



**BOEN**  
SPORT



**What's  
your venue?**

Studio & Gym  
Hotel & Health  
Education  
Arena

YOUR VENUE · YOUR FLOOR

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Palais des Sports, Haguenau, France.

# Your venue, your floor.

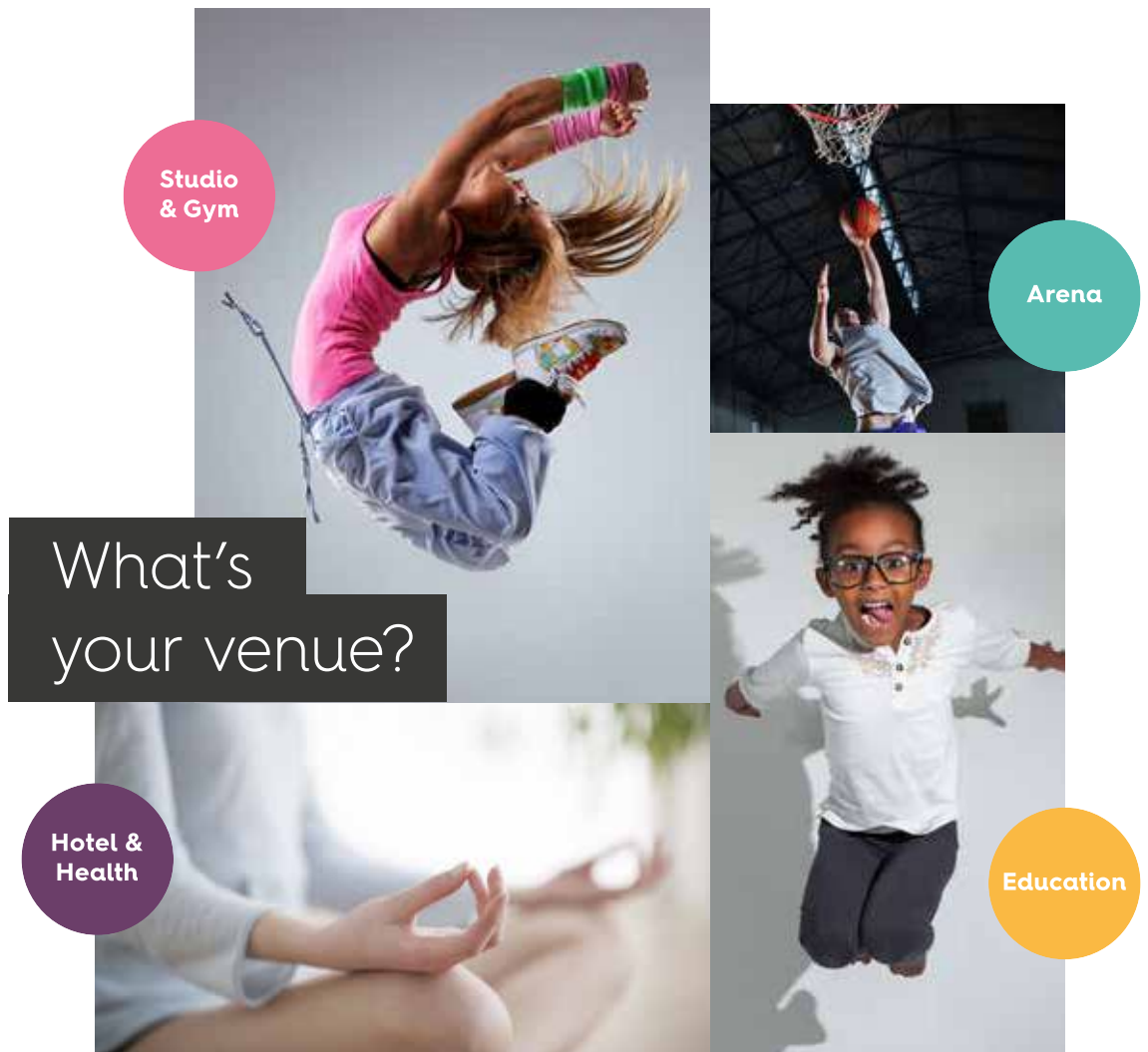
A durable and beautiful floor is the heart of any sports and recreational venue. In BOEN, we are dedicated to make hardwood floors that are made to match the specific needs and activities of your venue. Our floors are produced in Europe, and conform to the European standard EN14904.

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

Throughout this brochure, we will guide you to ensure you choose the floor solution with the right functionality and quality for your needs. In reality all the systems contained in this brochure can be used in virtually all locations, however we will guide you to the optimum functionality for your venue.

It all starts with your venue!

## BOEN Sport



# What's your venue?



Studio  
& Gym



Hotel &  
Health

## Studio & Gym

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A **studio or a gym** is the home of pulsating beats, passion and fun. A place where people come to challenge themselves. We know that the right atmosphere and comfort is crucial for a good workout. With our solutions you get the natural beauty of wood combined with high performance, flexibility and for room renovations a quick turnaround.

**Main activities such as:**

Aerobics, dance, yoga, karate and fitness.

**Recommended floors:**

**Actiflex / Boflex / Singleflex**

## Hotel & Health

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**Lower your pulse** and enter a venue of comfort and elegance. When aesthetics matter, the wooden surface creates a calm and natural atmosphere. Choose between several natural colours to create an experience that fits with the overall architecture and interior style of your hotel, spa or health centre.

**Main activities such as:**

Fitness rooms, Spa-area and rehabilitation centres.

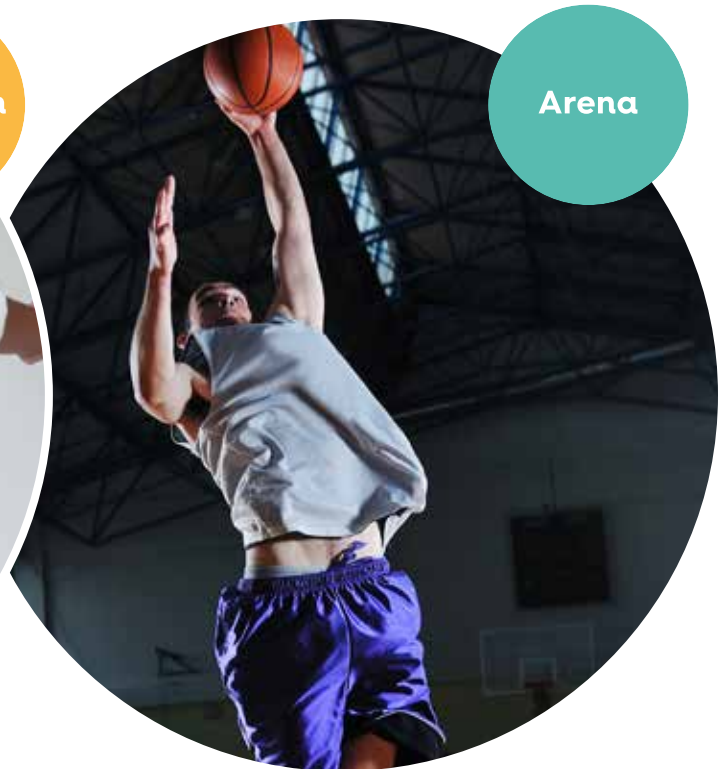
**Recommended floors:**

**Actiflex / Boflex**

We have identified four main venues to guide you to the floor solution that will provide the best performance for your specific needs. Important factors to consider are your main activities, size of the floor and elevation.



Education



Arena

## Education

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**Young children and active youths** deserve a sports venue that motivates, stimulates learning and playing. Part of growing up means testing out numerous different sports and activities, which requires a durable floor system optimised for multi-purpose use - from the PE class to the school play. A sports floor with good bounce, good friction and progressive shock absorption will care for students to enjoy sports and activities.

**Main activities such as:**

Sports, ball play, meetings, cultural events and other recreational activities.

**Recommended floors:**

**Boflex / Elastflex / Arenaflex / Doubleflex**

## Arena

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**A sports arena** is recognised by great experiences and a wide variety of events. Large open spaces require the extreme stability and heavy load strength offered by our premium hardwood floor systems. Sports floors that can also accommodate rolling loads, uneven levels of subfloor or different building heights - tailored to your needs.

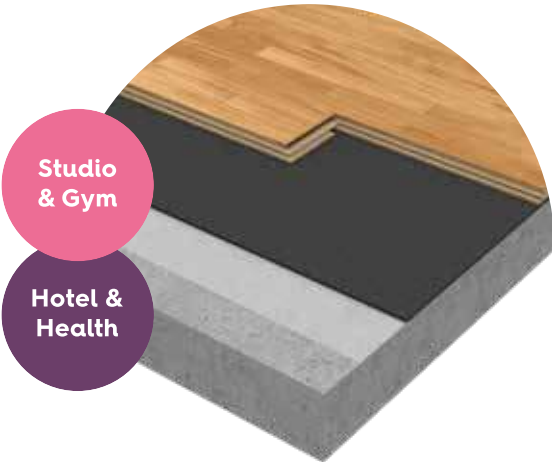
**Main activities such as:**

Professional sports events, high performance ball play, concerts, shows and fairs.

