



JUNCKERS NEW ERA LEVELLING SYSTEMS

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 cradle supports 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 75mm 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 75mm 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 75mm 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.



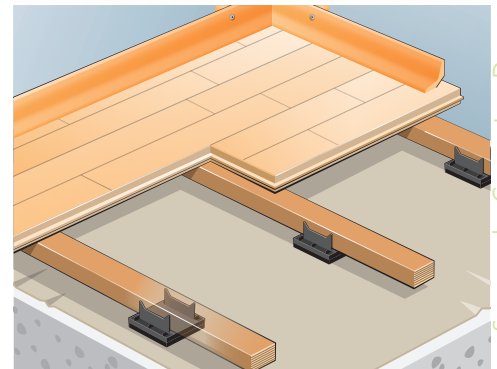
New Era Standard system is the perfect choice for residential and commercial floors including retail, offices, and public areas. It can accommodate under floor heating and other services beneath the floor boards.



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.



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



The New Era Standard System

Residential and commercial buildings, public buildings, galleries and museums are all perfect locations for the New Era Standard system. The system is ideal where a hardwood floor with good load bearing capabilities and high durability is needed.

The New Era UnoBat System

Sports, Dance and Multi-purpose - Tried and Tested

Junckers has carried out extensive development and testing work to develop 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 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 of area elastic floors including ball bounce, vertical deformation and shock absorption. This makes it ideal for sports and dance floors.

RESULTS Requirements to EN14904 Class A4

SHOCK ABSORPTION	
EN Requirements for A4 classification	55% to 75%
New Era UnoBat test result	65%
VERTICAL DEFORMATION	
EN Requirements for A4 classification	2.3 mm to 5.0 mm
New Era UnoBat test result	2.8 mm
BALL RESPONSE	
EN Requirements for A4 classification	≥90%
New Era UnoBat test result	91%
SURFACE FRICTION TO EN13036 -4	
EN Requirements for A4 classification	80-100
New Era UnoBat test result	100 (across grain) 98 (along grain)





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 roll out “bleacher” type 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.

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.

The New Era Acoustic System

Used extensively in residential and commercial projects the New Era Acoustic System is tried and tested.

The New Era UnoBat Acoustic cradles have a special 6mm thick cork 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 26dB impact sound reduction.

