

## Unobat 62+ Sports Floor System

### Sport

#### JUNCKERS UNOBAT 62+

D 1.0	General information
D 1.2	Batten System Information
<b>D 8.2</b>	<b>Specifier's Information</b>
D 8.2.1	Laying Instruction

Fig. 1

## GENERAL DESCRIPTION OF FLOOR SYSTEM

Junckers UnoBAT 62+ Sports Floor System is based on 22 mm solid boards nailed to a resilient subfloor of one layer of prefabricated battens. The floor system is an area elastic type of sports floor with high shock absorbency and elasticity suitable in multi-purpose sports halls as well as for Squash. The floor system is normally used on an unlevelled subfloor and comes with clip-on wedges (J-Lock Wedges) for easy levelling of the floor system.

Construction height using the J-Lock Wedge: From 82-109 mm.

Packing blocks that can be clipped to the underside of the J-lock wedges are available in a variety of thicknesses (20, 30, 40, 50 mm) to easily increase the height of the floor system if required. Don't use more than 2 packing blocks under each wedge.

Lowest possible construction height (62 mm) is obtained by using a J-lock element without the adjustable J-Lock Wedge.

The sports floor system fully conforms to EN 14904:A4.

Please note that full documentation of a floor system comprises the data in D 1.0, D 1.2, D 8.2 and D 8.2.1, see Fig. 1.

**COMPONENTS**

**1 - Boards**

Junckers 22 mm 2-strip boards for sport.

**Wood species:** Beech, SylvaKet, Maple and Ash.

**Grades:** Champion, Premium and Club.

See also B 2.0

**2 - Nails**

2.2 x 45 mm Junckers J-Nails.

**3 - Unobat 62+ batten system**

Battens 25.5 x 60 x 3600 mm, with 12 mm shock pads pre-mounted in a recess at the backside.

Gable Battens 39 x 40 mm.

Batten centres, c/c 336.4 mm (336) or c/c 411.1 mm (411).

J-Lock Wedges or J-Lock elements.

**4 - Packings**

J-Lock Wedges: Are used where levelling of the substructure is necessary. J-Lock elements: Can be used on a flat/level subfloor.

DuoWedges: Are used for levelling of Gable Battens.

By c/c 336: 7.5 pcs. per m<sup>2</sup>.

By c/c 411: 6.5 pcs. per m<sup>2</sup>.

**5 - Moisture barrier**

Junckers Moisture Barrier, see D 1.2.

**6 - Expansion gap at the wall**

1.5 mm per metre width on each side and 1 mm per metre length at each end, but both min. 30 mm. Is also required at fixed points, e.g. columns, see also D 1.2.

