

KTL SPORT PRO I SYSTEM



KTL SPORT PRO I is an area-elastic sports floor, based on 22mm solid hardwood 2-strip parquet boards, nailed to a resilient 1-layer batten system, installed floating on levelled concrete or wooden based subfloor. Total construction height including floor board is 50mm.

The sports performance of this floor features high shock absorbency and resilience combined with ultimate stability under foot, designed for multi-purpose use with focus on ball games, badminton and gymnastics. Tested and conforms fully to EN 14904, Class A4.

The battens feature progressive shock absorbency and a build-in deformation control, securing maximum loading capacity of the floor - also for heavy equipment, combined with long-term protection of the floor resilience.

COMPOSITION OF FLOOR SYSTEM

1. Floor boards:

22 x 130 x 2180mm solid 2-strip parquet boards, secretly nailed onto battens according to a specified 10-board measurement and a board pattern.

Wood species:

Ash, Beech, Hevea, Maple and Oak.

Grades: Premium/Select

Surface: Matt lacquer (standard factory lacquer) and semi-gloss

2. Nails:

2.2 x 45mm machine nails

3. Sports Batten System:

KTL SPORT PRO I,
(Mrk.: KTL/SBF/22/50/363)
Batten profile in Laminated Veneer Lumber (LVL) of pine in 20x48x3600mm, continuously supported by two 9.0x9.5mm elastic rubber strips and a 2x4mm EPDM rubber strip, all pre-glued in grooves / on face of the batten underside.

Batten distance:

c/c 363.3mm (Ash/Beech/Maple)

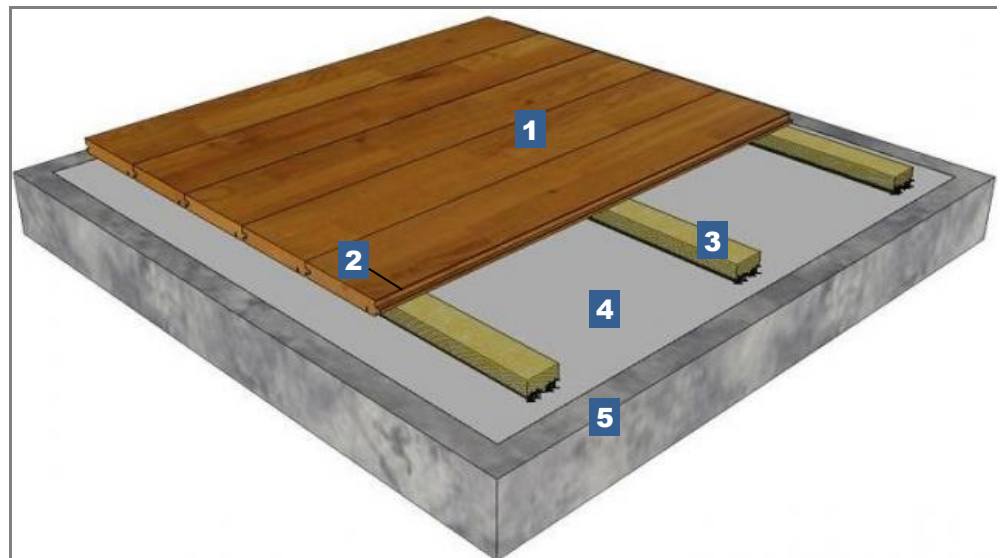
c/c 311.4mm (Hevea/Oak)

4. Moisture barrier:

Min. 0.20 mm PE-folio
(on concrete)

5. Subfloor:

Concrete, alternatively existing wooden subfloor, levelled to a minimum deviation of max. ± 2mm on a 2m straight edge.



Material consumption at 100 m²:

	Batten distance, c/c 363mm	Batten distance, c/c 311mm
■ Floor boards:	100 m ² + 2% waste	100 m ² + 2% waste
■ Nails, 2.2x45mm:	Approach. 1850 pcs.	Approach. 2250 pcs.
■ Sports Battens:	290 rm.	330 rm.
■ Loose tongue:	1 x length of floor (m)	1 x length of floor (m)
■ PVAC glue:	0.1 litre	0.1 litre
■ Moisture barrier:	110 m ² incl. overlap	110 m ² incl. overlap
■ Line marking:	Line marking can be applied directly onto the factory finish, using a special 2-pack water-based paint system, ready for use after curing.	
■ Maintenance lacquering:	When maintenance lacquering is required, the floor is buffed, before the maintenance coat of lacquer is applied onto the surface. Verify adhesion of the maintenance lacquer before starting the job.	

MANUFACTURER

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KTL SPORTS FLOORING

SPECIFICATION
PRO I SYSTEM
E 3.0
29-05-2019 (UK)

Performance:

Sports functional features of KTL SPORT PRO I SYSTEM

Test method	EN Standards	EN demands acc to Class A4	Test results at c/c = 363mm*
Shock absorption [%]	EN 14904:2006	55 – 75	60
Standard deviation [mm]	EN 14904:2006	2.3 – 5.0	2.8
Ball rebound [%]	EN 12335:2004	≥ 90	96
Rolling load [N]	EN 1569	Min. 1500	> 1500
Friction	EN 13036-4	80 – 110	80 - 90
Other Tests			
Friction	DIN 18032	0.4 – 0.6	0.41
Loading Capacity	EN 1533	4.0 kN	5.0/6.0 kN

*) Tested by Technological Institute, DK.

SPECIFICATION OF KTL SPORT PRO I SYSTEM

Floor boards:

22 x 130 x 2180mm solid 2-strip parquet boards of **[Ash/Beech/Hevea/Maple/Oak]** in the grade **[Premium/Select]**, composed from two rows of finger joined staves, assembled by a longitudinal glued centre joint. The boards are profiled with tongue and groove on all 4 sides.

Boards are secretly nailed onto sub construction using 2.2 x 45mm machine nails.

Sub-construction:

Battens in Laminated Veneer Lumber (LVL) of pine in 20 x 48 x 3600mm, continuously supported by two 9.0x9.5mm elastic rubber strips and a 2x4mm EPDM rubber strip, all pre-glued in grooves / on face of the batten underside, installed floating on levelled **[concrete/wooden floor/existing sports floor]** at a batten distance, c/c **[363mm/311mm for Ash/Beech/Maple or 311mm for Hevea/Oak]**. Total construction height incl. flooring board is 50mm.

References:

- KTL SPORT brochure.
- KTL product datasheets for parquet flooring boards.
- KTL checklist re. choice of sport floor (wood specie, loading capacities, building heights) and KTL requirements re. site conditions and workmanship.
- KTL Laying instruction on PRO I system.
- KTL Cleaning and maintenance for sports floors.
- www.ktlfloor.com or contact Technical Service at KTL for consultancy.