



JUNCKERS SPORTS AND DANCE FLOOR SYSTEMS



There's only one real player that consistently out performs everyone else.

Junckers.



The floor's surface is the ultimate performance element in many sports and dance activities, but it has a profound effect on safety. About a third of all indoor sports injuries can be traced back to the properties of the floor.

A Junckers solid hardwood flooring system provides the correct resilience, shock absorption and friction characteristics in order for the athlete and dancer to experience the ultimate level of performance and comfort, allowing them to train longer, play harder and so enjoy their sport and performance without worry of injury.

Over 75 years of experience in the hardwood flooring industry has given Junckers the technical expertise to allow us to design and supply the correct undercarriage system and high quality hardwood flooring to suit individual sports, multi purpose and dance floors at whatever level is required and has made us the largest supplier of hardwood sports and dance floor systems in the UK and Ireland.

The new EN standards for indoor sports flooring has allowed us to develop newer, better systems to satisfy the most demanding performance requirements.




Contact and speak to Junckers Ltd for advice on the choice of system and life cycle costs over 25 to 35 years of use. Junckers is a member of NBS Plus and the RIBA CPD Core Curriculum and will work with the specifier in writing specifications for the installation of their systems.

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**JUNCKERS.
OVER 75 YEARS
OF MANUFACTURING
100% SOLID
HARDWOOD
FLOORING.**

Junckers is available across the globe through 8 subsidiaries in Europe and North America and over 25 agents worldwide.

No other hardwood flooring company in the UK can match this level of commitment to customer service.

Our main offices in the UK are at Witham in Essex.

A separate office in Dublin controls the sale and distribution of our flooring in Ireland.

We pride ourselves on being customer orientated and support this by having a full time Technical Service Department, who are able to offer design service and advice to the end-user and designer before, during and after the installation, including an after care service to advise on the care and maintenance of the floors.

Our Customer Service Department will assist the end-user, installer and distributor in supplying the right product at the right time.

We also have 12 full time Technical Area Sales Managers, who are based all around the UK and Ireland to give on site advice at any time.

Junckers solid hardwood flooring is tried and tested in multi purpose halls, community centres and village halls all over the UK and Ireland.

It is this wealth of experience and resource, especially within the sport, dance and education segment, that has enabled us to offer suitable flooring solutions at a cost effective price to sports centres, several PFI schemes, the building schools for the future programme and many other individual schools, both new and existing, over the years.

**WE INTEND TO CARRY ON
THIS COMMITMENT TO
EDUCATION AND SPORT.**

Standards



Sports, drama, dance and performance spaces and multi use halls. It is government legislation that sets the standards for these types of floors. It is a lot more than just specifying "a sprung floor". BSEN14904: 2006 was introduced in July 2006 to set standards for all indoor sport flooring. This supersedes BS7044 Part 4 which is now obsolete. All floors designed for sporting or dance use must conform to this new standard.

All Junckers sports systems fully conform to this new standard.

Solid hardwood floors are designated within the new standard as Area Elastic Floors which provide spring resiliency and shock absorbing qualities that are required for sports and dance use to minimise injury from activities such as jumping or moving. If the floor is too hard then the athlete or user will be exposed to early fatigue and aching joints through to more serious leg and back injuries. Other performance characteristics such as vertical deformation ensure that the floor is not too tiring to run on yet still absorbs these forces.

Ball sports such as Basketball demand a high and fast ball response which is also a major performance characteristic covered by the standard.

Slip resistance or level of friction is vital to ensure easy turning or sliding yet maintaining integrity without slipping.

The floor must also take into account other non-sporting use such as heavy loads.

BSEN14904 is part of document EN14904 which is a high level European wide standard aimed at raising the performance criteria of sports floors and to separate the various types of flooring systems available in the market. The standard

has 4 separate sections and is specific about the performance factors for each material. The new standard shows how each type of flooring will perform against each other. Point Elastic Vinyl floors, Mixed Elastic, Area Elastic wooden floors and Combi-Elastic Wood/ Vinyl floors are all included.

The tables above which are taken from the new standard indicate the shock absorption and Vertical deformation levels between the various flooring materials:

Table B.1 - Shock absorption (%)

Type	Point-elastic P	Mixed-elastic M	Area-elastic A	Combi-elastic C
1	>25<35			
2	>35<45			
3	>45	>45<55	>40<55	>45<55
4		>55<75	>55<75	>55<75

Table B.2 - Vertical deformation (mm)

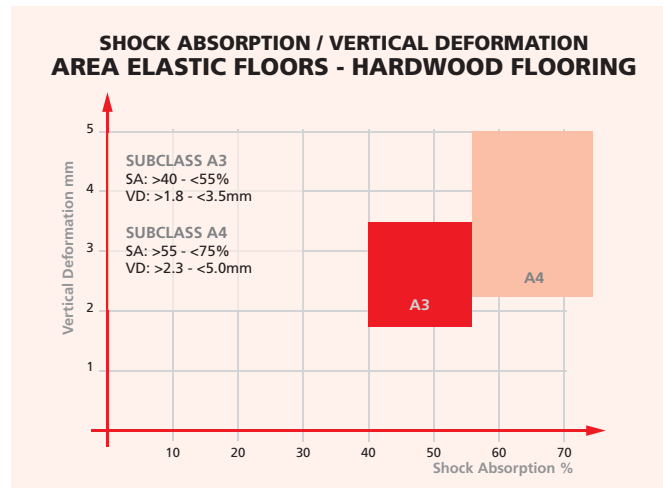
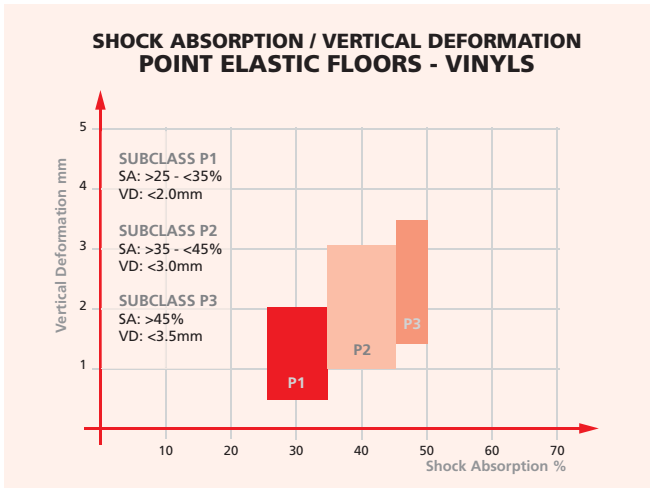
Type	Point-elastic P	Mixed-elastic M	Area-elastic A	Combi-elastic C
1	<2.0			
2	<3.0			
3	<3.5	<3.5	>1.8<3.5	>1.8<5.0 VD>0.5<2.0
4		<3.5	>2.3<5.0	>2.3<5.0 VD>0.5<2.0

