

A woman with long blonde hair, wearing a pink tank top, light blue sweatpants, and colorful sneakers, is captured mid-air performing a backflip. She has pink and green wristbands on her wrists. Her hair is flying around her head. The background is a plain, light grey wall. The bottom of the image shows a wooden floor.

# WHAT'S YOUR VENUE?

A vertical line with a white dot at the top and bottom, positioned to the left of the venue list.

STUDIO & GYM  
HOTEL & HEALTH  
EDUCATION  
ARENA



# WHAT'S YOUR VENUE?



STUDIO & GYM



HOTEL & HEALTH

## STUDIO & GYM

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.

**Venue size:**

Small and medium

**Recommended floors:**

**ACTIFLEX / BOFLEX**

## HOTEL & HEALTH

**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.

**Venue size:**

Small and medium

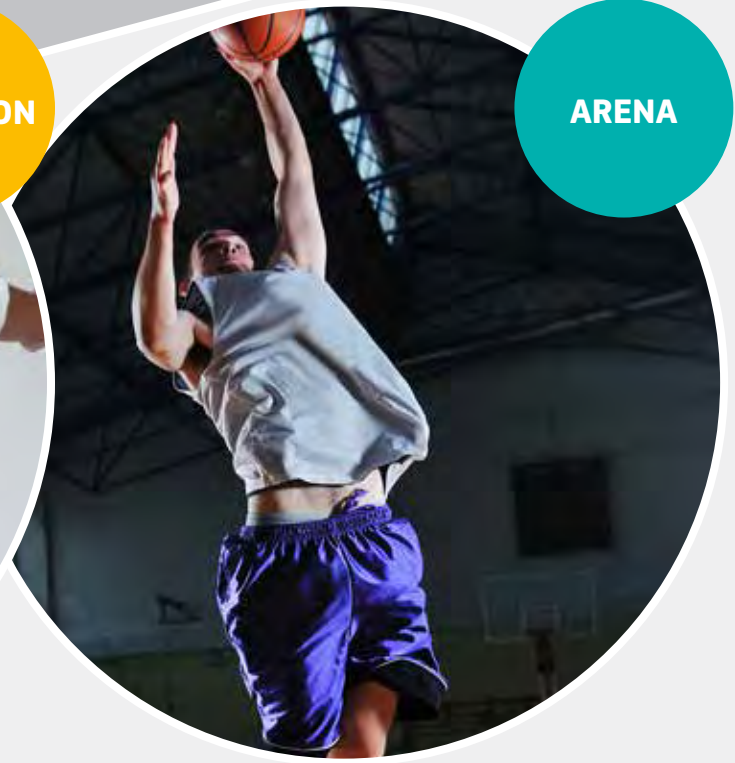
**Recommended floors:**

**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

**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.

**Venue size:**

Small, medium and large

**Recommended floors:**

**BOFLEX / ARENAFLEX**

## ARENA

**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 sub-floor or different building heights – tailored to your needs.

**Main activities such as:**

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

**Venue size:**

Medium and large

**Recommended floors:**

**BOFLEX / ARENAFLEX**

# FIND THE RIGHT FLOOR



STUDIO & GYM

HOTEL & HEALTH

## 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, BOEN's X-press 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.



EDUCATION

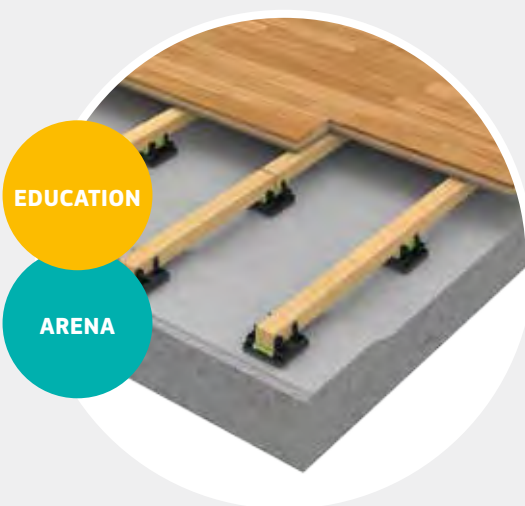
ARENA

STUDIO & GYM

HOTEL & HEALTH

## 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.



EDUCATION

ARENA

## ARENAFLEX - available in the US upon request

When building heights matters, 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. The durable cradle system is ideal for incorporating insulation and reduces pre-construction time.





