

# Singleflex Stadium

## Singleflex Stadium consists of:

- Prefabricated assembling unit "single swing beam" 4000 x 97 x 36mm
- Counter floor moduls 4500 x 97 x 16mm or 4000 x 97 x 16mm
- Polyethylene foil 0,05mm
- BOEN Sports parquet 2200 x 215 x 14mm

### 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 materail are stored in clean, dry and weather tight room.

The room must be heated to a minimum of 15 °C with a maximum RH between 30% and 65%.

All materials should always be stored in dry conditions and do not open the packaging until the floor is to be installed.

### 1. Checking sub-floor

Singleflex Stadium has to be laid on a clean, stable, selfsupporting, level and dry sub-floor. The maximum permitted deviation is 3mm per 2meter radius. If the sub-floor does not satisfy these requirements it will be necessary to make adjustments, either by planning or filling in the sub-floor. Please check local standards for compliance.

### 2. Rigid support

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

# Singleflex Stadium

## 3. Single swing beams (4000 x 97 x 46mm)

### 3.1.

Laying out the single swing beams (distance centre/centre: 500mm)

The first row of the single swing beams is laid out to the direction of the length side of the hall.

Distance single swing-beam – rigid beam: 422 m spacing centre/centre.

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

The second row of the single swing beams is laid out intermittently displaced off the first row with a distance of 250mm (longitudinal direction) = half distance of the rubber pad. Coming to the first side the rubber pad of single swing beam is replaced by a wooden beam as described above.

The distance between the single swing beam is spacing is 500mm centrally positioned.

Then the laying out of the swing beams is continued as mentioned above until the other side of the hall is reached. Whereas the third row is laid out in the same way as the first row, the fourth row is laid out in the same way as the second row.

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

### 3.2. Levelling

After having laid out the single swing beams the levelling of the construction has to be done, by laying specially prepared packing material (wooden packing strips) under each rubber pad of the single swing beams.

The packing material is glued together on both sides in order to avoid movement, over a height of 20mm.

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

## 4. Counter floor module

The counter floor beams are laid crosswise onto the single swing beams.

They are fixed with 2 so-called T-nails (2,2 x 32mm) on each single swing beam.

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

The distance results from:

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

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

The measure of displacing is 1000mm.

The distance to the wall is 20mm.

# Singleflex Stadium

## 5. Polyethylene foil 0,05mm thick

The Polyethylene foil is loosely laid out, over-lapping of 100mm on the joints.

## 6. BOEN Sports parquet

Dimensions: 2200 x 215 x 14mm

- The parquet boards are laid crosswise onto the counter floor.
- Distance to the wall: Min. 15mm.
- The end joints of each plank (lengthwise) must always be laid central on the counter floor board.
- The boards of the parquet should be installed with a minimum 2 board stagger
- Fixing: with nails/staples 38mm length on each second counter floor board
- Installation:
  - Starting with the first row of parquet laid with the groove side next to the wall.
  - The first plank of board has to be cut in the length ensuring that the front face is laid on the centre of the sixteenth 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 35mm) with every second counter floor board. In that way that the screw will be covered with the skirting when fixed.  
As described above the parquet is fixed with nails/staples on each second counter floor through the tongue.
  - When starting the second row of parquet the first plank is cut in the length ensuring that the front face will be laid on the centre of the twelfth counter floor board.  
The parquet is fixed with nails/staples on each second counter floor board remembering to random stagger.
  - Starting the third row of parquet the first plank is cut in the length ensuring that the front face is laid on the centre of the eighth counter floor.  
Fixing: As previous rows.
  - Starting the fourth row of parquet the first plank is cut in the length ensuring that the front face is laid on the centre of the fourth counter floor.  
Fixing: as described above.
  - The fifth row of parquet is installed like the first row however without screwing the parquet.