VD is the vertical deformation of the point-elastic component

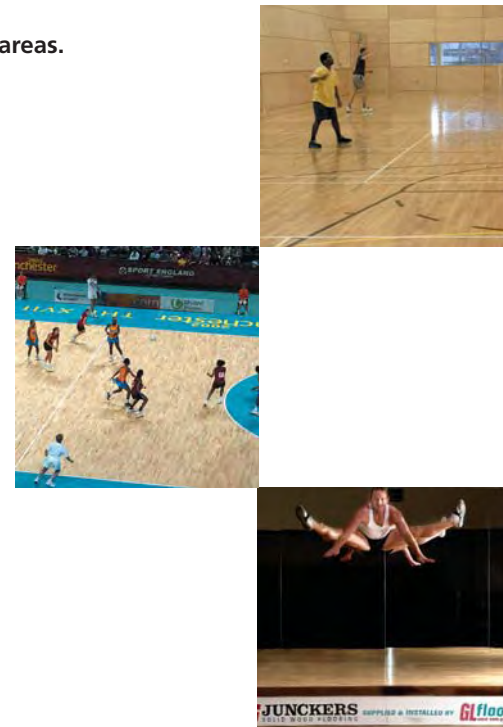
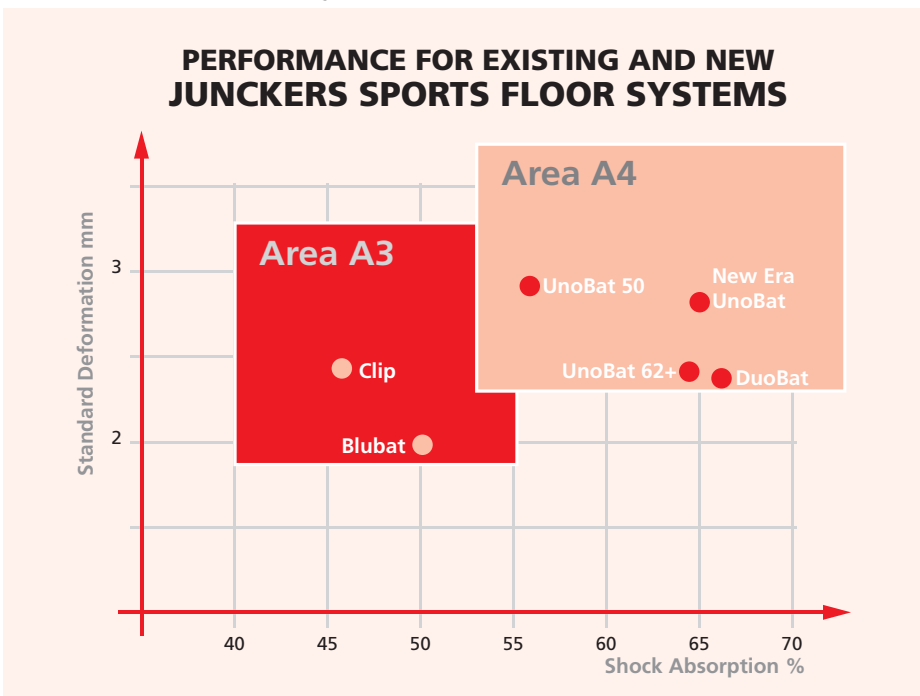
A choice of systems

Junckers floors fall within the Area Elastic group either in A3 or the higher A4 classes. Point elastic vinyl floors for instance and for obvious reasons, cannot offer the same shock absorbing and resiliency characteristics as hardwood area elastic ones.

An example of these differences between the various flooring products are clearly shown on the following graphs. The best sports floor surfaces will always be positioned to give the best shock absorption and vertical deformation characteristics yet still exhibit great ball response.



There are several Junckers systems available which meet the standard in the following areas.



TEST	BluBat	Clip	NewEra	UnoBat	UnoBat 50	UnoBat 62+	DuoBat 110+
BSEN 14904 Class A3	✓	✓					
BSEN 14904 Class A4			✓	✓	✓	✓	✓

"These and other results confirm hardwood sports flooring and especially Junckers, as the Gold Standard for sports flooring".



For decades Junckers Press dried Beech has been tried and tested in terms of strength, durability and performance. 2 choices, either beautiful light and golden or warm honey brown in colour, both with a warm natural grain they are both functional and highly attractive in appearance.



- 100% real solid hardwood throughout
- Suitable and guaranteed for use over Underfloor heating systems
- Furniture quality and highly flexible sealed finish
- Press dried for stability + strength
- Strong can withstand exceptional loadings
- Can be refurbished many, many times

SylvaSport Premium

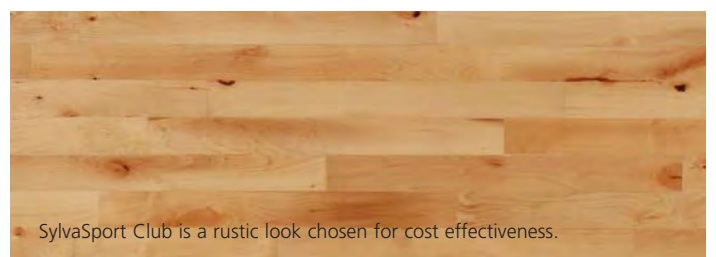
Is a natural looking Beech floor with a fine degree of structural and colour grain variation between the staves. Sound medium sized knots and other natural characteristics such as heartwood, fine surface hairline splits and inbark. Irregularities are factory filled.