## 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

### 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.

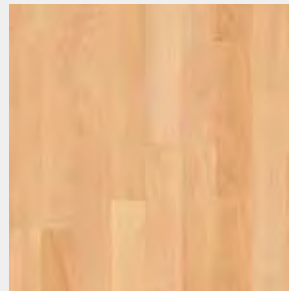
## WOOD SPECIES



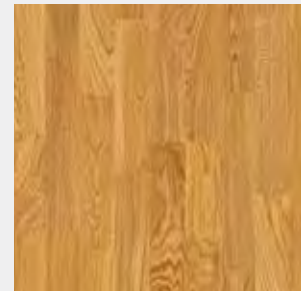
Ash



Can Maple



Beech



Oak

## ENVIRONMENTAL CREDENTIALS



Across the globe, *the Forest Stewardship Council™, FSC™*, promotes an approach to forest management that is environmentally appropriate, socially beneficial and economically viable. The companies within the BOEN Group have implemented a chain-of-custody system in accordance with the standards of the FSC and are able to supply FSC-certified products. BOEN supplies products with the FSC Mix label. We hold the following licences: BOEN Bruk (Norway) FSC™ C051117, BOEN Parkett Deutschland (Germany) FSC™ C101713, BOEN Lietuva (Lithuania) FSC™ C021510, BOEN UK FSC™ C047288, BOEN US FSC™ C095158. [www.fsc.org](http://www.fsc.org), FSC – The mark of responsible forestry.

*Rainforest Alliance* makes high demands on purchasers, manufacturers and land owners in order to achieve a sustainable approach to forest management worldwide.

*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 owes ecological benefits. To manufacture, work and store wood one need considerably less energy than for other materials.

Products with the *Der blaue Engel* (Blue Angel) seal of quality contain very low levels of emissions in order to ensure a healthy indoor climate.