**Recommended floors:**

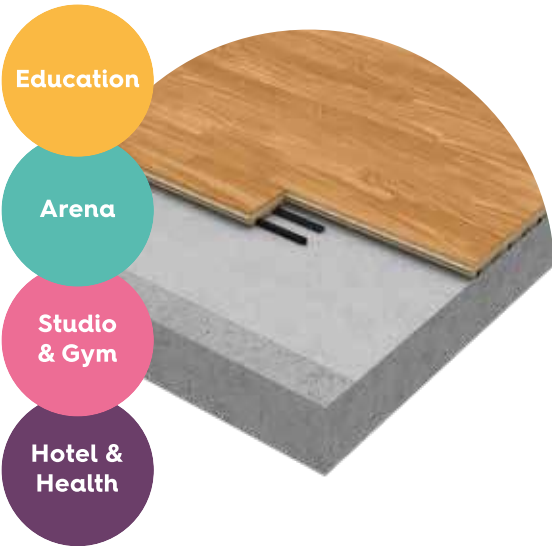
**Boflex / Elastflex / Arenaflex / Doubleflex**

# Find the right floor



## Actiflex - page 8

When flexibility and comfort is key, and you need a quick turnaround when renovating, Actiflex is the right choice. This floor system provides deformation for greater flexibility, the well known 5G Click locking technology guarantees fast and secure installation. It is easy to extend, pick-up and relocate - without any special tools. That is why Actiflex is ideal for fitness gyms, dance studios and in private gyms at home.



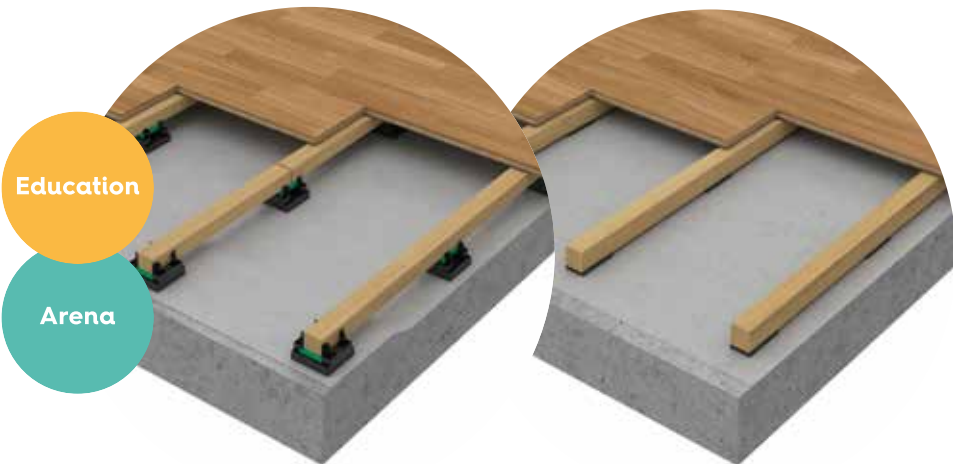
## Boflex - page 10

The premium floor system for high level performance. With unique progressive shock absorption, Boflex offers uniform performance for adult professionals as well as young athletes. The construction can withstand an almost unlimited weight load and is extremely stable.



Elevation

Flexbat



## Arenaflex - page 12

### Arenaflex Elevation

When building heights matter, this is your floor system. Arenaflex is designed for venues with different building heights and the uneven levels of a subfloor. It combines rigidity and comfort, which makes it versatile and practical for arenas and sports halls.

**Arenaflex Flexbat** is an area-elastic engineered sports floor offering a combination of rigidity and comfort suitable for sports halls, dance halls, gymnasiums and recreation halls.

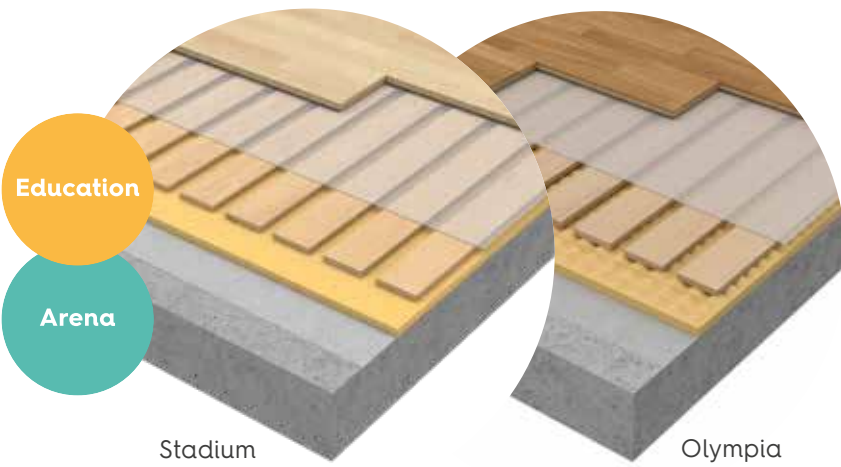




Studio & Gym

### Singleflex - page 16

When height is an issue, Singleflex is the levelling solution needed. It is especially developed for different building heights and uneven levels of subfloor. With a wide choice of colours available, it is the perfect combination of functionality and looks. Singleflex is also the preferred choice for Squash courts, meeting the World Squash Federation's requirements. Singleflex is suitable for a variety of elastic surfaces.



Education

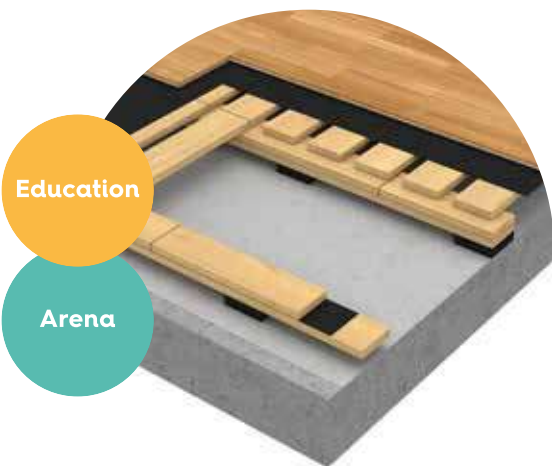
Arena

Stadium

Olympia

### Elastflex - page 18

Elastflex is a floor solution for multi-purpose usage and is ideal for large arenas and venues. Elastflex ensures a low floor elevation, offers a wide choice of colours and suitable for a variety of elastic layers.



Education

Arena

### Doubleflex - page 20

When height is an issue, Doubleflex is the levelling solution needed. It is especially developed for different building heights and uneven levels of subfloor. With a wide choice of colours available, it is the perfect combination of functionality and looks.



## Functionality



Weight Load \*



Low Floor Elevation



Floor Heating



Additional Colour Choice



Suitable for elastic layer



Uneven Sub-Floor



Variable Heights



Quick and Easy



No Tool Required

\* Refer to loading guidance on page 27.

Studio  
& Gym

Hotel &  
Health

Ultimate comfort

Aesthetic

Flexible

Natural

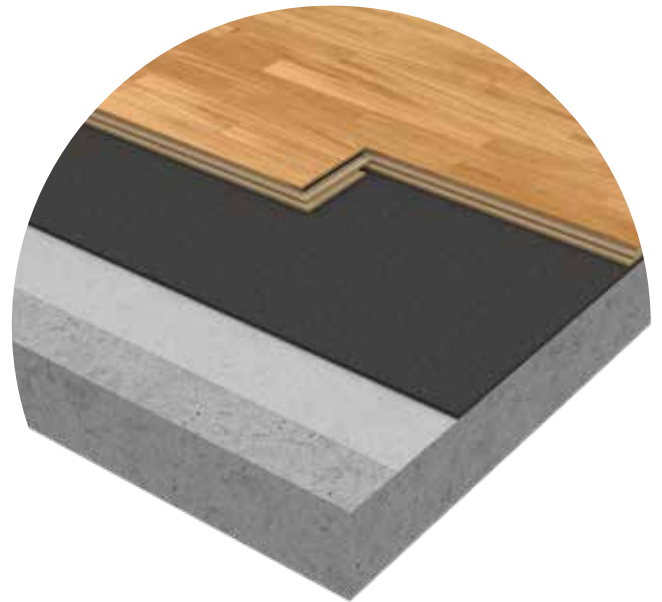




# Actiflex

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When flexibility and comfort is key, and you need a quick turnaround when renovating, Actiflex is the right choice.



**Actiflex** is an area elastic sports floor with high deformation for greater flexibility and comfort. It has a resilient foam for optimum energy and sound absorption - ideal for a studio or gym.

When you have limited time to renovate your venue, Actiflex offers short installation time. The 5G Click locking technology ensures a fast and secure installation with a perfect result - no specialist tools are required.

**Actiflex** must be installed on an even and self-supporting subfloor or on top of an existing floor. It is also easy to extend, pick-up and relocate.

**Actiflex** can also be produced in a spectrum of colours in 215mm format to create a visually calm and comfortable atmosphere. Details on request.

Maximum floor size: 600m<sup>2</sup>

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm

Building height: 29mm

## Key benefits:

Quick and easy installation

Greater deformation for flexibility

5G Click locking technology

Wide range of natural colours

No specialist tools required

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## Recommended for:

Studio & Gym

Hotel & Health

Private Homes



Low Floor  
Elevation



Additional  
Colour Choice



Quick and  
Easy



No Tool  
Required

Education

Arena

Studio  
& Gym

Hotel &  
Health

Competitive edge

Performance

Bounce

Energy



# Boflex

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The ultimate sports floor with progressive shock absorption for high-level performance.

**Boflex** carries the unique combination of a built-in shock absorption material and a stable construction that can withstand almost unlimited loads. This makes the floor system ideal for venues with multi-purpose usage and large arenas. The uniform performance suits children as well as adults, with good bounce and friction. Even after twenty years, Boflex performs as day one.

**Boflex** offers flexibility to accommodate your needs. Due to its extremely low building height, it is well suited for renovation purposes. The floor system is suitable with underfloor heating, for rolling loads and allows both hardwood and elastic surfaces. Boflex must be installed on an even and self-supporting subfloor, or on top of an existing floor.