SylvaSport Premium is the favoured surface for most sports and performance use, as it has the most natural appearance.

SylvaSport Club

Is a rustic looking Beech floor with substantial structural grain and colour variation between the staves. Combination of sound and open medium sized knots and other natural characteristics such as heartwood, surface hairline splits and inbark. Irregularities are factory filled.



SylvaSport Club is a rustic look chosen for cost effectiveness.

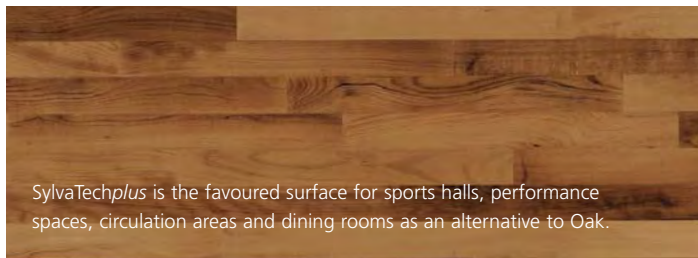
- Junckers SylvaSport hardwood floors are manufactured from two rows of 22mm thick PEFC certified solid European Beech staves assembled into self-supporting boards by means of a carefully machined double dovetail joint. Tongue and grooved on all four sides.
- Being solid hardwood throughout you can rest assured that the boards will not delaminate and will last far longer than other area elastic surfaces.
- The Beech is press dried using Junckers unique press drying process to make the Beech wood more stable and stronger.
- The boards are 3700mm long and 129mm wide. Pre finished with several coats of Junckers hardwearing pure polyurethane lacquer, so are ready for use straight away.
- No need to acclimatise on site.



The boards are made as factory-finished products so are ready for use as soon as they are fitted and are all finished with several coats of hard-wearing, furniture quality silk matt polyurethane seal.

SylvaTechplus Premium

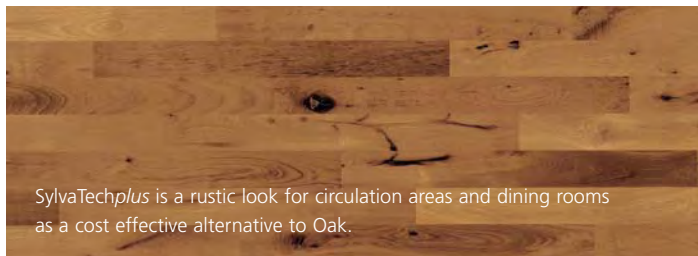
SylvaTechplus Premium Is a natural looking vacuum stained Beech board, honey brown in colour throughout its entire thickness with a fine degree of structural and colour grain variation between the staves. Sound medium sized knots and other natural characteristics such as heartwood, fine surface hairline splits and inbark. Irregularities are factory filled.



SylvaTechplus is the favoured surface for sports halls, performance spaces, circulation areas and dining rooms as an alternative to Oak.

SylvaTechplus Club

SylvaTechplus Club Is a rustic looking vacuum stained Beech board, honey brown in colour throughout its entire thickness with substantial structural and colour grain variation between the staves. Combination of sound and open medium sized knots and other natural characteristics such as heartwood, surface hairline splits and inbark. Irregularities are factory filled.



SylvaTechplus is a rustic look for circulation areas and dining rooms as a cost effective alternative to Oak.

- The uniformly coloured Beech surface has the perfect light reflectance thus reducing the overall need for artificial light.
- The tongues are impregnated with proprietary treatment to reduce the gluing effect of any subsequent maintenance coats of lacquer



- SylvaTechplus is a stronger & harder alternative to Oak
- Quick and clean to install
- Fully conforms to BSEN14904
- Good life cycle costs
- Up to 25 years warranty
- 75 years of experience

We occasionally get asked to supply our Oak flooring for sports and dance use. Generally speaking Junckers Beech is a far more suitable wood than Junckers Oak for use as an area elastic floor. Beech is stronger, has far better tensile strength, has a far lighter uniformity of colour, and offers much better long term integrity within its straighter grain structure to cope with the constant use that it will receive under dynamic loading. SylvaTechplus Beech is ideal for those projects where the Oak look is needed.

- Multi-purpose use
- High ball response
- Budget cost
- Conforms fully to BSEN14904 area A3
- Excellent step sound performance
- Fast and easy installation
- 1st choice for squash courts
- Suitable for underfloor heating over either a heated screed¹ or to incorporate a heating system between battens²



System Performance

The Junckers BluBat batten system is the simplest of the Junckers undercarriage systems offering medium shock absorption and resilience at a budget cost. Fast and economical to install over a flat, level sub-floor. It conforms fully to all the requirements of BSEN14904 A3.

The system comprises of a 22mm Junckers Press dried Beech board secret nailed to a kiln dried softwood batten with a continuous layer of 9mm thick special foam to the underside.

There is a choice of 3 main thickness of batten, 31mm 45mm or 57mm² deep – including 9mm foam.

The 45mm and 57mm deep battens are the main recommendations, the 31mm¹ deep batten is ideal over underfloor heated screeds.



