




Actiflex and Boflex 3.0

Functional flooring for improved
performance and balance

Fitness and dance
Hotels and health
Schools and
multifunctional spaces

YOUR VENUE · YOUR FLOOR



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Designed for top performance

Whether for sports, recreation, healthcare, education, or the stage, BOEN Sport delivers high-performance, multifunctional flooring designed for excellence. Engineered to withstand rigorous demands, BOEN sports floor systems provide flexible solutions for spaces of all sizes – ensuring durability, comfort, and top-tier performance for work and play.

To simplify your selection, we've identified three key areas of application to help you choose the ideal flooring solution. The most important factors

to consider are the primary use, surface area size, and floor system. Your BOEN representative is ready to assist you in finding the perfect fit for your specific requirements.

Useful information

BOEN sports floors are manufactured exclusively in Europe and conform to the European standard EN 14904. Boflex 30 also meets the increased requirements of the prestigious Swiss Federal Institute of Sport Magglingen (EHSM).

Studio & Gym

Education

Hotel & Health

YOUR VENUE.
YOUR FLOOR.

For top performance in all sports

As a specialist in elastic sports floors, we strive to develop optimum solutions that pave the way for top performance in a vast array of sports. BOEN Sport floors can be used to transform virtually any kind of space into a sporting venue.

BOEN sports floors provide the ideal foundation for indoor sports and leisure activities, ensuring top-tier performance every time. Designed as area-elastic hardwood flooring or as a subfloor for combined elastic systems, they offer exceptional force reduction under both heavy and light loads. Because true athletic excellence depends not only on the physical condition of participants but also on the quality of the sports, fitness, or dance flooring beneath them.

Ideal for:

Aerobics

Dance

Yoga

Martial arts

Fitness

Surface area

Small to medium-sized areas

Optimum flooring

Actiflex/Boflex 3.0



**Studios
and gyms**



Hotels and health

Recovery and renewed strength

In healthcare centers, care homes, and wellness spaces, flooring must meet rigorous hygiene standards while delivering exceptional shock absorption. Equally important is its aesthetic appeal – high-quality wood finishes foster a natural, calming environment that supports recovery and overall well-being.

BOEN sports floors combine a natural finish with built-in shock absorption, offering exceptional slip resistance and effortless maintenance. Their water-repellent properties protect against sweat and spills, making them ideal for care homes, medical practices, hospitals, and rehabilitation centres. With a variety of surface colours available, these multifunctional floors are also a top choice for spa and wellness areas, as well as hotels – delivering unparalleled warmth, texture, and natural comfort that only hardwood can provide.

Ideal for:

Fitness areas

Spa areas

Rehabilitation centres

Surface area

Small to medium-sized areas

Optimum flooring

Actiflex/Boflex 3.0

For a perfect match

Multifunctional and exceptionally durable, BOEN sports floors withstand the demands of any environment. Whether it's energetic nursery school children, wheelchair users, or large-scale events, these floors provide unwavering strength and reliability. Whatever the occasion, BOEN sports floors create the perfect foundation for performances both big and small.

BOEN sports floors are the ideal solution for children's day-care centres, schools, and social spaces. Their progressive force reduction minimizes injury risks, whether for active children or wheelchair users, while their emission-free design ensures a healthier environment. The construction can withstand an almost unlimited weight load and is extremely stable, which makes it ideal for use in combination with bleacher seating, mobile tribunes, and regularly operated forklifts or scissor lifts.

Ideal for:

