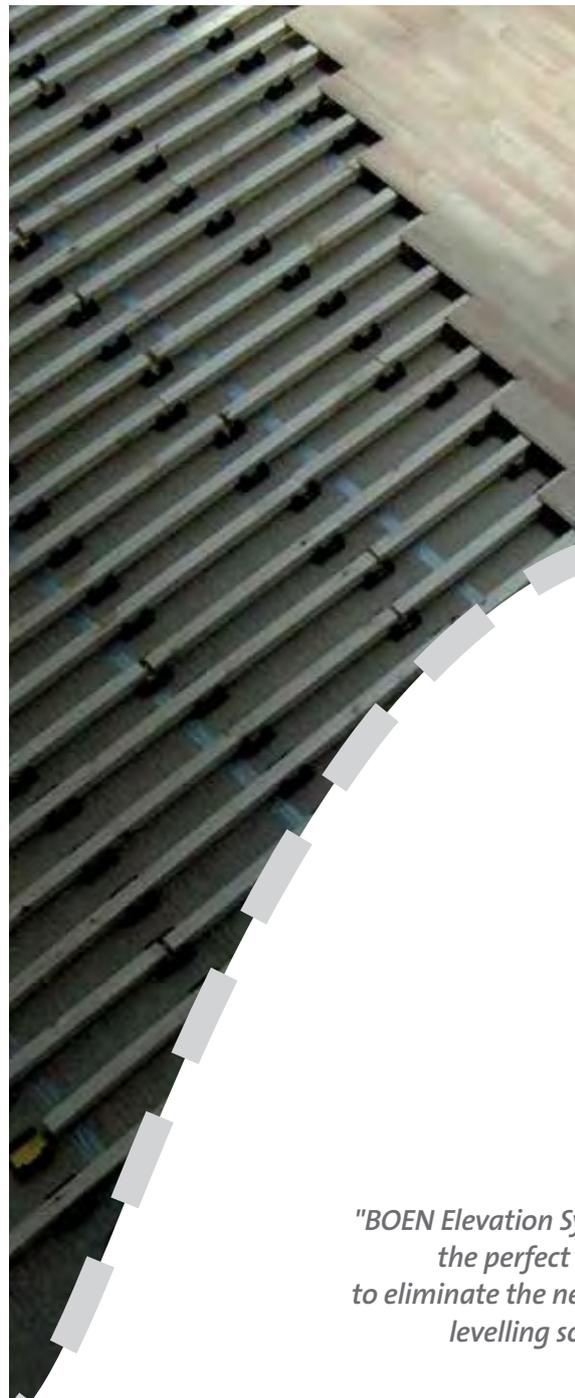
CRADLE	ELEVATION 1	ELEVATION 1
E1	<b>16mm</b>	<b>30mm</b>
E2	<b>45mm</b>	<b>60mm</b>

Using the above standard cradles with varying sizes of batten, construction heights between 73mm and 131mm can be achieved. Further solutions are available for heights above 131mm if required.



PERFORMANCE ACCORDING TO EN14904	SHOCK ABSORPTION	DEFORMATION	FRICTION	BALL BOUNCE	ROLLING LOAD MIN. 1500N
<b>Arenaflex Elevation</b>					
STADIUM	Type 4: <b>64%</b>	Type 4: <b>2.9mm</b>	<b>86</b>	<b>96%</b>	<b>OK</b>
OLYMPIA	Type 4: <b>65%</b>	Type 4: <b>2.6mm</b>	<b>86</b>	<b>93%</b>	<b>OK</b>
SQUASH	Type 4: <b>64%</b>	Type 4: <b>2.9mm</b>	<b>0.59**</b>	<b>96%</b>	<b>OK</b>

\*\* Tested according to DIN18032-2.



*"BOEN Elevation System, the perfect choice to eliminate the need for levelling screeds"*

