

# JUNCKERS SPORTS AND DANCE

FLOOR SYSTEMS

  
**JUNCKERS**  
WINNING SPORTS FLOOR SOLUTIONS



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## Introduction

Over 80 years of experience in the hardwood flooring industry has given Junckers the technical expertise to design and supply the correct undercarriage system and high quality hardwood flooring to suit individual sports, multipurpose and dance floors at whatever level is required and has made the company a substantial supplier of sports floor systems all over the world.

# EN 14904

## The European standard for indoor sports floors

The performance of a sports floor is measured according to the European standard EN 14904, which specifies the requirements on the properties of sports floors. The standard divides the sports floors into 4 types:

1. Area-elastic floors: When a point force causes deflection over a relatively large area around the impact point (wood).
2. Point-elastic floors: When a point force causes deflection only at or close to the impact point (vinyl).
3. Combi-elastic floors: An area-elastic floor with a point-elastic top layer, a point force will cause both localized deflection and deflection over a wider area (wood/vinyl).
4. Mixed-elastic floors: Point-elastic floor combined with a synthetic material.

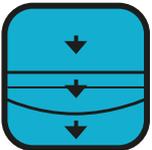
The standard relates to both safety and sports technical properties and the most important key factors are described below.

### Key factors for safety and performance EN 14904



#### SHOCK ABSORPTION

A shock absorbing floor minimises the risk of injuries. Test results display the percentage of shock energy absorbed by the floor when landing after a jump.



#### VERTICAL DEFORMATION

The floor's ability to absorb shock depends on its ability to flex when exposed to a dynamic load. Test results display the floor's vertical deformation in mm when exposed to a dynamic impact equivalent to that of light jogging.



#### BALL BOUNCE

A good ball bounce increases the ball control and the speed of the game. Test results display the rebound achieved by the floor as a percentage of the rebound measured on a concrete floor.



#### FRICITION

Correct friction is important when ball players move rapidly on the floor, and the ideal friction number is between 80 and 110. A friction number less than 80 makes the floor too smooth. A friction number above 110 makes the floor too rough.



#### ROLLING LOAD

The floor's ability to withstand rolling loads is important in circumstances where e.g. carts and retractable seating are utilised. Test results display whether or not the floor can withstand a rolling load of 1,500 N (approx. 150 kgs).



# JUNCKERS SPORTS FLOORS – always area-elastic

Junckers solid hardwood sports and dance floors are categorised as area-elastic, which is the flooring type that provides the best sport performance properties. An area-elastic sports floor allows optimal freedom of movement. It supports the game and protects the player against injury. A large quantity of all sports and dance injuries relates to poor flooring.

EN 14904 sets demands of performance in two classes for area-elastic flooring. The standard performance class A3 and the higher performance class A4.

Junckers offers solutions in both the “standard performance” class A3 and the “high performance” class A4.

Floors in class A3 are particularly suited for dance studios, aerobics, and health studios. Floors in class A4 meet the demands in the high impact sports and high performing dance events.

## Junckers own test programme

In spite of the good intentions of the European standard, there are no demands regarding strength and durability. Therefore Junckers has chosen to integrate two additional internal tests for evidence of these properties.

### Fatigue test

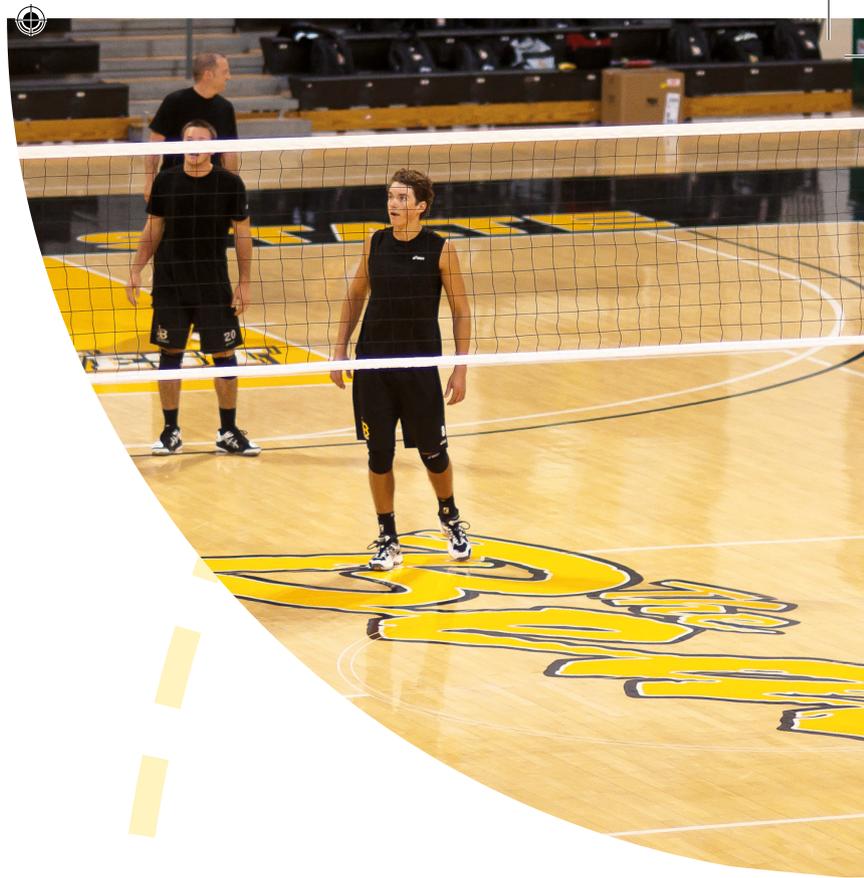
This test is conducted on all Junckers “High Performance” class A4 sports and dance floors. The floor is exposed to a series of controlled, dynamic point impacts of 3 kN (approx. 300 kgs) no less than 100,000 times, which efficiently simulates the equivalent of 25 years of normal use.

### Test of point loads

The demands to the floor’s ability to withstand point loads are stepped up with the increased use of sports floors for exhibitions and fairs, concerts and major sports events where retractable seating is moved across the floors. Here the demands of the EN standards are simply not sufficiently extensive. Therefore, Junckers sports floors undergo rigorous tests in order to ensure durable and versatile floors.



OJD Sport hall  
Denmark



# Choice of subconstruction

Junckers offers both portable and permanent floor solutions and the systems always include a 22mm solid hardwood 2-strip floorboard. The product range of subconstructions match most geometric requirements and solutions for both even and uneven subfloors are available. Table D.1 provides an overview of all Junckers sports and dance floor solutions.

<b>Table D.1</b> <b>Type of system</b>	<b>Class according to En 14904</b>	<b>Required subfloor</b>	<b>Construction height</b>	<b>Use</b>
Clip	A3	Even	32mm	Dance/fitness/aerobics/squash Reurbishment Low impact
BluBAT 52	A3	Even	52mm	Small sport halls, dance/fitness/aerobics/squash Reurbishment Low impact
BluBAT 67	A3	Even	67mm	Small sport halls, dance/fitness/aerobics/squash Refurbishment Low impact
BluBAT 79	A3	Even	79mm	Small sport halls, dance/fitness/aerobics/squash Refurbishment Low impact
A3 Portable	A3	Even	32mm	Dance/fitness/aerobics Temporary use (also over ice rinks) Low impact
UnoBAT 45	A4	Even	45mm	Multi-purpose sport halls/squash courts Refurbishment High impact
UnoBAT 50	A4	Even	50mm	Multi-purpose sport halls/squash courts Refurbishment High impact
UnoBAT 62+ packings excluded	A4	Even	62mm	Multi-purpose sport halls/squash courts Rufurbishment High impact
UnoBAT 62+ packings included	A4	Even/uneven	Min. 82-182mm Max. 114-214mm	Multi-purpose sport halls/squash courts Refurbishment High impact
DuoBAT 120+	A4	Even/uneven	Min. 120-220mm Max. 145-245mm	Multi-purpose sport halls/squash courts Refurbishment High impact
A4 Portable	A4	Even	40mm	Multi-purpose sport halls Temporary use (also over ice rinks) High impact

Each system is described on the following pages.