School sports

Nursery schools

Ball games

Meetings

**Cultural events and
other leisure activities**

Surface area

Small, medium-sized and large areas

Optimum flooring

Boflex 3.0



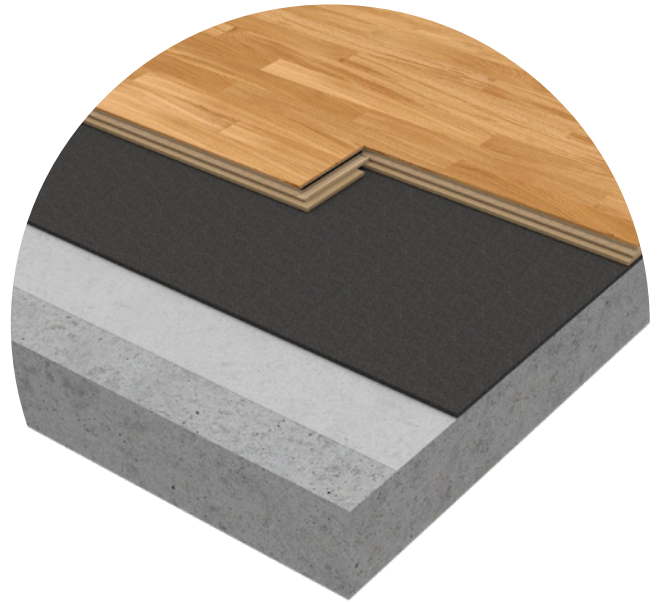
**Schools and
multifunctional
spaces**



**Our
products**

Actiflex

Flexible and comfortable fitness and dance flooring with superb shock absorption – for genuine top performance and improved balance over small to medium-sized areas.



The right system for more balance and comfort

Actiflex is a multifunctional, area-elastic floor with excellent shock absorption for more flexibility and comfort. The floorboards are laid on an elastic foam underlay to provide optimum support for force reduction and sound insulation, making them especially well suited to fitness areas. Available in many colours, Actiflex blends perfectly into indoor spa/wellness areas and healthcare centres.

Quick and easy to lay

Whenever time is of the essence, 5G Click locking technology for Actiflex ensures reliable, hassle-free installation. No special tools are needed.

Actiflex should be installed on a solid, level and self-supporting subfloor or a pre-existing floor. It can be extended as easily as it can be uninstalled.

Actiflex comes in a variety of colours, wood types and formats. For a delightful first step into any sporting venue or place of relaxation. Details on request.

Ideal for areas up to 600 m²:

Aerobics and dance

Fitness and martial arts

Medical and healthcare practices

Yoga, wellness and spa

And much more

Your benefits

Quick and easy to lay

Area elastic for more flexibility

5G Click locking technology

Wide range of natural colours

No specialist tools required



Low Floor Elevation



Additional Colour Choice



Quick and Easy



No Tool Required

Technical specifications



Actiflex is an area-elastic sports floor system comprising 14mm-thick, three-strip multilayer hardwood flooring and an elastic foam underlay that optimally supports force reduction. The 5G Click locking technology on the floorboards enables fast and reliable installation. Actiflex can be installed on a level and self-supporting subfloor or a pre-existing floor.

- Maximum floor area: 600 m²
- 5G Click connection
- 14 × 215 × 2,200 mm + 7mm HDF board
- 3-strip flooring
- Top layer: 3.5mm
- Installation height: 29 mm



