

NEW ERA LEVELLING SYSTEMS

Levelling system for flat or
uneven subfloors



JUNCKERS

Performing on Danish design

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PERFORMANCE ENHANCED

Junckers New Era system is a quick and versatile floor levelling system designed for the easy installation of Junckers floors over uneven or varying height sub floors and is especially suitable where a screed needs to be omitted to save drying time.

The New Era system uses moulded cradles of different heights to support softwood or laminated battens on to which the floor boards are fixed. New Era will provide a floor system which varies in height between 60mm and 449mm over all. The battens are levelled within the cradles using purpose made packing pieces.

As part of the Junckers floor installation the New Era system will retain its high performance for the life of the floor and is included in the 25 year product and installation guarantee.

The New Era system is very easy to use. The cradles offer dual height depending upon which way the battens are fitted into them. This reduces the range of cradle sizes needed and makes levelling easier.

The cradles have a 10mm thick foam base and the system is easily packed and levelled.

The battens are produced from dried and selected softwood from FSC® and PEFC™ approved sources. The battens are laminated to provide a high degree of strength, straightness and uniformity.

The Junckers 22mm or 20.5mm thick floor boards are secret-nailed to the battens. The system will provide a floor construction starting from 60mm upwards and it is suitable for use with under floor heating. Batten size 63mm x 45mm is available where a cost-effective floor with 150mm elevation is required.



NEW ERA SYSTEM

Main features

- Multi purpose floor levelling system
- No need for a screed – saves drying time
- Suitable for use with under floor heating
- Quick and easy to install
- Range of cradles to suit differing heights. Ranges from 60mm up to 449mm in height
- Economical and versatile
- Fully tested and conforms to BS EN 14904 class A4 (A3 using 63mm battens)
- Specific acoustic and high performance sports systems
- Made from FSC® and PEFC™ certified materials
- Formaldehyde emissions, our floors are classified as E1 in accordance with EN 14342
- BRE Green Guide to Specification category A+
- VOCs; our floor systems comply with EU Council Directive 1999/13/EC in respect of limits of VOC emissions

THE NEW ERA UNOBAT SYSTEM

Sports, Dance and Multi-purpose - Tried and Tested

A MULTITUDE OF USES

Residential and commercial buildings, public buildings, galleries and museums are all perfect locations for the New Era system. It is an ideal choice where a hardwood floor with good load bearing capabilities and high durability is needed and it can easily accommodate under floor heating and other services beneath the floor boards.

Junckers has carried out extensive development and testing work to provide customers with a high performance levelling system which meets the current EN standard for sports flooring. It is also the first choice for sports halls, dance studios, performance spaces and multi-purpose halls. The system has a very good load bearing capability whilst maintaining its excellent safety and shock absorption characteristics.

The system meets the highest level of performance under EN 14904 and is Class A4 rated. (A3 with 63mm battens). This standard sets out the required level of performance for area elastic floors including ball bounce, vertical deformation and shock absorption. This makes it ideal for sports and dance floors.

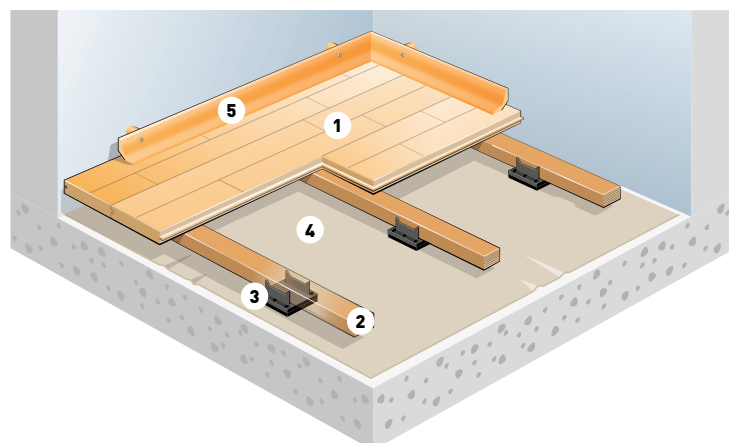
New Era UnoBat is the first choice for a high performance area-elastic sports or dance floor, where acoustic insulation is required, where under floor heating is specified, and is a versatile solution for many "difficult" subfloor problems.