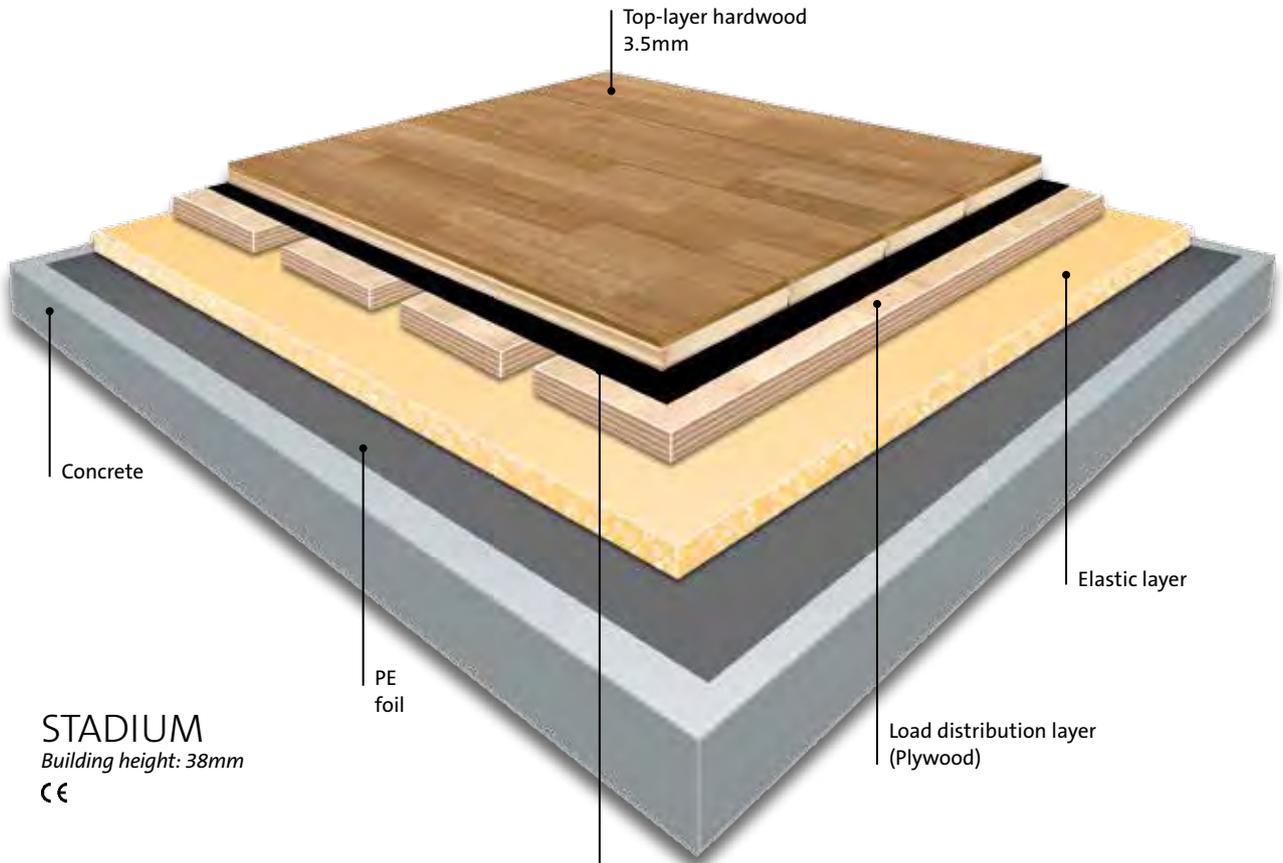


## AREA-ELASTIC SPORTS FLOOR

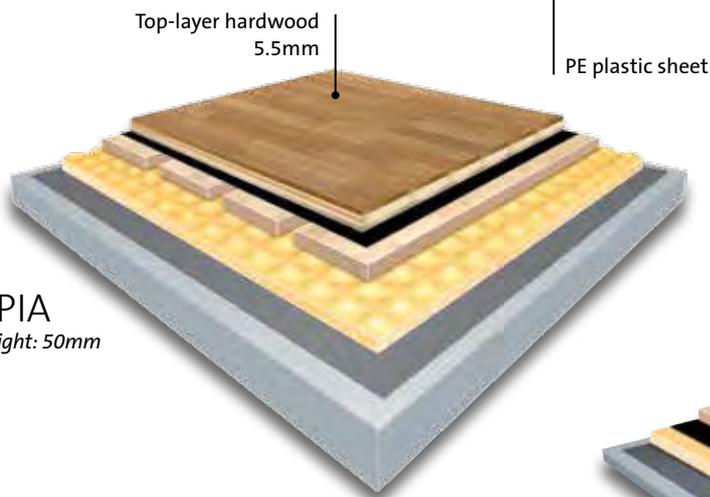


USAGE

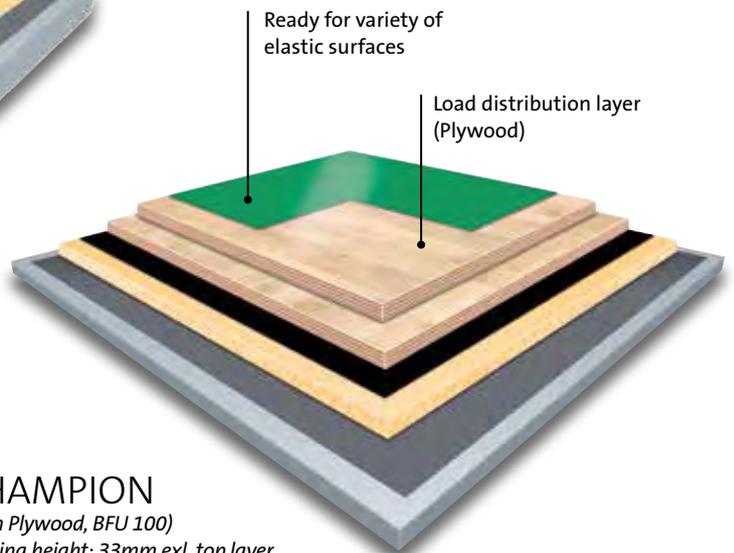
Sports and multipurpose centres



**STADIUM**  
Building height: 38mm  
€€



**OLYMPIA**  
Building height: 50mm  
€€



**CHAMPION**  
(Birch Plywood, BFU 100)  
Building height: 33mm exl. top layer  
€€



## A FLOOR THAT FITS ALL

An area elastic sports floor made up of an elastic layer and load distribution layer of plywood. On top you can choose between a 14 mm or 21 mm Sport parquet. When using plywood pannels on top of the elastic layer all kinds of elastic surfaces such as PVC, Linoleum and Polyurethane can be used.

INSTALLATION FROM THE TOP EDGE OF RAW CONCRETE	Elastflex STADIUM	Elastflex OLYMPIA	Elastflex CHAMPION
ELASTIC LAYER	<b>15mm</b>	<b>20mm</b>	<b>15mm</b>
LOAD DISTRIBUTION LAYER/ PANNELS	<b>9mm</b>	<b>9mm</b>	<b>18mm</b>
PE PLASTIC SHEET	<b>0.05mm</b>	<b>0.05mm</b>	<b>0.05mm</b>
TOP-LAYER	<b>Hardwood BOEN Sport parquet 14mm</b>	<b>Hardwood BOEN Sport parquet 21mm</b>	<b>Suitable for all elastic layers</b>
CONSTRUCTION HEIGHT	<b>38mm</b>	<b>50mm</b>	<b>33mm</b> (excluding top-layer)



PERFORMANCE ACCORDING TO EN14904	SHOCK ABSORPTION	DEFORMATION	FRICTION	BALL BOUNCE	ROLLING LOAD MIN. 1500N
<b>Elastflex</b>					
STADIUM	Type 4: <b>61%</b>	Type 4: <b>3.5mm</b>	<b>86</b>	<b>96%</b>	<b>OK</b>
OLYMPIA	Type 4: <b>59%</b>	Type 4: <b>3.3mm</b>	<b>86</b>	<b>95%</b>	<b>OK</b>
CHAMPION	Type 4: <b>57%</b>	Type 4: <b>3.3mm</b>	<b>-</b>	<b>96%</b>	<b>OK</b>
SQUASH	Type 4: <b>61%</b>	Type 4: <b>3.5mm</b>	<b>0.59**</b>	<b>96%*</b>	<b>OK</b>

\*\* Tested according to DIN18032-2.



