

TECHNICAL DATA SHEET



PRODUCT OVERVIEW

GYMFLEX ARENA

The Arena sprung Wooden floor system is the professional standard for Multi-purpose Sports Halls and Arenas, conforming to an Area Elastic standard of BSEN14904 Part A4. It is a carefully levelled and calibrated using the unique New Era Sports cradle and flexjoist system that prioritizes the health & safety of athletes while providing a high performance surface that enhances play and stands the test of time.

Floor Types	Solid 129 x 22 x 1830mm Layers 215 x 21 x 2200mm
Wood Species	Beech or Oak
Usage	Sports Halls/Arenas
Cradles	New Era Sports*
Flexjoists	36mm or 48mm Flexjoists**
Floor Heights	74-367mm
Flexjoist Centres	411mm (Solid) or 440mm (Layered)
Cradle Centres (Along Flexjoist)	450mm (36mm Flexjoist) 600mm (48mm Flexjoist)
Acoustic Reduction	25db
Loading	500kg per m ² Static Load & 350kg point load
Standard	Area Elastic BSEN14904 Part A4

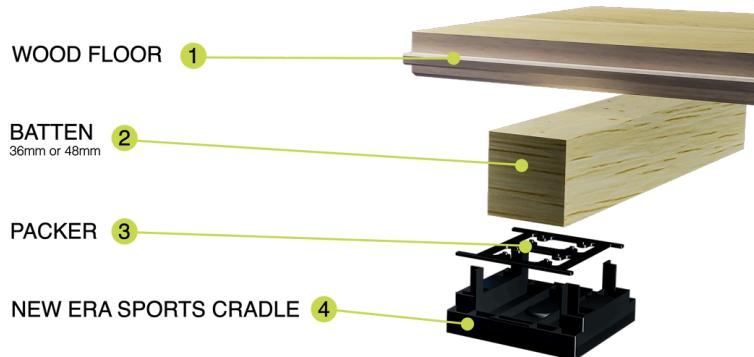
*Cradle Calculations:

- Layers = 5.6 per m² (36mm Flexjoist) 4.2 per m² (48mm Flexjoist)
- Solid = 6.6 per m² (36mm batten) 5.0 per m² (48mm Flexjoist)

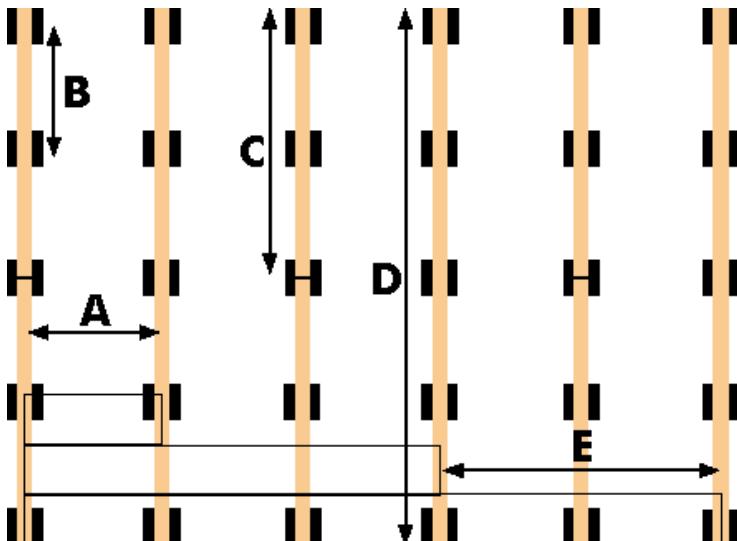
**Flexjoist Calculations: 1.5 per m²

KEY FEATURES AND BENEFITS

- ✓ Premium area-elastic sports floor –built with unique flexjoists for high performance
- ✓ Adjustable height (74–367 mm) – uses New Era cradles to overcome uneven sub-floors
- ✓ Complies with EN14904 A4 standard – ensuring safety and professional sports performance
- ✓ Customizable load-bearing – supports bleacher seating and additional project-specific needs



GYMFLEX ARENA



GYMFLEX ARENA
FLEXJOIST & CRADLE
LAYOUT

Solid Flooring

Flexjoist
Size

36mm	Layout	Flexjoists 411mm	Cradles 450mm	Flexjoist Stagger	Flexjoists 900mm	Flexjoists 1800mm	Floor Stagger	Floor 822mm
48mm	>	Flexjoists 411mm	Cradles 600mm	>	Flexjoists 1200mm	Flexjoists 1800mm	>	Floor 822mm

Layered Flooring

36mm	Layout	Flexjoists 440mm	Cradles 450mm	Flexjoist Stagger	Flexjoists 900mm	Flexjoists 1800mm	Floor Stagger	Floor 440mm
48mm	>	Flexjoists 440mm	Cradles 600mm	>	Flexjoists 1200mm	Flexjoists 1800mm	>	Floor 440mm

GYMFLEX ARENA SOLID FLOOR FINISH OPTIONS



NATURAL



FUMED



MIST



FUMED MIST

GYMFLEX ARENA LAYERED FLOOR FINISH OPTIONS



OAK



BEECH