

Arenaflex Stadium Logic



Arenaflex Stadium LOGIC is a resilient hardwood flooring system laid onto a Cradle System. Arenaflex is ideally suited for use as activity flooring, sports halls, dance floors, recreation halls and gymnasiums.

Authority

Boen Arenaflex Stadium LOGIC has been fully tested to the following standard: New European: EN14904: 2006 Type A4. It is therefore designed to comply with all requirements laid down by building regulations and British codes of practice and all acknowledged internationally recognised criteria for sports floors.

Appearance

The overall appearance is of high quality hardwood pre-finished strip floor. A variety of hardwood species, normally Oak, Beech, Canadian Maple and Merbau, are available in a single grade. All hardwood used is taken from managed sustainable sources.

Board Dimensions

23mm x 139mm x 2200mm

Each board comprises 3.5mm wear layer with 11.5mm pine spruce core and 8mm pine spruce balancing layer. 6 boards per pack (1.83m²).

Batten Dimensions

Plain batten's are supplied in 36/48mm x 45mm x 1800mm and are PEFC certified. All Boen softwood battens are VAC VAC treated.

Cradle Dimensions

The LOGIC cradles are injection-moulded from recycled, impact-proof and highly durable ABS, with an integral 10mm foam impact pad on the underside. Cradles are supplied in (C1) 16/30mm - (C2) 45/60mm heights. Packers are available in 2mm and 6mm thickness.

Weight

The average weight of the system is approximately 16Kg/m²

Underfloor Heating

All of Boen's sports floors are fully compatible with underfloor heating, refer to the Boen guide.



Composition & Manufacture

The understructure is loose laid directly onto the sub-floor. Each of the preservative treated softwood battens are laid in accordance with BS 8201: 1987. Pre-finished, tongued and grooved hardwood boards are secret-fixed at right angles to the direction of the softwood support battens. It is important that the header joints of each board be supported on top of a batten and header joints glued with PVAc adhesive. An expansion gap is left at the perimeter of the floor to allow for changes in temperature and humidity.

Performance-Strength

In accordance with BS 6399:Part 1 1996, the floor, when using 23mm Arenaflex will safely support distributed loads of 5.0kn/m² and is appropriate for general purpose sports and similar multi-use halls. Floors are normally designed to meet specific installation requirements and where special considerations, such as mobile tiered seating are required contact Boen Sport.

Site Work

The battens are loose laid in a brick staggered pattern into the cradles and levelled to datum. Cradle centres in accordance with Boen Logic installation instructions. The sub-floor should incorporate a moisture barrier where applicable.

Site Conditions

Stabilised air temperature not less than 13°C

Moisture content of walls not more than 8%

Moisture content of floors not more than 6%

Relative humidity within the range of 40% to 60%

Maintenance

Once the floor is installed, there should be no requirements for adjustment. The understructure requires no maintenance, the hardwood can be sanded and resealed from time to time.

Warranty

The floor is guaranteed against failure caused by faulty materials used within the system. See Boen Sport guarantee.

Specification

All cradles are laid onto a dry and prepared sub-floor in accordance with the relevant British Standard. VAC VAC treated softwood understructure 36/48mm deep x 45mm wide battens. Battens to be set at 367mm centres and each unit is staggered as specified by the manufacturer. Overlay the battens with Boen Arenaflex Stadium 23mm x 139mm x 2200mm length leaving the appropriate perimeter expansion gap, as recommended by the manufacturer. It is important that the header joint of each board is supported on top of a batten. Boen recommends that a vapour barrier is laid to all cementitious sub floor surfaces prior to installation. Boen Logic levelling system comprising of loose laid ABS floor cradles incorporating a 10mm resilient foam pad. Cradles available in varying heights starting at 16mm to give a minimum floor height of 75mm using a 36mm batten and a 23mm board.