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm  
Building height: 28mm

### Olympia

Top-layer: 5.5mm  
Building height: 30mm

### Champion

Top-layer: Ready for a variety of elastic layers.  
Building height: 26mm



## Key benefits:

Progressive shock absorption

Almost impossible to overload

High-level performance

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## Recommended for:

Education

Arena

Studio & Gym

Hotel & Health



Weight Load



Low Floor Elevation



Floor Heating



Suitable for elastic layer

Education

Arena



Versatile

Durable

Practical

# Arenaflex ELEVATION

When building heights matter, Arenaflex is your ultimate floor system.

**Arenaflex** is designed for venues with different building heights and uneven levels of a subfloor. This area-elastic sports floor offers a combination of rigidity and comfort, which makes it versatile and practical for sports halls, gymnasiums and recreation halls.

**Arenaflex Elevation** System is a resilient hardwood floor laid onto a highly durable cradle system. It is suitable for installation with underfloor heating systems and insulation.

**Arenaflex** is suitable for new constructions as well as renovation. In addition, construction time can be reduced as no levelling compound or similar is needed. Arenaflex is easy to handle and transport as it is delivered in practical pre-cut and fixed lengths.

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm

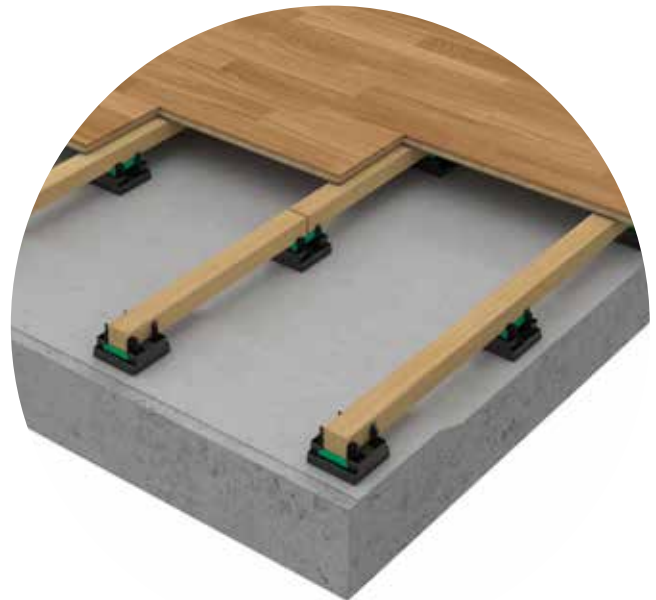
Building height: 77mm - 147mm

### Olympia

Top-layer: 5.5mm

Building height: 75mm - 145mm

For greater building heights contact the BOEN team.



## Key benefits:

Ideal for uneven sub-floors

Easy to handle

Possible to incorporate insulation & Underfloor heating

## Recommended for:

Education

Arena



Weight Load



Floor Heating



Uneven Sub-Floor



Variable Heights

Education

Arena



A4

Durable

Cost effective

# Arenaflex FLEXBAT

When building heights matter,  
Arenaflex is your ultimate floor system.



**Arenaflex Flexbat Stadium**, the multi-purpose sports floor.

**Arenaflex Flexbat** is an area-elastic engineered sports floor offering a combination of rigidity and comfort suitable for sports halls, dance halls, gymnasiums and recreation halls.

The parquet (21mm or 23mm) are installed on top of BOEN Flexbat Battens which incorporate foam pads providing the deformation and shock absorption needed according to European Standard EN14904.

Produced to production CE standard EN14342 and suitable for installation over underfloor heating and available in 3-strip European Oak, Beech, Ash and Canadian Maple all pre-finished with sports lacquer.

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm  
Building height: 71mm or 83mm

### Olympia

Top-layer: 5.5mm  
Building height: 69mm or 81mm

## Key benefits:

Easy to handle

Possible to incorporate insulation  
& Underfloor heating

Fixed floor height

## Recommended for:

Education

Arena



Weight  
Load



Floor  
Heating

Studio  
& Gym



Uniformity

Response

Squash finish

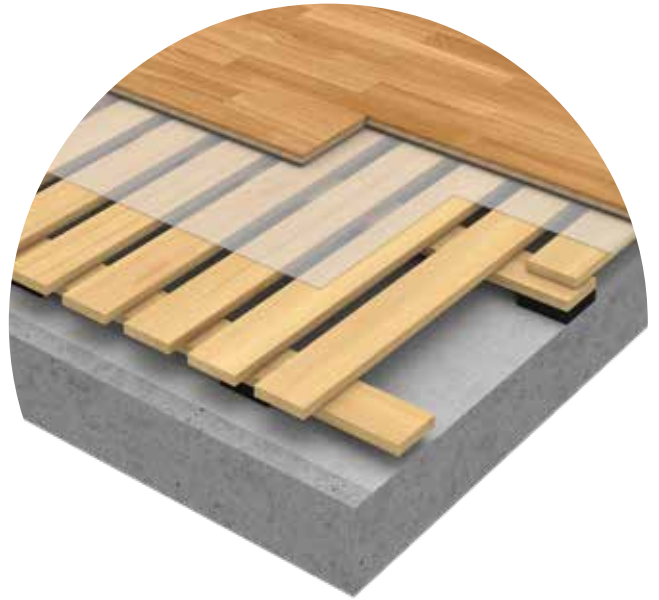
Functionality & looks



# Singleflex

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When height is an issue, Singleflex is the levelling solution needed.



**Singleflex** is especially developed for different building heights and uneven levels of subfloor. With a wide choice of colours available, it is the perfect combination of functionality and looks.

**Singleflex** is a sports system topped with beautiful, natural hardwood. It is available for elastic top layer.

Whether your venue has different building heights or uneven levels of surface, Singleflex provides levelling opportunities.

**Singleflex** is also the preferred choice for Squash courts, meeting the World Squash Federations requirements. The hardwood floor system offers the right combination of bounce and friction to accommodate for the tough impact on the athletes body.

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm  
Building height: 66mm

### Olympia

Top-layer: 5.5mm  
Building height: 73mm

## Key benefits:

Ideal for squash courts

Levelling opportunities

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## Recommended for:

Squash courts

Studio & Gym



Weight  
Load



Floor  
Heating



Additional  
Colour Choice



Uneven  
Sub-Floor



Variable  
Heights

Education

Arena

Extremely strong

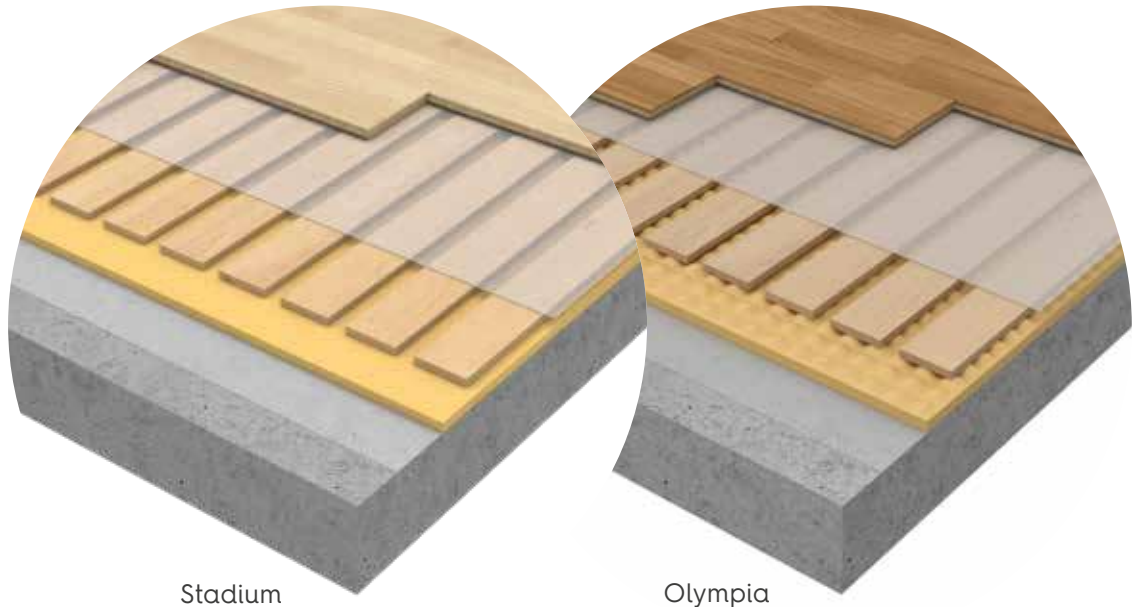
Active

Elastic

Multiple colours

# Elastflex

Ideal for very large buildings with low elevation.



**Elastflex** is an area-elastic floor for multipurpose usage. An elastic layer and a load distribution layer of plywood makes it ideal for very large installations of several thousand metres.

**Elastflex** ensures a low building height, and offers different thickness of surfaces to suit your needs. In addition, the floor system has good sound absorption. It is also available for a variety of elastic layers.