# DUO BAT 120+

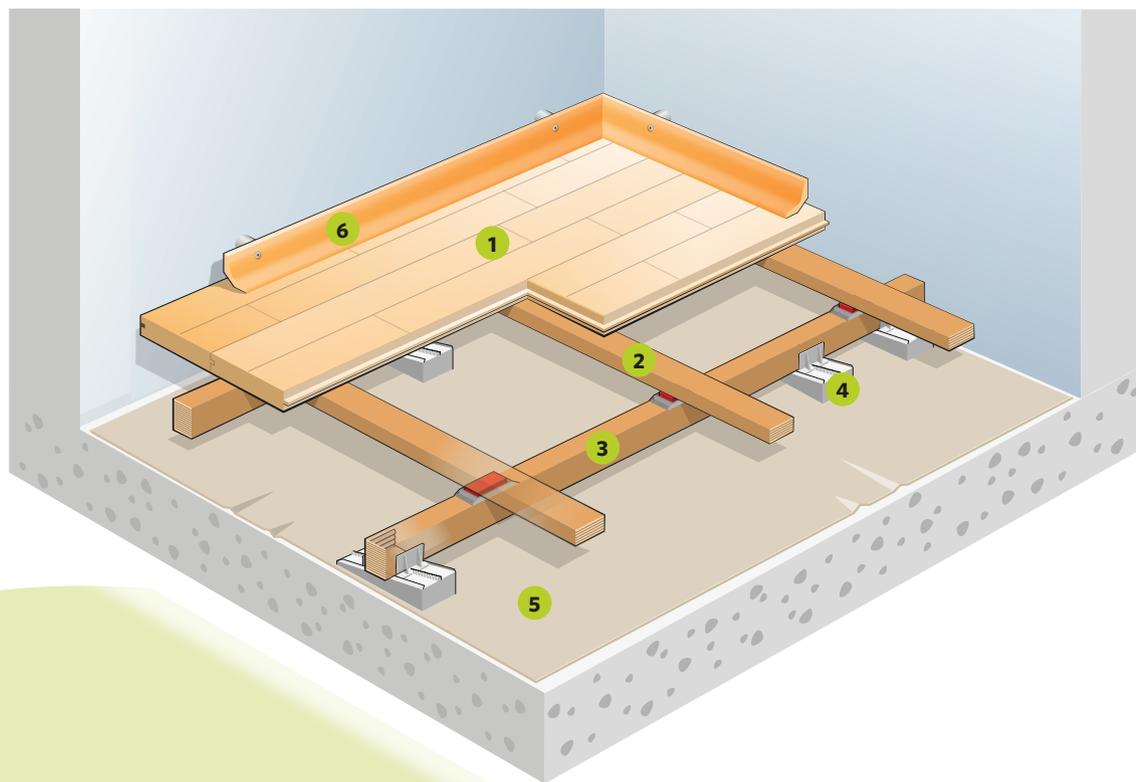
The solid floorboards are nailed to a resilient subconstruction of two layers crosswise-laid engineered battens featuring unique shock absorption rubber pads, which in conjunction with the patented J-Lock system ensures fast and secure connection between the upper and lower battens.

The timesaving levelling system using locking DuoWedges is easily mounted on the battens. Correct height and levelness of the floor is ensured without use of nails and tools.

Range of bases to suit differing heights is available.

Junckers patented levelling system constitutes a basis for levelling the floor in less time than by using standard packing materials.

FACTS:	
Performance	Area-elastic according to EN 14904 class A4
Use	Multi-purpose sports halls/squash courts Refurbishment High impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood
Subconstruction	Two layer batten system
Required subfloor	Even/uneven
Construction height, packings & additional bases included	Minimum 120-220mm Maximum 142-242mm
Junckers 25 years fatigue test	Yes
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

1. 22 x 129 x 3700mm floorboards
2. Upper batten: 25.5 x 60 x 3600mm with rubber shock pad
3. Lower batten: 39 x 40 x 3364mm with J-Lock
4. DuoWedge
5. Polythene moisture barrier
6. Combi sports skirting

TEST:	Requirements EN 14904:A4	Test results
Shock absorption	≥ 55 < 75 %	63%
Vertical deformation	≥ 2.3 < 5.0mm	2.3mm
Ball bounce	≥ 90 %	95%
Friction	≥ 80 ≤ 110	100
Rolling load	≥ 1500 N	✓ 3500 N <sup>1)</sup>
Point load	None	6000 N - 600 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.  
<sup>2)</sup> Junckers' test with 100x100mm point load.

# UNO BAT 62+

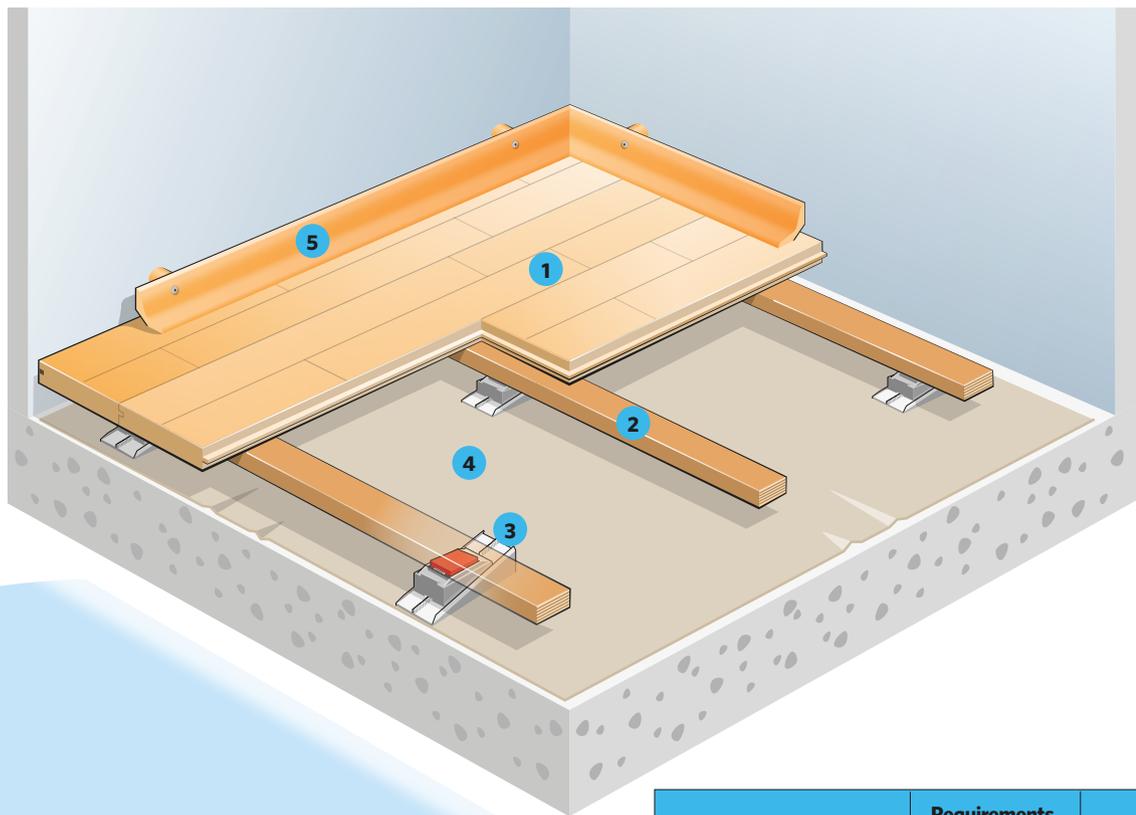
The solid floor boards are nailed to a resilient subconstruction of one layer engineered battens featuring unique shock absorbing rubber pads. Junckers' time-saving levelling system using locking J-LockWedges are easily clicked on to the shock pad. Correct height and levelness of the floor is quickly ensured without use of nails and tools.