New Era Systems Details

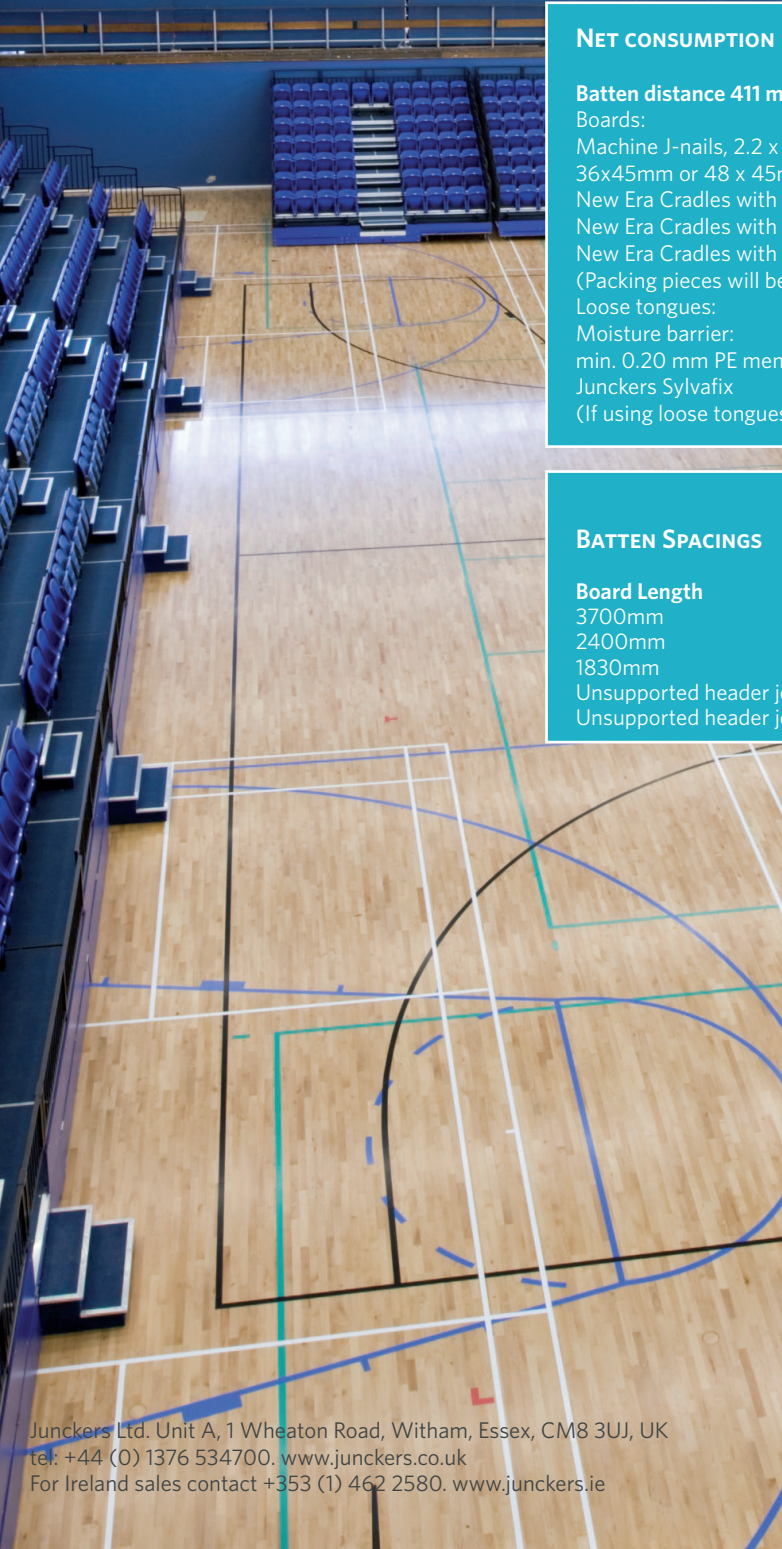
New ERA systems	22 mm floor 36 mm batten	22 mm floor 48 mm batten	22 mm floor 63 mm batten	FLOOR COMPONENTS REQUIRED
	Construction Height & Packing Range (incl. board)	Construction Height & Packing Range (incl. board)	Construction Height & Packing Range (incl. board)	
Cradle centres	450mm	600mm	700mm	
Cradles required per m² Linear metres of batten per m² of flooring. (411 mm batten centres)	6.6 no 2.7 m	5.0 no 2.7 m	4.5 no 2.7 m	

Dual Height Units S1 Dual S2 Dual	74mm - 103mm 103mm - 133mm	86mm - 115mm 115mm - 145mm	101mm - 130mm 130mm - 160mm	17mm/ 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

NOTE! : For the New Era UnoBat Acoustic system the system heights will be 4mm lower than those shown on the heights table.

NOTE! : New Era Unobat is available with an over all 60mm elevation (22mm floor board, 22mm thick batten and 16mm cradle).

Cradles are available to special order to suit 22mm thick battens.



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.

NET CONSUMPTION FOR 1000 M² NEW ERA UNOBAT BATTEN SYSTEM

Batten distance 411 mm:

Boards:	1000 m ² + approx. 2 %
Machine J-nails, 2.2 x 45 mm:	20000 pcs.
36x45mm or 48 x 45mm softwood battens:	2700 m.
New Era Cradles with 36x45mm battens	6600 pcs
New Era Cradles with 48x45mm battens	5000 pcs
New Era Cradles with 63x45mm battens	4500 pcs
(Packing pieces will be dependant on sub-floor survey)	
Loose tongues:	67 pcs.
Moisture barrier:	
min. 0.20 mm PE membrane:	1100 m ² incl. overlaps
Junckers Sylvafix	15 bottles (15 x 0.75 litre)
(If using loose tongues down the centre of the floor)	

BATTEN SPACINGS

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