**Elastflex** can be installed on an even and self-supporting subfloor, or on top of an existing floor.

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm  
Building height: 38mm

### Olympia

Top-layer: 5.5mm  
Building height: 50mm

## Key benefits:

Low building height

Good sound absorption

Ideal for very large venues

## Recommended for:

Education

Arena



Weight  
Load



Low Floor  
Elevation



Additional  
Colour Choice

Education

Arena

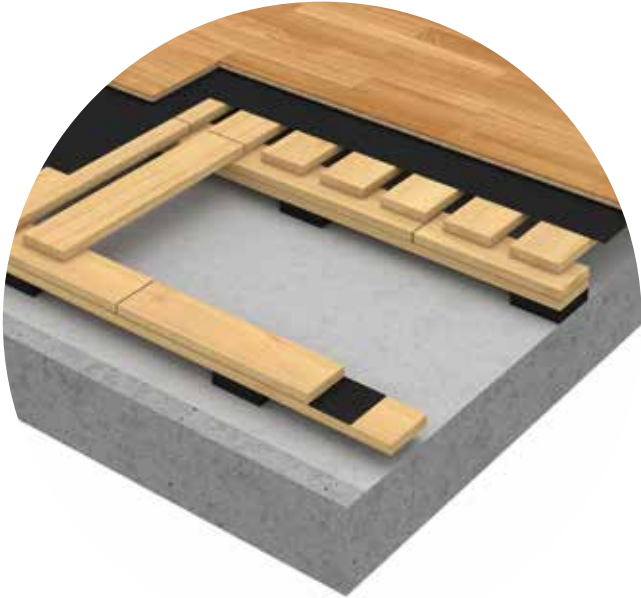
Versatile

Response

Multiple colours

# Doubleflex

When height is an issue, Doubleflex is the levelling solution needed.



**Doubleflex** is especially developed for different building heights and uneven levels of subfloor. With a wide choice of colours available, it is the perfect combination of functionality and looks.

**Doubleflex** is a sports system topped with beautiful, natural hardwood.

Whether your venue has different building heights or uneven levels of surface, Doubleflex provides levelling opportunities.

### AVAILABLE OPTIONS:

**Stadium**  
Top-layer: 3.5mm  
Building height: 76mm

**Olympia**  
Top-layer: 5.5mm  
Building height: 83mm

### Key benefits:

- Levelling opportunities
- Double swing beam
- High building height
- Possible to use floor heating

### Recommended for:

- Education
- Arena



Weight Load



Floor Heating



Additional Colour Choice



Uneven Sub-Floor



Variable Heights

# References

*Nantes The Dance Studio, France*  
*Floor: Actiflex, 250m<sup>2</sup>*

Founded in 2005 by Myriam Hauray, the school "The Dance Studio" was re-opened in September 2013 in the new location. "Thanks to Actiflex, my students train in comfort and safety". Myriam Hauray-Sérot. Actiflex offers the right atmosphere and comfort, crucial elements for a dance studio. After multiple searches of good flooring for the three dance rooms, the owners chose Actiflex with a natural Oak surface instead of laminate, originally considered.

**Studio  
& Gym**



**Hotel & Health**

*Sopwell House Hotel, UK*  
*Floor: actiflex, 99m<sup>2</sup>*

With its contemporary decor and Japanese elements Sopwell House offers peace and tranquillity for guests giving them the chance to unwind, reflect and recoup in a stunning location. Actiflex is installed in the Fitness Studio. The 99m<sup>2</sup> of wooden floor create a calm and natural atmosphere. The guests can enjoy the training section and experience some of the finest leisure, health and beauty facilities in Hertfordshire



Further references can be found at  
[boensport.com](http://boensport.com)

## Education

*Allerton High School, UK*  
*Floor: Arenaflex, 1300m<sup>2</sup>*

As part of the UK Governments school building project BOEN Arenaflex Beech was chosen to be installed in the brand new high school opened in 2008 enabling young people to develop team work and achieve success. Arenaflex Elevation, with its resilient hardwood floor laid onto a highly durable cradle system, was suitable for installation with underfloor heating systems and insulation.



## Arena

*Flekkeroyhallen, Norway*  
*Floor: Boflex, 1100m<sup>2</sup>*

In 2005 Boflex was chosen for this multi-purpose usage venue. From early the morning with PE activities to late in the evening with professional athletes training, this arena of 1100m<sup>2</sup> has a high traffic and usage. Municipality allocates in the venue also fairs and big arrangements during the weekend. The construction can withstand an almost unlimited weight load and is extremely stable. The uniform performance suits children as well as adults, with good bounce and friction. After 10 years the floors looks still new.



## Arena

*Lta National Tennis Centre, Wimbledon, UK*  
*Floor: Boflex Champion, 4000m<sup>2</sup>*

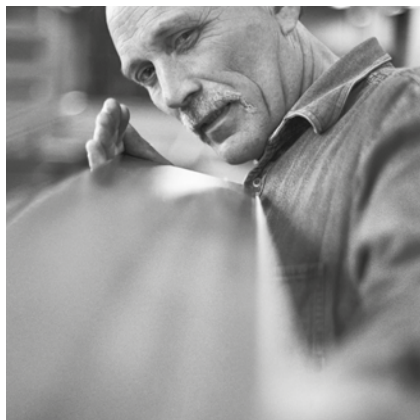
Six indoor tennis courts covering more than 4000m<sup>2</sup>, with Boflex Champion sub-structure & Greenset tennis coating. Officially opened by the Queen on 24th of March, 2008, this venue will be the official training centre for top British professional tennis players.



# The beauty of wood

In all its beauty, wood is a product of nature. Each tree offers a unique look that brings a lively, yet soothing atmosphere to a room or arena.

Furthermore, wood is a solid and comfortable material which performs along with the performers. From the young, growing athletes, to professional adults - wood supports every step with just the right bounce and flexibility. Wood is a highly durable material, and with the right care it looks as good as new after 20 years. Moreover, it is available in a variety of colours to suit your style and preferences.



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 organisations. 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 recognised certification schemes.

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.

## Environment friendly - guaranteed stability

### WHY CHOOSE MULTILAYER HARDWOOD FLOORS?

BOEN multi-layer hardwood flooring is always an environment friendly decision. Compared with solid floors, multilayer hardwood flooring needs less slow growing hardwood. The amount of hardwood that is needed to manufacture one solid floor is sufficient for six multilayer hardwood floors.

### NATURAL HARDWOOD TOP LAYER

There is a variety of wood types available for the top layer. The various surface treatments underline and accentuate the grain of the wood, each in their own unique way.

### MIDDLE LAYER

The middle layer consists of carefully selected wooden slats from quickly replenishable spruce trees. Vertical or semi-vertical annual growth rings ensure a high level of dimensional stability.

### BOTTOM LAYER

The bottom layer is made from a single piece of spruce veneer and ensures a stable counter draw.





# Surface finish



## T79 Sport Lacquer

Formulated for the easy application of additional protective coats, where applicable.



## Squash Finish

Factory finished to a 60 grit finish. Available in Oak, Ash and Beech within all Stadium systems. Sanded to a 60 grit finish, 1 coat of primer and 2 coats of top-finish.

## Additional colour choice

BOEN sports systems marked with this icon are also available in a much wider range of colours, contact BOEN Sport for further information.



**Additional  
Colour Choice**

# Wood species



Ash



Canadian Maple



Beech



Oak

# Our Certificates



The mark of  
responsible forestry

*Please, look for our  
FSC™-certified  
products.*

FSC™ (Forest Stewardship Council) is a global non-profit organization, which promotes worldwide environmentally appropriate, socially beneficial, and economically viable management of the world's forests. Products with FSC™-label ensure this. In addition, FSC™-certified

products are controlled along the whole supply chain in order to separate it from non-certified wood.

Please look for our FSC™-certified products. They are made from wood sourced from responsibly managed forests and other controlled sources. The FSC™-trademark

ensures that the wood has been harvested in a responsible way for animals, people and the environment. Buying such products helps to save our forests.

BOEN Sport flooring products are all delivered with FSC™-certificate. More information you find on: [www.fsc.org](http://www.fsc.org).



The Real Wood logo is administered exclusively by authorised manufacturers belonging to the European Federation of the Parquet Industry (FEP). The decision in favour of real wood has ecological benefits.

# Practical information

## Maintenance

Your new BOEN sports floor will continue to give excellent training conditions for many generations to come. If the floor is 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.

## Underfloor heating

BOEN sports flooring is an ideal floor covering for placing on top of under-floor heating systems having favourable thermal resistance properties.

A well-functioning under-floor heating system, hot water or electrical, results in ideal thermal distribution throughout the area to be heated, giving maximum comfort. It is therefore necessary for the floor-covering to have good thermal conductivity, i.e. low resistance to heat transmission. There are many different types of under-floor heating systems available, e.g. electric cable, hot water pipes and low voltage foils, the majority of which can be used together with BOEN Sports flooring.

\*Beech and Canadian Maple are not ideally suited for use with underfloor heating, gaps may appear.

Thickness	Thermal Resistance	Thermal Conductivity
14mm	0.10m <sup>2</sup> k/w	0.13 W/mk
21mm Olympia	0.15m <sup>2</sup> k/w	0.20 W/mk
23mm Arenaflex	0.16m <sup>2</sup> k/w	0.21 W/mk
28mm Boflex Stadium	0.16m <sup>2</sup> k/w	0.21 W/mk
30mm Boflex Olympia	0.18m <sup>2</sup> k/w	0.23 W/mk

## Bona SuperSport system

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



### TIP!

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

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

# EN14904 - European standard

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	80 - 110	≥ 90%	Min. 1500N
<b>Boflex</b>	STADIUM	58%		2.6mm	86	98%	OK
	OLYMPIA	56%		2.3mm	89	99%	OK
	CHAMPION	63%		3.2mm	-	92%	OK
<b>Actiflex</b>	STADIUM	61%		3.3mm	87	97%	OK
<b>Elastflex</b>	STADIUM	65%		3.7mm	102	94%	OK
	OLYMPIA	61%		2.8mm	104	92%	OK
	CHAMPION	57%		3.3mm	-	96%	OK
<b>Singleflex</b>	STADIUM	60%		2.6mm	102	96%	OK
	OLYMPIA	59%	2.2mm		104	94%	OK
	ATHLETIC**	62%		3.1mm	-	97%	OK
<b>Arenaflex Elevation</b>	STADIUM	64%		3.1mm	100	93%	OK
	OLYMPIA	66%		3.4mm	88	91%	OK
<b>Arenaflex Flexbat</b>	STADIUM	66%		3.4mm	100	92%	OK
	OLYMPIA	64%		3.4mm	88	91%	OK
<b>Doubleflex</b>	STADIUM	63%		3.2mm	102	92%	OK
	OLYMPIA	64%		2.5mm	104	93%	OK

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 3.5mm for Type 3 floors and 5mm 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.