*Most important when installing an Elastflex system:  
A stable, level and secure sub-floor!*

AREA-ELASTIC SINGLE-SPRUNG FLOOR



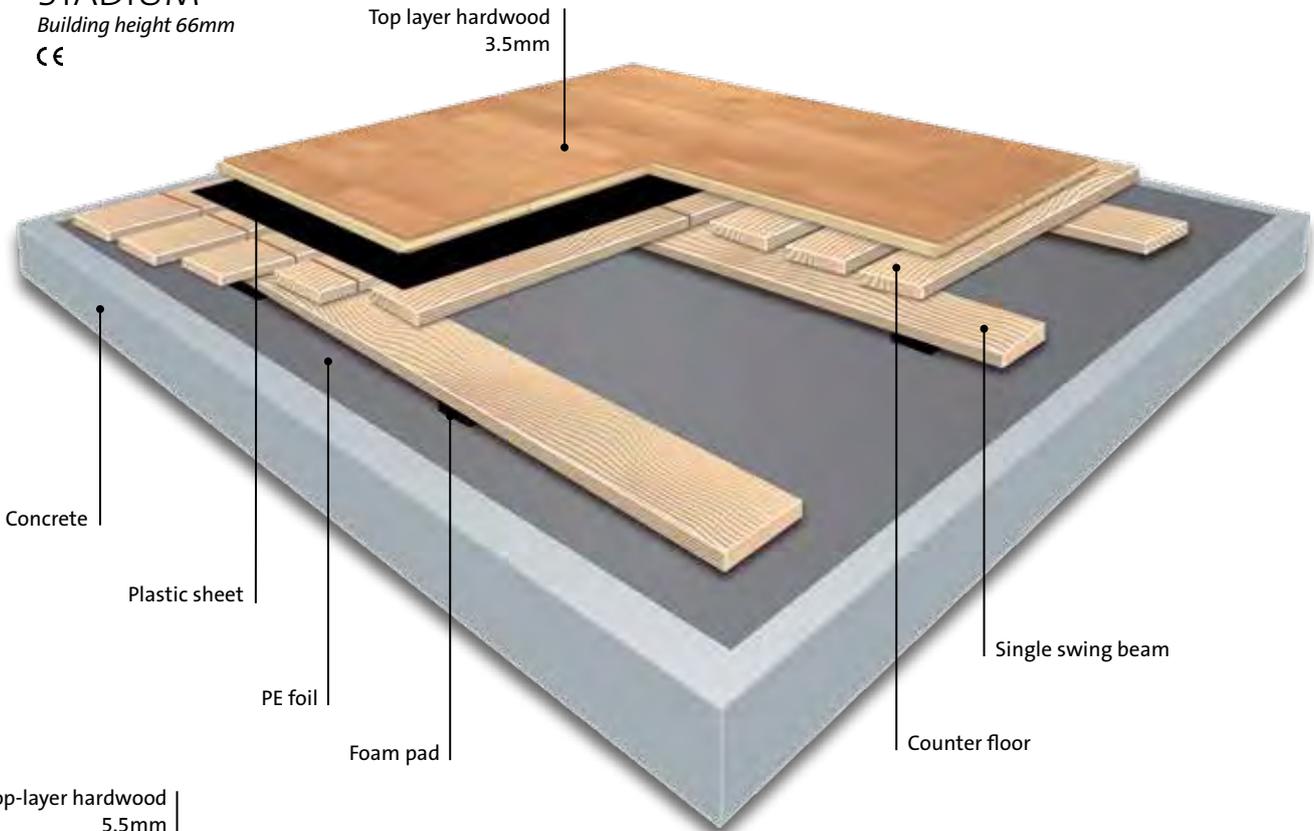
USAGE

Sports and multipurpose centres  
Suitable for installation over underfloor heating systems