**STUDIO  
& GYM**

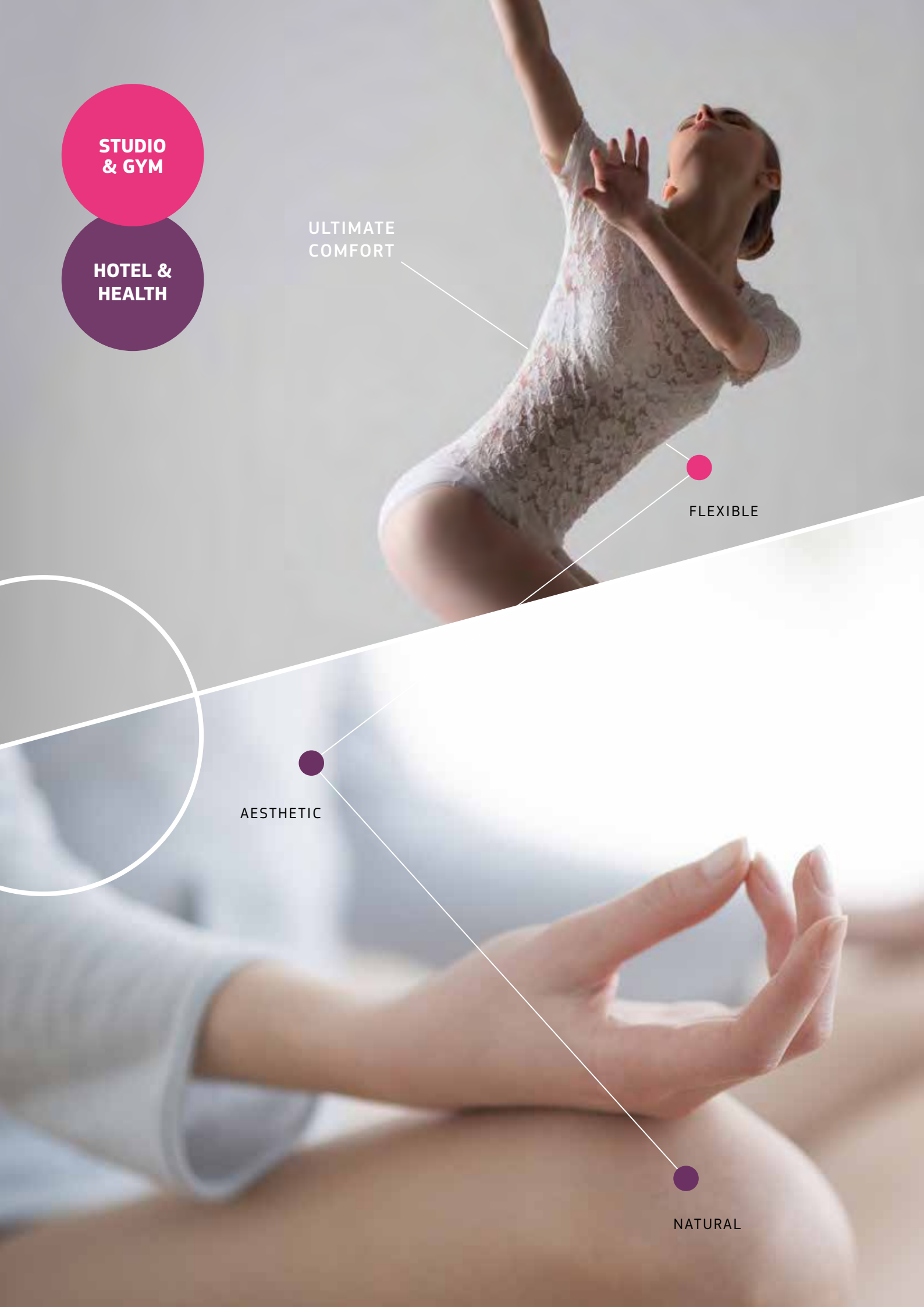
**HOTEL &  
HEALTH**

ULTIMATE  
COMFORT

FLEXIBLE

AESTHETIC

NATURAL



# ACTIFLEX

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 BOEN X-press 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 sub-floor 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.

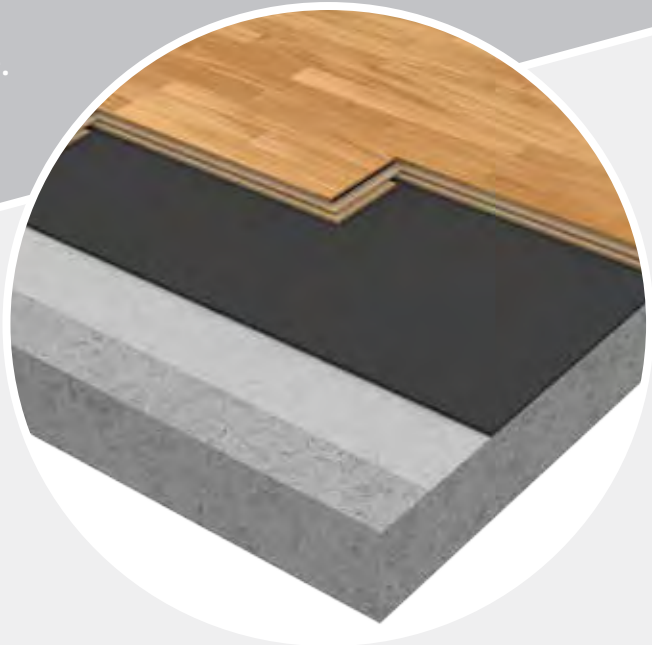
Maximum floor size: 600m<sup>2</sup>

## AVAILABLE OPTIONS:

### Stadium

Top-layer: 3.5mm

Building height: 29mm



## KEY BENEFITS:

- QUICK AND EASY INSTALLATION
- GREATER DEFORMATION FOR FLEXIBILITY
- BOEN X-PRESS LOCKING TECHNOLOGY
- WIDE RANGE OF NATURAL COLOURS
- NO SPECIALIST TOOLS REQUIRED

