

ATHREN

SPORTS & FLOORING SYSTEMS

Timber Sports Flooring

SYSTEMS & SPECIFICATION GUIDE

Suspended birch sports-floor pathways for basketball and multi-sport halls.

02

DOCUMENTED
CONSTRUCTION
PATHWAYS

L2

CURRENT COMPETITION
EVIDENCE PATHWAY

INTL

GLOBAL PROJECT
SUPPLY · SUPPLY ONLY



Two documented timber pathways. One controlled evidence framework.

ATHREN timber sports flooring is planned as a complete suspended floor system - not simply a timber finish. Start with the slab, available floor depth, sport programme and equipment interfaces, then close the exact performance and competition evidence for the quoted configuration.



TIMBER S1

Single-Batten Sprung Timber

Approx. 105 mm adjustable suspended build-up

One 45 × 45 mm pine batten layer

TIMBER D1

Double-Batten Sprung Timber

Approx. 158 mm adjustable suspended build-up

Upper + lower battens with 8 mm intermediate pads

SELECT BY PROJECT CONSTRAINTS - NOT AN ASSUMED PERFORMANCE HIERARCHY

The current documents establish two different floor depths and support architectures. Shock absorption, vertical deformation, ball rebound, friction, rolling load and exact FIBA model mapping remain controlled until the supplier evidence is confirmed.

Single-Batten Sprung Timber System



CONTROLLED TECHNICAL DATA

Documented construction information is separated from project-confirmed hold points.

BIRCH SURFACE A-class birch pathway; current source uses 20/22 mm notation.	BATTEN 45 x 45 mm solid-pine pathway.
MOISTURE LAYER 0.5 mm EPE with film.	LOWER SUPPORT 19 mm resilient rubber levelling / shock-support.
SUBFLOOR 19 mm solid pine.	INSTALLATION Suspended timber sports-floor pathway.

DOCUMENTED Layer sequence - approx. 105 mm height - slab datum / flatness pathway.	HELD Final board thickness - resilient-pad spacing - adjustment range.
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Double-Batten Sprung Timber System



CONTROLLED TECHNICAL DATA

The double-batten architecture adds an intermediate resilient layer and second timber support level.

BIRCH SURFACE

A-class birch pathway; source contains 20/22 and 22/22 references.

UPPER BATTENS

45 x 45 mm solid pine.

MOISTURE LAYER

0.5 mm EPE with film.

MIDDLE PADS

8 mm resilient rubber at batten intersections.

SUBFLOOR

19 mm solid pine.

LOWER BATTENS

45 x 45 mm solid pine.

LOWER SUPPORT

19 mm resilient rubber levelling / shock-support.

HELD

Final board thickness - pad spacing - certificate mapping.

A construction comparison - not a performance ranking.

TIMBER S1



105

mm
approx.
adjustable

TIMBER D1



158

mm
approx.
adjustable

APPROX. 105 MM S1 | APPROX. 158 MM D1 - CONSTRUCTION DEPTH ONLY, NOT A PERFORMANCE SCORE

ITEM	SINGLE BATTEN	DOUBLE BATTEN
Playing surface	A-class birch pathway	A-class birch pathway
Moisture layer	0.5 mm EPE	0.5 mm EPE
Subfloor	19 mm solid pine	19 mm solid pine
Support architecture	Single 45 × 45 mm batten layer	Upper + lower 45 × 45 mm battens
Intermediate pad	Not shown as separate middle layer	8 mm at batten intersections
Lower resilient support	19 mm rubber	19 mm rubber
Nominal total height	Approx. 105 mm	Approx. 158 mm
Performance values	Await exact test schedule	Await exact test schedule

Selection starts with available build-up height, slab condition, sport programme and exact verified evidence - not assumed superiority.

The slab, movement and ventilation strategy belong to the floor system.



01

Datum + slab check

Establish project datum and verify the concrete base; current source reference is ≤ 5 mm under a 2 m straightedge.

02

Clean + survey

Remove loose material, survey level differences and confirm the finished floor envelope.

03

Set out support grid

Set out timber support lines to approved project drawings; current source uses a 400 mm planning grid.

04

Install supports + battens

Fit resilient support elements and single- or double-batten timber construction. Exact pad spacing remains held.

05

Subfloor + membrane

Lay 19 mm pine subfloor approx. 45 degrees to battens, then install 0.5 mm EPE moisture layer.

06

Birch surface + movement

Install finished birch playing surface with project-specific expansion, perimeter and ventilation details.

CONTROLLED HOLD
POINT

Do not publish final resilient-pad spacing until the factory resolves the conflicting installation references.



ATHREN · COMPETITION EVIDENCE

A real Level 2 pathway - kept within the exact certificate scope.

Current 2026 manufacturer documentation confirms two fixed birch wooden-floor configurations with FIBA Approved Equipment Level 2 status. Exact ATHREN single-batten / double-batten mapping remains confirmed before quotation.

CURRENT DOCUMENTED LEVEL

L2

FIBA Approved Equipment

VALIDITY

31 DEC 2026

Current certificate

CONFIGURATION

FIXED BIRCH

Selected configurations

HELD

S1 / D1 MAP

Exact model mapping

CLAIM BOUNDARIES

- Confirm current certificate validity at quotation.
- Confirm exact approved configuration mapping.
- Do not describe the ATHREN timber range generically as FIBA approved.
- Do not publish shock absorption, deformation, rebound, friction or rolling-load values until the exact reports arrive.

The timber floor is one layer of the basketball hall.

Coordinate ATHREN flooring with backstops, scoring, shot clocks, divider lines, lighting, seating, storage and floor protection before individual products are frozen.

PLAY

ATHREN

Timber floor · line plan · floor protection

EQUIPMENT

LUTHVAR

Backstops · rings · nets · training baskets

DIGITAL

FÍSVOR

Scoreboards · shot clocks · displays

VENUE

HLJÓÐ

Seating · dividers · team / official areas

Complete hall coordination is a planning framework. Exact product inclusions and approval requirements remain project-specific.

Build the flooring brief before selecting the final system.

START WITH THE HALL

Close the interfaces that decide whether the floor can actually work.

The project brief should travel with the slab information, equipment plans and current evidence pack - not arrive after the floor has already been selected.



01 · PROJECT	Venue · destination · programme	02 · SPORT	Primary sport · multi-sport use · competition level
03 · FLOOR DEPTH	Finished datum · available build-up · thresholds	04 · SLAB	Flatness · cracks · moisture · joints
05 · EQUIPMENT	Backstops · sockets · anchors · dividers	06 · SERVICES	Heating · ducts · electrical · data
07 · EVENT USE	Temporary seating · staging · trolleys · floor protection	08 · EVIDENCE	FIBA requirement · test reports · warranty · maintenance

PROJECT OUTPUT	A controlled flooring brief that can be matched to current factory evidence and quoted configuration.
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SPORTS & FLOORING SYSTEMS

Timber sports flooring controlled by evidence.

Single-batten · double-batten · current Level 2 evidence pathway · project-specific technical review

DISCUSS YOUR PROJECT

Send the venue, sport, floor area, available build-up height, slab information, equipment interfaces and competition requirement for project review.

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