Range of bases to suit differing heights is available.

Junckers patented levelling system constitutes a basis for levelling the floor in less time than by using standard packing materials.

J-Lock elements without the locking wedge are available where levelling of the subfloor is not necessary.

FACTS:	
Performance	Area-elastic according to EN 14904 class A4
Use	Multi-purpose sports halls/squash courts Refurbishment High impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Subconstruction	Single layer batten system
Batten centre, c/c	Choice between 336mm and 411mm
Required subfloor	Even/uneven
Construction height, packings excluded	62mm
Construction height, packings/ additional bases included	Min. 82-182mm Max. 109-209mm
Junckers 25 years fatigue test	Yes
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

1. 22 x 129 x 3700mm floorboards
2. UnoBAT 62+ batten: 25.5 x 60 x 3600mm with shock pad
3. J-LockWedge
4. Polythene moisture barrier
5. Combi sports skirting

TEST:	Requirements EN 14904:A4	Test results Batten centre	
		411mm	336mm
Shock absorption	≥ 55 < 75 %	64%	66%
Vertical deformation	≥ 2.3 < 5.0mm	2.4mm	2.5mm
Ball bounce	≥ 90 %	95%	96%
Friction	≥ 80 ≤ 110	100	100
Rolling load	≥ 1500 N	✓ 3000 N <sup>1)</sup>	✓ 3500 N <sup>1)</sup>
Point load	None	5500 N - 550 kgs <sup>2)</sup>	6000 N - 600 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

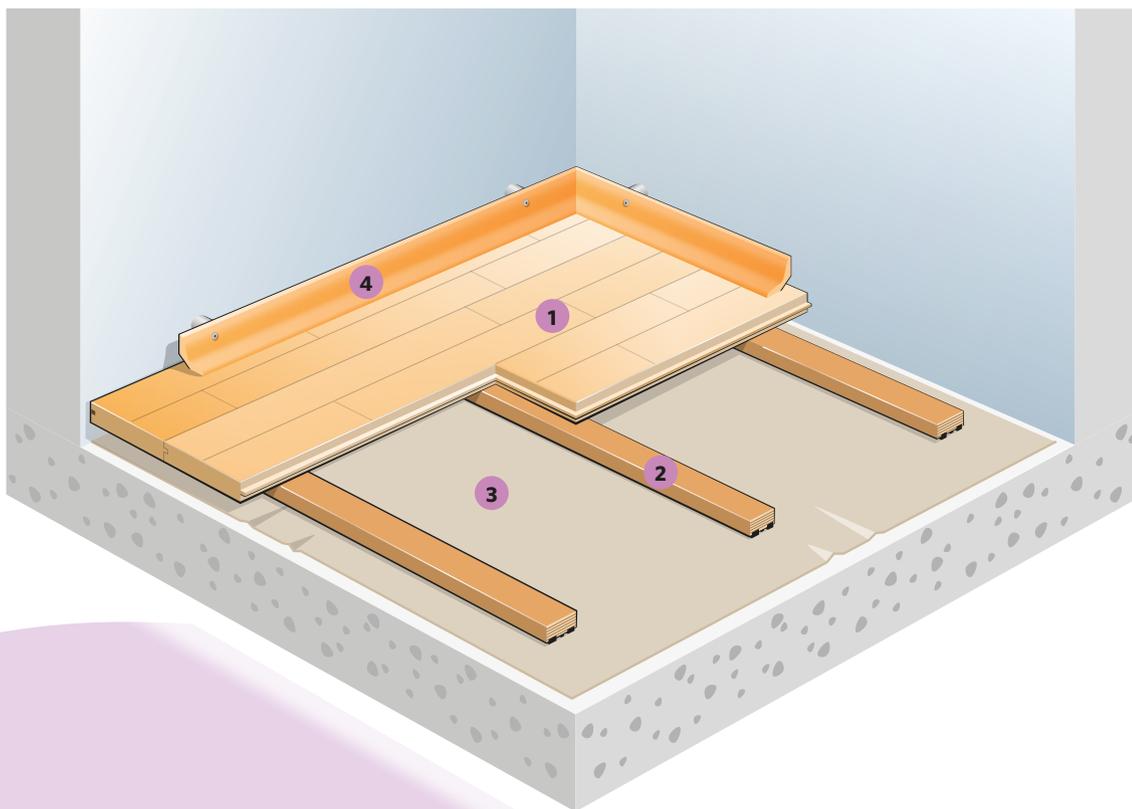
<sup>2)</sup> Junckers' test with 100x100mm point load.

# UNO BAT 50

The solid floorboard is nailed to a resilient engineered batten featuring a unique arrangement of specially developed rubber strips premounted the underside of the batten.

The outer and inner strip differs in density and performance – low density on the outside and high density on the inside. This batten is constructed to produce a two-step absorption effect and includes a built-in deformation limit.

FACTS:	
Performance	Area-elastic according to EN 14904 class A4
Use	Multi-purpose sports halls/squash courts Refurbishment High impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Subconstruction	Single layer batten system
Batten centre, c/c	Choice between 336mm and 411mm
Required subfloor	Even
Construction height	50mm
Junckers 25 years fatigue test	Yes
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

1. 22 x 129 x 3700mm floorboards
2. UnoBAT 50 batten: 28 x 50 x 3600mm, rubber strips included
3. Polythene moisture barrier
4. Combi sports skirting

TEST:	Requirements EN 14904:A4	Test results Batten centre	
		411mm	336mm
Shock absorption	≥ 55 < 75 %	56%	57%
Vertical deformation	≥ 2.3 < 5.0mm	2.8mm	2.4mm
Ball bounce	≥ 90 %	93%	96%
Friction	≥ 80 ≤ 110	100	100
Rolling load	≥ 1500 N	✓ 3000 N <sup>1)</sup>	✓ 3500 N <sup>1)</sup>
Point load	None	5500 N - 550 kgs <sup>2)</sup>	6000 N - 600 kgs <sup>2)</sup>

