

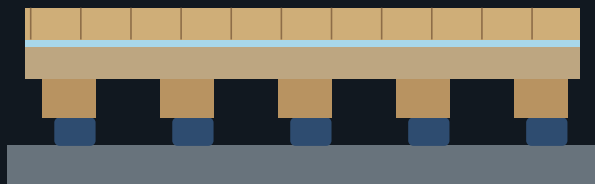
ATHREN

SPORTS & FLOORING SYSTEMS

Timber Sports Flooring

Systems & Specification Guide

Single-batten + double-batten suspended birch sports-floor pathways



SOURCE-DOCUMENTED CONSTRUCTION | PROJECT-CONFIRMED PERFORMANCE

SYSTEM ARCHITECTURE

Two suspended timber pathways. One controlled evidence framework.

ATHREN timber sports flooring is structured around the actual floor build-up, available hall depth, slab condition, sports-equipment interfaces and current competition evidence. The current factory documents support two distinct suspended birch constructions.

TIMBER S1

Single-Batten Sprung Timber

Approx. 105 mm adjustable suspended build-up. Birch playing surface, 0.5 mm EPE moisture layer, 19 mm solid-pine subfloor, one 45 x 45 mm pine batten layer and lower resilient rubber support.

TIMBER D1

Double-Batten Sprung Timber

Approx. 158 mm adjustable suspended build-up. Birch playing surface, moisture layer, 19 mm pine subfloor, upper and lower 45 x 45 mm battens, 8 mm intermediate rubber pads and lower resilient support.

SELECTION PRINCIPLE

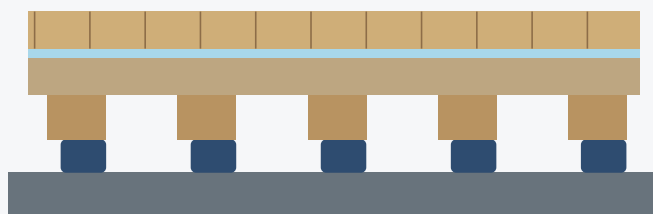
Choose from project constraints - not an assumed performance hierarchy.

Until the exact approved-model performance reports arrive, ATHREN does not claim that the double-batten construction is categorically superior to the single-batten construction. Sport performance, force reduction, vertical deformation, ball rebound, friction and rolling-load values remain project-confirmed.

ATHREN TIMBER S1

Single-Batten Sprung Timber System

Suspended birch sports-floor pathway using a finished hardwood playing surface over moisture control, solid-pine subfloor, timber battens and resilient lower support.

**Birch playing surface**

Current source notation approx. 20/22 mm x 60-80 mm x 1800 mm; final approved thickness pending.

Moisture layer

0.5 mm EPE with film.

Subfloor

19 mm solid pine.

Batten

45 x 45 mm solid-pine pathway.

Lower support

19 mm resilient rubber levelling / shock-support layer.

Nominal height

Approx. 105 mm; adjustable - final adjustment range confirmed per project.

CURRENT SOURCE

Documented installation points

Suspended installation; base checked against project datum; reference slab flatness ≤ 5 mm under a 2 m straightedge; subfloor at approximately 45 degrees to battens; expansion and finished-floor ventilation provisions.

HOLD POINTS

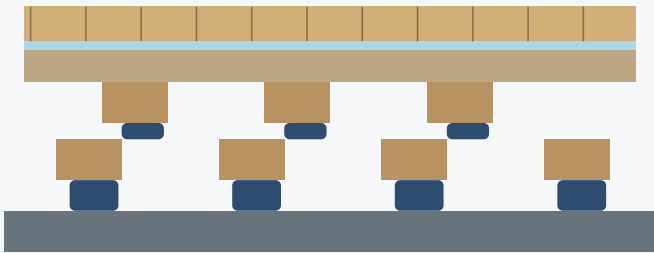
Project confirmation

Final board thickness and grade; resilient-pad spacing; finished-floor adjustment range; sports-performance test schedule; environmental conditioning; exact certificate-to-construction mapping.

ATHREN TIMBER D1

Double-Batten Sprung Timber System

Deeper suspended birch sports-floor pathway using upper and lower timber batten layers separated by resilient pads, plus a lower levelling / shock-support layer.



Birch playing surface

Current document contains 22/22 mm and 22/20 mm references; final approved thickness pending.

Moisture layer

0.5 mm EPE with film.

Subfloor

19 mm solid pine.

Upper battens

45 x 45 mm solid pine.

Intermediate pads

8 mm resilient rubber at upper/lower batten intersections.

Lower battens + support

45 x 45 mm lower battens over 19 mm resilient levelling / shock support.

Nominal height

Approx. 158 mm; adjustable - final adjustment range confirmed per project.

CURRENT SOURCE

Documented installation points

Suspended installation; upper and lower battens arranged at 90 degrees; reference 400 mm batten grid; base flatness ≤ 5 mm under 2 m; subfloor approximately 45 degrees to upper battens; expansion + ventilation provisions.

HOLD POINTS

Project confirmation

Final board thickness; correct lower resilient-pad spacing; adjustment range; exact sport-performance schedule; moisture conditioning; exact certificate-to-construction mapping.

SINGLE VS DOUBLE BATTEN

A construction comparison - not a performance ranking.

The supplied installation documents establish the construction differences. They do not yet provide the complete model-specific performance schedule needed to rank one system above the other.