Low Floor Elevation



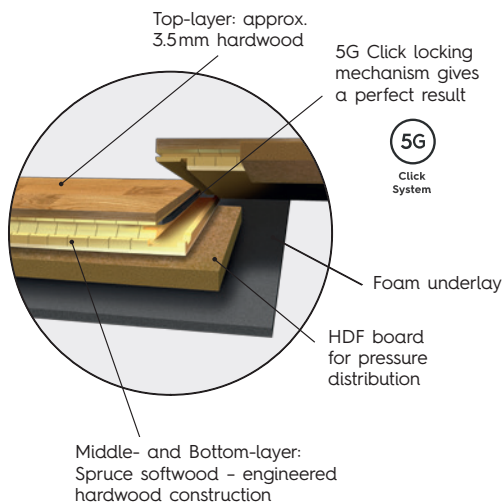
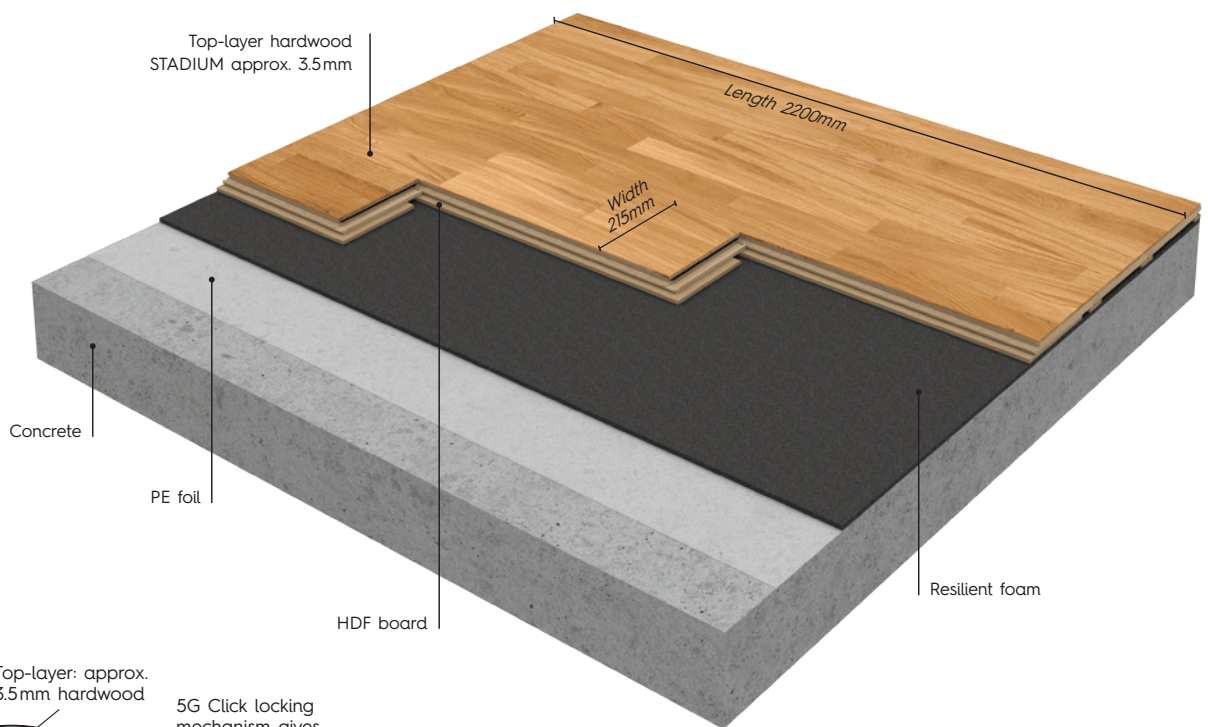
Additional Colour Choice



Quick and Easy



No Tool Required



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		61%		3.3mm	87	97%	OK

ACTIFLEX

Colour range and specifications

Actiflex is available in a wealth of colours and wood types from the BOEN hardwood flooring range. In addition to the standard versions in ash, maple, beech and oak, BOEN also offers an additional selection of colours and finishes on request.



Ash Sport



Canadian Maple Sport



Beech Sport



Oak Sport

Other colors available on request, for example:



Oak Coral
3-strip



Oak Sand
3-strip



Oak Animoso
Plank Castle



The mark of responsible forestry



T79 Sport Lacquer

A T79 Sport Lacquer is applied to Actiflex hardwood flooring under controlled conditions at the factory. This functionally optimised Sport Lacquer also protects against more demanding loads.

Scope of delivery

Hardwood flooring with HDF boards, an elastic foam underlay and edge trims are included in delivery.

Accessories

Whether borders, skirting boards, floor sockets, plates for wall bars, line markings or custom products: your personal BOEN Sport contact representative will be happy to provide you with more information.

Do you have other requirements?

Multifunctional flooring is complex and versatile, meaning that every project has its own set of requirements. Contact the experts at BOEN if you are interested in a bespoke solution outside the standard range.

Boflex 3.0 NEW Stadium & Olympia

The ultimate sports floor with progressive shock absorption – for genuine top performance and multifunctionality. Elasticity and durability come as standard with Boflex 3.0 – for performance that is as good as new, even after more than 25 years.