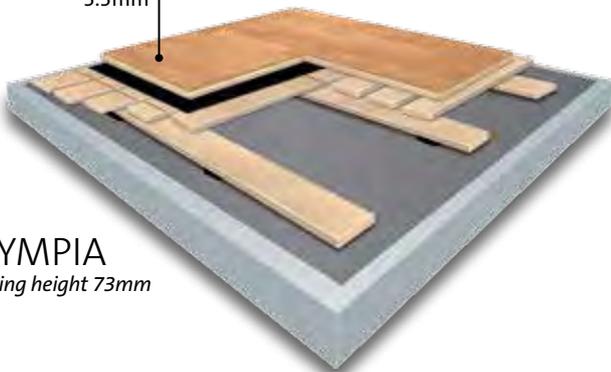
**STADIUM**

Building height 66mm

CE



Top-layer hardwood  
5.5mm

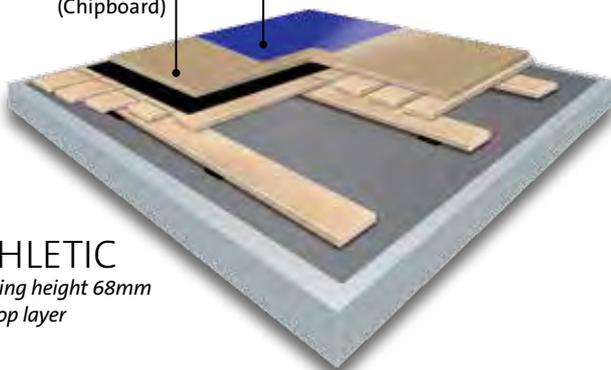


**OLYMPIA**

Building height 73mm

CE

Load distribution layer (Chipboard)  
Ready for variety of elastic surfaces



**ATHLETIC**

Building height 68mm  
exl. top layer

CE

PERFORMANCE ACCORDING TO EN14904	SHOCK ABSORPTION	DEFORMATION	FRICTION	BALL BOUNCE	ROLLING LOAD MIN. 1500N
<b>Singleflex</b>					
STADIUM	Type 4: <b>58%</b>	Type 4: <b>3.0mm</b>	<b>86</b>	<b>97%</b>	<b>OK</b>
OLYMPIA	Type 4: <b>59%</b>	Type 3: <b>1.9mm</b>	<b>86</b>	<b>97%</b>	<b>OK</b>
ATHLETIC**	Type 4: <b>62%</b>	Type 4: <b>3.1mm</b>	–	<b>97%</b>	<b>OK</b>
SQUASH	Type 4: <b>58%</b>	Type 4: <b>3.0mm</b>	<b>0.59**</b>	<b>97%*</b>	<b>OK</b>

\*\* Tested according to DIN18032-2.

INSTALLATION FROM THE TOP EDGE OF RAW CONCRETE	Singleflex STADIUM	Singleflex OLYMPIA	Singleflex ATHLETIC
SINGLE SWING BEAM	<b>36mm</b>	<b>36mm</b>	<b>36mm</b>
COUNTER FLOOR	<b>16mm</b>	<b>16mm</b>	<b>16mm</b>
PE PLASTIC SHEET	<b>0.05mm</b>	<b>0.05mm</b>	<b>0.05mm</b>
LOAD DISTRIBUTION LAYER	–	–	<b>16mm</b>
TOP-LAYER	<b>Hardwood BOEN Sport parquet 14mm</b>	<b>Hardwood BOEN Sport parquet 21mm</b>	<b>Suitable for all elastic layers</b>
CONSTRUCTION HEIGHT	<b>66mm</b>	<b>73mm</b>	<b>68mm (excluding top-layer)</b>



# Squash

## UNIQUE SQUASH SURFACE

- for all BOEN Sport systems

All BOEN Sport products are area elastic sport floors made to give the best performance in the different fields of sport. BOEN Sport squash surface has been developed for modern day usage and has been factory sealed and sanded to a 60 grit finish for squash performance.

The unique squash surface is available in Oak, Ash and Beech within Boflex Stadium, Arenaflex Stadium, Singleflex Stadium and Elastflex Stadium systems.

Our squash surface meets the requirement from the players with a friction of 0.59 tested according to DIN 18032-2.

BOEN Squash Flooring has been granted World Squash Federation Accreditation, having satisfied the requirements of the WSF Accreditation Scheme.



Special rough surface for optimal friction: sanded with graining 60, 1 coat of primer, 2 coats of top-finish.

*BOEN Squash Flooring is the preferred choice of ASB Group, Systembau Horst Babinsky GmbH, Germany who supplies squash courts all around the world.*





## TOPICS TO CONSIDER WHEN CHOOSING YOUR FLOORING SYSTEM:

### USAGE

- Basketball
- Handball
- Volleyball
- Soccer
- Hockey
- Fitness
- Squash
- Tennis
- Exhibitions, concerts
- Mobile grandstands
- Multipurpose

### SITE CONDITIONS

- New building or renovation
- Current surface
- Current sub-floor
- Evenness sub-floor
- Permissible floor thickness

### FLOORING SYSTEM

- Area elastic flooring
- Point elastic flooring
- Combi elastic flooring

### TOP-LAYER APPEARANCE

- Hardwood
- Elastic surface

### INSTALLATION

- Installation time
- Qualified support

### CARE & MAINTENANCE

- Easy to maintain
- Lifetime/durability
- Intensity of usage

### SURFACE FINISH

- Depending on the type of sport

### PERFORMANCE

- Requirements of EN14904 and other standards

# THE RIGHT FLOOR SYSTEM

## PROVEN QUALITY WORLDWIDE FOR DECADES

Which sports floor system suits your specific requirements best does not only depend on the type of sport, but very much on the site conditions and the usage of the site. The experienced team of technical advisors will help you through the whole process – from assessing the current condition of your floor, optimizing project planning, qualified installation, to advising in all aspects of cleaning and maintenance.

## BENEFIT FROM OUR EXPERIENCE

Boflex, our best selling and most versatile sports floor has been on the market since the 1990's and continues to be a big success story. Approximately 2.5 million m<sup>2</sup> of BOEN Sport flooring has been installed all around the world. Our involvement has put us in a leading position especially when it comes to technical solutions.



BOEN Sport offers a wide range of accessories such as covers, skirtings, reducers, etc.

## PLEASANT ATMOSPHERE



ASH



MAPLE



OAK



BEECH

Other wood types available on request.  
Our distributors and sales partners offer various solutions regarding synthetic surfaces.

Line marking.

**TIP:**  
*Remember planning for apparatus fittings, covers, line markings, etc. before installation.*



**MORE THAN 40 YEARS  
OF INTENSE USE**

The first BOEN Sports floor  
(solid wood) was installed  
at Odderneshallen,  
Kristiansand, Norway.  
In daily use from 07:00-22:00  
Opened: 1960

# MADE TO BE USED

## EASY TO MAINTAIN

Your new BOEN sports floor will continue to give excellent training conditions for many generations to come. BOENs' many years of experience and research has resulted in, easy to use, specially adapted and effective maintenance products.