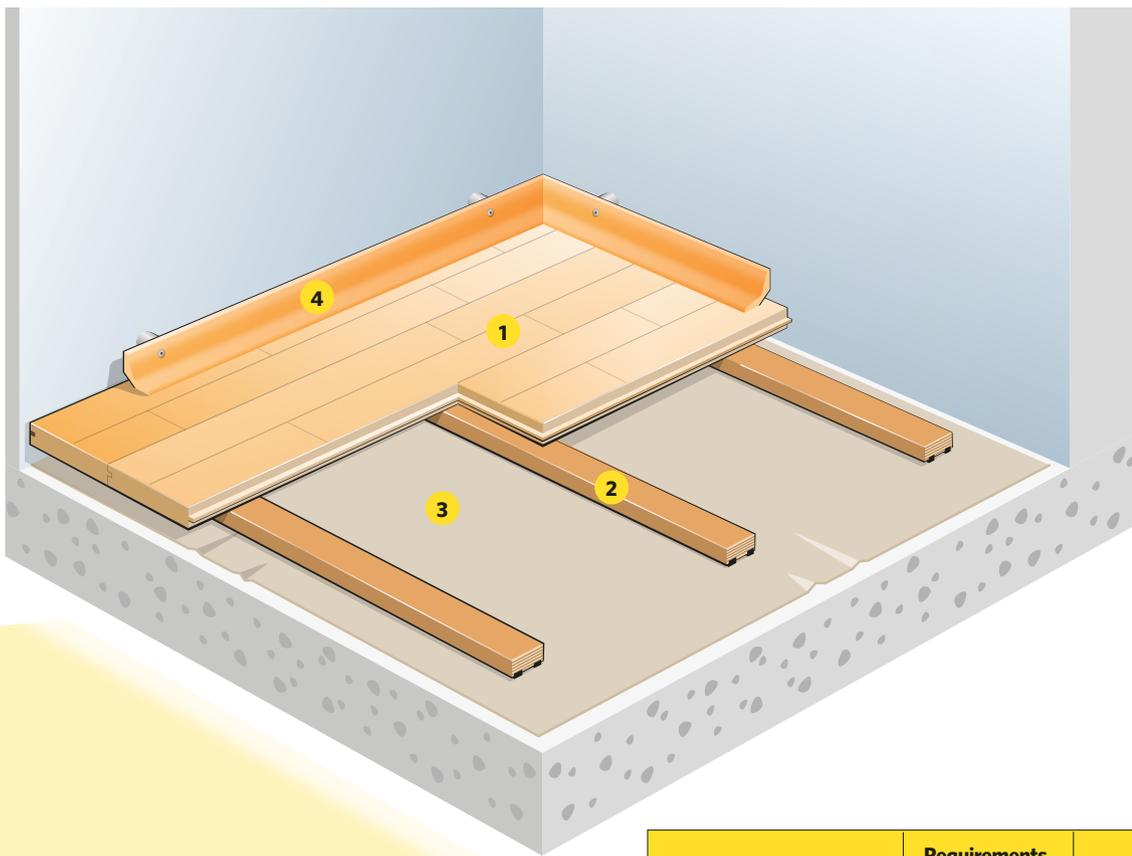
<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

<sup>2)</sup> Junckers' test with 100x100mm point load.

# UNO BAT 45

The solid floor boards are nailed to a resilient subconstruction of one layer engineered battens featuring a unique arrangement of specially developed rubber strips premounted on the underside of the battens.

FACTS:	
Performance	Area-elastic according to EN 14904 class A4
Use	Multi-purpose sports halls/squash courts Refurbishment High impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Subconstruction	Single layer batten system
Batten centre, c/c	Choice between 336mm and 411mm
Required subfloor	Even
Construction height	45mm
Junckers 25 years fatigue test	Yes
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

- 22 x 129 x 3700mm floor boards
- UnoBAT 45 batten: 23 x 50 x 3600mm, rubber strips included
- Polythene moisture barrier
- Combi sports skirting

TEST:	Requirements EN 14904:A4	Test results Batten centre	
		411mm	336mm
Shock absorption	≥ 55 < 75 %	60%	57%
Vertical deformation	≥ 2.3 < 5.0mm	2.9mm	2.4mm
Ball bounce	≥ 90 %	95%	97%
Friction	≥ 80 ≤ 110	100	100
Rolling load	≥ 1500 N	✓ 3000 N <sup>1)</sup>	✓ 3500 N <sup>1)</sup>
Point load	None	5500 N - 550 kgs <sup>2)</sup>	6000 N - 600 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

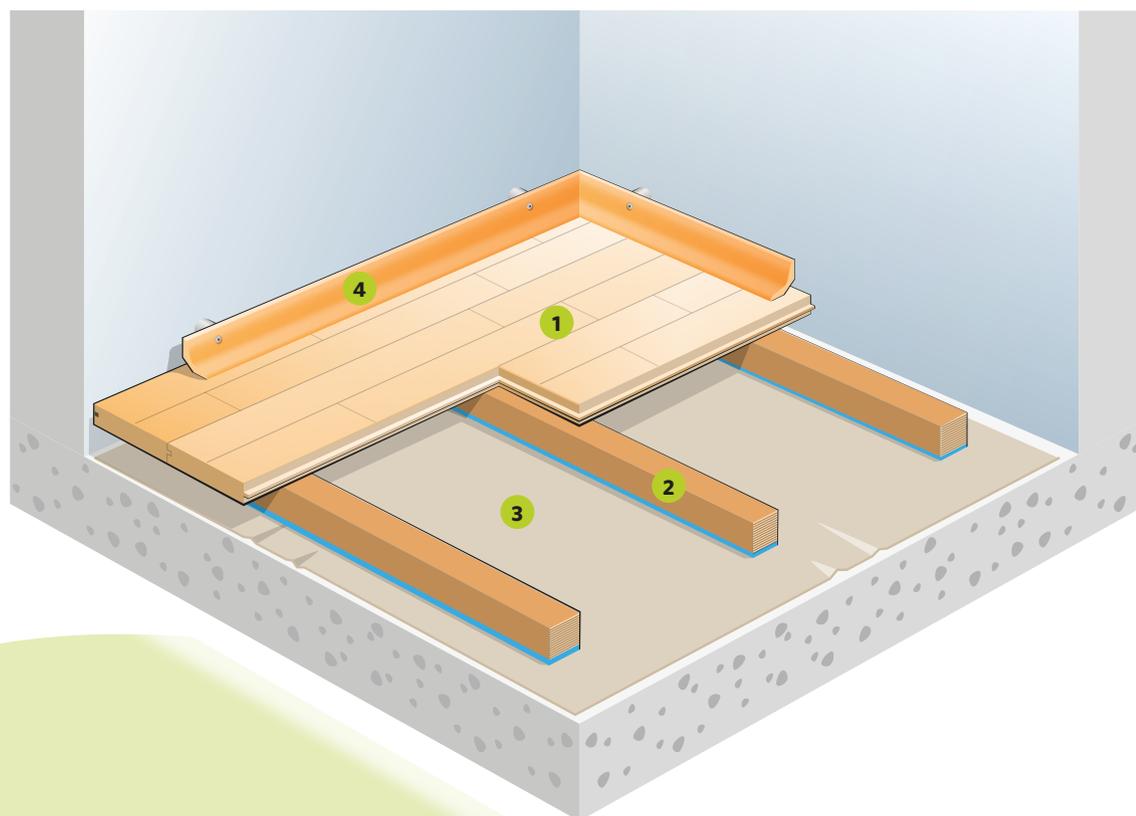
<sup>2)</sup> Junckers' test with 100x100mm point load.

# BLU BAT 52 - 67 - 79

The solid floorboards are nailed to a resilient subconstruction of one layer engineered battens including a continuous layer of 9 mm thick sports foam pre-mounted on the underside of the battens.

There is a choice of 3 batten thicknesses, 30mm 45mm or 57mm.