Ideal system for sports and multifunctional usage

Boflex 3.0 – a unique combination of integrated shock-absorbent material and a construction that withstands almost limitless loads while ensuring underfloor ventilation. This makes the system the ideal floor solution for sports and multifunctional usage, as well as for large arenas and event spaces.

Its outstanding progressive force reduction is effective against both low weights (e.g. children) and the higher loads exerted by adults. Boflex 3.0 achieves much higher force reduction than required by the EN 14904 and DIN 18032 standards.

As an area-elastic system with a hardwood surface, this state-of-the-art multifunctional floor boasts optimum friction levels for the prevention of injuries caused by twisting/torsion and torn ligaments.

Suitable for new builds and renovation projects

Boflex 3.0 can be used with either a synthetic or wooden surface layer and – by virtue of its low installation height – is ideal for laying on existing flooring. Boflex 3.0 is also the first choice for rolling loads and installation on underfloor heating.

Boflex 3.0 is suitable for small, medium, and large areas. The interlocking tongue-and-groove connection allows installation without additional expansion joints for areas up to 2,500m².

Ideal for areas up to 2,500m²:

Sports halls and arenas

Multifunctional venues and event spaces

Schools and nurseries

Rehabilitation and physiotherapy

Gyms

And much more

Your benefits

Outstanding progressive force reduction

Exceptional sports and protective functionality

Durable and hard-wearing

Multifunctional (elite sport, poly-sport applications, multifunctional usage)

Suitable for underfloor heating

Moisture-regulating effect thanks to underfloor ventilation mechanism

Efficient installation without special tools due to improved T&G system and wide 3-strip boards



Weight Load



Low Floor Elevation



Floor Heating



Technical specifications

- Education
- Studio & Gym
- Hotel & Health

The Boflex 3.0 system boasts an integrated shock absorption material and a construction that withstands virtually unlimited loads. Evazote 50 (ethyl vinyl acetate) is a closed, cross-linked cell system that is free from harmful emissions. Thanks to the special construction, the material can only be compressed up to 50%, meaning that the flooring can handle any load. The improved T&G connection and the wide 3-strip board make the installation efficient and eliminate the need for special tools.

- Maximum floor area: 2,500 m²

Boflex 3.0 Stadium:

- 28 mm building height
- 28 × 215 × 2,200 mm (incl. 5 mm Evazote foam)
- 3-strip flooring
- Top layer: 3.5mm

Boflex 3.0 Olympia:

- 26 mm building height
- 30 × 215 × 2,200 mm (incl. 5 mm Evazote foam)
- 3-strip flooring
- Top layer: 5.5mm