If the floor is well taken care of, it will remain beautiful for decades!

If you want your floor to stay looking as good as the day you bought it, we recommend starting a regular system of maintenance from day one. The amount of maintenance your floor requires will depend on how you use and treat it.

## BASIC CLEANING

Basic cleaning is carried out by using a floor-care machine with a very low water consumption. After basic cleaning the apparatus frame covers must be opened to allow any excess water which may have seeped in, to evaporate.

## ROUTINE CLEANING

After every day of use, the sports floor must be cleaned by dry mopping. This is necessary for reasons of hygiene, to remove dust, hair, light dirt, sweat etc. from the surface. Intermediate care should be carried out once or twice a week, depending on the usage of the hall.

**NB!** Take care not to over-wet the floor.



### BONA SPORTIVE SYSTEM

BOEN Sport recommends Bona Sportive products. Bona provides a complete program of products for installation, maintenance and renovation of wooden sports floors.



*"Parquet is easily maintained  
– a pleasure to work on."*

*Hall-inspector Karsten Pedersen  
(Denmark)*

# 50

YEARS OF  
BOEN SPORT

BOEN  
SPORT

# 50 YEARS OF BOEN SPORT

## OUR MISSION

“BOEN SPORT’s mission is to design, manufacture and sell quality sport floor solutions in Europe, North-America and selected markets in Asia.”

We are together in the playing field and as an experienced and qualified guide, we show you the best way to get the most out of your floor.

For us it is a priority to stay ahead and provide new solutions and methods of construction for both today’s and tomorrows sports floors.

We believe that perseverance and commitment are the key words to obtain important results.

BOEN Sport understands your needs, supporting your performances.

## 50 YEARS PART OF THE GAME

For more than 50 years BOEN Sport has played a leading role in the research and development work on new construction methods of sports floors. Our products are sold in more than 60 countries, with Corporate Management based in Norway.

## BRIGHT PEOPLE

New ideas from bright people can change the world. Pioneers smart enough to create their own luck, like Johan G. Olsen, his sons Leif and Ragnar and the long-time CEO of BOEN, Erling Andersen, founded and developed the modern BOEN.

Since BOEN’s history began, we have used our talent and passion to develop the best wood flooring possible, becoming a proud representative of Scandinavia’s design heritage.

The big challenge was, and still is, to maintain the beauty of Nature, controlling its strength and potential and make it available to athletes.

Ambitions, skills and thoroughness, created the history of BOEN Sport. Innovations in technology and human creativity are the tools that have let BOEN write a page in the history of both the wood and sports flooring industry.

*Part of the game* is a mantra that reminds us at BOEN Sport that we actually supply the most important element in the game – the floor.

BOEN Sport is pure passion at your disposal!



50  
YEARS OF  
BOEN SPORT

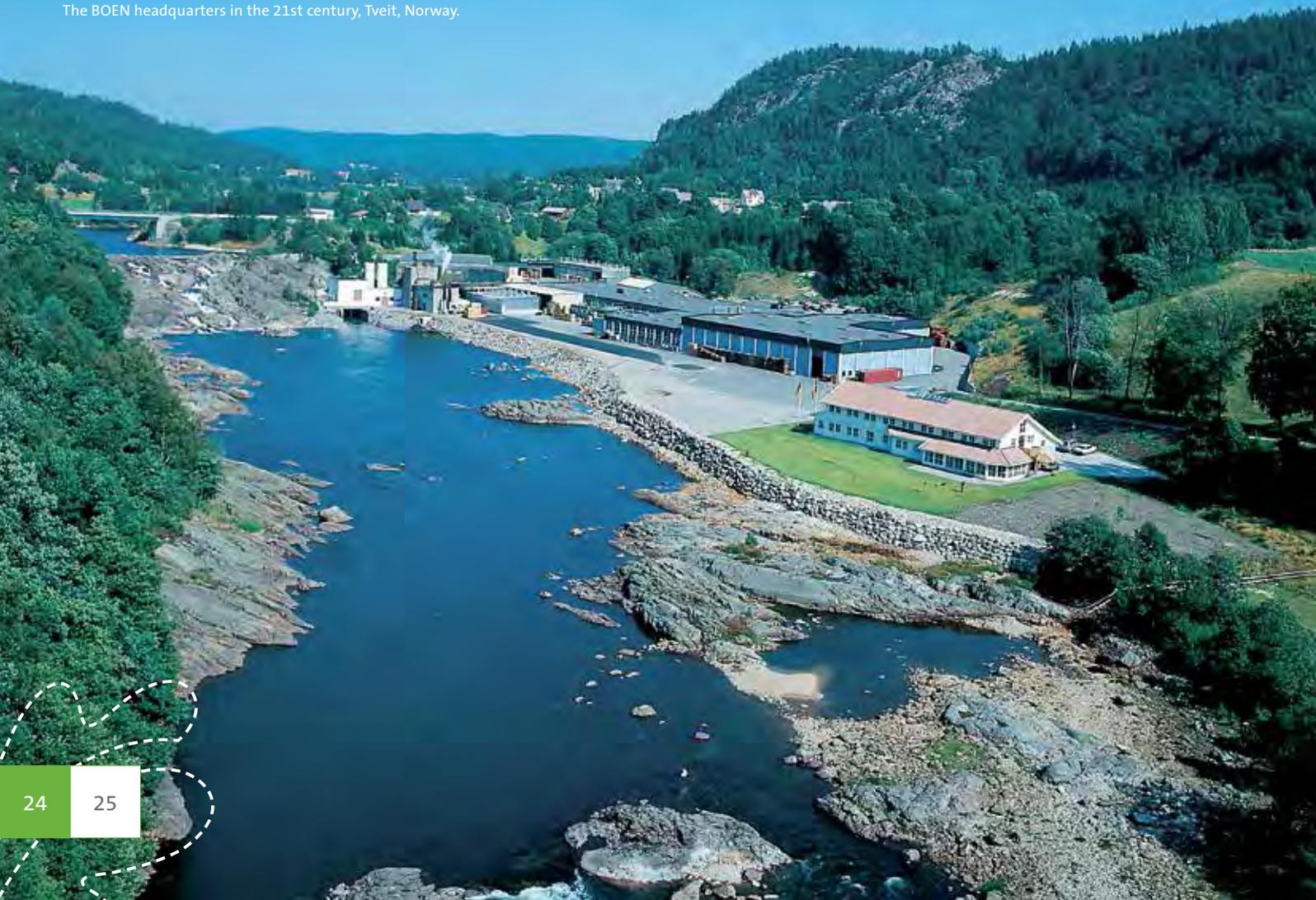
More information:  
[www.boensport.com](http://www.boensport.com)