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.

\*\* Test according to DIN18032

## Loading general guidance

It is advised that when employing heavy loads such as scissor lifts or heavy mobile bleacher seating on a BOEN Sport floor it is highly recommended to use in combination with load distribution layer such as plywood to avoid surface damage that may occur.

## Unique squash surface

- FOR ALL BOEN SPORT SYSTEMS

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 all 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 approved World Squash Federation Accreditation in conjunction with Courtwall Innovation, who satisfied the requirements of the WSF Accreditation Scheme.

### Special rough surface for optimal friction:

Sanded to a 60 grit finish, 1 coat of primer and 2 coats of top-finish.

## BOEN and FIBA

We are proud to present our FIBA Certificate containing the Boen Sport systems that have been tested and awarded the FIBA Approved Equipment Level 1, this means that these systems are approved for use by the 213 National Basketball Federations around the world and the International Olympic Committee (IOC).



# TECHNICAL DATA

# Boflex

## STADIUM

Building height: 28mm  
 Board: 28 x 137 x 2200mm  
 (incl. 5mm Evazote Foam)  
 Format: 2-strip  
 €€



Weight Load



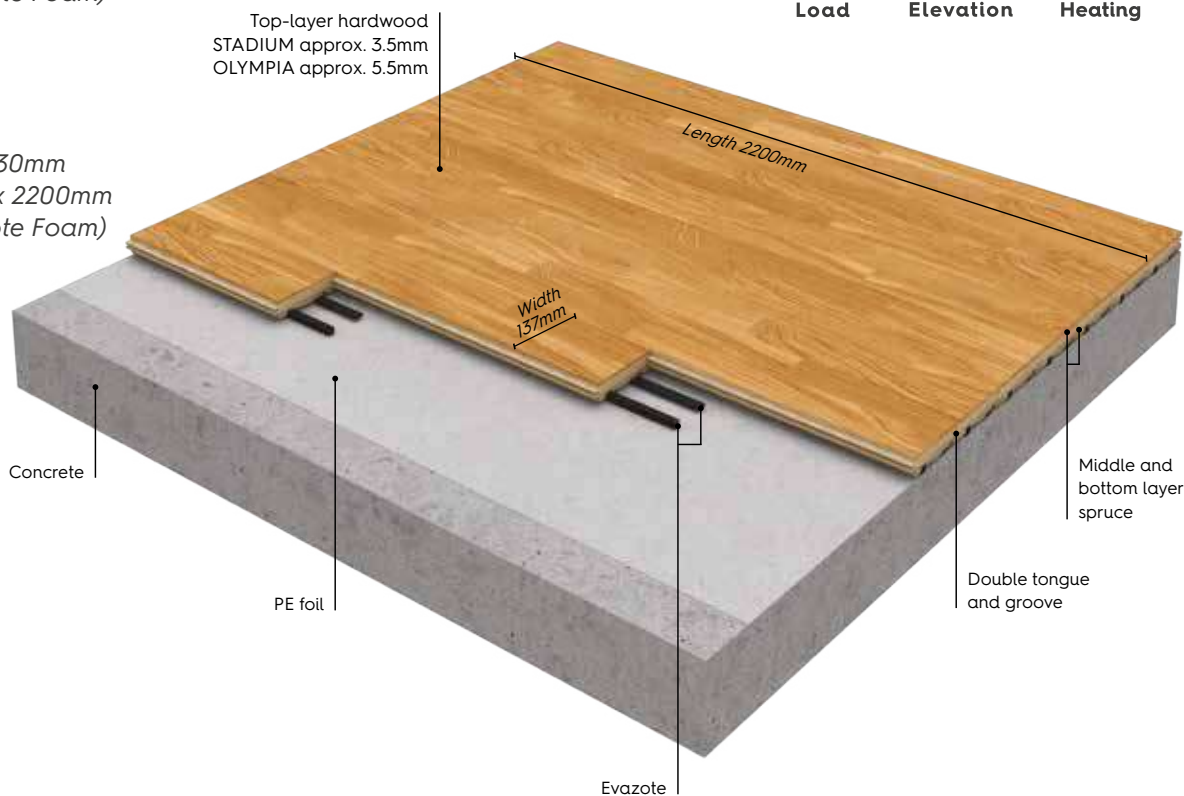
Low Floor Elevation



Floor Heating

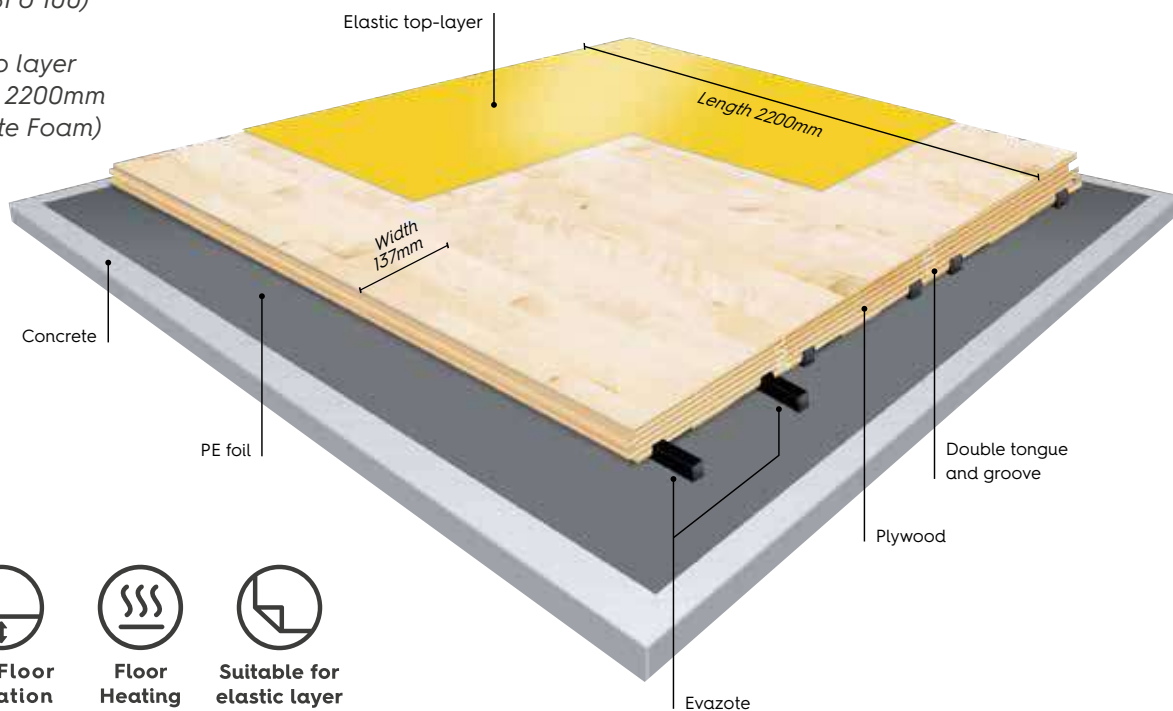
## OLYMPIA

Building height: 30mm  
 Board: 30 x 137 x 2200mm  
 (incl. 5mm Evazote Foam)  
 Format: 2-strip  
 €€



## CHAMPION

(Birch Plywood, BFU 100)  
 Building height:  
 26mm without top layer  
 Board: 26 x 137 x 2200mm  
 (incl. 5mm Evazote Foam)  
 Format: 15 Ply  
 €€



Weight Load



Low Floor Elevation



Floor Heating



Suitable for elastic layer

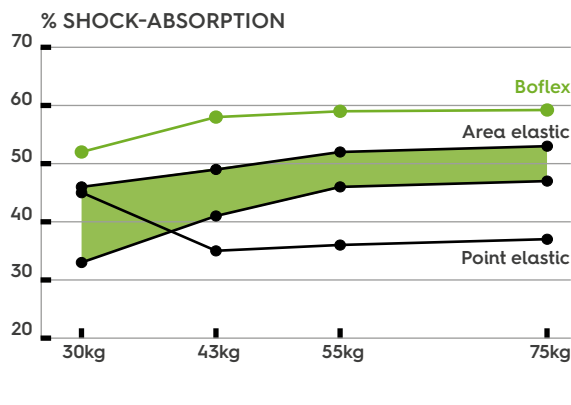
### PROGRESSIVE SHOCK ABSORPTION

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

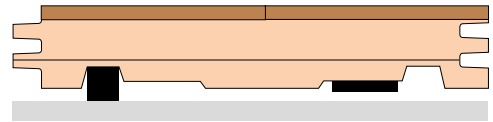
BOEN Sport has developed special installation equipment that ensures the correct application of adhesive and effective installation of the floor. Experience shows that a sports complex of approximately 1000m<sup>2</sup> can be installed in 4-5 days by 3 persons.



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.