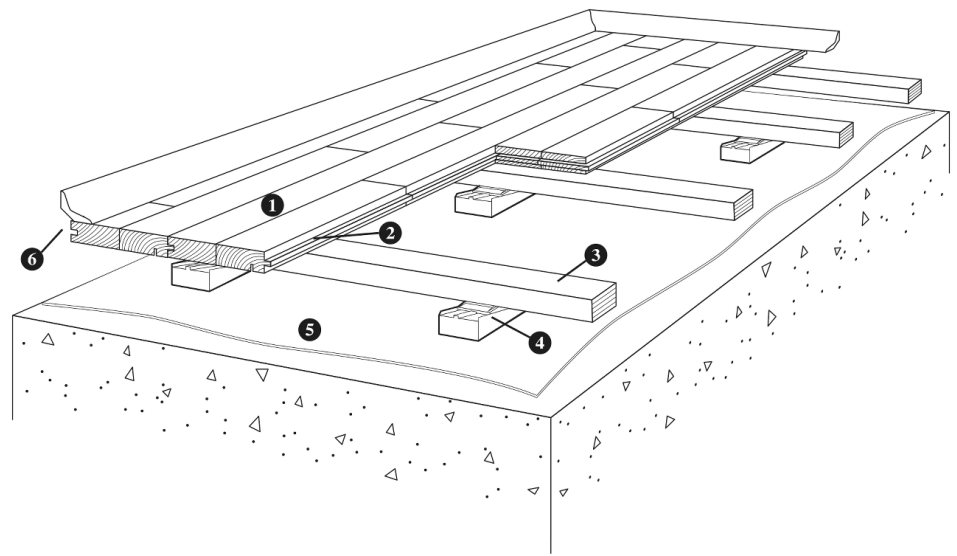


Fig. 3

Fig. 2

## SYSTEM SPECIFICATION

22 mm solid boards nailed to a substructure of prefabricated battens. Manufactured as a single layer structure of 25.5 x 60 mm veneered battens with 12 mm shock pads premounted in a recess at the underside of the batten at the packing points. Before laying out the battens, the enclosed J-Lock Wedges or J-Lock elements are clipped-on to the shock pads. Batten centres, 336 or 411 mm, is determined depending on the expected sports functional characteristics and/or strength.

If the floor is used for basketball or retractable seatings are to be installed in the sports hall, battens with c/c 336 mm shall always be used. To avoid deflection of the floor along the walls, special battens (Gable Battens), used as starters, are included in the system.

## BOARDS

The boards are nailed to the battens according to a fixed 10-board rule, see D 1.2.

The boards are laid in a continuous pattern with well-defined distribution of board header joints from row to row of 2 x the batten centres, i.e. 822.2 mm with c/c 411.1 mm, or 4 x the batten centres, i.e. 1345.6 mm with c/c 336.4 mm. In that way that all board headerjoints are supported, see also D 8.2.1.

### POINTLOAD-BEARING STRENGTH

The UnoBAT 62+ Sports Floor System is tested and approved for below mentioned maximum point loads, in relation to load area and batten centres:

c/c 336 mm:  
 Diameter, 25 mm: 4.5 kN (=450 kg)  
 100x100 mm: 6.0 kN (=600 kg)

c/c 411 mm:  
 Diameter, 25 mm: 4.0 kN (=400 kg)  
 100x100 mm: 5.5 kN (=550 kg)

Fig. 4

### LOAD-BEARING STRENGTH

The UnoBAT 62+ Sports Floor System is designed to ensure good technical properties in relation to the expected loads in connection with sports activities.

The load-bearing strength of the system depends mainly on the loading type and load area. **Table 1** shows use of the floor system in relation to the load classes in EN 1991-1-1. See **Fig. 4** for specific point load bearing strength.

For further definition of load classes and types, see **D 1.0 - Stiffness and loadbearing strength**.

TABLE 1	Loading types	
Loading category	Area- and Point load	Wheel load
C4: Assembly halls for physical activity, e.g. gyms/theatres	Approved*	Approved**
C5: Assembly halls which can be crowded, e.g. sports halls incl. stands.	Approved	Approved**

\* Point load area min. 200 x 200 mm

\*\* Wheel loads, see D 1.0 - Table 2

## CONSUMPTION OF MATERIALS

Net consumption for 1000 m<sup>2</sup> (Length x width = 40 x 25 m) UnoBat 62+ batten system:

	Batten centres 336	Battens centres 411
Boards	1000 m <sup>2</sup> + 2% wastage	1000 m <sup>2</sup> + 2% wastage
Unobat 62+ Battens	2,950 rnm + 2% wastage	2,450 rnm + 2% wastage
Gable Battens	50 rnm.	50 rnm
J-Nails	25,000 pcs.	20,000 pcs.
J-Lock Wedges or elements	7,350 pcs	6,350 pcs
DuoWedges	150 pcs	150 pcs
Loose J-Lock shock pads	100 pcs. (1 box)	100 pcs. (1 box)
Loose tongues	67 pcs (5 bags)	67 pcs (5 bags)
Moisture Barrier	1000 m <sup>2</sup> + 15% wastage	1000 m <sup>2</sup> + 15% wastage
Header joint adhesive	3 bottles (3 x 0.75 litre)	3 bottles (3 x 0.75 litre)