## RECOMMENDED FOR:

- STUDIO & GYM
- HOTEL & HEALTH
- PRIVATE HOMES



LOW FLOOR  
ELEVATION



ADDITIONAL  
COLOUR  
CHOICE



QUICK AND EASY



NO TOOLS  
REQUIRED

TECHNICAL DATA

# ACTIFLEX



LOW FLOOR ELEVATION



ADDITIONAL COLOUR CHOICE



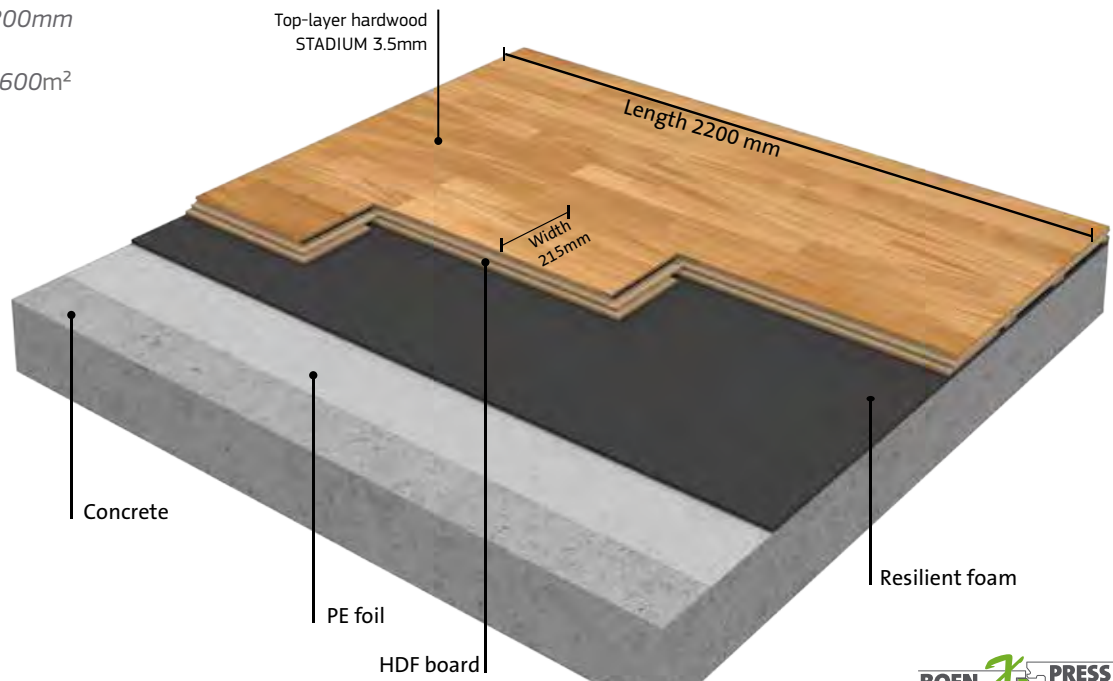
QUICK AND EASY



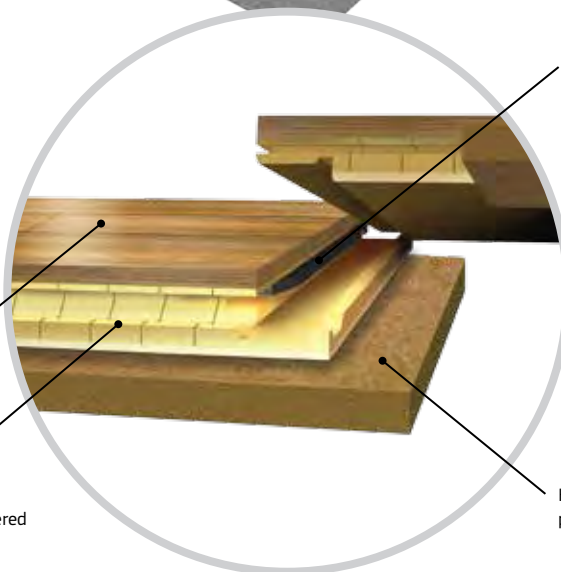
NO TOOLS REQUIRED

## STADIUM

Building height: 29mm  
 Board: 14 x 215 x 2200mm  
 Format: 3-Strip  
 Maximum floor size: 600m<sup>2</sup>  
 €€



- 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



BOEN X-press 5G locking mechanism gives a perfect result

Top-layer:  
ca. 3.5mm hardwood

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

HDF board for  
pressure distribution

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			
Actiflex	STADIUM		61%	3.8mm	86	95%	OK



**STUDIO  
& GYM**

**FUNCTIONALITY  
& LOOKS**

**UNIFORMITY**

**RESPONSE**

**SQUASH FINISH**



**EDUCATION**

**ARENA**

**STUDIO & GYM**

**HOTEL & HEALTH**



**COMPETITIVE  
EDGE**

**PERFORMANCE**



**BOUNCE**

**ENERGY**

# BOFLEX

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 sub-floor, 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