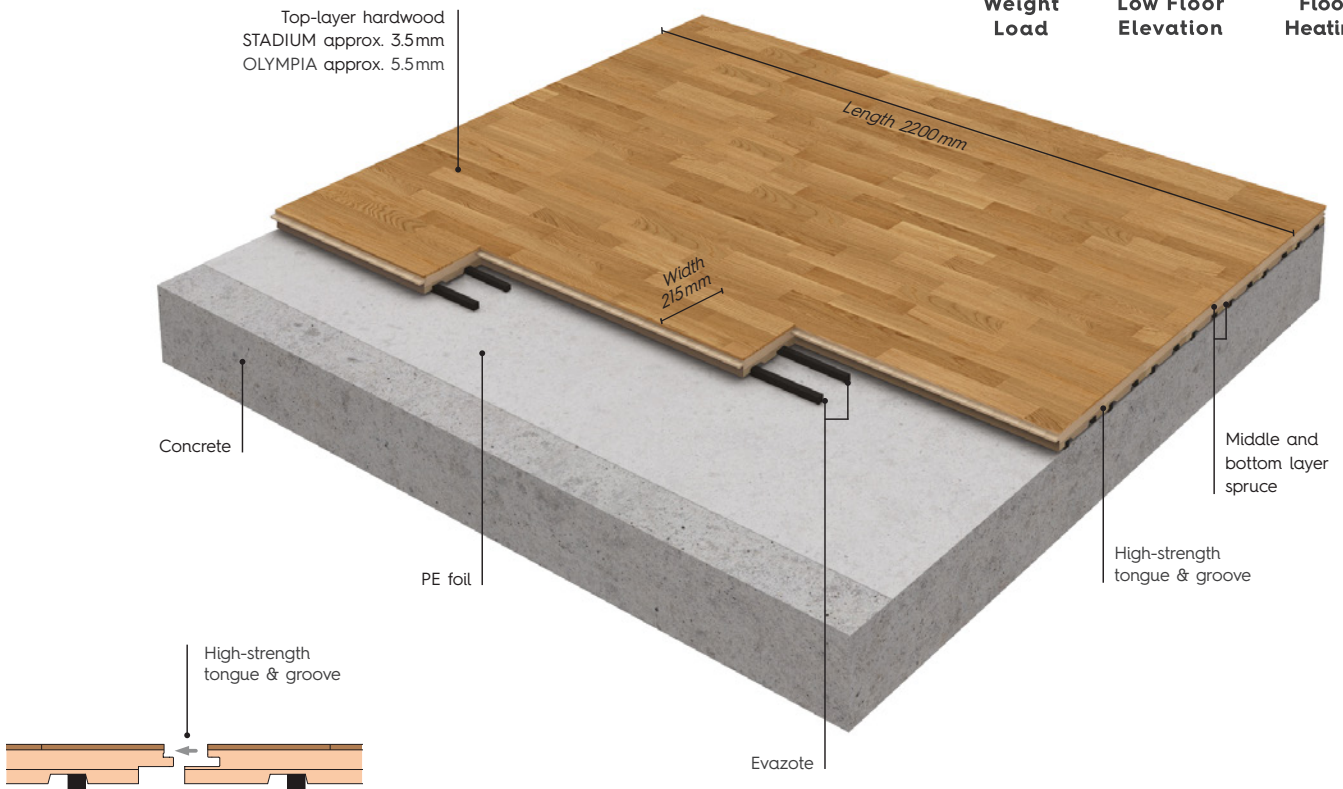
Weight Load



Low Floor Elevation



Floor Heating



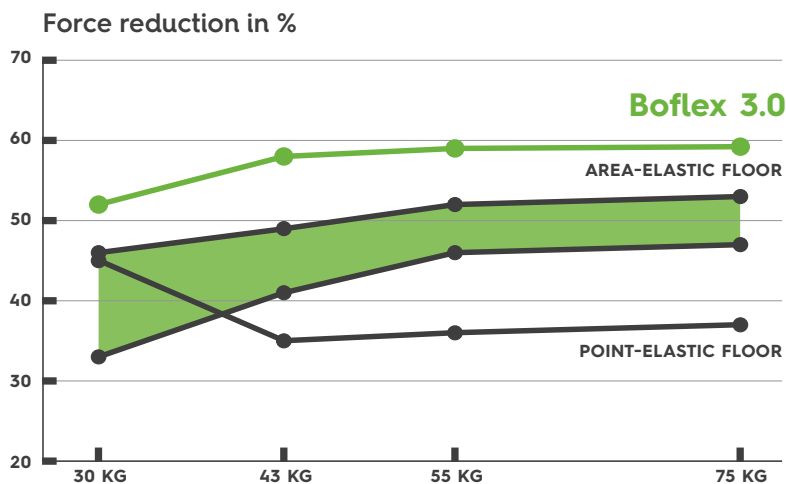
Performance according to EN14904		Shock absorption		Deformation		Friction	Ball bounce	Rolling load
		TYPE 3: ≥ 40% ≤ 55%	TYPE 4: ≥ 55% ≤ 75%	TYPE 3: ≥ 1.8mm ≤ 3.5mm	TYPE 4: ≥ 2.3mm ≤ 5.0mm			
Boflex 3.0	STADIUM		60%		3.3 mm	102	94%	OK
Boflex 3.0	OLYMPIA		56%		3.0mm	102	93%	OK

Progressive force reduction

The Boflex 3.0 system boasts an integrated shock absorption material: Evazote 50 (ethylene vinyl acetate). Developed for aerospace, this closed, cross-linked cell system still offers exceptional performance in respect of loads and material wear here on planet earth. Thanks to the special construction, the material can only be compressed up to 50%, meaning that the Boflex 3.0 flooring can handle virtually any load. Evazote 50 is 100% emission-free, UV-stable, resistant to cold and heat and does not absorb any moisture.