Item	Single Batten	Double Batten
Support architecture	One 45 x 45 mm batten layer	Upper + lower 45 x 45 mm battens
Intermediate resilient layer	No separate middle pad shown	8 mm rubber at batten intersections
Lower resilient support	19 mm rubber	19 mm rubber
Nominal total height	Approx. 105 mm	Approx. 158 mm
Playing surface family	Birch pathway	Birch pathway
Performance schedule	Awaiting exact model report	Awaiting exact model report
FIBA mapping	Not yet assigned	Not yet assigned

STARTING PATHWAY

DEPTH CONSTRAINT

Below 150 mm available depth

Single-batten is the current starting pathway because its documented nominal build is approximately 105 mm. Final adjustment range still needs project confirmation.

COMPARE BOTH

150 mm or more

Keep both constructions in review. Final choice should follow the exact performance evidence, slab condition, sport programme and interfaces.

EVIDENCE FIRST

FIBA Level 2 required

Keep both pathways open until the supplier confirms which approved fixed-birch model maps to each construction.

BASE-FIRST INSTALLATION

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

The current installation instructions make site datum, slab level, batten set-out, moisture control, expansion and ventilation part of the complete sports-floor build-up.

01 Datum + slab check

Establish project datum. Current source requires reference deviation ≤ 5 mm under a 2 m straightedge.

02 Clean + survey

Remove debris and local cement irregularities; identify height differences before timber work.

03 Set out support grid

Set out batten lines to approved project drawings. Current documents use a 400 mm planning grid.

04 Install resilient supports

Fit lower resilient support. Final spacing is held because source documents contain conflicting references.

05 Install battens + level

Install one batten layer or the lower/upper double-batten arrangement and complete accurate levelling.

06 Install 19 mm subfloor

Lay solid-pine subfloor approximately 45 degrees to timber battens with documented gaps between rough-board rows.

07 Install 0.5 mm EPE layer

Lay moisture-control membrane with joints taped and arranged to avoid unsuitable overlap.

08 Install birch surface

Lay playing boards in approved venue orientation with project-specific movement and fixing provisions.

09 Expansion + ventilation

Coordinate perimeter expansion, intermediate movement and finished-floor ventilation to the site conditions.

CONTROLLED HOLD POINT

Do not publish or install from a final resilient-pad spacing until the supplier resolves the conflicting spacing references in the current installation documents.

FIBA EVIDENCE POSITION

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

The current 2026 certificate supports two fixed birch wooden-floor configurations as FIBA Approved Equipment Level 2. The certificate is valid through 31 December 2026. The exact mapping from those approved configurations to ATHREN S1 and D1 remains under factory confirmation.

CURRENT DOCUMENTED LEVEL

L2

FIBA APPROVED EQUIPMENT

DOCUMENTED

What is confirmed

Wooden flooring; fixed installation; birch; two current Level 2 configurations; certificate validity through 31 December 2026.

NOT EXTENDED

What remains controlled

Exact S1/D1 mapping, any Level 1 claim, and any extension to portable, floating, maple or other constructions.

CLAIM BOUNDARIES

Competition wording is checked against the quoted floor.

- Confirm current certificate validity at quotation.
- Confirm exact approved model / construction mapping.
- Do not describe the full ATHREN timber range as FIBA approved.
- Do not make a Level 1 claim from the current evidence.
- Do not assign performance numbers until the exact model test schedule is received.

COMPLETE HALL COORDINATION

The timber floor is one layer of the basketball hall.

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

PLAY ATHREN Timber court build-up + line plan	EQUIPMENT LUTHVAR Backstops + rings + sockets	DIGITAL FÍSVOR Scoreboards + shot clocks + displays	VENUE HLJÓÐ Dividers + seating + audio + operations
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SPECIFIER CHECKLIST

■ Sport + competition	Primary/secondary sports; competition requirement; court dimensions; markings; equipment interfaces.
■ Slab + levels	Datum; flatness survey; cracks/joints; available build-up; adjacent thresholds.
■ Moisture + environment	Slab moisture; building conditioning; temperature/humidity; perimeter conditions; underfloor heating.
■ Services + sockets	Backstop bases; volleyball/badminton sockets; power/data penetrations; ducts; divider zones.
■ Floor detail	System pathway; board specification; expansion; ventilation; line marking + graphics.
■ Event + operations	Temporary seating/staging; trolley traffic; protection; cleaning + maintenance; storage.
■ Evidence + handover	FIBA mapping; performance reports; fire/VOC if required; warranty; maintenance; as-supplied record.

PROJECT INTAKE

Build the flooring brief before selecting the final system.

For a useful technical and commercial review, send the project information below with the latest slab, court and equipment drawings where available.

01	Project + destination	Project / venue name, city and country.
02	Sport + competition	Primary sport, secondary sports and governing-body / competition requirement.
03	Floor area + available depth	Court / hall dimensions, approximate m² and finished floor build-up envelope.
04	Slab + moisture	Flatness, cracks, joints, level changes and available moisture information.
05	Services + equipment	Basketball backstops, floor sockets, anchors, electrical/data and underfloor services.
06	Event use	Temporary seating, staging, trolleys, exhibitions and floor-protection requirements.
07	Programme	Required installation / opening date and delivery sequence.
08	Evidence	FIBA requirement, fire/VOC requirements, test reports and handover documentation needed.

APOLLO NZ GLOBAL

ATHREN Timber Sports Flooring

Global project supply · Supply only · Project-specific commercial proposals prepared after technical review.