## RECOMMENDED FOR:

EDUCATION  
ARENA



WEIGHT LOAD



LOW FLOOR  
ELEVATION



FLOOR HEATING



SUITABLE FOR  
ELASTIC LAYER



TECHNICAL DATA

# BOFLEX



WEIGHT LOAD



LOW FLOOR ELEVATION



FLOOR HEATING



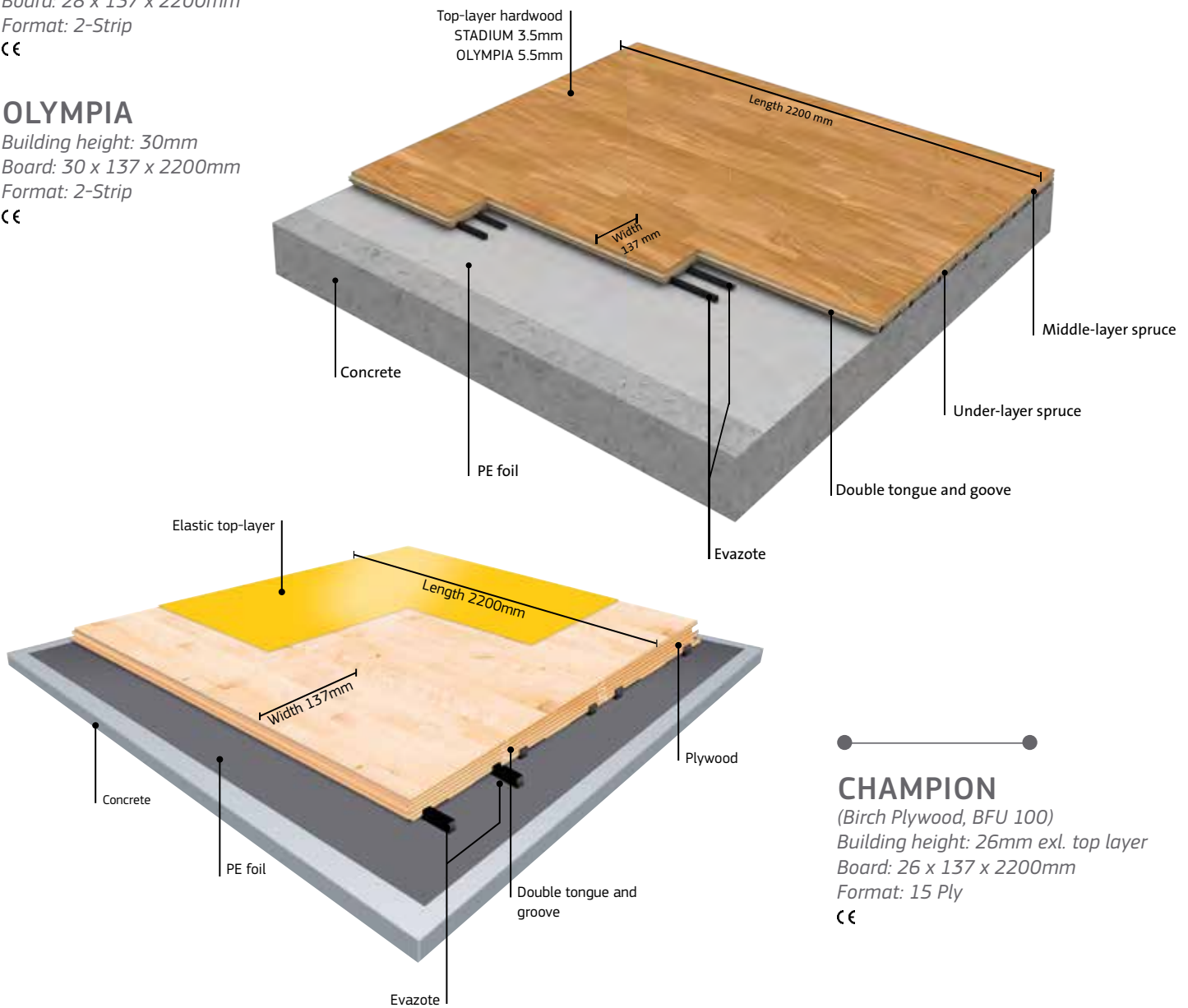
SUITABLE FOR ELASTIC LAYER

## STADIUM

Building height: 28mm  
 Board: 28 x 137 x 2200mm  
 Format: 2-Strip  
 CE

## OLYMPIA

Building height: 30mm  
 Board: 30 x 137 x 2200mm  
 Format: 2-Strip  
 CE



## CHAMPION

(Birch Plywood, BFU 100)  
 Building height: 26mm exl. top layer  
 Board: 26 x 137 x 2200mm  
 Format: 15 Ply  
 CE