Better than standard.

The current standard for indoor sports floors requires 53% force reduction and is tested using a 75 kg load. Multifunctional Boflex 3.0 flooring absorbs 58-63% of the force exerted upon it, including by lightweight users such as children. Whether elite or hobby sports, kids or grown-ups: the Boflex 3.0 system helps people stay fit, protects against injury and offers outstanding user comfort.



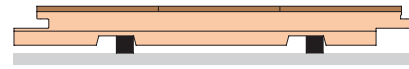
Suitable for underfloor heating

Thanks to their underfloor ventilation mechanism, multifunctional Boflex 3.0 floors boast a moisture-regulating effect. On account of their design, they can be seamlessly laid on top of underfloor heating systems. They also support ambient temperature regulation due to their thermal composition.

BOFLEX 3.0 CUSHIONING PROPERTIES

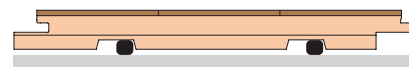
Ideal for all weight classes.

FOR CHILDREN



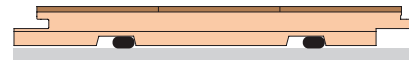
Thanks to its low mass, Boflex 3.0 is also ideal for lighter weights. Suitable for toddlers, primary school children, etc.

FOR ADULTS AND ATHLETES



Depending on the sport, the Evazote strips are subjected to different loads. Suitable for sports halls, club sports, elite sports, etc.

FOR EVENTS



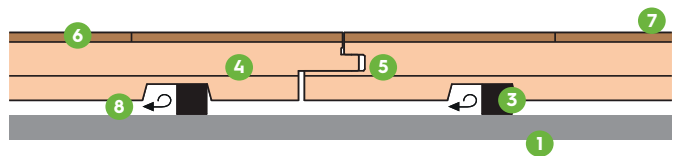
The floor can withstand several tons of load without being damaged. Suitable for bleacher seatings, mobile tribunes, fork- or scissor lifts, etc.

Easy installation

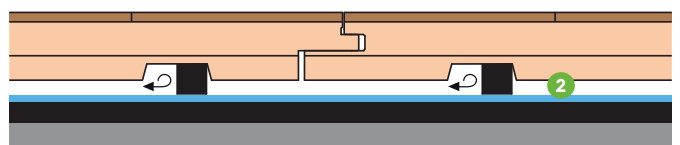
Owing to their low installation height, multifunctional Boflex 3.0 flooring can usually be quickly and easily laid on existing subfloors, areas and point-elastic flooring. This means speedy installation and hassle-free deinstallation and disposal.

- 1 Boflex 3.0 can be laid on any level and dry concrete or plywood subfloor. This also applies to renovation projects on pre-existing synthetic or wooden flooring.
- 2 Two layers of 0.20mm PE film protects against any moisture.
- 3 Evazote (ethylene vinyl acetate) is a closed, cross-linked cell system that ensures superb force reduction in the case of both static and dynamic loads – and has been doing so for more than 30 years.
- 4 With Boflex 3.0, the lower, middle and upper layers work together in optimum harmony to provide this flooring with unrivalled stability.
- 5 Thanks to the improved tongue-and-groove connection and a wide 3-strip board, the installation of Boflex 3.0 is efficient and requires no special tools. The largest floating Boflex 3.0 floor to date spans an impressive 2,400m². We use green-tinted glue to ensure optimal control over the applied amount.
- 6 The combination with hardwood flooring offers advantages in terms of durability, shock absorption, and overall floor performance.
- 7 The floor is protected by six layers of UV lacquer, including the T79 Sport Finish.
- 8 Moisture-regulating effect thanks to underfloor ventilation mechanism.