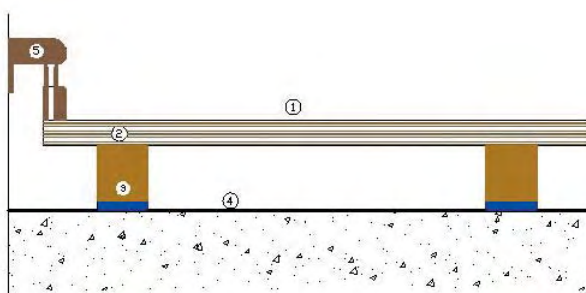
RESULTS	System result	Requirements to BSEN14904 Class A3
Shock absorption	50.4%	>40 <55%
Vertical deformation	1.9mm	>1.8 <3.5mm
Ball response	96.3%	>90%

System Components

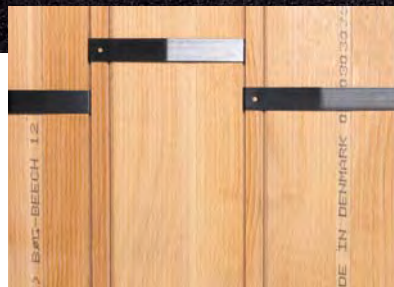
Construction height, including 22mm thick floorboard:
53mm¹ 67mm 79mm²

Installation on even sub-floor

1. 22 x 129 x 3700mm floorboards
2. Porta nail
3. BluBat batten system includes 9mm foam strip
4. Polythene vapour check
5. Ventilated skirting



- Medium performance use
- 1st choice for aerobics
- Conforms fully to BSEN14904 A3
- Very low construction height – 32mm
- Ideal for refurbishment work over old flooring
- Floating system
- Fast and easy installation
- Suitable for underfloor heated screeds



The clips hold the boards together – slotted into a finely machined groove on the back of the board.

System Performance

The Junckers Clip system delivers medium shock absorption and resilience, and is perfectly suited for renovation projects that need low construction height. If installed on an even sub-floor, installation of a floating floor such as the Clip system couldn't be simpler.

Junckers 10mm thick Profoam underlay is rolled out over the sub-floor before the boards are simply joined together using Junckers own clips. Fast and economical to install, it conforms fully to all the requirements of BSEN14904 A3.

A 5mm thick foam is also available. Contact Junckers for details.

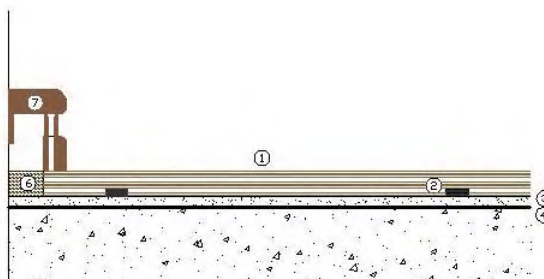


RESULTS	System result	Requirements to BSEN14904 Class A3
Shock absorption	45.8%	>40 <55%
Vertical deformation	2.4mm	>1.8 <3.5mm
Ball response	97.9%	>90%

System Components

Installation on even sub-floor

1. 22 x 129 x 3700mm floorboards
 2. Clips
 3. Intermediate layer (5 or 10mm resilient foam)
 4. Polythene vapour check
 5. Header joint adhesive
 6. Expansion strip / gap
 7. Skirtings
- Construction height, including 22mm thick floorboard - 32mm



NewEra UnoBat

NewEra UnoBat is designed for all sports, multi purpose and activity floors.

- High performance use
- Variable height
- Can be fitted over uneven sub-floors - no need for screeds
- Ideal for high level dance
- Conforms fully to BSEN14904. Area A4
- Excellent step sound performance
- Quick installation
- Suitable for underfloor heating-pipes between battens



System Performance

The New Era UnoBat system, is a packable fully sprung flooring system which can be installed over an uneven sub-floor.

Extensive testing and development work has taken place over the last couple of years to improve the well established standard New Era levelling system to meet the new standards. This new system incorporates a black evazote polyethelene foam rubber base for higher performance characteristics to the higher A4 level of the standard.

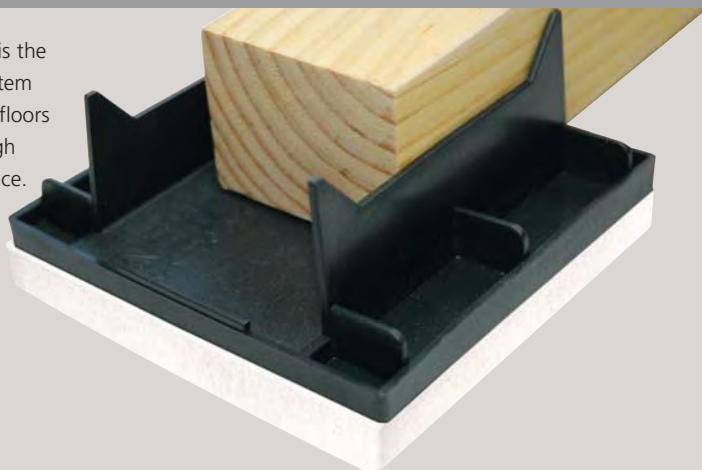
The system comprises of a 22mm Junckers Press dried Beech board, secret nailed to a kiln dried softwood batten, which is supported by foam backed strong polypropylene cradles. Fine levelling of the system takes place between the cradles and the battens. There are a range of heights available from 74mm to 439mm.



RESULTS	System result	Requirements to BSEN14904 Class A4
NewEra UnoBat System		
Shock absorption	65.25%	>55 <75%
Vertical deformation	2.75mm	>2.3 <5.0mm
Ball response	90.75%	>90%

NewEra Standard

NewEra Standard is the recommended system for multi-purpose floors not requiring a high level of performance.



- High performance use
- Sports and dance
- Conforms fully to BSEN14904 A4
- Low construction height – 50mm
- Fast and easy installation
- Ideal for both light and heavy athletes
- Suitable for underfloor heated screeds
- Ideal solution for heavy loadings without loss of performance– retractable seating*

*Contact Junckers for details See page 16



Rubber strips in unloaded position.



Rubber strips with maximum load (note that the outer strips are never squeezed to destruction thanks to the centre strip and their recessment).