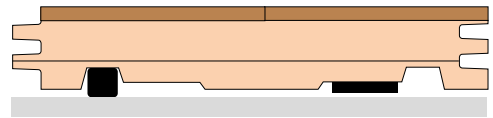
### LOADING CAPACITY:

#### NON-LOADED



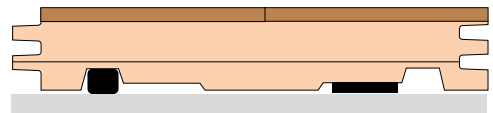
The parquet rests on each alternate Evazote strip

#### LIGHT LOAD



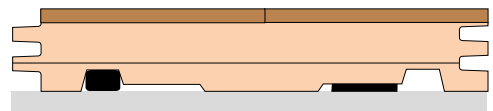
The parquet rests on each alternate Evazote strip

#### 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.

Performance according to EN14904		Shock absorption		Deformation		Friction	Ball bounce	Rolling load
		TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
Boflex	STADIUM		58%		2.6mm	86	93%	OK
	OLYMPIA		56%		2.3mm	89	99%	OK
	CHAMPION		63%		3.2mm	-	92%	OK

## TECHNICAL DATA

# Arenaflex ELEVATION

### STADIUM

Building height: 77-147mm

Board: 23 x 215 x 2200mm

Format: 3-strip

€€



Weight Load



Floor Heating



Uneven Sub-Floor



Variable Heights

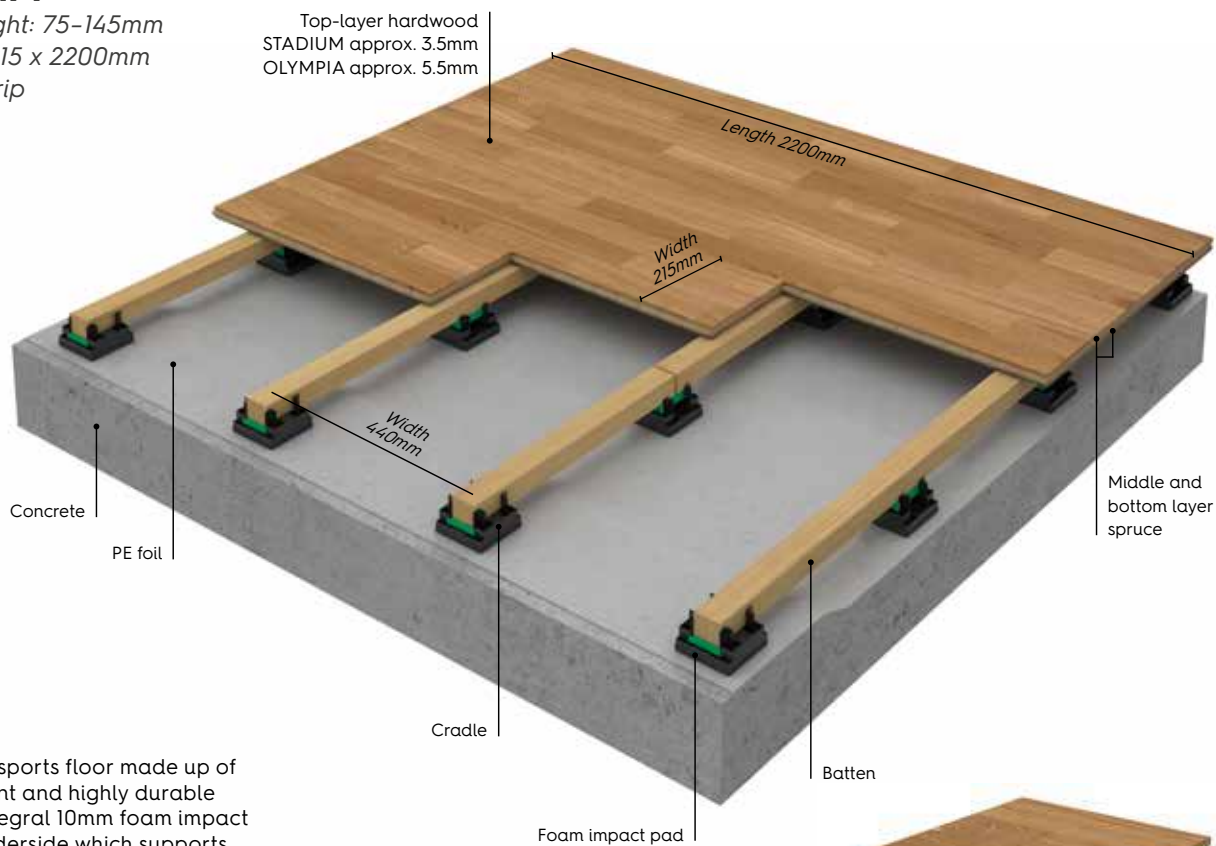
### OLYMPIA

Building height: 75-145mm

Board: 21 x 215 x 2200mm

Format: 3-strip

€€

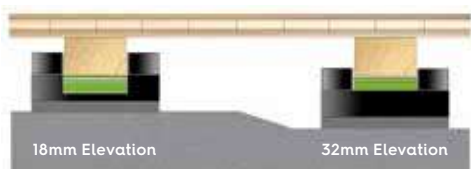


Arenaflex is a sports floor made up of impact-resistant and highly durable cradles. An integral 10mm foam impact pad on the underside which supports softwood battens.

CRADLE	ELEVATION	ELEVATION
E1	18mm	32mm
E2	47mm	62mm

Using cradles with varying sizes of batten, construction heights between 75mm and 147mm can be achieved. Further solutions are available for heights above 147mm if required.

Contact BOEN Sport.



Performance according to EN14904		Shock absorption		Deformation		Friction	Ball bounce	Rolling load
		TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
Arenaflex Elevation	STADIUM		64%		3.1mm	100	93%	OK
	OLYMPIA		66%		3.4mm	88	91%	OK

## TECHNICAL DATA

# Arenaflex FLEXBAT

### STADIUM

Building height: 71 or 83mm

Board: 23 x 215 x 2200mm

Format: 3-strip

€€



Weight Load



Floor Heating

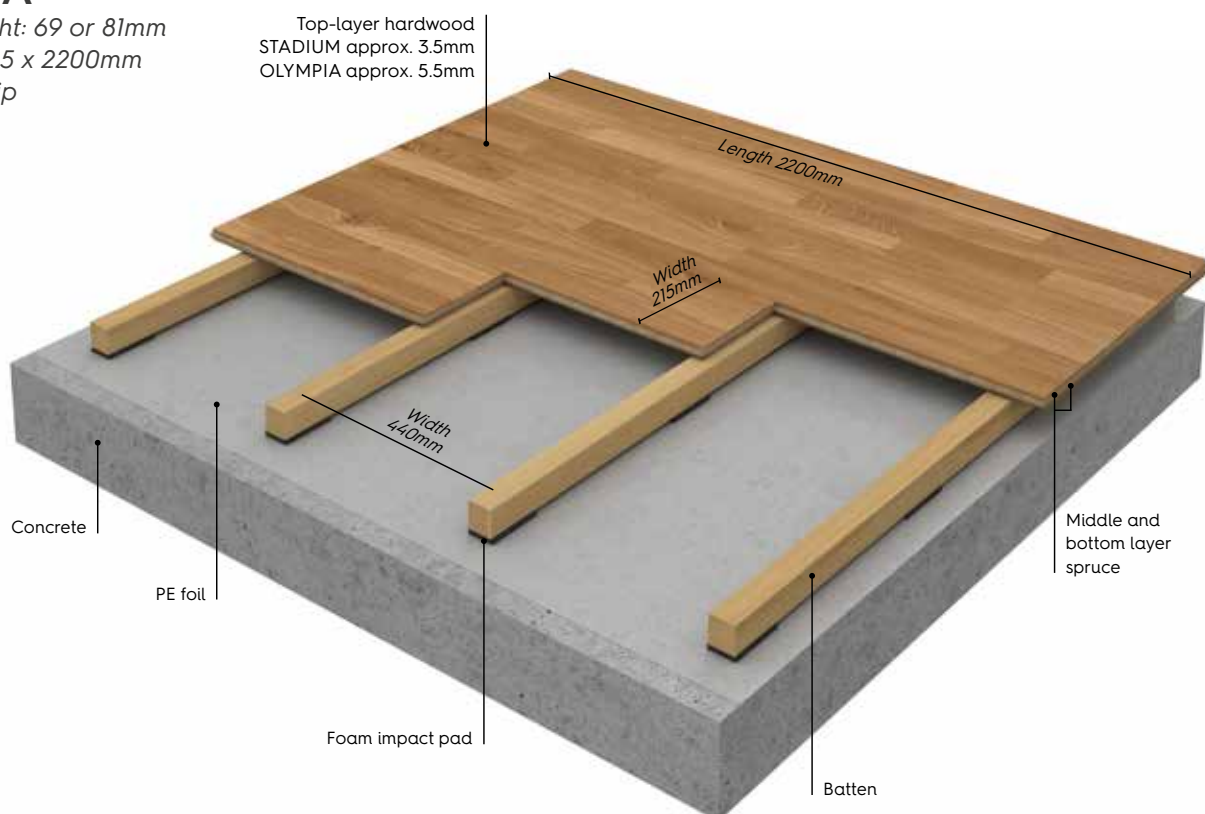
### OLYMPIA

Building height: 69 or 81mm

Board: 21 x 215 x 2200mm

Format: 3-strip

€€



Performance according to EN14904		Shock absorption		Deformation		Friction	Ball bounce	Rolling load
		TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
Arenaflex Flexbat	STADIUM		66%		3.4mm	100	92%	OK
	OLYMPIA		64%		3.4mm	88	91%	OK