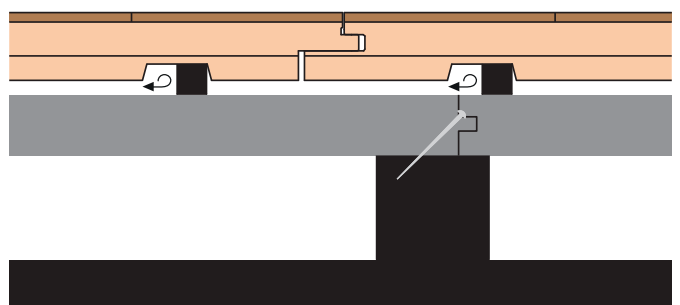
Installed directly on the subfloor – e.g. screed



Installed directly on an existing point-elastic subfloor, e.g. on a 7 + 2mm point-elastic floor



Installed directly on an existing elastic subfloor, e.g. on a 22mm solid wood base material





Suitable for all floor surfaces

The Boflex 3.0 floor system is suitable for underfloor heating and heavy loads and boasts a wide selection of genuine wood and synthetic finishes.

Area-elastic parquet hardwood flooring

Multifunctional, ready-to-use hardwood flooring that can be quickly and easily laid on any level surface. A choice of four wood types. Suitable for all sports and multifunctional usage. DIN-tested, exceptionally high force reduction of more than 58%.

Area-elastic floor with covering

Anyone who prefers PVC, PU or other upper coverings will be delighted with Boflex Champion, the Boflex subfloor. Suitable for all sports and multifunctional usage.

Combined elastic floors

Combining an area-elastic Boflex 3.0 subconstruction with a point-elastic surface units the benefits of both flooring types. You can also choose from several surface covering options.

Efficient and safe installation

Thanks to the improved tongue-and-groove connection and a wide 3-strip board, the installation of Boflex 3.0 is efficient and requires no special tools. This becomes evident on the construction site: a sports facility floor with an area of approximately 1,000m² can be installed by three to four people within one day. The specially developed tongue-and-groove connection ensures fast, interlocking installation without additional expansion joints for areas of up to 2,500m².

Requirements on the undersurface

Subfloors must be dry, level, intact and clean. Any unevenness must be levelled out. In accordance with the SIA standard, the evenness requirement is ± 2mm over a length of 2 metres; for DIN 18202, it is ± 3mm over a length of 1 metres.

It is necessary to lay a 0.2mm PE film, with an overlap of approx. 20cm, on the undersurface to stop moisture.

Distance to walls/pillars

The distance between the floor and the walls/pillars is calculated using 1.5mm per metre of width and distributed on both sides. Here is a sample calculation for the distance between the wall and a 24-metre-wide sports floor: $(24 \times 1.5) : 2 = 18\text{mm}$

Renovation of existing sports floors

Thanks to its exceptionally low installation height, our Boflex 3.0 sport flooring is ideally suited to renovations. The Boflex 3.0 system is also perfect for laying on existing point- or area-elastic sports flooring.

Colour range and specifications

All Boflex 3.0 hardwood floors are available in four wood finishes. In addition to the standard versions in ash, maple, beech and oak, BOEN also offers an additional selection of colours and finishes on request.



Ash Sport



Canadian Maple Sport



Beech Sport



Oak Sport

Multi-layer hardwood flooring for Boflex 3.0 will be delivered as certified FSC™ Mix under the Forest Stewardship Council™ FSC scheme. Our Group licence code is FSC™ C009732, certificate number SGSCHCOC-001535. www.fsc.org, FSC™ – The mark of responsible forestry.



The mark of responsible forestry



T79 Sport Lacquer

A T79 Sport Lacquer is applied to Boflex 3.0 hardwood flooring under controlled conditions at the factory. This functionally optimised Sport Lacquer also protects against more demanding loads.

Accessories

Whether borders, skirting boards, floor sockets, plates for wall bars, line markings or custom products: your personal BOEN Sport contact representative will be happy to provide you with more information.

Do you have other requirements?

Multifunctional flooring is complex and versatile, meaning that every project has its own set of requirements. Contact the experts at BOEN if you are interested in a bespoke solution outside the standard range.

Contact details can be found on the back.