System Performance

The Junckers UnoBat 50 batten system is the lowest elevation, high performance undercarriage system offering a fully sprung floor to the highest demands and criteria. Fast and economical to install, it conforms fully to the requirements of BSEN14904 A4.

It has a total construction height of only 50mm designed for installation over flat, level sub-floors. The system comprises of a 22mm Junckers Press dried Beech board secret nailed to a veneered softwood batten, which has a unique arrangement of specially developed rubber strips on the underside. The outer and inner strips differ in density and performance – low density on the outside and high density on the inside – to produce a 2 step absorption effect with a braking system, which delivers optimum shock absorption and consistent ball response.

*Choice of 2 different batten centres depending on requirements as to sports performance and loading capacity.

Heavy loads can now be supported without compromising the performance of the floor.

RESULTS

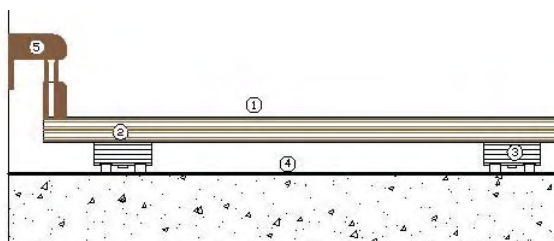
	System result at 411mm centres	System results at 336mm centres	Requirements to BSEN14904 Class A4
Shock absorption	56.7%	57.7%	>55 <75%
Vertical deformation	2.8mm	2.4mm	>2.3 <5.0mm
Ball response	93.4%	95%	>90%

System Components

Construction height, including 22mm thick floor board - 50mm

Installation on even sub-floor

1. 22 x 129 x 3700mm floorboards
2. 2.2 x 45mm J-nail (machine nail)
3. UnoBat 50 batten: 28 x 50 x 3600mm incl. resilient rubber strips
4. Polythene vapour check
5. Ventilated skirtings



- High performance use
- Can be packed over uneven sub-floors
- Great ball response
- Conforms fully to BSEN14904 A4
- Fast and easy installation
- Ideal for both light and heavy athletes
- Suitable for underfloor heating - pipes between battens
- Ideal solution for heavy loadings without loss of performance – retractable seating*

*Contact Junckers for details See page 16



J-Lock component in unloaded position. With an example of packing the system using notched wedges.



J-Lock component in loaded position. With an example of packing the system using notched wedges.

System Performance

The Junckers UnoBat 62+ single layer batten system is the second of the Junckers high performance undercarriage systems, which can be packed, offering a fully sprung floor to the highest criteria. Fast and economical to install, it conforms fully to BSEN14904 A4.

It has a minimum construction height of 62mm (plus levelling material) designed for installation over even or uneven sub-floors. The system comprises of a 22mm Junckers Press dried Beech board secret nailed to a veneered softwood batten featuring unique shock absorption rubber pads, which in conjunction with the patented J-Lock connection system delivers high performance sports and dance characteristics and enhanced durability.

Junckers UnoBat 62+ offers the performance attributes necessary for fast moving ball games while keeping the risk of injury at an absolute minimum.

*Choice of 2 different batten centres depending on requirements as to sports performance and loading capacity. Heavy loads can now be supported without compromising the performance of the floor.

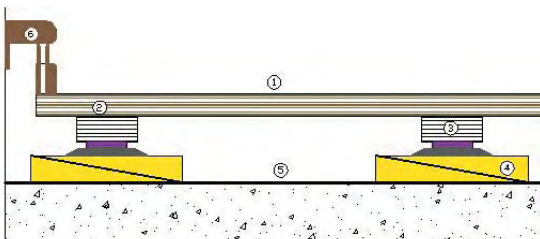
RESULTS	System result at 411mm centres	System results at 336mm centres	Requirements to BSEN14904 Class A4
Shock absorption	66.2%	63.2%	>55 <75%
Vertical deformation	2.55mm	2.4mm	>2.3 <5.0mm
Ball response	95.5%	91.75%	>90%

System Components

Minimum construction height, including 22mm thick floorboard-62mm

Installation on even or uneven sub-floor

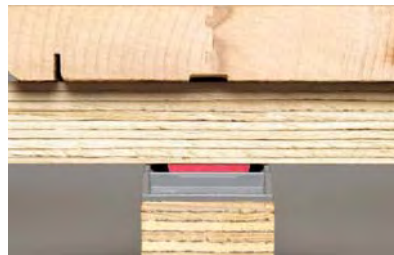
1. 22 x 129 x 3700mm floorboards
2. 2.2 x 45mm J-nail (machine nail)
3. UnoBat 62+ batten system:
 - 25.5 x 60 x 3600mm
 - J-Lock shock pad system
4. Packings
5. Polythene vapour check
6. Ventilated skirtings



- High performance use
- Double batten system
- Can be packed over uneven sub-floors
- Great shock absorption figures – ideal for high quality dance and gymnastic sports
- Conforms fully to BSEN14904 A4
- Easy installation – with the unique J-Lock system
- Ideal for both light and heavy athletes
- Suitable for underfloor heating



J-Lock component in unloaded position.



J-Lock component in loaded position.

System Performance

The Junckers DuoBat 110+ double layer batten system is the fourth of the new Junckers high performance undercarriage systems offering a fully sprung floor to the highest criteria.

Easy to install, it conforms fully to all the requirements of BSEN14904 A4. It has a total construction height of 110mm (plus levelling material) designed for installation over even or uneven sub-floors with fewer packing points than other double battened systems. The J-Lock system ensures fast and secure connection between the upper and lower battens.

The system comprises of a 22mm Junckers press dried Beech board secret nailed to softwood veneered double battens featuring unique shock absorption rubber pads, which in conjunction with the patented J-Lock connection system delivers high performance sports and dance characteristics and enhanced durability. The rubber pads never lose their elasticity. Junckers DuoBat 110+ offers the performance attributes suitable for high level gymnastic, dance, fast moving ball games and aerobics while keeping the risk of injury at an absolute minimum.