FACTS:	
Performance	Area-elastic according to EN 14904 class A3
Use	Small sports halls/dance/fitness/squash Refurbishment Low impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Subconstruction	Single layer batten system
Batten centre c/c	Choice between 336mm and 411mm
Required subfloor	Even
Construction height	Choice between 52mm, 67mm, 79mm
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

1. 22 x 129 x 3700mm floorboards
2. BluBAT batten system including sportsfoam
3. Polythene moisture barrier
4. Combi sports skirting

TEST:	Requirements EN 14904:A3	Test results Batten centre	
		411mm	336mm
Shock absorption	≥ 40 < 55 %	55%	53%
Vertical deformation	≥ 1.8 < 3.5mm	1.9mm	1.8mm
Ball bounce	≥ 90 %	100%	98%
Friction	≥ 80 ≤ 110	100	100
Rolling load	≥ 1500 N	✓ 3000 N <sup>1)</sup>	✓ 3500 N <sup>1)</sup>
Point load	None	5000 N - 500 kgs <sup>2)</sup>	5500 N - 550 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

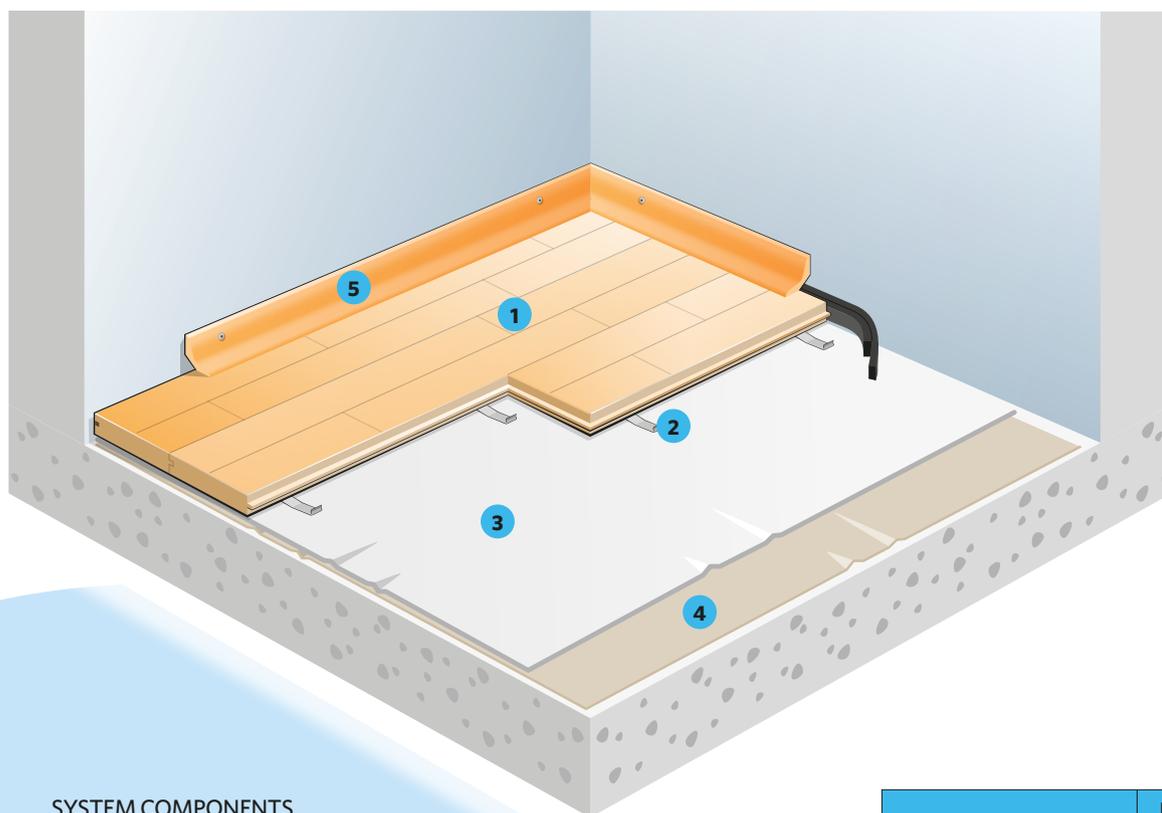
<sup>2)</sup> Junckers' test with 100x100mm point load.

# CLIP SYSTEM

The solid floorboards are laid floating on an underlay of foam and joined together using Junckers unique Clip System.

The intermediate layer of 10mm foam is required to provide correct shock absorption and resilience.

FACTS:	
Performance	Area-elastic according to EN 14904 class A3
Use	Small sports halls/dance/fitness/squash Refurbishment Low impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Subconstruction	Floating floor system
Underlay	10mm SportsFoam
Required subfloor	Even
Construction height	32mm
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

1. 22 x 129 x 3700mm floorboards
2. Clips
3. Junckers SportsFoam
4. Polythene moisture barrier
5. Combi sports skirting

TEST:	Requirements EN 14904:A3	Test results
Shock absorption	≥ 40 < 55 %	46%
Vertical deformation	≥ 1.8 < 3.5mm	2.4mm
Ball bounce	≥ 90 %	98%
Friction	≥ 80 ≤ 110	100
Rolling load	≥ 1500 N	✓ 2500 N <sup>1)</sup>
Point load	None	4000 N ~ 400 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

<sup>2)</sup> Junckers' test with 100x100mm point load.

# PORTABLE A4 SYSTEM

The solid floorboards are preassembled into lightweight panels including prefixed battens mounted with soft rubber pads to provide correct shock absorption and resilience.

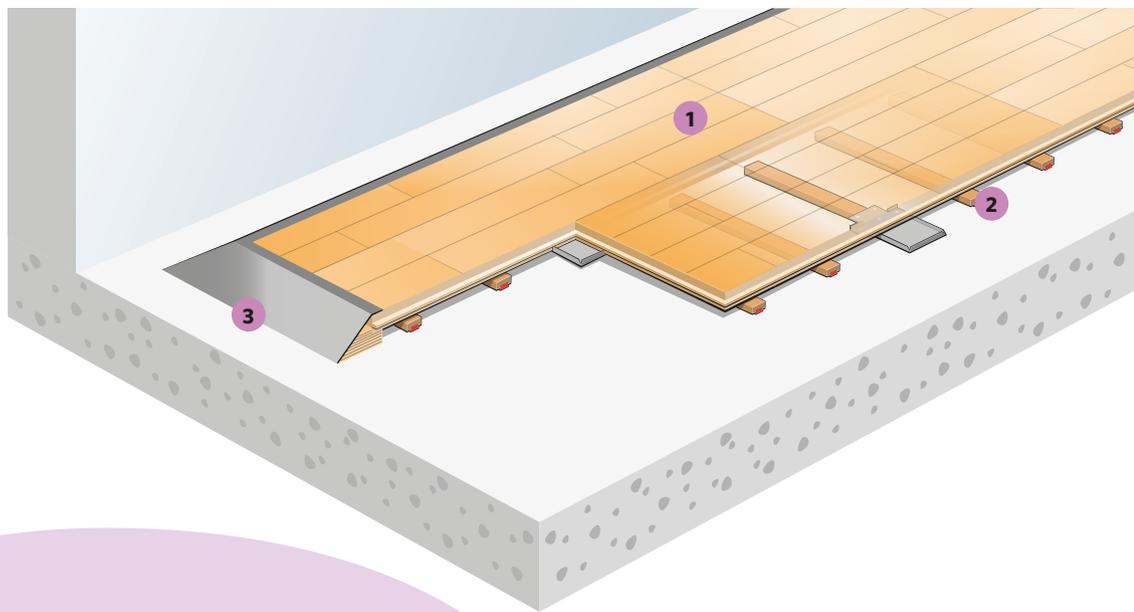
Each panel is easily locked securely into position with a pre-mounted assembling fitting. Lengthwise the panels have a tongue and groove connection and at ends the panels are joined using loose tongues.

For faster and more flexible installation ask for Junckers center row, that makes two way installation possible.

A supporting and protecting edge reducer forms a strong edge for the perimeter of the floor.

Junckers' specially designed storage carts make storage and transportation of the panels easy.