USEFUL INFORMATION

BOEN sports floors

Sports floors play a vital role in terms of players' safety and performance. Depending on the requirements and the sport concerned, different flooring types are used, each offering their own specific advantages.

EN 14904 TESTING CRITERIA

Force reduction

Reduction of the ricochet force (impact force) of the sports floor compared to a rigid floor, in per cent. This figure indicates how quickly the floor's protective function takes effect following floor contact. High force reduction protects against injuries, counters fatigue and offers superb user comfort.

Standard deformation

Deformation of the floor surface (vertical deformation) in mm, with a dynamic load of 1,500 N caused by the players. The vertical deformation of impact-resistant sports floors must not be too deep or too shallow. The extension of the depression caused by a load also represents a key protective factor.

Friction

How the sports floor surface behaves in response to horizontal foot movements (friction properties). An optimum friction value protects against torsion injuries (ligaments).

Ball bounce

The rebound height of a basketball on sports flooring compared with the rebound height on a rigid floor, in per cent. This indicates how high a basketball rebounds on a floor when dropped from a given height (concrete = 100%).

Rolling load

Resistance against rolling loads (e.g. heavy means of transport, mobile gates, mobile stages, etc.) must be at least 1,500 N.

TYPES OF SPORT FLOOR

Area-elastic floors

With their bending-resistant surface, area-elastic floors achieve higher force reduction, making them easier on joints, ligaments and muscles, and reduce the force required. They cushion fast twisting, running and jumping motions over a large area. Area-elastic floors boasts outstanding stability, appropriate friction behaviour and excellent manoeuvrability for sports players, even in the event of rolling loads. The low resistance and wider horizontal deformation facilitate rotating motions. Area-elastic floors are hard-wearing, durable and easy to maintain.

Point-elastic sports floors

These floors have a flexible, gently bending surface that yields under point loads. The higher abrasion of the yielding surface increases the risk of torsion injuries. Point-elastic flooring is suitable for loads caused by rolling (cycling, roller sports, transporting goods) on account of its lower wear and pressure resistance.

Combined elastic floors

Combining an area-elastic subconstruction with a point-elastic surface units the benefits of both flooring types.

USEFUL INFORMATION

Multilayer hardwood flooring

Multilayer hardwood flooring is an excellent choice for sports floors. Wood is popular for sports floors on account of its durability, shock absorption and outstanding performance. Here are the main reasons:

Shock absorption and safety

Area-elastic hardwood flooring, especially when combined with suitable underfloor systems, eases the strain on the joints and reduces the risk of injury.

Durability and longevity

High-quality woods such as oak are sturdy, abrasion-resistant and can last for decades if cared for properly. They can be polished and resealed multiple times to increase their useful life.

Dynamic ball bounce and performance

Wood provides a stable, even surface that is ideal for sports such as handball, basketball and volleyball, ensuring predictable bounce.

Aesthetics and emotionality

A wooden sports floor projects an image of professionalism and excellence, but also exudes natural warmth and harmony for a pleasant atmosphere. A fact that does not escape sportspeople.

Healthy indoor air

Thanks to its ability to regulate moisture, wooden flooring also helps to keep the ambient air healthy. What's more, wood is naturally antibacterial and anti-static.

Environmentally friendly and renewable

BOEN multilayer hardwood flooring is certified in accordance with FSC® MIX 70%, making it an environmentally friendly and sustainable option.



ACTIFLEX

References



Moni's Haus voller Musik
Germany
Actiflex, Beech
109m²



City Gym fitness studio
Germany
Actiflex, Ash
150m²

Monaco Arts Dance
France
Actiflex, Oak
220m²



Dance Your Life dance school
Germany
Actiflex, Oak
340m²

Hotel Sopwell House
UK
Actiflex, Oak
99m²



BOFLEX 3.0

References

Dance studio Sportspark,
University Of East Anglia,
Norwich, England
Boflex 3.0 Stadium, Oak
280m²





Flekkeroyhallen
Norway
Boflex Stadium,
Canadian Maple
1100m²



Nottingham Universität
UK
Boflex, Oak
4800m²



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or contact us

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