The BOEN factory in 1895, Tveit, Norway.



The BOEN headquarters in the 21st century, Tveit, Norway.



# WE HAVE BEEN HERE FOR YEARS

## SPORT SUSTAINABLE

We know that as a manufacturer of timber products we have an important heritage to manage. That is why we promote an open and ongoing dialogue with environmental authorities and organizations. BOEN's clear ambition is to terminate manufacture from timber of endangered wood species by developing innovative technology.

The raw materials we use come from forest areas which are properly managed with a high degree of regeneration. The goal is to ensure that all of our raw materials are certified in accordance with internationally recognized certification schemes.

## NATURAL PRODUCT

The main components of the BOEN Sport product range come from renewable timber. The glue, lacquer and oil we use do not produce any hazardous gases or other bi-products. While the product lasts for a life time, it can be maintained in a way that the wood's natural appearance and qualities are preserved.

## GLOBAL PLAYER

BOEN has grown to become one of the leading producers and suppliers of sports floors in the world, strongly focused on solutions using a natural wooden parquet surface layer. Also other alternatives, e.g. linoleum, PVC and rubber can be found in the wide range of BOEN Sport. You can be confident in the quality of our floors and have the security of investing in a long lasting product. The high quality parquet for BOEN Sport is made in Kietaviskés, Lithuania, and

Mölln, Germany. In addition to BOEN Sport's strong position in Europe, we are also gaining more and more of the markets in the East and Central Europe, the US, the Far East, Middle East, Australia and New Zealand.

## BOEN AND FIBA

BOEN Sport is an Equipment & Venue Centre Partner. All our floors are tested and have been awarded the FIBA Equipment & Venue Certificate. This means that BOEN SPORT quality is approved by 213 National Basketball Federations throughout the world and by the International Olympic Committee (IOC).

## PROFESSIONAL AND FRIENDLY

BOEN provide a professional and friendly service to all it's customers from specification planning, installation advice to cleaning advice for your new BOEN sports floor. We would very much like to help you with any questions you may have both before and after your requisition of one of our sports floors. Maybe you need help with measuring-up and court marking? Just ask – we are here just for you.

50  
YEARS OF  
BOEN SPORT

More information:  
[www.boensport.com](http://www.boensport.com)



# SOME REFERENCES



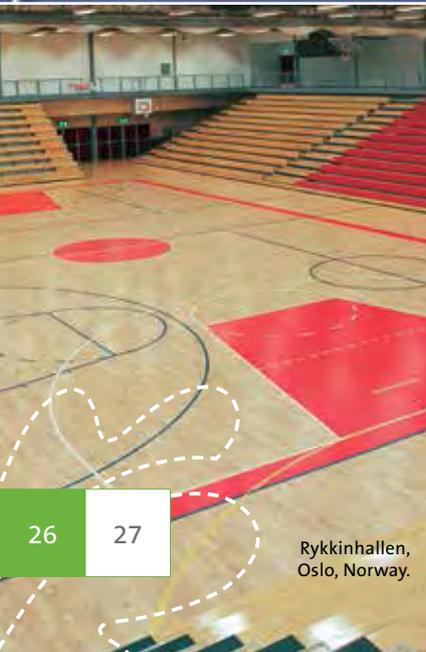
Sporthal Den Helder,  
The Netherlands.



HKIEd Jockey Club Primary School,  
Hong Kong.



National Tennis Centre, Wimbledon, UK.



Rykkinhallen,  
Oslo, Norway.