THE NEW ERA ACOUSTIC SYSTEM

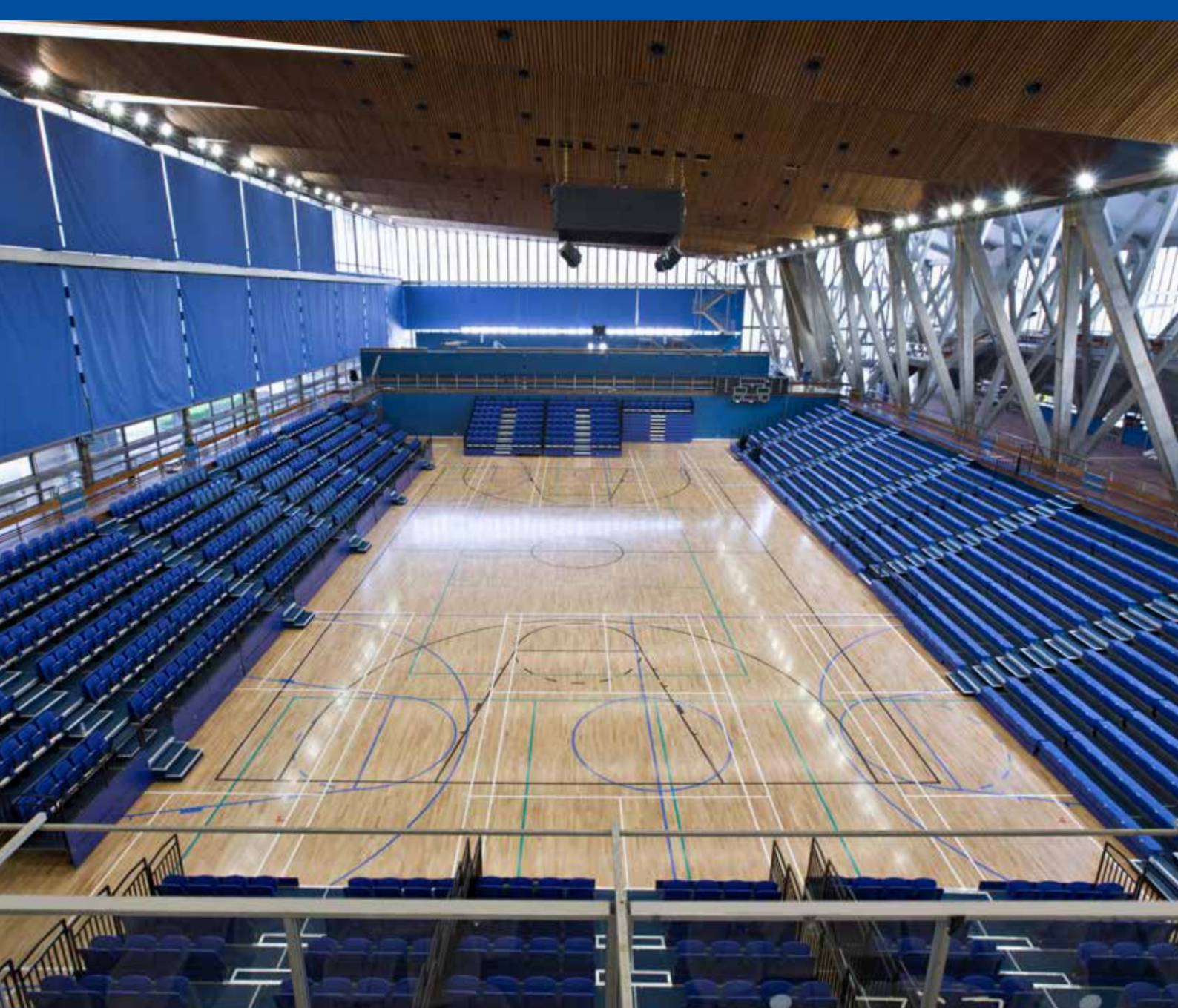
With a high level of impact sound resistance the New Era Acoustic System plays a major role in creating a comfortable environment to live and work in.

The New Era Acoustic cradles have a special 10mm thick rubber base in place of the 10mm thick foam to achieve improved sound reduction levels. Designed to meet the requirements of Approved Document E of the Building Regulations, England, Wales and N Ireland, and Document H of the Scottish Building Regulations and tested in accordance with appendix D of Robust Details, the new system offers the specifier and installer the chance to supply an impact sound reducing levelling system with the added benefits of a hardwood floor. 22mm boards nailed to the cradle system with insulation between the battens provides minimum 26dB impact sound reduction.

New Era Acoustic system is an excellent choice to be used for separating floors in residential or commercial buildings.



1. Junckers 22 x 129 x 3700 mm floorboards 2. New Era battens 3. New Era cradles
4. Sylvathene moisture barrier 5. Skirting



LOADING

Supports rolling loads of up to 250kg per wheel and uniform area loads of 5kN per square metre.

New Era UnoBat floors are the ideal solution where retractable “bleacher” seating systems are used and can accommodate most types of indoor access and maintenance equipment. A wide range of loading levels can be accommodated by adapting the layout of the New Era system to suit increased loads, whilst retaining the “sprung” quality of the floor.

The “Evazote” foam used for the resilient pads on the New Era UnoBat system is noted for its excellent recovery after compression under load. Contact Junckers technical department for project-specific advice.

	Requirements EN 14904:A4	Test results
Shock absorption	≥ 55 < 75 %	65 %
Vertical deformation	≥ 2.3 < 5.0 mm	2.8 mm
Ball bounce	≥ 90 %	91%
Friction	≥ 80 ≤ 110	- 85
Rolling Load	≥ 1500 N	✓ 2500 N ¹
Point load	None	4500 N ~ 450 kgs ²

1) Junckers test with solid rubber wheels: width 50 mm, diameter 100 mm.

