

Singleflex Athletic

Singleflex Athletic consists of:

- Prefabricated single swing beams 4000 x 97 x 36mm
- Counter floor moduls 4500 x 97 x 16mm or 4000 x 97 x 16mm
- Polyethylene foil 0,05mm
- Particle boards (chip boards) V100 E 1, with tongue and groove, 2050 x 925 x 16mm

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 the subfloor

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

2. Rigid support

Counter floor modules are made of pine and set 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.

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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 219mm (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 nailed crosswise onto the single swing beams.

Distance spacing centre/centre: 146,43mm.

Length of the particle board = 2050mm: 14 beams = 146,43mm.

The counter floor beams are laid out intermittently displaced in each row with a distance of 1000mm (longitudinal direction) and nailed each with 2 pieces of T-nails 2,2 x 32mm onto the single beam.

The distance to the wall is 20mm.

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5. Polyethylene foil 0,05mm thick

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

6. Particle board with tongue and groove (2050 x 925 x 16mm)

The chipboards are laid out where the longitudinal side of the chipboard is displaced to the counter floor in an angle of 90°.

The chipboards are also laid out intermittently displaced (staggered) whereas the distance is half a side of the length of the board.

Tongue and groove of the chipboards are not glued.

The chipboards are screwed onto the counter floor:

- with screws 4,2 x 35mm
- distance between the screws and the edge of the chipboard 20mm
- on the longitudinal side the chipboard is screwed onto each counter floor beam
- crosswise with a distance of the screws of 150mm
- in the interior part of the chipboard it is screwed onto each third counter floor module in a distance of 300mm.

The holes of the screws and the seams (joints) of the particle boards have to be sanded and filled with a spatula und sanded again if necessary.