RESULTS

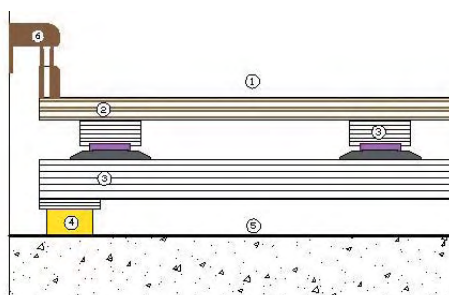
	System result	Requirements to BSEN14904 Class A4
Shock absorption	65.93%	>55 <75%
Vertical deformation	2.35mm	>2.3 <5.0mm
Ball response	94.25%	>90%

System Components

Minimum construction height, including 22mm thick floorboard - 110mm

Installation on even or uneven sub-floor

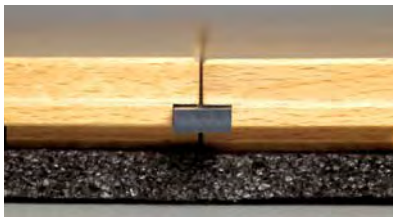
1. 22 x 129 x 3700mm floorboards
2. 2.2 x 45mm J-nail (machine nail)
3. DuoBat 110+ batten system Upper batten: 25.5 x 60 x 3600mm J-Lock shock pad system Lower batten: 39 x 40 x 3364mm
4. Packings
5. Polythene vapour check
6. Ventilated skirtings



- Flexible system
- 1st choice for temporary use and events
- Very low construction height – 32mm or 27mm
- Individual logo and event branding
- Ideal for dance floors
- Floating system
- For installation even over ice rinks
- Very fast and easy installation using the lightweight pre-assembled panels
- Suitable for underfloor heated screeds
- Used at the 2002 Commonwealth Games
- Easy storage and transportation using Junckers specially designed storage carts



The unique fitting that holds the panels locked together – on the back of the boards.



Plastic loose tongues guarantee a stable, safe and even floor surface.

System Performance

The Junckers Portable floor system offers the ultimate in flexibility for arenas and halls that play host to a wide variety of sporting and non-sporting events.

In situations where specific line markings and logos are required, the Junckers Portable floor system provides the perfect solution.

If installed over an even sub-floor, installation of a Junckers Pre-finished Portable solid Beech floor couldn't be simpler.

Once the Junckers 5mm or 10mm thick underlay is in position, the panels are held securely in place by simple metal fittings that are just as easy to release when the floor is taken up. A ramped metal trim forms a strong and attractive edge.

It has a total construction height of either 27mm or 32mm.



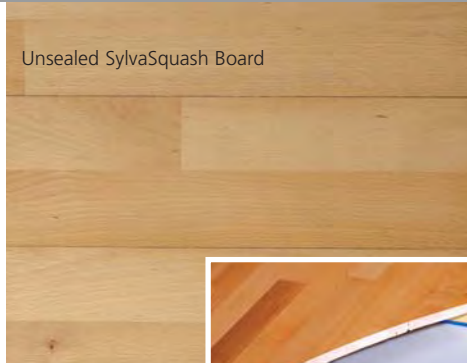
RESULTS

	System result With 10mm underlay	Requirements to BSEN14904 Class A3
Shock absorption	45.6%	>40 <55%
Vertical deformation	2.0mm	>1.8 <3.5mm
Ball response	99.3%	>90%



SylvaSquash for the perfect match

- Accredited by England Squash, SRA and WSF
- Uniform light coloured surface – easier to follow the ball in play
- Good shock absorption
- Ideal surface for friction
- Tried and tested
- Available in unsealed or sealed finishes
- Line marking using Junckers Isoline line marking paint



To meet the high demands made upon squash court floors Junckers has developed the highly successful SylvaSquash system.

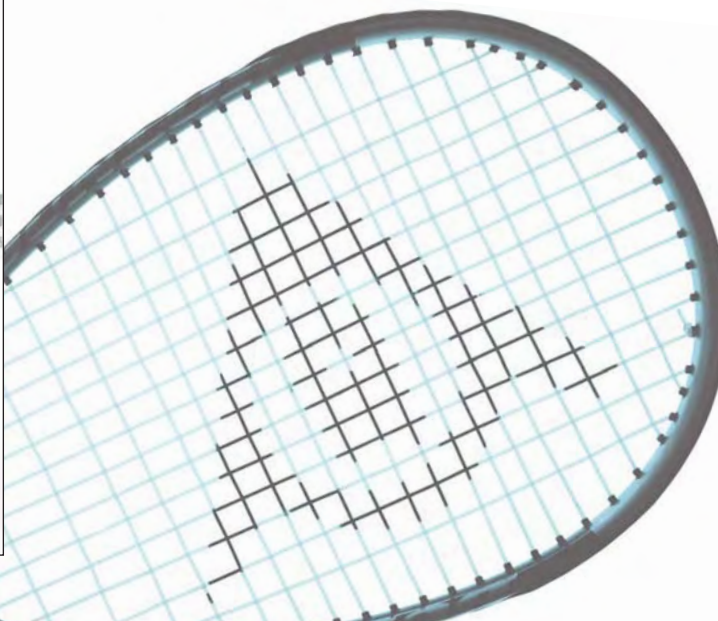
Given full accreditation by the SRA, England Squash and the WSF, the floor provides the player with the optimum playing surface in terms of shock absorption, resiliency, true and even ball response, light uniform colour and friction.

Extremely fast games such as squash need a surface with a high degree of friction. Junckers SylvaSquash is a solid Junckers 22mm thick Beech board of the Classic grade with a 45grit finish, which provides the high level of friction required by the sport.

An unsealed finish is the first recommendation by the SRA, England Squash and the WSF. However, SylvaSquash is also available with one coat of polyurethane seal factory applied as required.

The Junckers BluBat and New Era systems are the preferred undercarriage systems for a squash floor.

