

# Installation Assembling instruction of



## BOEN Sports floor Model Doubleflex Stadium 14

Model Doubleflex Stadium consists of

- prefabricated assembling unit „double swing beam“ ca.4000 x 95 x 46 mm
- counter floor moduls 4500 x 95 x 16 mm or 4000 x 95 x 16mm
- polyethylene foil 0,05 mm
- BOEN sports parquet 2200 x 215 x 14 mm

General preparation / conditions

Before starting with the installation the consignment of the a.m. material has to be checked with regard to

1. completeness
2. quantity
3. quality.

It has to be ensured that all material will be stored in clean, dry and locked rooms.

Already during the installation the climate in the hall should be ca. 18° C and the relative air humidity should be ca. 55 % to be kept on a constant level. Provided a floor heating is to be installed, the heating should already be in use.

In the storing rooms, in the areas of storing telescopic seatings rigid constructions should be provided.

### **1. Checking the subbase**

Model Doubleflex Stadium 14 has to be laid on a clean and dry subbase. If necessary a sufficient vapor barrier or sealing against rising dampness has to be granted. For the evenness of the subfloor we refer to DIN 18202, 1997-04 Tab. 3. Please see also item 3.2. equalizing.

### **2. Rigid support**

2 boards of pinewood are screwed together on site; distance of the screws: 500 mm. The boards are screwed together in a displaced way with a overlapping part of 200 mm. The rigid beams are laid out alongside the hall on both sides with a distance to the wall of 50 mm.

side 1

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### **3. Double swing beams (4000 x 95 x 46 mm)**

#### **3.1 Laying out the double swing beams (distance centre/centre: 500 mm)**

The first row of the double swing beams is laid out to the direction of the length side of the hall. Distance double swing-beam – rigid beam: 422 mm spacing centre/centre.

The first rubber pad of the double swing beam which is next to the wall is replaced by a rigid wooden piece as close to the wall a rigid construction is necessary.

The second row of the double swing beams is laid out intermittently displaced of the first row with a distance of 250,00 mm (longitudinal direction) = half distance of the rubber pad. Coming to the first side the rubber pad of double swing beam is replaced by a wooden beam as described above. The distance between the double swing beam is spacing centre/centre 500 mm.

Then the laying out of the swing beams is continued as mentioned above until the other side of the hall is reached whereas the 3<sup>rd</sup> row is laid out in the same way than the 1<sup>st</sup> row, the 4<sup>th</sup> row is laid out in the same way of the 2<sup>nd</sup> row.

The double swing beams are screwed together with 2 screws (suitable for wood, 4,2 x 35 mm).

#### **3.2 Equalizing**

After having laid out the double swing beams the so-called equalizing of the construction has to be done, by laying specially prepared equalizing material (wool felt strips, wooden blocks) under each rubber pads of the double swing beams.

The equalizing material is glued together on both sides in order to avoid a moving away. From a height of 20 mm and more the equalizing material is fixed with nails or clips on both sides too in addition to the glue.

The boards for the rigid support alongside the hall will also adjust with equalizing material to the height of the swing beams.

### **4. Counter floor module**

The counter floor beams are laid crosswise onto the double swing beams. They are fixed with 2 so-called T-nails (2,2 x 32 mm) on each double swing beam.

The distance between the single counter-floor-beams is spacing centre/centre 137,5 mm.

The distance results from:

length of BOEN-sports parquet 2200 mm : 16 boards of counter floor boards = 137,5 mm.

The counter-floor beams are intermittently displaced (staggered), too.

The measure of displacing is 1000 mm.

The distance to the wall is 20 mm.

## **5. Polyethylene foil 0,05 mm thick**

The Polyethylene foil is loosely laid out. An over-lapping of 100 mm on the joints has to be considered.

## **6. BOEN Sports parquet**

Dimensions: 2200 x 215 x 14 mm

- Laid crosswise onto the counter floor
- Distance to the wall: 15 mm
- The beginning and the end of each plank (lengthwise) has to be always laid in the middle of a counter floor board
- The boards of the parquet has to be laid in a displaced way.  
Measure of displacing: 4 counter floor boards = 550 mm
- Fixing: with clips 38 mm length on each 2<sup>nd</sup> counter floor board
- Installation:
  - Starting with the 1<sup>st</sup> row of parquet laid with the groove side next to the wall.
  - The 1<sup>st</sup> plank of board has to be cut in the length ensuring that the front face is laid on the centre of the 16<sup>th</sup> counter floor and the distance to the wall must be kept.  
Fixing: alongside the hall the parquet is screwed with a screw (4,2 x 40 mm) with every 2<sup>nd</sup> counter floor board. In that way that the screw will be covered with the skirting later on.  
As described above the parquet is fixed with clips on each 2<sup>nd</sup> counter floor through the tongue.
  - When starting the 2<sup>nd</sup> row of parquet the 1<sup>st</sup> plank is cut in the length ensuring that the front face will be laid on the centre of the 12<sup>th</sup> counter floor board. The parquet is fixed with clips on each 2<sup>nd</sup> counter floor board.
  - Starting the 3<sup>rd</sup> row of parquet the 1<sup>st</sup> plank is cut in the length ensuring that the front face is laid on the centre of the 8<sup>th</sup> counter floor.  
Fixing: like 2<sup>nd</sup> row.
  - Starting the 4<sup>th</sup> row of parquet the 1<sup>st</sup> plank is cut in the length ensuring that the front face is laid on the centre of the 4<sup>th</sup> counter floor.  
Fixing: as described above.
  - The 5<sup>th</sup> row of parquet is installed like the 1<sup>st</sup> row however without screwing the parquet.