2) Junckers test with 100x100 mm point load.

NEW ERA SYSTEMS DETAILS

ULTRA SLIM SYSTEM - using 22mm thick battens and 16mm cradles

	Construction height and packing range (incl. floor board)	Cradle Centres	No. of cradles per m ² of flooring (411 batten centres)	Metres of batten per m ² of flooring (411 batten centres)
S Zero Cradle	60mm - 72mm	300mm	10 No.	2.7 m

NEW ERA SYSTEM

	Construction Height & Packing Range (incl. board)	Construction Height & Packing Range (incl. board)	Construction Height & Packing Range (incl. board)	FLOOR COMPONENTS REQUIRED
New ERA systems	22mm floor 36mm batten	22mm floor 48mm batten	22mm floor 63mm batten	
Cradle centres	450mm	600mm	700mm	
Cradles required per m ² Linear metres of batten per m ² of flooring. (411 mm batten centres)	6.6 no 2.7m	5.0 no 2.7m	4.5 no 2.7m	

Dual Height Units S1 Dual S2 Dual	74mm - 103mm 103mm - 133mm	86mm - 115mm 115mm - 145mm	101mm - 130mm 130mm - 160mm	16mm/ 31mm dual height cradle 45mm/ 60mm dual height cradle
Dual Height Units S3 Dual S4 Dual S5 Dual	119mm - 148mm 138mm - 167mm 167mm - 197mm	131mm - 160mm 150mm - 179mm 179mm - 209mm	146mm - 175mm 165mm - 194mm 194mm - 224mm	55mm base, 6mm/ 20mm dual height top 74mm base, 6mm/ 20mm dual height top 74mm base, 35mm/ 50mm dual height top
Dual Height Units S6 Dual S7 Dual	183mm - 212mm 212mm - 242mm	195mm - 224mm 224mm - 254mm	210mm - 239mm 239mm - 269mm	74mm base, 45 mm spacer, 6mm/ 20mm dual height top 74mm base, 45 mm spacer, 35mm/ 50mm dual height top
Dual Height Units S8 Dual S9 Dual	228mm - 257mm 257mm - 287mm	240mm - 269mm 269mm - 299mm	255mm - 284mm 284mm - 314mm	74mm base, 2x45 mm spacers, 6mm/ 20mm dual height top 74mm base, 2x45 mm spacers, 35mm/ 50mm dual height top
Dual Height Units S10 Dual S11 Dual	273mm - 302mm 302mm - 332mm	285mm - 314mm 314mm - 344mm	300mm - 329mm 329mm - 359mm	74mm base, 3x45 mm spacers, 6mm/ 20mm dual height top 74mm base, 3x45 mm spacers, 35mm/ 50mm dual height top
Dual Height Units S12 Dual S13 Dual	318mm - 347mm 347mm - 377mm	330mm - 359mm 359mm - 389mm	345mm - 374mm 374mm - 404mm	74mm base, 4x45 mm spacers, 6mm/ 20mm dual height top 74mm base, 4x45 mm spacers, 35mm/ 50mm dual height top
Dual Height Units S14 Dual S15 Dual	363mm - 392mm 392mm - 422mm	375mm - 404mm 404mm - 434mm	390mm - 419mm 419mm - 449mm	74mm base, 5x45 mm spacers, 6mm/ 20mm dual height top 74mm base, 5x45 mm spacers, 35mm/ 50mm dual height top

NET CONSUMPTION FOR 1000 M ² NEW ERA UNOBAT BATTEN SYSTEM	
For batten centres at 411mm:	
Boards:	1.000 m ² + approx. 2 % waste
Machine J-nails, 2.2x45mm:	20.000 pcs
New Era softwood battens (all sizes):	2.700 m
New Era S Zero Cradles with 22x45mm battens	10.000 pcs
New Era Cradles with 36x45mm battens	6.600 pcs
New Era Cradles with 48x45mm battens	5.000 pcs
New Era Cradles with 63x45mm battens	4.500 pcs
(Packing pieces will be dependant on sub floor survey)	
Loose tongues:	67 pcs
Moisture barrier:	
Junckers Sylvathene	1100 m ² incl. overlaps
Junckers Sylvafix Adhesive	15 bottles (15 x 0.75 litre)
(If using loose tongues down the centre of the floor)	

BATTEN SPACING	
Board Length	Batten Centres
3700mm	411mm
2400mm	400mm
1830mm	366mm
Unsupported header joints: Commercial	300mm
Unsupported header joints: Residential	450mm to 600mm

If the floor is to be subject to exceptional loads eg. mobile seating units, maintenance equipment etc. it may be necessary to use different batten centres. Please contact Junckers Technical Department in this instance.

RELATED INFORMATION SHEETS

The information sheets below provide additional guidance for installers and specifiers and should be referred to for additional information.

- D 1.0 General Information
- D 1.2 Batten system information
- D 10.2 Specifier's information sheet
- D 10.2.1 Laying Instructions

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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