Because Junckers SylvaSquash is manufactured in uniform lengths, every board end is fully supported by a batten. This eliminates the possibility of board end breakages, a common problem with other "random strip" floors.



The most common question that we get asked is: "Is Junckers suitable for use over Underfloor heating?" The answer is a resounding YES! Junckers' floors are firm and stable due to the controlled low and uniform moisture content of our pre-finished floorboards and our fine machining tolerances.



All our products are tested with the leading manufacturers of underfloor heating systems, are approved by the Under Floor heating Manufacturers Association and have been in use for many years. Junckers flooring is adaptable and can be installed in almost any setting, and adjusted to most underfloor heating systems. Junckers' floors are suited to both hot water and electrical systems. This makes Junckers solid hardwood flooring the ideal surface for underfloor heating.

Skirtings

A hardwood floor needs an expansion gap at the sides so suitable skirting details are essential.



Bushings

Junckers bushings are designed to allow access to post holes in the sub-floor whilst looking good and are easy to use.



Line marking paint

Junckers manufactures the seals used on the floorboards and also the coloured line marking paints for use in marking out courts.

These pure polyurethane paints are available in white, red, green, blue, yellow and black. All colours are available in a water-based or solvent-based version. Logos and special events can be done in this way.

Junckers High Performance sports seal is used to overcoat the newly installed lines to maximise the life of the lines.

We advise that if you are considering the use of our flooring over underfloor heating that you contact us for further guidance. More detailed information on the use of Junckers flooring over underfloor heating can be obtained from Junckers Ltd on 01376 534720 or visit www.junckers.com



Image by courtesy of Audience Systems

Retractable seating

Junckers hardwood sports floors are designed to accommodate normal foot loading but often extra loads such as retractable seating and access towers are put onto our floors.

Generally this will not be a problem but we may need to reinforce the under structure of the flooring to accommodate these loads.

Please contact Junckers for further details on a project by project basis.





Junckers area Technical sales managers and technical staff are able to supply NBS

specifications on the installation of our flooring for your project. Junckers specifications are also available on NBS Plus.



We also operate with RIBA to offer RIBA approved core Curriculum CPDs.

Junckers area Technical sales managers and technical staff present a choice of 4 CPDs.



- 1) Selecting and specifying the correct hardwood floor
- 2) Hardwood sports flooring
- 3) Installation of hardwood flooring
- 4) Selecting the correct maintenance schedule for hardwood flooring.

Junckers technical staff is on hand to offer telephone or face to face advice, design assistance and all technical information on Junckers products.

Based in Witham please contact us on:

Tel: 01376 534 720

Fax: 01376 534 735

email: tech@junckers.co.uk



Overall maintenance of hardwood floors is less arduous than it used to be. The new JunckerCare scheme takes care of that!

Some companies maintain that their surface will not need to be re-sealed as often as a Junckers surface.

In our experience flooring is heavily used and we want the floor to be kept in top condition.

To do this, all hardwood sports surfaces in our experience need this level of maintenance.

Maintenance of a hardwood floor does not need to be hard. Day to day cleaning is quite simple, follow a few guidelines and the floor will be easily kept clean and in good condition.

First of all decide if the floor needs an extra coat of seal on installation. In some instances this is a good idea, multi-purpose halls for example where spillages are going to be frequent.

The JunckerCare scheme is designed to work in conjunction with the day to day cleaning carried out by the client and the Lifetime warranty; in that it puts the long-term maintenance in the hands of the professionals.

To do this all the client needs to do is to enter into a maintenance contract with one of Junckers Approved Contractors to carry out this work.

Every 12 - 18 months

We recommend that the Junckers Approved Contractor reviews the floors surface every 12 - 18 months to inspect the condition of the seal and the surface of the wood.

We recommend after this inspection that the floor be abrasive cleaned before applying 1 coat of Junckers High Performance polyurethane seal.

Longer term

We recommend that after the above work is carried out 3-4 times and depending on the condition of the floor, that the Junckers Approved Contractor sands the floor back to bare wood before applying 1 coat of Junckers Proseal Primer and 2 coats of Junckers High Performance polyurethane seal.

Junckers will warrant the life and long-term performance of the floor, as long as the flooring is maintained in accordance with Junckers cleaning and maintenance guidelines and uses Junckers maintenance products!



Total cost of ownership - Lifecycle costs

Essentially sports floors are available in different types of surface material. In each case performance, lifetime expectancy, initial purchase price (which includes installation) and maintenance costs all differ significantly.

But when weighing up the various options, consider the big picture. In other words, how will your sports floor perform over its entire lifetime and how much will the floor cost in total?

Investing a little time and effort in this respect will ensure that you are not misled.

For instance analysis shows that the annual costs of having a hardwood sports floor are significantly lower than those of both PVC and poured urethane sports floors – even though the initial cost of the hardwood floor may be higher. This is because the initial purchase price is a smaller proportion of the total cost of ownership over the years.



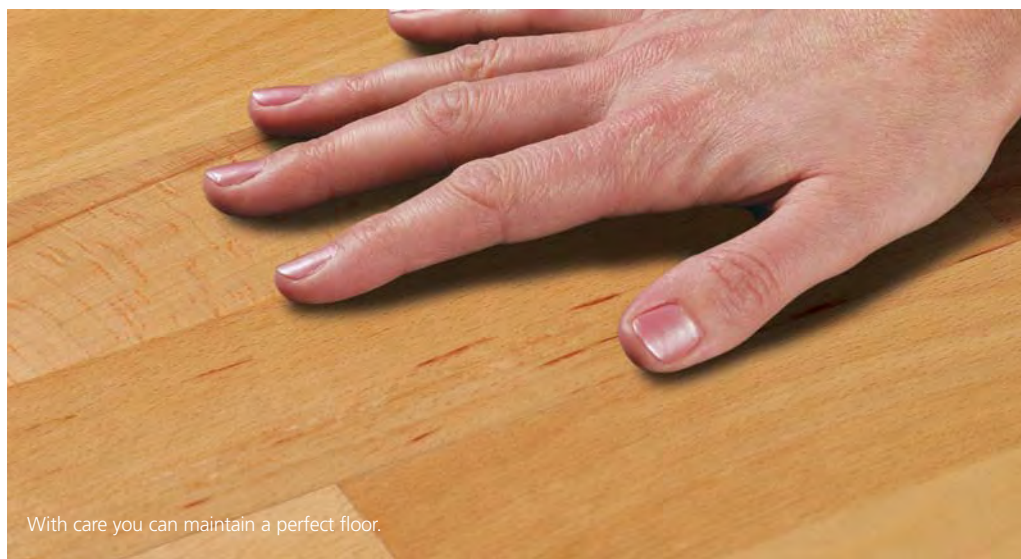
Junckers manufacture a full range of maintenance products