## TECHNICAL DATA

# Actiflex

### STADIUM

Building height: 29mm

Board: 14 x 215 x 2200mm + HDF board 7mm

Format: 3-strip

Maximum floor size: 600 m<sup>2</sup>

CE



Low Floor  
Elevation



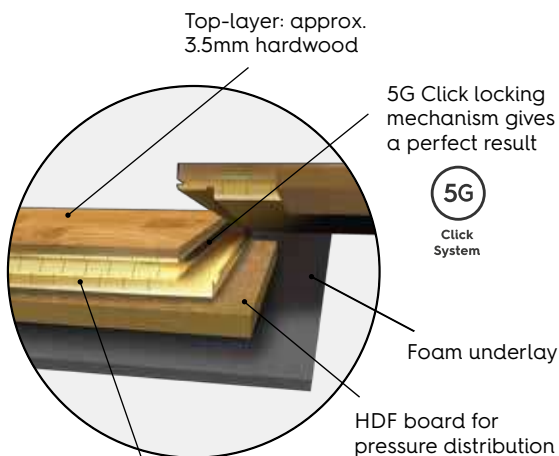
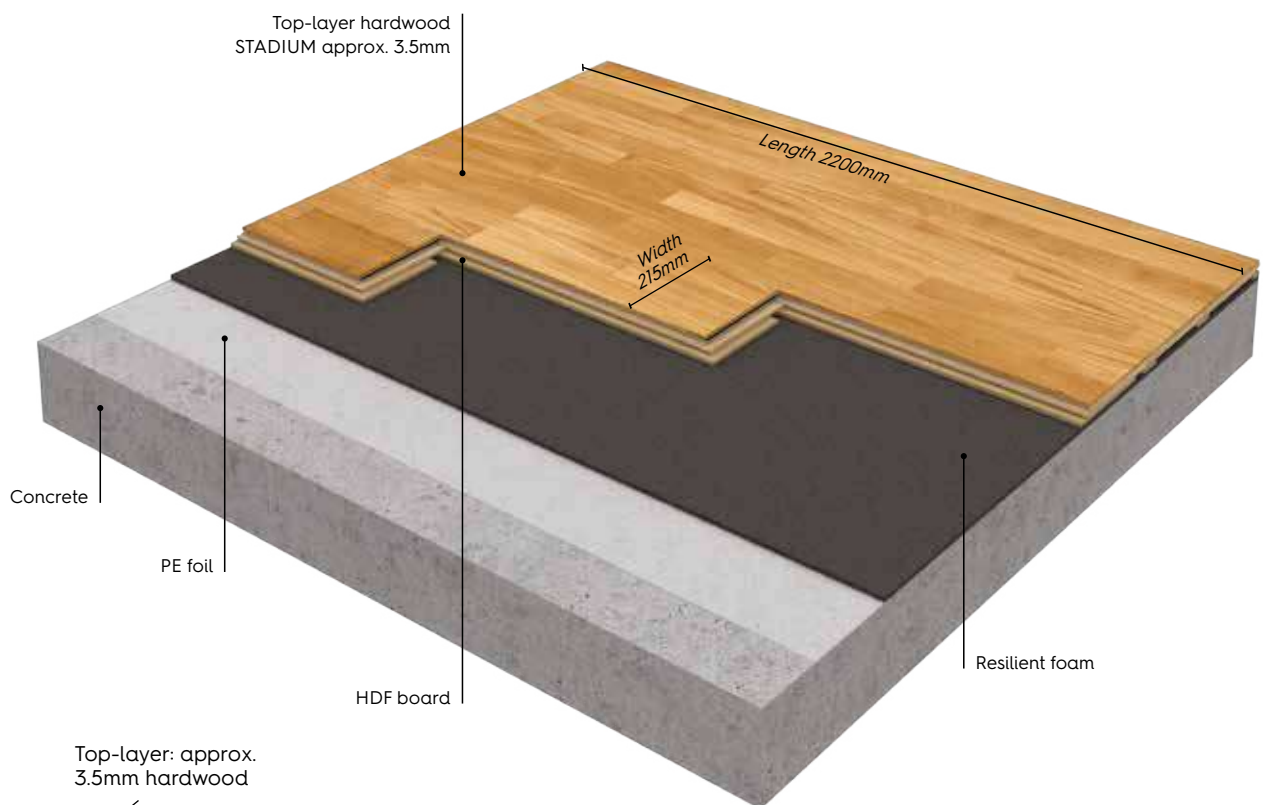
Additional  
Colour Choice



Quick and  
Easy



No Tool  
Required



Middle- and Bottom-layer:  
Spruce softwood – engineered  
hardwood construction

- ▶ A quicker and easier way to install single boards without tools
- ▶ Significantly reduces installation time
- ▶ The clear Clic sound lets you know when installation is complete

Performance according to EN14904	Shock absorption		Deformation		Friction	Ball bounce	Rolling load
	TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
<b>Actiflex</b> STADIUM		61%		3.3mm	87	97%	OK



# TECHNICAL DATA

# Elastflex

## STADIUM

Building height: 38mm  
 Board: 14 x 215 x 2200mm  
 Format: 3-strip  
 €€



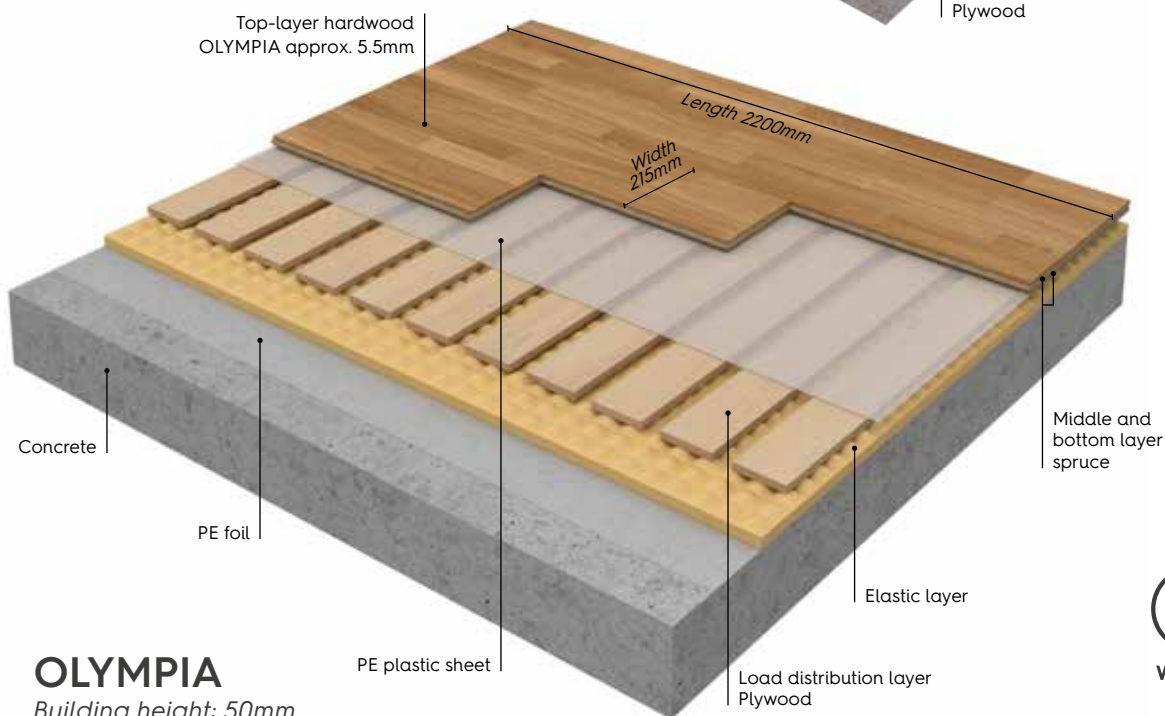
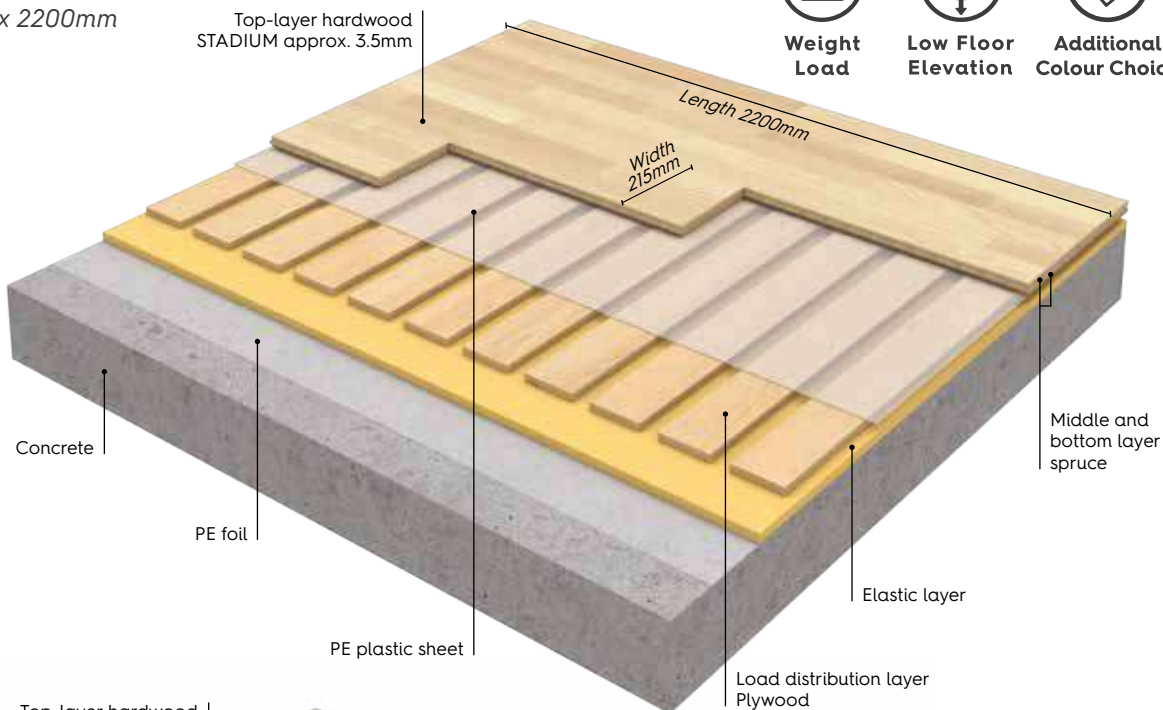
Weight Load