FACTS:	
Performance	Area-elastic according to EN 14904 class A4
Use	Temporary use, sport and non-sporting events Installation over ice-rinks possible High impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Panel size	1/1 panel 0.96 m <sup>2</sup> - 1/2 panel 0.46 m <sup>2</sup>
Panel weight	1/1 panel 17 kgs - 1/2 panel 8.5 kgs
Subconstruction	Single layer batten system
Required subfloor	Even
Construction height	40mm
Junckers 25 years fatigue test	Yes
Sanding and re-sealing	Yes 8-10 times
Suitable for underfloor heating	Yes



## SYSTEM COMPONENTS

1. Floor panels:
  - 1/1 panel 22 x 513 x 1800mm
  - 1/2 panel 22 x 513 x 900mm
2. Prefixed battens with shock pads
3. Supporting edge reducer

TEST:	Requirements EN 14904:A4	Test results
Shock absorption	≥ 55 < 75 %	62%
Vertical deformation	≥ 2.3 < 5.0mm	3.3mm
Ball bounce	≥ 90 %	92%
Friction	≥ 80 ≤ 110	100
Rolling load	≥ 1500 N	✓ 3000 N <sup>1)</sup>
Point load	None	5000 N ~ 500 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

<sup>2)</sup> Junckers' test with 100x100mm point load.

# PORTABLE A3 SYSTEM

The solid floorboards are preassembled into light weight panels and laid floating on an underlay of foam. Each panel is easily locked securely into position with a premounted assembling fitting. Lengthwise the panels have a tongue and groove connection and at ends the panels are joined using loose tongues.

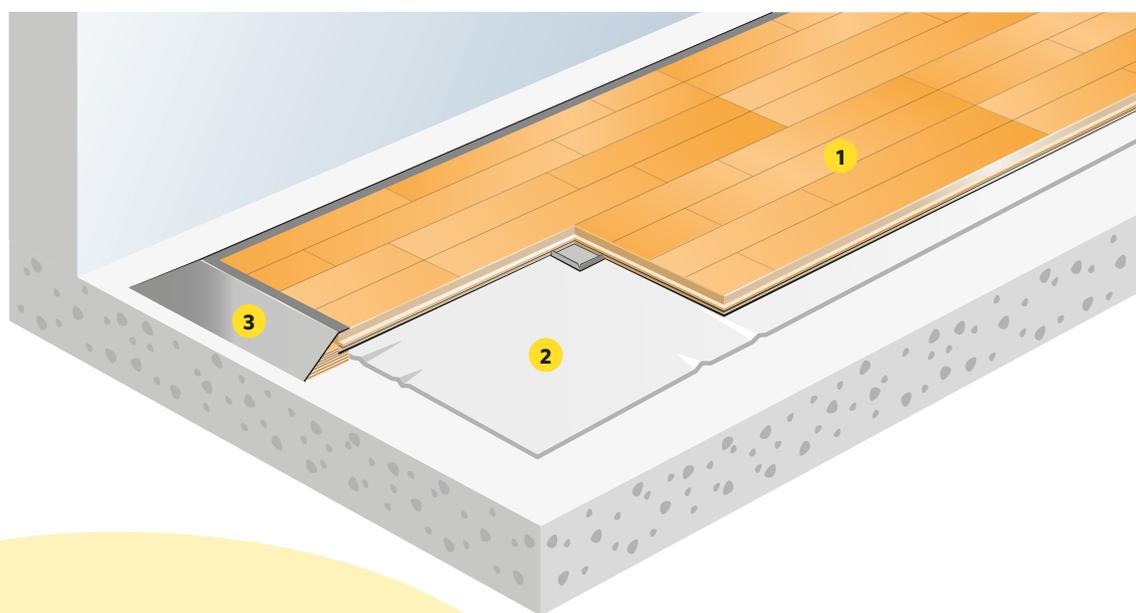
For faster and more flexible installation ask for Junckers center row that makes two way installation possible.

The intermediate layer of 10mm foam is required to provide correct shock absorption and resilience.

A supporting and protecting edge reducer forms a strong edge for the perimeter of the floor.

Junckers' specially designed storage carts make storage and transportation of the panels easy.

FACTS:	
Performance	Area-elastic according to EN 14904 class A3
Use	Temporary use, sport and non-sporting events Installation over ice-rinks possible Low impact sport
Floorboard type	Prefinished 22mm 2-strip solid hardwood parquet
Panel size	1/1 panel 0.96 m <sup>2</sup> - 1/2 panel 0.46 m <sup>2</sup>
Panel weight	1/1 panel 15 kgs - 1/2 panel 7.5 kgs
Subconstruction	Floating floor system
Underlay	10mm SportsFoam
Required subfloor	Even
Construction height	32mm
Sanding and re-sealing	Yes 8-10 times
Suitable for under floor heating	Yes



## SYSTEM COMPONENTS

1. Floor panels:
  - 1/1 panel 22 x 513 x 1800mm
  - 1/1 panel 22 x 513 x 900mm
2. Junckers SportsFoam
3. Supporting edge reducer

TEST:	Requirements EN 14904:A3	Test results
Shock absorption	≥ 40 < 55 %	46%
Vertical deformation	≥ 1.8 < 3.5mm	2.0mm
Ball bounce	≥ 90 %	99%
Friction	≥ 80 ≤ 110	100
Rolling load	≥ 1500 N	✓ 2500 N <sup>1)</sup>
Point load	None	4000 N ~ 400 kgs <sup>2)</sup>

<sup>1)</sup> Junckers' test with solid rubber wheels, width = 50mm, diameter = 100mm.

<sup>2)</sup> Junckers' test with 100x100mm point load.

129 mm

3700 mm

# CHOICE OF FLOORBOARD

## Facts of a Junckers sports floorboard

### The Double dovetail

Junckers 2-strip solid hardwood floors are manufactured from two rows of staves assembled by means of a carefully machined double dovetail joint.

Using a dovetail joint to assemble the floorboard allows the staves to move individually and this creates a floor free of tension.

### Unique press-drying process

The beech staves undergo a unique press-drying process at the factory.

Compared to similar flooring products on the market, this creates an outstanding strength and stability of the wood.

### Floorboard dimension

Thickness: 22mm

Width: 129mm

Uniform floorboard lengths of 3700mm.

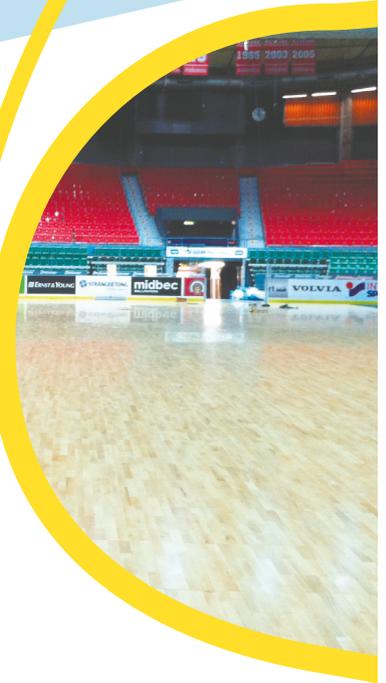
Each floorboard covers approx. 0.5 m<sup>2</sup> - ensures quick and easy installation.

The 2-strip floor boards are tongued and grooved on all four sides.

### Factory finished - ready for use

Junckers floorboards are factory finished products and ready for use when fitted.

The surface is treated with several coats of hard-wearing polyurethane lacquer.



Scandinavian Gothenburg  
Portable A4  
Installation over ice-rink

129 mm

### Beech SylvaSport

Width: 129 mm  
Thickness: 22 mm

One of Junckers' classic floors. A beautiful light-coloured timber with a warm, golden grain pattern.



### Beech SylvaKet

Width: 129 mm  
Thickness: 22 mm

Vacuum fumed Beech with a brownish appearance. SylvaKet is a shade darker than Oak and can be sanded without loss of colour.



### Maple

Width: 129 mm  
Thickness: 22 mm

Maple has a very uniform and gentle grain pattern and the natural light colour provides a very exclusively looking floor.



### Ash

Width: 129 mm  
Thickness: 22 mm

Ash is a light-coloured, elegant timber, which gradually assumes a warm and beautiful golden glow.