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		62%	3.4mm	86	97%	OK
	OLYMPIA		60%	2.9mm	86	97%	OK
	CHAMPION		58%	2.6mm	-	93%	OK

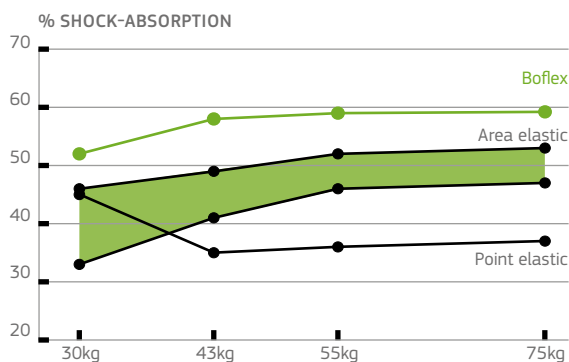


## PROGRESSIVE SHOCK ABSORPTION

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

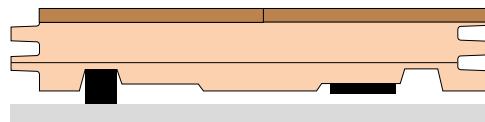
BOEN Sport has developed special installation equipment that ensures the correct application of adhesive and effective installation of the floor. Experience shows that a sports complex of approximately 1000m<sup>2</sup> can be installed in 4-5 days by 3 persons.



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.

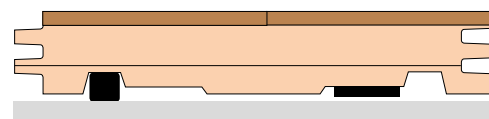
## LOADING CAPACITY:

### NON-LOADED



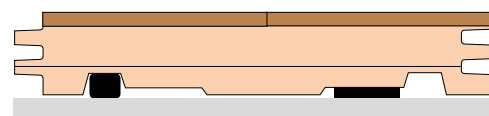
The parquet rests on each alternate Evazote strip.

### LIGHT LOAD



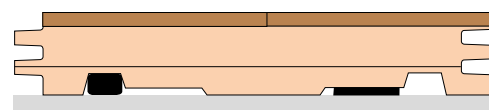
The parquet rests on each alternate Evazote strip.

### 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.

# 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.*

## 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.

### 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.

## 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	0.14 W/mk
21mm Olympia	0.15m <sup>2</sup> k/w	0.14 W/mk
23mm Arenaflex	0.17m <sup>2</sup> k/w	0.14 W/mk
28mm Boflex Stadium	0.17m <sup>2</sup> k/w	0.14 W/mk
30mm Boflex Olympia	0.18m <sup>2</sup> k/w	0.15 W/mk

## EN14904 – EUROPEAN STANDARD

All BOEN Sport's floors meet the demands of the five test elements within EN14904 certification (identical to ASTM2772).

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			
Boflex	STADIUM	62%		3.4mm	86	97%	OK
	OLYMPIA	60%		2.9mm	86	97%	OK
	CHAMPION	58%		2.6mm	-	93%	OK
Actiflex	STADIUM	61%		3.8mm	86	95%	OK
Elastflex (not available)	STADIUM	61%		3.5mm	86	96%	OK
	OLYMPIA	59%		3.3mm	86	95%	OK
	CHAMPION	57%		3.3mm	-	96%	OK
Singleflex (not available)	STADIUM	58%		3.0mm	86	97%	OK
	OLYMPIA	59%	1.9mm		86	97%	OK
	ATHLETIC**	62%		3.1mm	-	97%	OK
Arenaflex	STADIUM	64%		2.9mm	86	96%	OK
	OLYMPIA	65%		2.6mm	86	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.

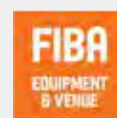
Our squash surface meets the requirement from the players with a friction of 0.59 tested according to DIN 18032-2. Boen Squash Flooring has been approved World Squash Federation Accreditation in conjunction with Courtwall Innovation, who satisfied the requirements of the WSF Accreditation Scheme.

*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

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 215 National Basketball Federations throughout the world and by the International Olympic Committee (IOC).



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