

### Junckers Portable Floor System

D 1.0 General Information

D 1.1 Clip System Information

**D 3.1 Specifier's Information**

D 3.1.1 Laying Instructions

### General description of floor system

Junckers Portable Flooring System is based on 22 mm solid boards, prefabricated into panels and laid floating on resilient foam underlay. The floor system is an area elastic type of sports floor with medium shock absorbency and elasticity suitable for fitness and aerobics as well as a temporarily sports floor, e.g. with special line markings for a given sports game. The construction height is 27 mm or 32 mm, depending on the thickness of the foam underlay.

Please note that full documentation of a floor system comprises the data in D 1.0, D 1.1, 3.1 and D 3.1.1.

### Components

#### 1 - Floor Elements

- Junckers 22 mm solid boards.

Wood species and grades:  
 Beech Harmony and Maple Classic,  
 lacquered.

Element width x length:  
 1/1 element: 513 x 1800mm  
 1/2 element: 513 x 900 mm

#### 2 - Fittings

- Pre mounted assembling fittings

#### 3 - Skirting (accessories)

- Perimeter ramp made as corner profiles and profiles in 2 meter lengths all in metal.

#### 4 - Intermediate layer

- 5 mm resilient mat, extruded polyethylene cellular plastic, density 35 kg/m<sup>3</sup>
- 10 mm resilient mat, extruded polyethylene cellular plastic, density 35 kg/m<sup>3</sup>

#### 5 - Moisture barrier on concrete

- Min. 0.20 mm PE membrane

Fig. 2

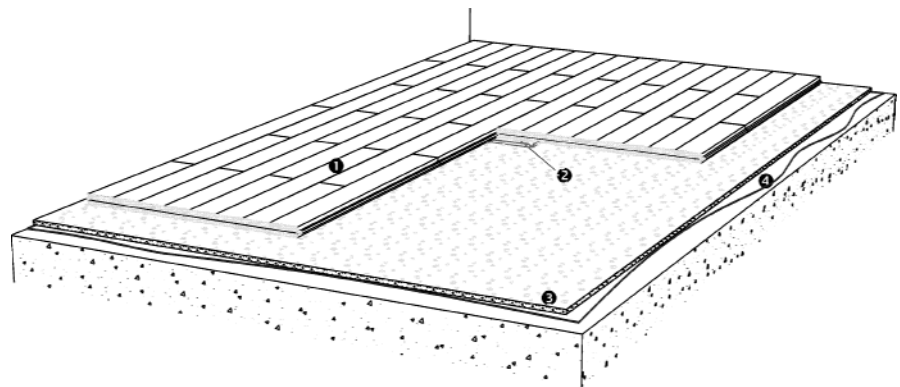


Fig. 3

### System specifications

The Portable Floor System is installed as a floating floor on a dry, load-bearing floor of concrete, lightweight concrete or wooden materials, e.g. an existing sports floor.

The subfloor must be flat with a maximum deviation of 2 mm under a 1.5 m straight edge (UK: 3 mm under a 3 m straight edge). The surface must be smooth. Any minor irregularities must be corrected. The choice of intermediate layer depends on the structure of the subfloor and the moisture conditions.

### Floor Elements

The elements are laid in an interlocking pattern so that all joints are staggered 900 mm from row to row. The elements are locked together with pre mounted assembling fittings. Lengthwise the elements have a tongue and groove connection and at ends the elements are joined using loose tongues.

**Spacing to walls and fixed installations**

2 mm per m of floor width on each side, min. 30 mm. Is also required at fixed points, e.g. columns.

**Resilient mat/intermediate layer**

The choice of resilient mat depends on the properties of the subfloor. If the subfloor is fully or partly inelastic a 10 mm resilient mat is used, while for elastic subfloors, e.g. existing sports floors with certain resilient properties, a 5 mm mat is used.

**Moisture barrier**

On ground floors and where there is a risk of moisture penetration a moisture barrier of 0.20 mm PE membrane is laid directly on the concrete.

**Load-bearing strength**

The load-bearing strength of the Portable Floor System depends on the load and subfloor type. The floor's total transverse expansion can also play a role, depending on the climate conditions in the hall.

Table 2 shows use of the floor system in relation to the load classes in ENV 1991-2-1:1995. For further definition of load classes and types, → D 1.0 - Stiffness and bearing strength.





Table of loadings	ENV :1995		Other loads		Explanation of symbols
	Area load	Point load	Wheel load (solid)	Wheel load (air)	
Loading types					● Loadings conforming to the requirements of ENV 1991-2-1:1995 and deflection criterion ◆ Wheel loads on concrete conforming to D 1.0 - Table 2
Loading category					
C4 Areas with possible physical activities		● <sup>1</sup>			<b>Remarks</b> 1) Point load area min. 200 x 200 mm
C5 Areas susceptible to overcrowding		●	◆		

table 2

**Consumption of materials**

Net consumption for a basketball court according to the official FIBA rules 19 x 32 metres (incl. a 2 metres safety zone around the court).

1/1 Elements:	665
1/2 Elements:	38
Loose tongues:	717 pcs.
Resilient mat:	632 m <sup>2</sup>
Optional moisture barrier, min. 0.20 mm PE membrane:	700 m <sup>2</sup> incl. overlaps

NB - The actual area of floor will due to the floor elements size in most cases be slightly bigger than the calculations figures.

**Accessories**

Transport trolley:	Designed to load 40 1/1 elements
Perimeter trims:	Metal ramp as finish of the floor
Removal hook:	For removal of loose tongues when dismantling the elements
Extra loose tongues:	Supplied in both wood and plastic