## Mind, body and Soul+Collection

Junckers believes that creativity and expression can be a part of performance and fitness flooring. Warmer wood tones can provide the ideal healing backdrop for wellness centers, Yoga and Pilates.

More vibrant hues can offer the right amount of pizzazz for Zumba and other exhilarating activities in group exercise areas. When sports flooring subfloor systems are combined with innovative colours and species of Junckers Soul+Collection, an unlimited, high performance colour pallet becomes reality.

Coloured floor boards are available together with Junckers Clip, BluBAT, UnoBAT or DuoBAT systems.

### Colour impregnated boards



SylvaRed

REAL



SmoothRum

SpicyPepper

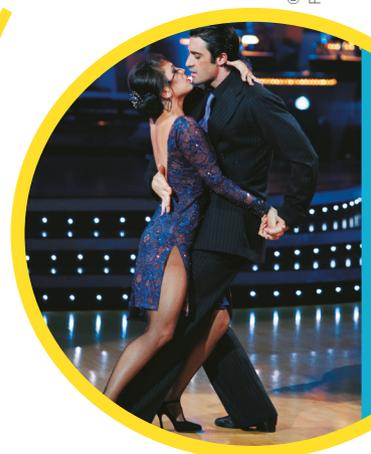
WildHazel

RawSugar

DarkCoco

TenderOlive

RawSugar



REFLECTION

©PHOTOGRAPHER/ABC  
From ABC's Dancing With The Stars

Slightly roughened surface,  
60 grit finish

**DUO BAT 120+**

**UNO BAT 62+**

**UNO BAT 50**

**UNO BAT 45**

**CLIP SYSTEM**

**BLU BAT 52-67-79**

## ***SYLVA SQUASH***

### The right surface for squash and racketball

Extremely fast games such as squash and racketball needs a surface with a high degree of friction and together with any of Junckers approved EN 14904 subconstructions the Beech SylvaSquash floorboard offers the necessary performance characteristics for these types of sports.

Junckers SylvaSquash comprises a solid 22 mm thick Beech floorboard, champion grade.

The floorboard is unsealed with a slightly roughened surface (60 grit finish) and this provides the high level of friction required by the sport, while still keeping risk of injury to an absolute minimum. The natural light colour of beech makes it easy to follow the ball in play.



Junckers SylvaSquash floorboards are accredited by England Squash, SRA and WSF.

### SylvaSquash prefinished with lacquer

An unsealed finish is the first recommendation by the SRA, England Squash and the WSF, but SylvaSquash floorboards are also available with one coat of factory applied polyurethane lacquer.

This makes the floor less sensitive to dirt, easier to clean and provides longer durability of the surface.

**WORLD SQUASH**

ACCREDITED PRODUCT 2012/13

SylvaSquash Flooring System



## A life span of more than 25 years

Many solutions may appear cheap on a short-term basis, but when it comes to sports floors, the perspective will have to be stretched beyond the first few years. When that is done, even the most expensive initial solution may turn out to be cheap in the long run, and vice versa. Given proper care and attention, a Junckers sports floor will easily have a life span of more than 25 years while requiring only a minimum of maintenance. A Junckers solid hardwood sports floor also offers the option of repair, sanding and re-lacquering. The floor can be restored to its original condition over and over again.

### Keep an eye on the floor

Checking the floor on a regular basis often proves to be wise, and through a Junckers partner we offer periodical visits, where the overall condition of your floor is checked and tested. These visits make it easy to keep the floor in perfect condition for years to come.



## JUNCKERS – sports lacquer for maintenance

Approved according to EN 14904

Junckers prefinished sports floors are very wear-resistant, however maintaining the floor on a regular basis contributes to sustaining a long life span. Daily care is done by sweeping or vacuuming, but when necessary the surface is easily renewed by a light sanding and then applying one coat of Junckers own produced water-based sports lacquer.





## JUNCKERS – line marking paint

Approved according to EN 14904

After installation the sports floor only needs line markings and for this Junckers own produced line marking paint is the perfect solution.

Junckers water-based line marking paint is available in colours of white, red, green, blue, yellow and black.



## UNDERFLOOR HEATING – suited for a Junckers sports floor

Junckers sports floors are adaptable and can be installed in almost any setting. The floors are suited to both hot water and electrical systems. Please contact us for further guidance, if you are considering the use of a Junckers sports floor over underfloor heating.

Gammel Hellerup Gymnasium, Denmark  
Ash, installed on a UnoBAT 45

# ACCESSORIES

## JUNCKERS COMBI SPORT SKIRTING

Junckers Combi Sport Skirting has been designed in such a way that it can be used for floating sports floor systems and where ventilation of the perimeter is required. The skirting can be installed either way up, to provide maximum height or maximum cover.

Installation with fittings for ventilating the substructure and without fittings where ventilation is not required. Dimension: Height 48 mm x width 38mm



## MOISTURE BARRIER

To ensure a safe and fast installation Junckers offers an extra wide PE-membrane. The PE-membrane has a width of 4 metres and on the membrane is shown a marking line, which clearly indicates where the overlap has to be. It is manufactured in a recyclable material in consideration of the environment.

## JUNCKERS SPORT SKIRTING

Junckers Sport Skirting is designed for floor systems, where ventilation of the substructure is required. The skirting consists of a wall and a floor moulding joined together by metal fittings. Dimension: Height 72mm x width 50mm.

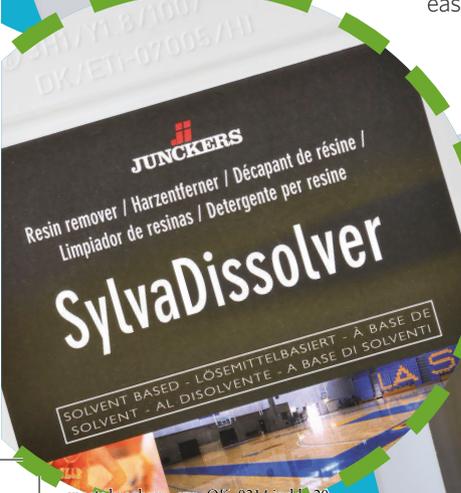
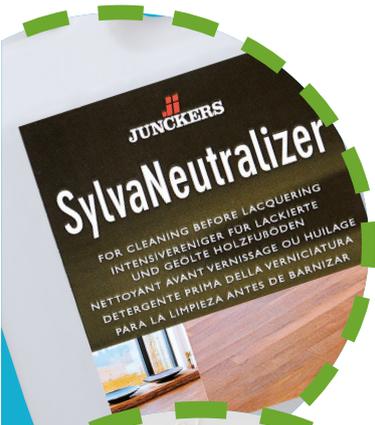
## JUNCKERS WOOD CARE PROGRAM FOR DAILY CARE

Junckers range of care and maintenance products makes daily cleaning of solid hardwood sports floors easy.



## BUSHINGS

To ensure optimum flexibility Junckers offers a range of bushings, which allow fast and efficient changes from e.g. handball to badminton or volleyball.



# ENVIRONMENT

Flemming Juncker, the founder of Junckers, was a forester. When he started the production of parquet floors in the 1930s, he tried to utilise the parts of the hardwood trees which were then only used as firewood.

This resulted in a more profitable utilisation of the wood resources and thus gave the forest owners a better financial basis for replanting and maintaining their forests. Through the better utilisation of the wood resources, Flemming Juncker contributed to making forestry viable, and this is still Junckers' philosophy. In the regions where we source our wood for sports and dance floors, new trees are 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. Junckers' manufacturing process uses 100% of the wood. By-products such as bark, chippings and sawdust are used to fuel the on-site power plant providing electrical power and steam for use in the production of our flooring in Køge. Actually the contribution to the production of energy is larger than what is possible to use at the factory and therefore the plant also provides electricity for the Danish national grid.