INSTALLATIONS NAME OF THE PROJECT	LOCATION	PRODUCT	TYPE OF CENTRE	M <sup>2</sup>
<b>BELGIUM</b>				
Sporthal Antwerpen	Antwerpen	Boflex Champion + PU top-layer	Multipurpose	1 600
Sporthal Lebbeke	Lebbeke	Boflex Stadium mix Merbau - Can.Maple	Handball	1 600
<b>CANADA</b>				
Paul Benoit	Vancouver, B.	Boflex Maple	Multipurpose	1 400
<b>DENMARK</b>				
Midtsjællands Efterskole	Hvalsø	Ash Scandic	Multipurpose	657
Fitness Center	Aalborg	Boflex Oak Finale	Fitness	195
Jyderup Fritidscenter	Jyderup	Boflex Champion	Multipurpose	570
<b>FINLAND</b>				
Salon keskuslukio, (Upper secondary school of sports)	Salo	Boflex Ash Special	Multipurpose	1 100
Metro-Auto Arena	Tampere	Boflex Ash Scandic	Multipurpose	469
Independence of the Seas	Cruise Ship	Boflex Oak Club	Aerobic	156
Diakonissalaitos, (Hospital)	Oulu	Boflex Oak Premier	Gym	126
Elixia Onkiniemenkatu	Tampere	Boflex Ash Scandic	Aerobic	424
<b>FRANCE</b>				
Gymnase Municipal	Hauteville Lompnes	Doubleflex Olympia Ash	Multipurpose	818
Gymnase St Claude	Besançon	Elastflex Stadium Beech	Multipurpose	1 050
Salle de sport J. Rosazza	Andernos Les Bains	Elastflex Olympia Oak	Multipurpose	1 107
UFR Staps Université Paris XIII	Bobigny	Elastflex Stadium Oak	Sports and fitness	1 377
Gymnase	Bègles	Boflex Champion	Multipurpose	1 114
Domyos Club de Sport	Marçq en Baroeul	Actiflex Oak	Training/ Aerobic	250
<b>GERMANY</b>				
Sporthalle Altes Armeegelände	Zittau	Boflex Stadium Oak	Sports	1 100
Business Tower	Limburg	Singleflex Stadium Oak	Fitness	170
Schulsporthalle	Bad Liebenwerda	Elastflex Olympia Oak	Sports	1475
Edelhelfer Sport	Mannheim	Actiflex Oak	Fitness	1 70
Waldorfschule	Rostock	Boflex Oak	Sports	250
<b>ASIA, HONG KONG</b>				
Bank of East Asia	Hong Kong	Boflex Maple	Multipurpose	170
Hotel Grand Lisboa	Macau	Singleflex Oak Tuscany	Multipurpose	390
California fitness Centre	Bangkok	Boflex Maple	Aerobic	300
Craigengower Cricket Club	Hong Kong	Boflex Beech and Boflex Oak	Multipurpose	520
University of Hong Kong	Hong Kong	Boflex Maple	Dance	180
<b>ICELAND</b>				
Tofta Skole	Færøyene	Beech Bellevue	Multipurpose	465
<b>ITALY</b>				
Gymnasium	Vittorio Veneto	Boflex Beech	Multipurpose	750
Palasport	Monteriggioni (Siena)	Doubleflex Beech	Multipurpose	1 420
Private Gymnasium	Rome	Boflex Oak	Multipurpose	830
Palasport	Gela	Singleflex Beech	Fitness	1 250
Palestra Gravitelli	Messina	Doubleflex Oak	Fitness	620
<b>KOREA</b>				
Canada British Columbia International School	Seoul	Arenaflex Oak	Gymnasium	300
<b>NEDERLAND</b>				
Sporthal en evenementenhal Den Helder	Den Helder	Singleflex + Taraflex Sport M	Basketball	1 060

To see our latest references please visit: [www.boensport.com](http://www.boensport.com)

INSTALLATIONS NAME OF THE PROJECT	LOCATION	PRODUCT	TYPE OF CENTRE	M <sup>2</sup>
<b>NORWAY</b>				
Sarpsborghallen	Sarpsborg	Boflex Champion + PU 2000	Multipurpose	3 200
Idrettshallen Nye Loen	Nærbø	Boflex Oak	Multipurpose	1 350
Studentsamskipnaden	Stavanger	Boflex Oak	Multipurpose	1 651
S.A.T.S Langenes	Tromsø	Boflex Oak	Aerobic	154
Langevåg Bygdatur	Bømlo	Boflex Stadium with Ash top-layer	Multipurpose	1 100
<b>POLAND</b>				
Hala Widowiskowo-Sportowa	Kwidzyn	Singleflex Stadium Beech	Multipurpose	1 800
<b>RUSSIA</b>				
Dynamo Sport center	St. Petersburg	Boflex Oak	Basketball	860
<b>SWITZERLAND</b>				
Paraplegiker Zentrum	Nottwil	Doubleflex Stadium Beech	Sports (2 built-in stages)	1 346
Freizeitanlage Vial	Domat-Ems	Boflex Champion	Multipurpose	1 200
Rekrutierungszentrum Rüti	Zürich	Boflex Champion	Multipurpose	1 773
Tanzhaus Zürich	Zürich	Singleflex	Dance	400
<b>UK</b>				
LTA- National Tennis Centre	Wimbledon, London	Boflex Champion + Greenset tennis coating	Tennis	4 000
Mansergh scout hall	London	Boflex Maple and BOEN Strongline	Multipurpose	450
National Sports Centre Bishams Abbey	Buckinghamshire	Boflex Beech	Multipurpose	600
City Academy Willesden	London	Boflex Oak	Sports, theatre, dance studio	1 300
<b>USA</b>				
Powerhouse Gym	Covington, GA	Boflex Ash	Aerobic	200
Paul Woody	6358 SE 26th, IA	Boflex Oak	Aerobic	200
Gold's/Virginia Beach	Virginia Beach, VT	Boflex Ash	Aerobic	210
S&C Karman Development	Edgerton, WI	Boflex Can. Maple	Multipurpose	1 500
St. Francis High School	Los Angeles, CA	Boflex Can. Maple	Multipurpose	850