Low Floor Elevation



Additional Colour Choice



Weight Load



Low Floor Elevation

## OLYMPIA

Building height: 50mm  
 Board: 21 x 215 x 2200mm  
 Format: 3-strip  
 €€

Performance according to EN14904	Shock absorption		Deformation		Friction	Ball bounce	Rolling load
	TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
<b>Elastflex</b> STADIUM		65%	3.7mm		102	94%	OK
OLYMPIA		61%	2.8mm		104	92%	OK

## TECHNICAL DATA

# Singleflex

### STADIUM

Building height: 66mm  
 Board: 14 x 215 x 2200mm  
 Format: 3-strip  
 €€



Weight Load



Floor Heating



Additional Colour Choice



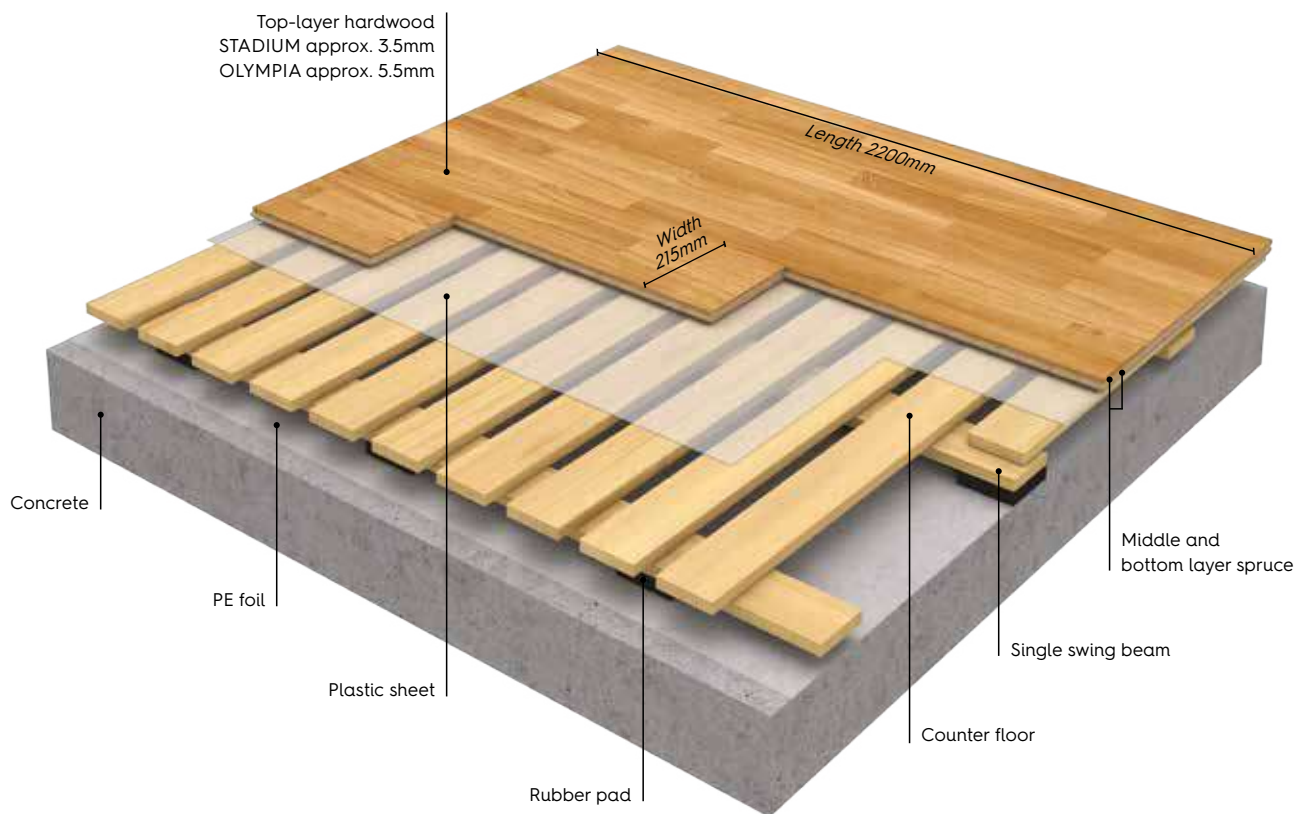
Uneven Sub-Floor



Variable Heights

### OLYMPIA

Building height: 73mm  
 Board: 21 x 215 x 2200mm  
 Format: 3-strip  
 €€



Performance according to EN14904		Shock absorption		Deformation		Friction	Ball bounce	Rolling load
		TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
Singleflex	STADIUM		60%		2.6mm	102	96%	OK
	OLYMPIA		59%	2.2mm		104	94%	OK

## TECHNICAL DATA

# Doubleflex

### STADIUM

Building height: 76mm  
 Board: 14 x 215 x 2200mm  
 Format: 3-strip  
 €€



Weight Load



Floor Heating



Additional Colour Choice



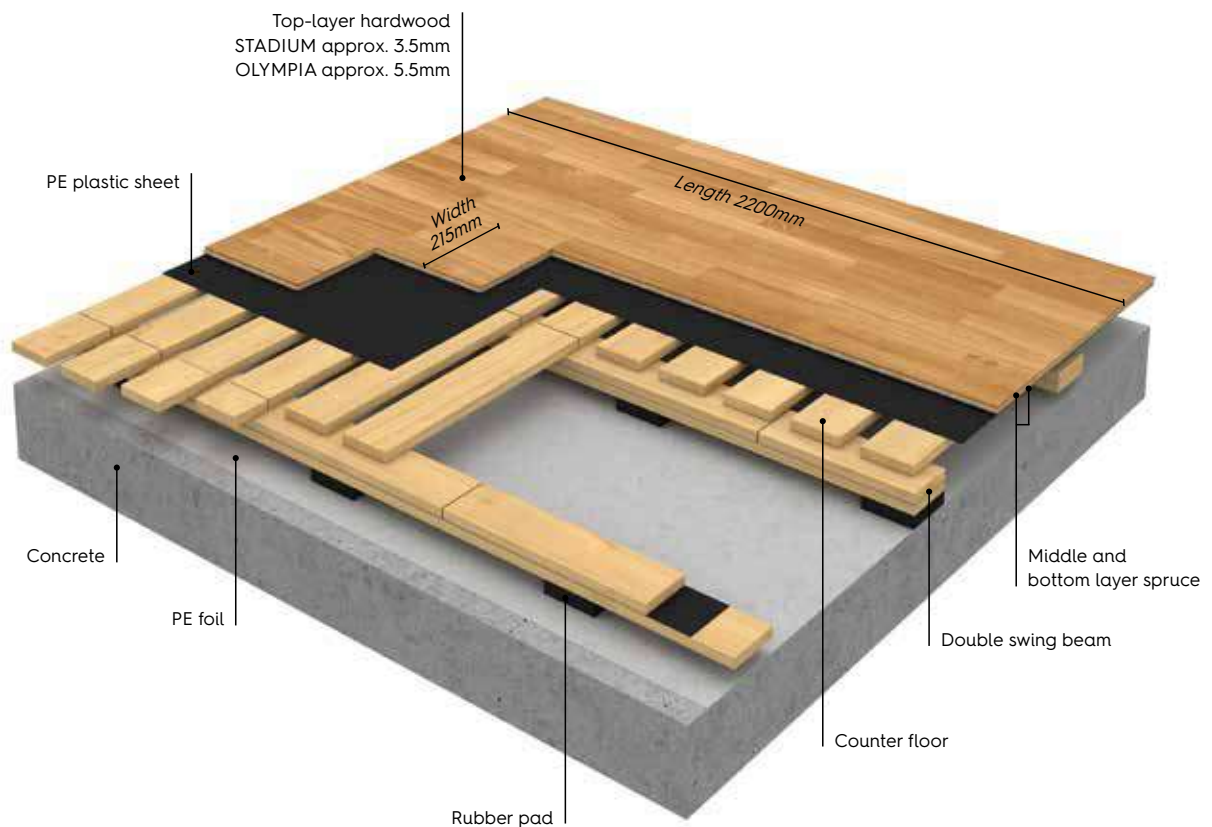
Uneven Sub-Floor



Variable Heights

### OLYMPIA

Building height: 83mm  
 Board: 21 x 215 x 2200mm  
 Format: 3-strip  
 €€



Performance according to EN14904	Shock absorption		Deformation		Friction	Ball bounce	Rolling load
	TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
Doubleflex	STADIUM	63%		3.2mm	102%	92%	OK
	OLYMPIA		64%	2.5mm	104	93%	OK



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or contact us

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