This makes Junckers a CO2 positive company.

# CERTIFICATIONS

ISO 14001	Chain of custody certifications	Danish Indoor Climate	Declaration of Performance
<p>Junckers is certified according to ISO 14001 and the European EMAS scheme. Additionally, the environmental management system also comprises areas such as energy and safety in connection with electrical work.</p>	<p>Junckers is chain of custody certified and, therefore, entitled to sell products which are certified according to the PEFC and the FSC schemes. We will continue to work actively together with our local partners and international organisations to preserve the forests in a manner so as to leave forests for future generations to use.</p>	<p>A Junckers sports floor contributes to a healthy indoor climate without static electricity or degassing. The Junckers solid hardwood floors have been certified according to the Danish Indoor Climate organisation by the Danish Technological Institute.</p>	<p>All Junckers sports floors are CE marked. This implies that the floors must comply with EU standards relating to e.g. fire resistance, environment (release of chemical substances), compressive strength, friction and reflection of light for sports floors.</p> <p style="text-align: center;"><b>CE</b></p>



## REFERENCES

### ASIA & PACIFIC

#### Hong Kong

Yuen Long Area 13 School  
Hong Kong  
2,800 sq.m.

#### Kowloon Park Redevelopment

Hong Kong  
1,967 sq.m.

#### Tung Chung IRC

Hong Kong  
2,200 sq.m.

#### St. Paul Co-ed College Primary School

Hong Kong  
1,500 sq.m.

### CHINA:

#### Guangzhou Tianhe Gymnasium

Guangzhou  
2,300 sq.m.

#### Beijing Sports University

Beijing  
12,000 sq.m (3 sportshalls)

### Taiwan:

#### Taipei Municipal Nei-Hu High School

Taipei Nei-Hu  
1,186 sq.m.

#### Taipei County Yingge Vocational High School

Taipei County Yingge  
1,106 sq.m.

#### Kaohsiung Arena

Kaohsiung  
1,040 sq.m.

### New Zealand:

#### Porirua Sports and Events Centre

Wellington  
3,400 sq.m.

#### Arena Manawatu

Palmerston,  
2,500 sq.m.

#### Saxton Indoor Sports Stadium

Nelson  
3,800 sq.m.

#### Waitekere Stadium

Auckland  
5,800 sq.m.

### EUROPE + RUSSIA (CIS):

#### Germany:

Frankfurt Halle  
Frankfurt  
1,400 sq.m.

#### Campushalle Flensburg

Flensburg, Germany  
1,000 sq.m.

#### Latvia:

Cesis Arena  
Cesis, Latvia  
2,100 sq.m.

#### Croatia:

#### Sporthalle Grundschule Mejasi

Split, Croatia  
1,450 sq.m.

#### Cyprus:

University of Cyprus  
Nicosia  
1,500 sq.m.

#### Latsia Gymnasium

Nicosia  
1,600 sq.m.

### Denmark:

#### Gigantium

Aalborg  
1,000 sq.m.

#### NRGI Arena

Aarhus  
1,200 sq.m.

#### Odense Kongrescenter

Odense  
3,000 sq.m.

#### KEF-Centret

Kolding  
1,100 sq.m.

### England:

Glasgow Commonwealth Games 2014  
Glasgow

#### Crystal Palace Sports Centre

Crystal Palace, London  
2,500 sq.m.

#### London School for Contemporary Dance

The Place  
1000 sq.m.

#### NIKE Regal Sports Centre

London  
600 sq.m.

#### Guildford Spectrum Leisure Ctr.

Sports Hall, Guildford  
670 sq.m.

### France:

#### Dojo of Ceyrat

Ceyrat Department 63  
2,452 sq.m.

#### Rink Hockey Sport Room

Auxerre Department 89  
1,803 sq.m.

### Ireland:

#### UCC Mardyke Arena

Main Sports Hall, Cork  
1,080 sq.m.

#### Killarney Sports & Leisure Complex

Main Sports Hall, Kerry  
1,200 sq.m.

### Lithuania

#### Siemens Arena

Vilnius  
615 sq.m.

#### Lietuvos Ryto Arena

Vilnius  
600 sq.m.

### Greece:

#### Hellenic Arena

Athens  
1,800 sq.m.

### Azerbaijan

#### Jalilabad Olympic Sport Complex

Jalilabad  
1300 sq.m.

### Poland:

#### Spodek Sports Hall

Katowice  
1,750 sq.m.

#### Mosir Lodz

2,300 sq.m.

#### Adam Mickiewicz University

Poznan  
1,600 sq.m.

#### Ustrzyki Dolne Sports hall

1,100 sq.m.

Bielsko-Biala Multipurpose Sports hall  
1860 sq.m

The Japanese  
Martial Arts and Sports Centre Dojo  
Stara Wieś  
1,630 sq.m

**Romania:**  
Polivalenta Arena  
Bucarest  
1,200 sq.m.

**Russia:**  
CSKA Moscow Basketball Club  
Moscow  
850 sq.m

Sports Complex Gazprom Neft  
Saint Peterburg  
775 sq.m

Sports School of Olympic Reserve  
Moscow  
750 sq.m

**Georgia:**  
Sports Palace  
Tbilisi  
1,400 sq.m

**Serbia:**  
Primary School, Dusan Radovic  
Nis  
1,000 sq.m.

Belgrade Arena  
Belgrade  
1800 sq.m

**Slovakia:**  
Aréna Poprad  
Poprad  
1,550 sq.m

Mestská Hala  
Presov  
1,727 sq.m.

Športová hala Pasienky  
Bratislava  
1,000 sq.m

**Spain:**  
Palacio de Los Deportes Santa Cristina  
Torrevieja (Alicante)  
3,151 sq.m.

Agrupacion Deportiva San Juan  
Pamplona  
1,673 sq.m.

#### **MIDDLE EAST:**

**Egypt:**  
Cairo Stadium  
Cairo Stadium Squash Center  
Nasr City, Cairo  
320 sq.m.

**Iran:**  
Mashhad University  
Mashhad  
2,800 sq.m

**Kuwait**  
Al Oyoum Club, Kuwait Olympic Committee  
Gahra  
1400 sq.m

**Sultanate of Oman:**  
19th Arabian Gulf Cup  
SQSC-Bowsher, Muscat  
608 sqm.

**UAE**  
Masdar City Sports Hall  
Abu Dhabi  
1394 sq.m

American School Sports Hall  
Dubai  
1200 sq.m

**USA:**  
**California:**  
Cal State University of Long Beach  
Long Beach, California  
3,300 sq.m.

Southwest College  
California  
1,000 sq.m

Dancing With The Stars Show  
California  
200 sq.m

Torah Academy  
New York  
1,000 sq.m

Arcadia High School  
California  
1,800 sq.m

Hooptown  
Tennessee  
1,200 sq.m

City of Kingsport  
Tennessee  
1,200 sq.m

Speyer Legacy School  
New York  
600 sq.m

Pacific Grove Middle School  
California  
600 sq.m

#### **SOUTH AMERICA**

**Chile:**  
Gimnasio Goodness  
Los Angeles  
133 sq.m

#### **OLYMPIC STADIUMS**

**Russia**  
Kazan Universiade, 2013  
10,000 sq.m

**United Kingdom**  
Olympics London, 2012,  
Handball Court  
3,000 sq.m.

**Singapore**  
Singapore Youth Olympics, 2010  
Portable Flooring  
1,000 sq.m.

**China**  
Beijing Youth Olympic Games, 2009  
Portable Flooring  
4,500 sq.m

Beijing Olympic Games, 2008  
12,000 sq.m Flooring

**Greece**  
Olympics Athens, 2004

...AND COUNTLESS MORE ALL OVER THE WORLD



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