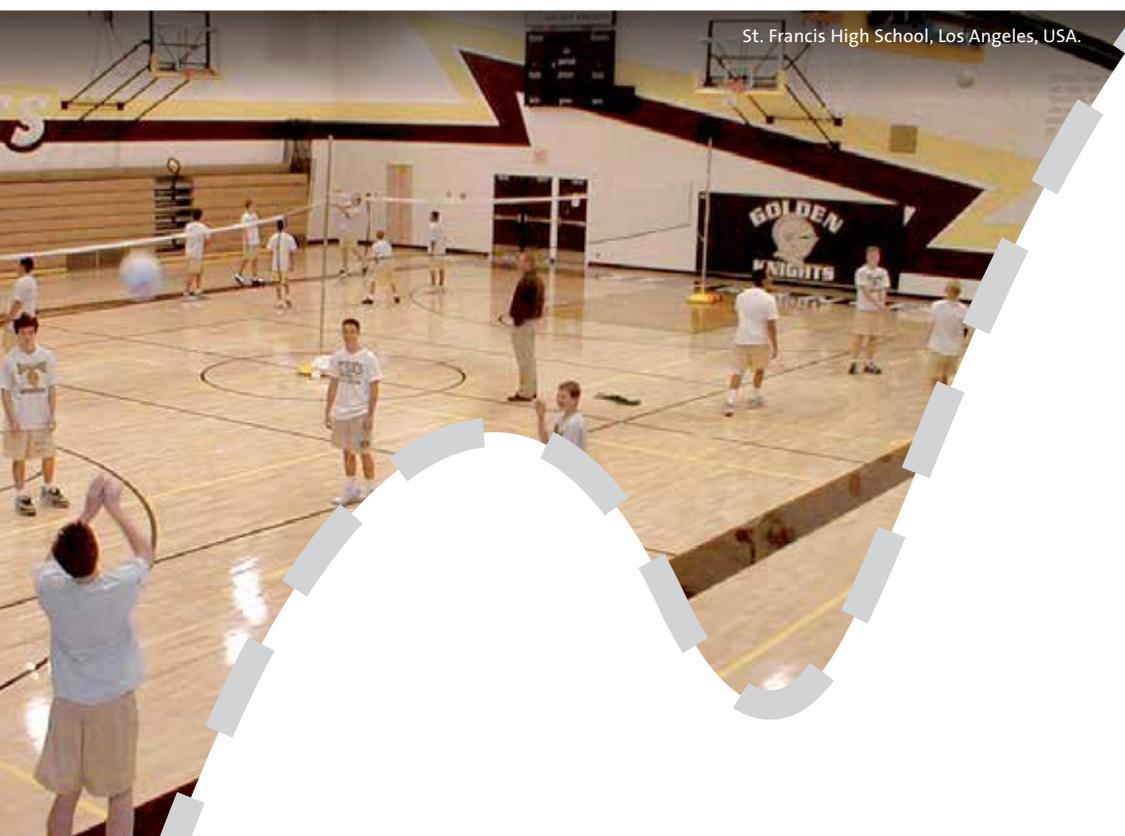
To see our latest references please visit: [www.boensport.com](http://www.boensport.com)



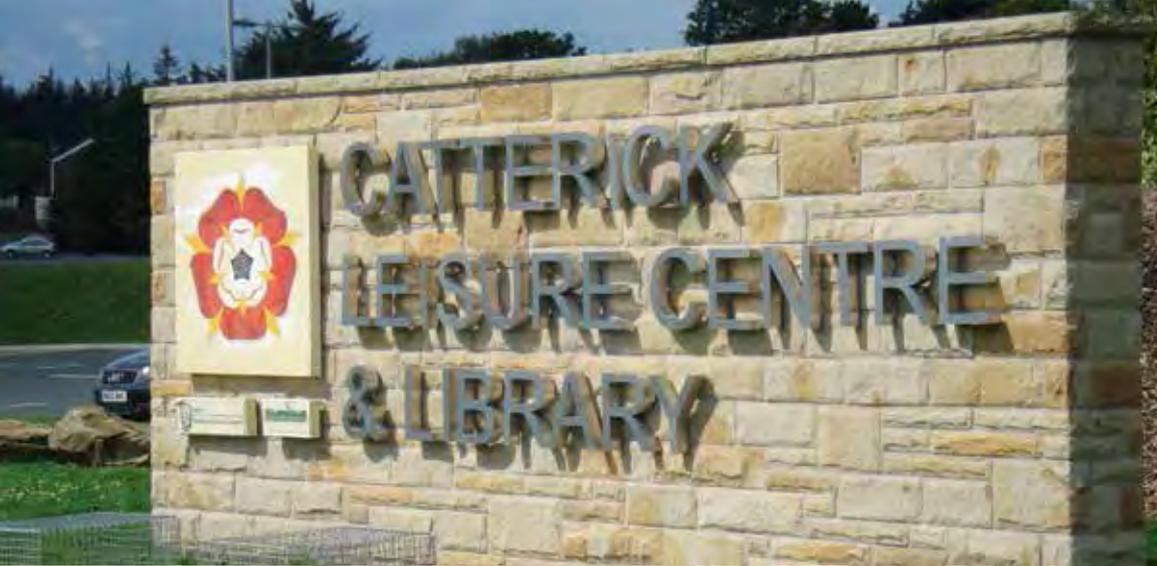
Flekkerøyhallen, Norway.



Sports hall Hohenbrunn, Germany.



St. Francis High School, Los Angeles, USA.



Catterick Leisure Centre, UK.



National Sports Centre, Bishams Abbey, UK.



Mulberry School, London, UK.



Palais des Sports, Haguenau, France.



Ellingsrud Fløridrettshall, Norway.



BOEN Sport delivers to fitness studios in Europe, e.g SATS, Spenset, Elixia, Nautilus. In the US, BOEN is the preferred supplier to Gold's Gym.

# PERFORMANCE QUICK GUIDE

	ACTIFLEX	SINGLEFLEX	ELASTFLEX	ARENAFLEX ELEVATION	BOFLEX
European Standard EN14904, Type A4					
FIBA certificate					
FSC™ MIX 70%					
New building or renovation with requirement of low building height					
New building or renovation with requirement of high building height					
Suitable for installation over underfloor heating system					
Uneven subfloor: no need of levelling					
Area up to 1500m <sup>2</sup> NB! For area above 1500m <sup>2</sup> contact our Sport Department	 Up to 300m <sup>2</sup>				
Rolling load min. 1500N ** The floor can withstand several tons of pressure without any damage being done.					 **
Apparatus fittings (volleyball, gymnastics, handball...)					
Quick installation					
Squash NB: Stadium top-layer					
Indoor tennis, indoor running tracks etc. NB: Champion sub-structure + Synthetic floor covering					



THE OAK LEAF IS THE ICON  
OF RELIABILITY AND QUALITY  
FOR ALL THOSE WHO LOVE SPORT



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-part of the game!