Designed to last with a minimum of fuss

All Junckers sports floor systems are subjected to a fatigue test to ensure that they perform consistently for at least 25 years. As to the floorboards, the expected lifetime is 35 to 40 years.

Junckers flooring systems are available as total concepts, which include pre-finished hardwood flooring, a suitable undercarriage system, bushings, skirtings and line marking paints and seals.

Maintenance makes up the majority of a sports floors life cycle costs. And for this reason Junckers sports floors are designed for easy and efficient maintenance throughout their life.



With care you can maintain a perfect floor.



Accelerated product testing



Can you afford not to have
a Junckers floor?



Junckers. Proven for over 75 years

All our systems are guaranteed for 10 years and on certain projects Junckers will fully warrant, not only the manufacture, supply and performance, but also the installation of the flooring for the lifetime of the floor, which for this purpose will be for 25 years. This will apply only if installed by a Junckers Approved Flooring Contractor and maintained in accordance with our guidelines by a Junckers Approved Contractor.



The Junckers Approved Contractor scheme means that you are getting a team of highly trained flooring contractors, who we have selected for their technical experience and expertise, quality of workmanship and their ability to offer the best possible service on a national basis in the installation of your floor.



We're proud of our floors and with a little care you'll see generations of children, students, athletes both young and old using them with confidence and in complete safety.

Once you've fitted your beautiful Junckers floor it needs caring for. The JunckerCare scheme will look after your floor with the correct maintenance procedures and a programme of servicing, paid for by the client and carried out by the Junckers Approved Flooring Contractor that will keep the floor looking good and performing correctly year after year.



This is vital from a safety aspect, as users of the floor will always be prone to having accidents. So a well, professionally maintained floor will keep the floor within the recognised British and International standards and minimise risks both from an injury point of view and a legal one as well.

Also a perfectly maintained performing floor will lesson the continuous shock to the legs and muscles.



Clients include

Preston School for Performing Arts – Lancs CC
RADA
Siobhan Davis Dance Group.
The London School for Contemporary Dance The Place
St Oswalds School – York
Elmhurst Ballet School – Birmingham
Central School for Speech and Music – London, NW
Haberdashers Askes Hatcham School – London, SE14
Geoffrey Chaucer School – London Borough of Southwark
The Causeway School – Eastbourne, East Sussex CC
St. Johns CEPS – Tunbridge Wells, Kent CC
The Westgate School – Winchester
Canterbury High School
Greville Primary School – Ashted, Surrey CC
Brunel University
Millfield School
Uppingham School
Hampton Schools – Peterborough
Kesgrave High School – Ipswich
Newport Free School – Nr Saffron Walden
University of Hertfordshire
Various Colleges in Cambridge and Oxford
Manchester Commonwealth Games
Crystal Palace
Andover Leisure Centre
Westgate Leisure Centre
Sports Scotland Centers Of Excellence
Dumfries Leisure Centre.
Lagoon Centre Paisley
Forthbank Stirling .
Sports Centre Linkfield Aberdeen Also new sports centres at Sighthill Edinburgh and Scotstoun Glasgow

And PFI scheme as follows:

Edinburgh and Glasgow Schools
Falkirk and East Lothian Schools
Midlothian Schools
Exeter Schools
Ealing Schools
Merton Schools
Sandwell Schools
Leeds Schools
Norfolk Schools
Manchester Schools





Liverpool University



Commonwealth Games 2002



Judo Kwai Dartford



Holmes Place



Junckers. Floors are made from sustainable sourced hardwood

Back in 1930 long before it was politically correct to care about the environment Flemming Juncker was searching for ways to stop the wastage of the valuable resource, which is wood. By finding ways to use the whole tree economically he gave forestry owners an incentive to replant and maintain their trees. This in turn encouraged them to comply with an 1805 law laying down best practice for vigorous replanting and responsible harvesting. Flemming Juncker made forestry viable by using timber resources in the best possible way, which has remained Junckers philosophy to this day.

This makes us highly influential in the running of the forests. The laws passed in 1805 are still in force and are supported by organisations such as FSC, PEFC and WWF. New trees are today planted to such an extent that the total forest area grows each year. This and the fact that the existing forests are thriving is living proof that they are well managed and wholly sustainable.

Junckers manufacturing process uses 100% of the wood – nothing is wasted. Bark, chippings and sawdust waste material from the production is used to fuel our

on-site power station to provide electrical energy for use in the production of our flooring. This also provides electricity for the Danish national grid.

"We believe that the synergy of utilising what was once waste wood, by converting it into a desirable Junckers floor board, which has encouraged the forests to be better managed and as a result produces clean electrical energy is a proud achievement"

Junckers is chain of custody certified for both the timber certification scheme FSC and PEFC. More than 50% of our Beech production and a substantial share of the Oak flooring is available under the PEFC certification scheme. Junckers will continue to work actively together with its local partners and International organisations to preserve the forests in a manner so as to leave wood for future generations to use.

"Remember a forester founded our company and it is our intention to live up to and follow his philosophy."



100% Healthy

Junckers is the only solid hardwood flooring company in the world to be awarded the British Allergy Foundation seal of approval.



JUNCKERS
National Approved Contractor